

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

Twelfth Monthly EM&A Report

11 November 2014

Environmental Resources Management
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Contract No. HY/2012/07





Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section

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Twelfth Monthly EM&A Report

Document Code: 0215660_12th Monthly EM&A_20141111.doc

Client: Gammon		Project No: 0215660			
Summary: This document presents the Twelfth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.		Date: 11 November 2014			
		Approved by: 			
		Mr Craig Reid Partner			
		Certified by: 			
		Mr Jovy Tam ET Leader			
	Twelfth Monthly EM&A Report	VAR	JT	CAR	11/11/14
Revision	Description	By	Checked	Approved	Date
<p>This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.</p> <p>We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.</p>		<p>Distribution</p> <p><input type="checkbox"/> Internal</p> <p><input checked="" type="checkbox"/> Public</p> <p><input type="checkbox"/> Confidential</p>			
		 			

Ref.: HYDHZMBEEM00_0_2430L.14

12 November 2014

AECOM
Supervising Officer's Representative's Office
780 Cheung Tung Road, Lantau, N.T.

By Fax (3691 2899) and By Post

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
Monthly EM&A report for October 2014 (EP-354/2009/B)**

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (October 2014) certified by the ET Leader (ET's ref.: "0215660_12th Monthly EM&A_20141111.doc" dated 11 November 2014) and provided to us via e-mail on 12 November 2014.

We are pleased to inform you that we have no adverse comments on the captioned monthly EN&A report. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/B.

Thank you for your kind 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. Matthew Fung (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

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EXECUTIVE SUMMARY

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). 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*. Another application for variation of environmental permit (VEP) (*EP-354/2009/B*) was granted on 28 January 2014.

The construction phase of the Contract commenced on 31 October 2013 and will tentatively be 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 Twelfth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 October 2014 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:

Land-Based Works

- Construction of pile cap superstructure of Viaduct B;
- Channel re-construction at Area 1;
- Land Piling at Viaducts B, C & D;
- Construction of pile cap at Viaducts B & D;
- Additional land GI, trial pits & lab testing;
- Utility surveys; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9

Marine-based Works

- Construction of Pile caps at Viaduct B;
- Marine piling platform installation for Viaducts A, B, C & D;
- Marine Piling at Viaducts B, C, D & E; and
- Additional marine ground investigation (GI) and laboratory testing.

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

24-hour TSP monitoring	6 sessions
1-hour TSP monitoring	6 sessions
Noise monitoring	6 sessions
Impact Water Quality Monitoring	13 sessions
Impact Dolphin Monitoring	2 sessions
Joint Environmental site inspection	4 sessions
Post-Translocation Coral Monitoring	1 session

Breaches of Action and Limit Levels for Air Quality

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

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. Passive Acoustic Monitoring (PAM) was also implemented for the detection of marine mammal when marine works were carried out outside the daylight hours under this Contract. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) was recorded in October 2014 during the exclusion zone monitoring.

Coral Monitoring

The Fourth Quarterly Post-translocation Coral Monitoring was conducted on 23 October 2014 and the results will be detailed in the *Fourth Quarterly Post-Translocation Coral Monitoring Report*.

Environmental Complaints, Non-compliance & Summons

No environmental complaint, notification of summons and successful prosecution was received in the reporting month.

Reporting Change

There was no reporting change required in the reporting period.

Upcoming Works for the Next Reporting Period

Works to be undertaken in the next monitoring period of November 2014 include the following:

Marine Works

- Construction of Pile caps at Viaduct B;
- Marine piling platform installation for Viaducts A, B, C & D;
- Marine Piling at Viaducts B, C, D & E; and
- Additional marine ground investigation (GI) and laboratory testing.

Land-based Works

- Construction of pile cap superstructure of Viaduct B;
- Channel re-construction at Area 1;
- Land Piling at Viaducts B, C & D;
- Construction of pile cap at Viaducts B & D;
- Additional land GI, trial pits & lab testing;
- Utility surveys; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

Future Key Issues

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of November 2014 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

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-354/2009A) 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). 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*. Another application for variation of environmental permit (VEP) (*EP-354/2009/B*) was granted on 28 January 2014.

The construction phase of the Contract commenced on 31 October 2013 and will be tentatively be 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*.

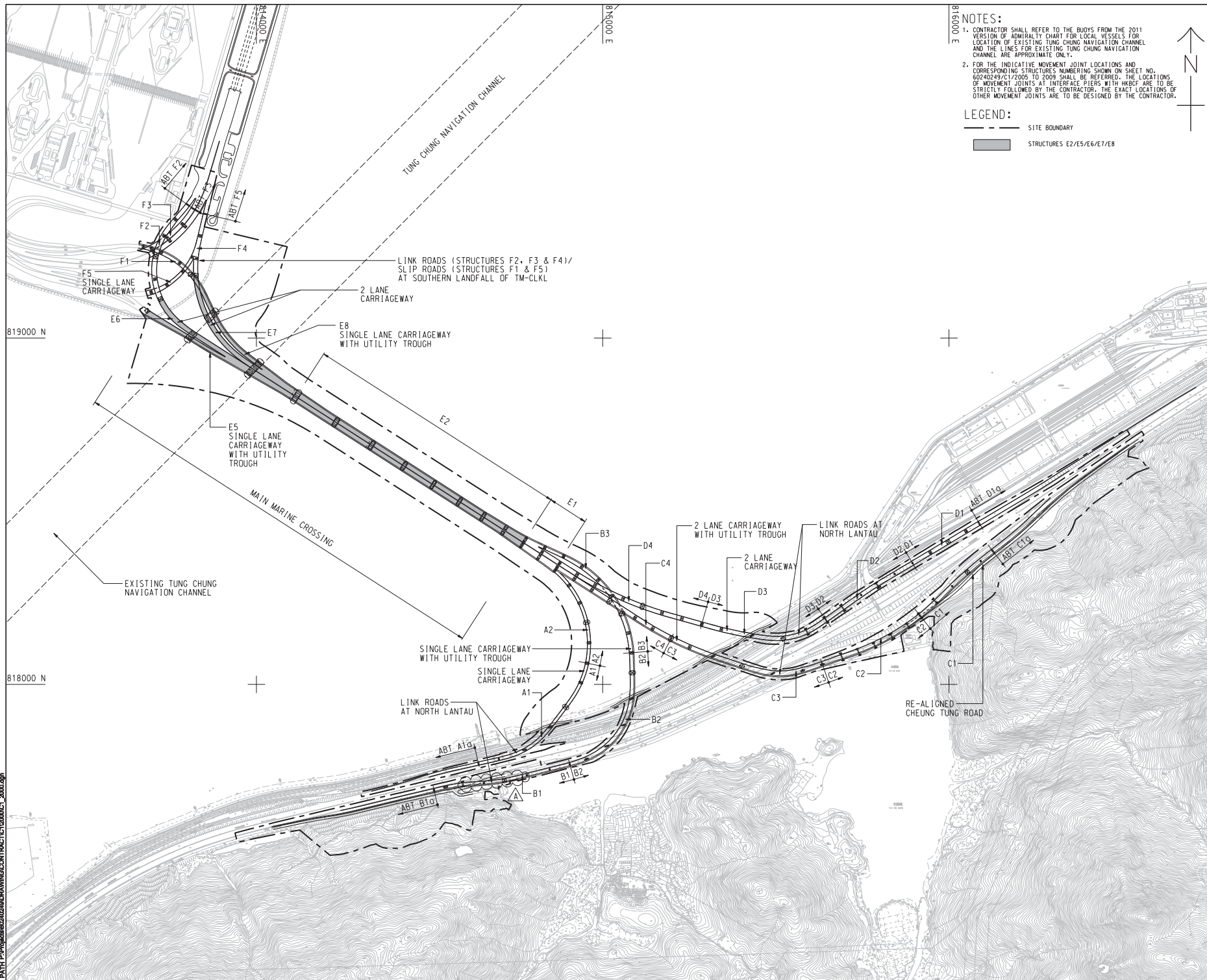


Figure 1.1

General Layout Plan of the Project

Environmental
Resources
Management





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:
 [Dashed Line] SITE BOUNDARY
 [Grey Box] STRUCTURES E2/E5/E6/E7/E8

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
 港務局
 港務局工程處
 Hong Kong - Zhuhai - Hainan Bridge
 Hong Kong Project Management Office

CONSULTANT
 AECOM Asia Company Ltd.
 www.aecom.com

SUB-CONSULTANTS

Figure 1.2a

ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.

STATUS

SCALE	DIMENSION UNIT
A1 : 6000	METRES

KEY PLAN

PROJECT NO. 60240249	CONTRACT NO. HY/2012/07
SHEET TITLE SOUTHERN CONNECTION GENERAL LAYOUT PLAN	
SHEET NUMBER 60240249/C1/2000A	

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KEY PLAN

NOTES
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- 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

MATCH LINE
 FOR CONTINUATION
 SEE DRG. J3518/P/OAP/04/01101



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B	SUBMISSION	RC	07/13				
C	SUBMISSION	RC	09/13				

Drawn	Date	Client
RL	07/13	
Checked	Approved	
DS	DOP	
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路政署
HIGHWAYS DEPARTMENT
 香港特別行政區運輸及房屋局
 Transport and Planning
 Hong Kong - Zhuhai - Macao Bridge
 Hong Kong Project Management Office

Supervising Officer: **AECOM**
 Contractor: **Gammon**

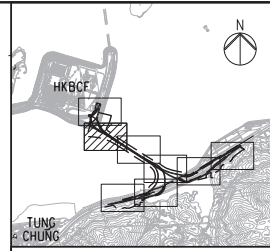
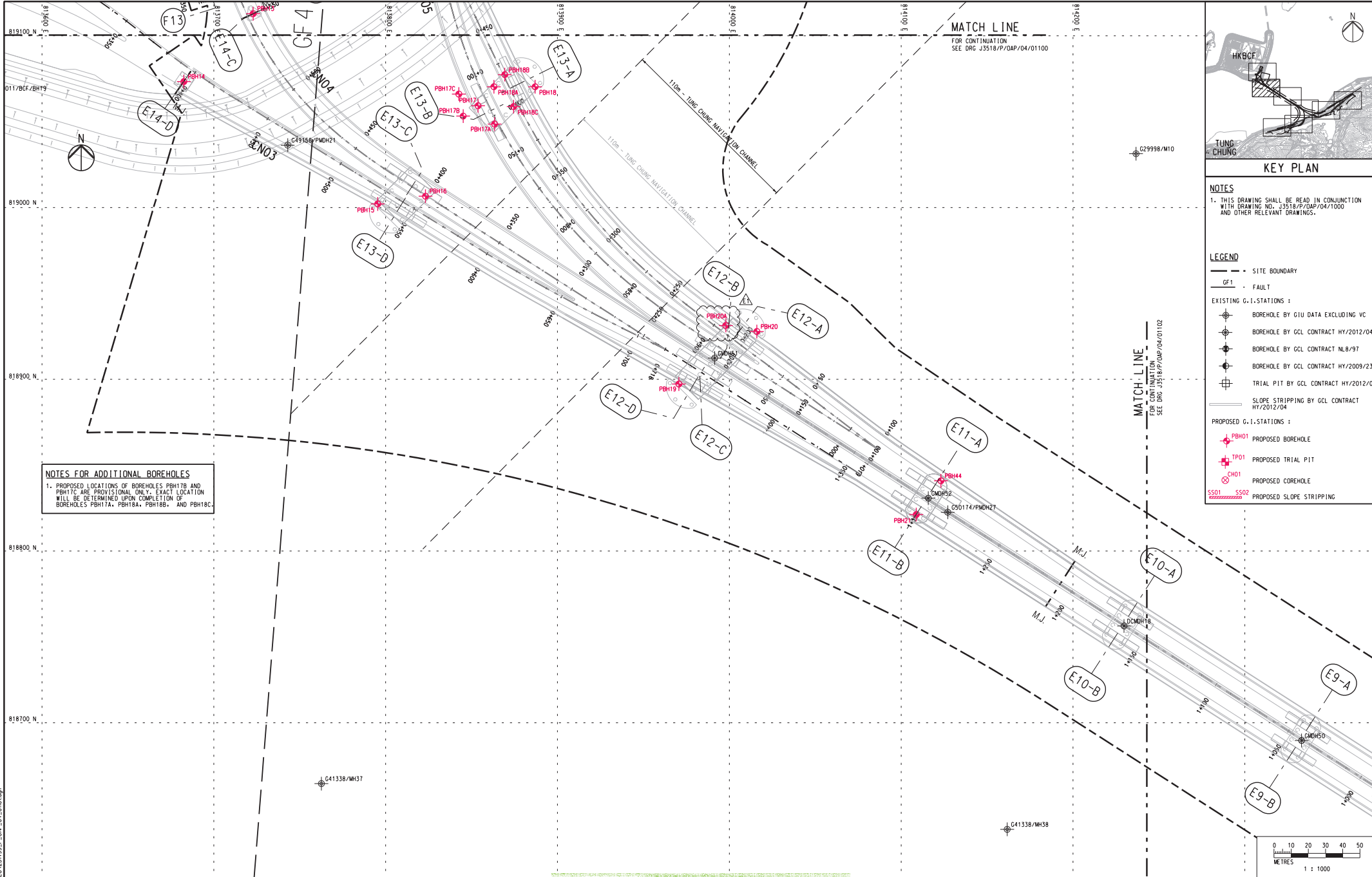
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Contract No. HY/2012/07
Tuen Mun - Chek Lap Kok Link
Southern Connection Viaduct Section

Originator: **ARUP**

Drawing title
Figure 1.2b

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 - ⊕ TP01 PROPOSED TRIAL PIT
 - ⊕ CH01 PROPOSED COREHOLE
 - SS01 SS02 PROPOSED SLOPE STRIPPING

NOTES FOR ADDITIONAL BOREHOLES
 1. PROPOSED LOCATIONS OF BOREHOLES PBH17B AND PBH17C ARE PROVISIONAL ONLY. EXACT LOCATION WILL BE DETERMINED UPON COMPLETION OF BOREHOLES PBH17A, PBH18A, PBH18B, AND PBH18C.

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Checked	Date	Supervising Officer	Contractor
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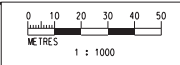
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Client: **HIGHWAYS DEPARTMENT**
 香港運輸及房屋局
 Hong Kong - Zhuhai - Macao Bridge
 Hong Kong Project Management Office

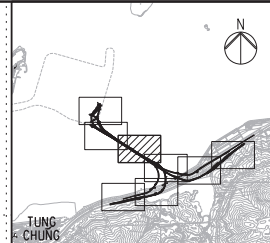
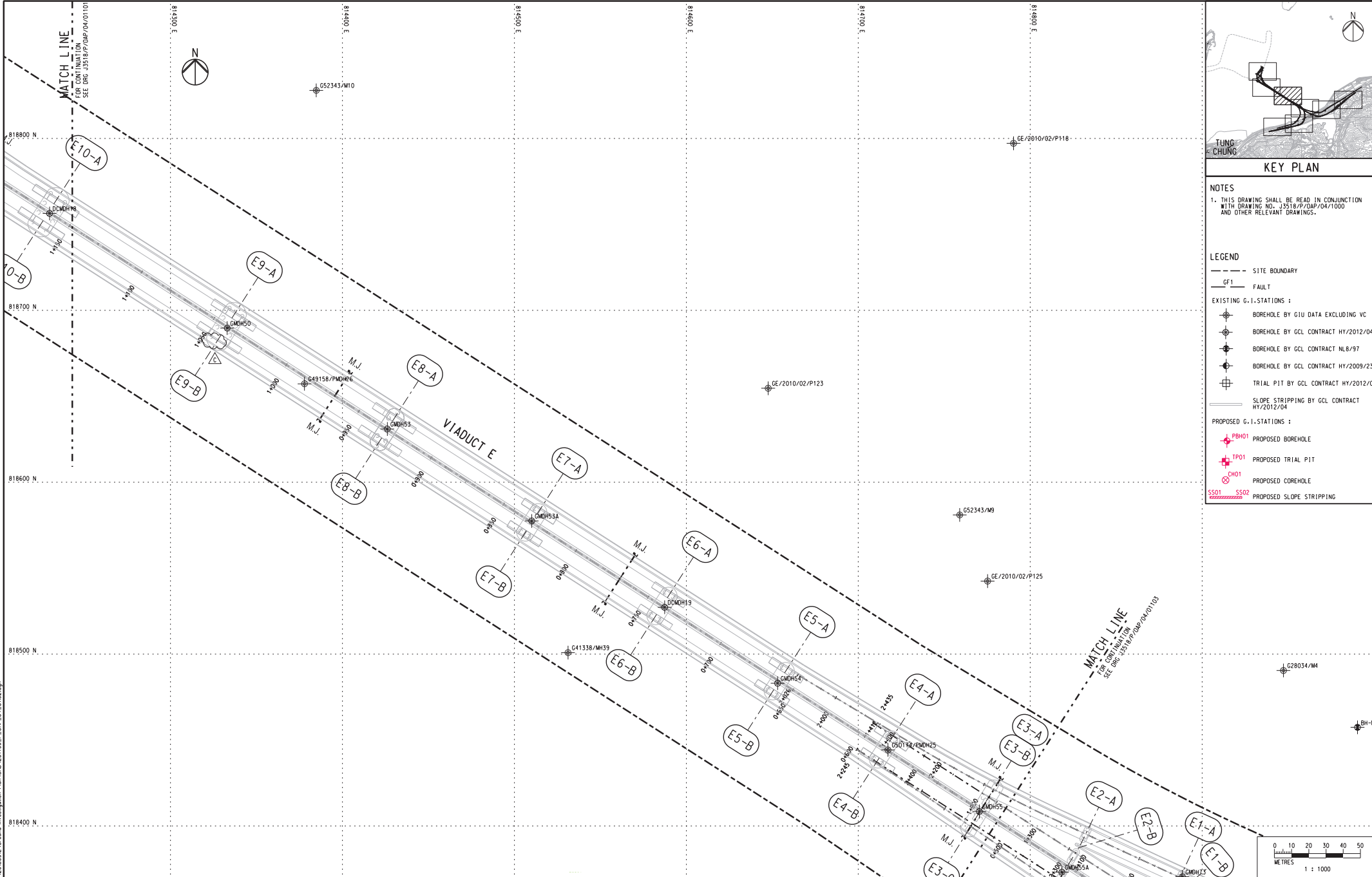
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 Tuen Mun - Chek Lap Kok Link
 Southern Connection Viaduct Section

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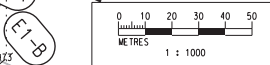
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Client

Supervising Officer

Contract No. HY/2012/07
 Tuen Mun - Chek Lap Kok Link
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Contractor

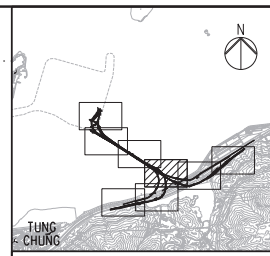
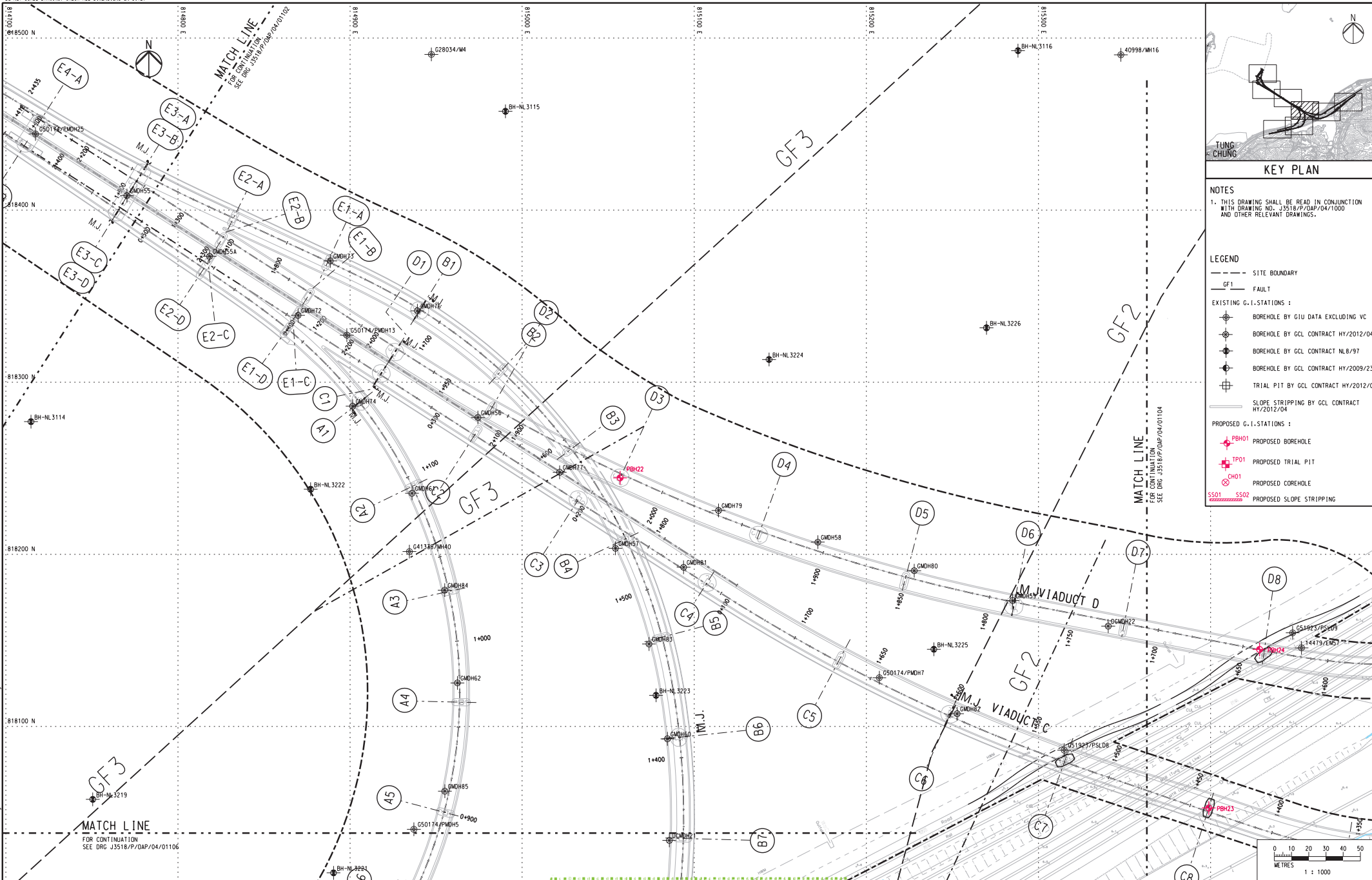
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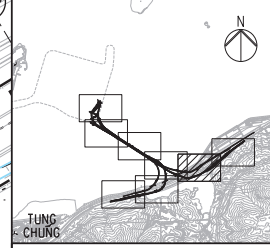
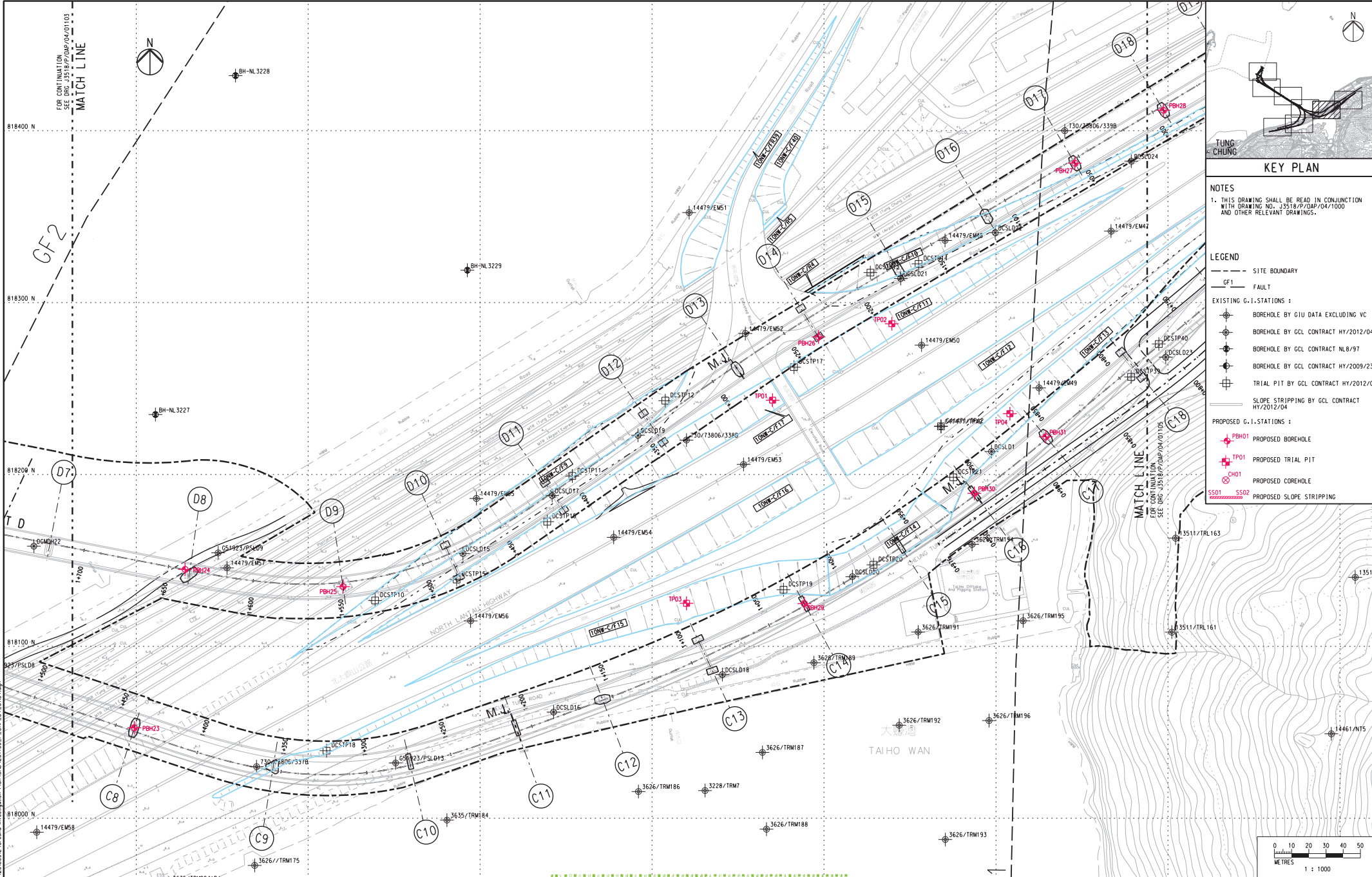
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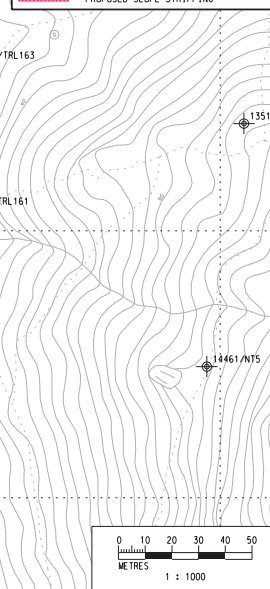
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 - ⊕ TRIAL PIT BY GCL CONTRACT HY/2012/04
 - PROPOSED G.I. STATIONS :
 - ⊕ PBH01 PROPOSED BOREHOLE
 - ⊕ TP01 PROPOSED TRIAL PIT
 - ⊕ CH01 PROPOSED COREHOLE
 - SS01 SS02 PROPOSED SLOPE STRIPPING



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B	SUBMISSION	RC	07/13					Checked	Approved
C	SUBMISSION	RC	09/13					DS	DOP
								Scale	1:1000 @ A1 / 1:2000 @ A3

Client

Supervising Officer

Project Title

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

Contractor

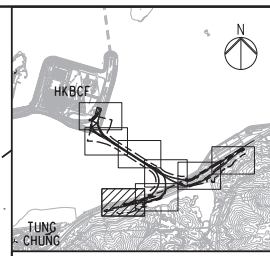
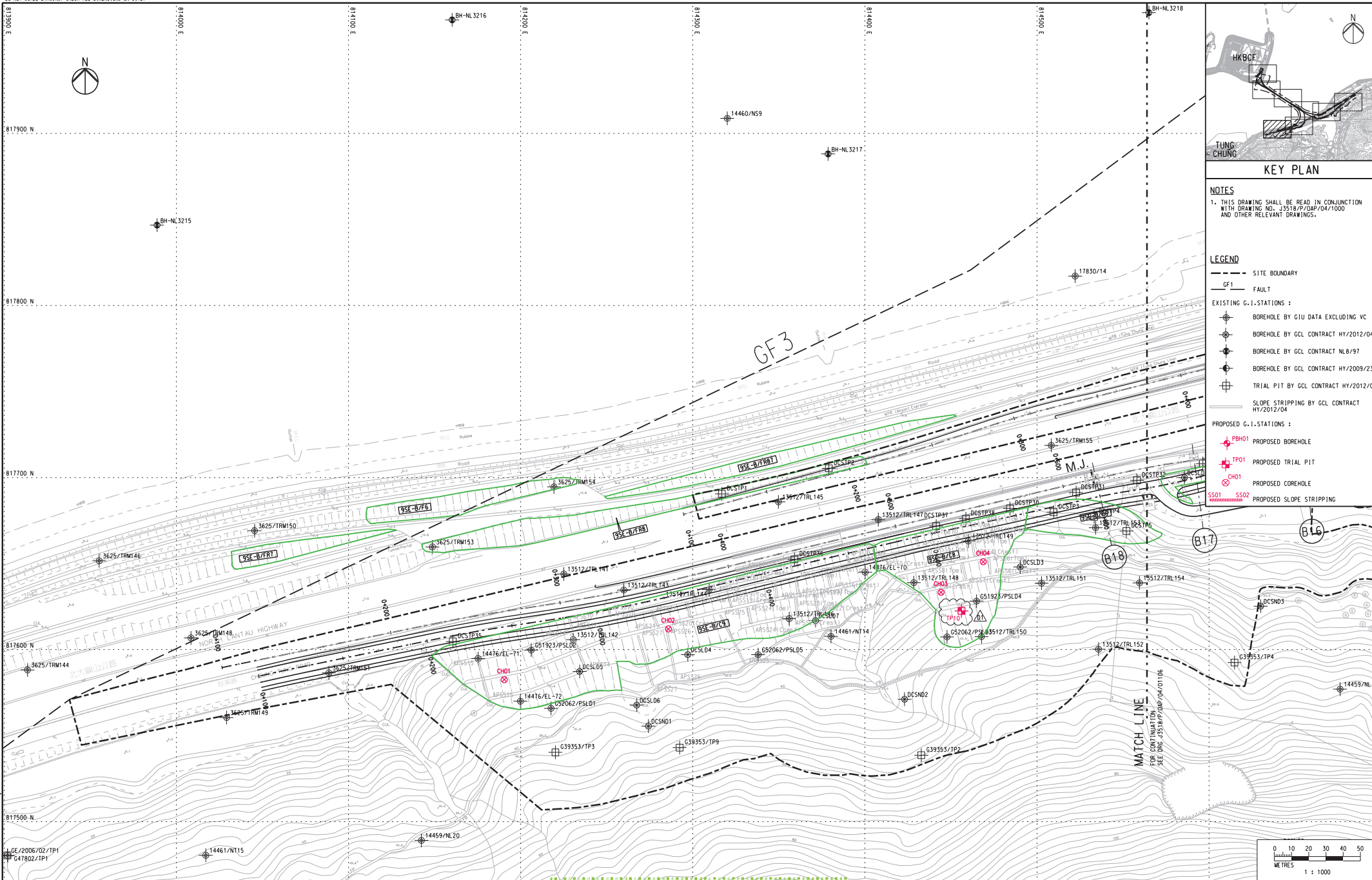
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Drawing title

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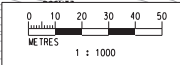
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KEY PLAN

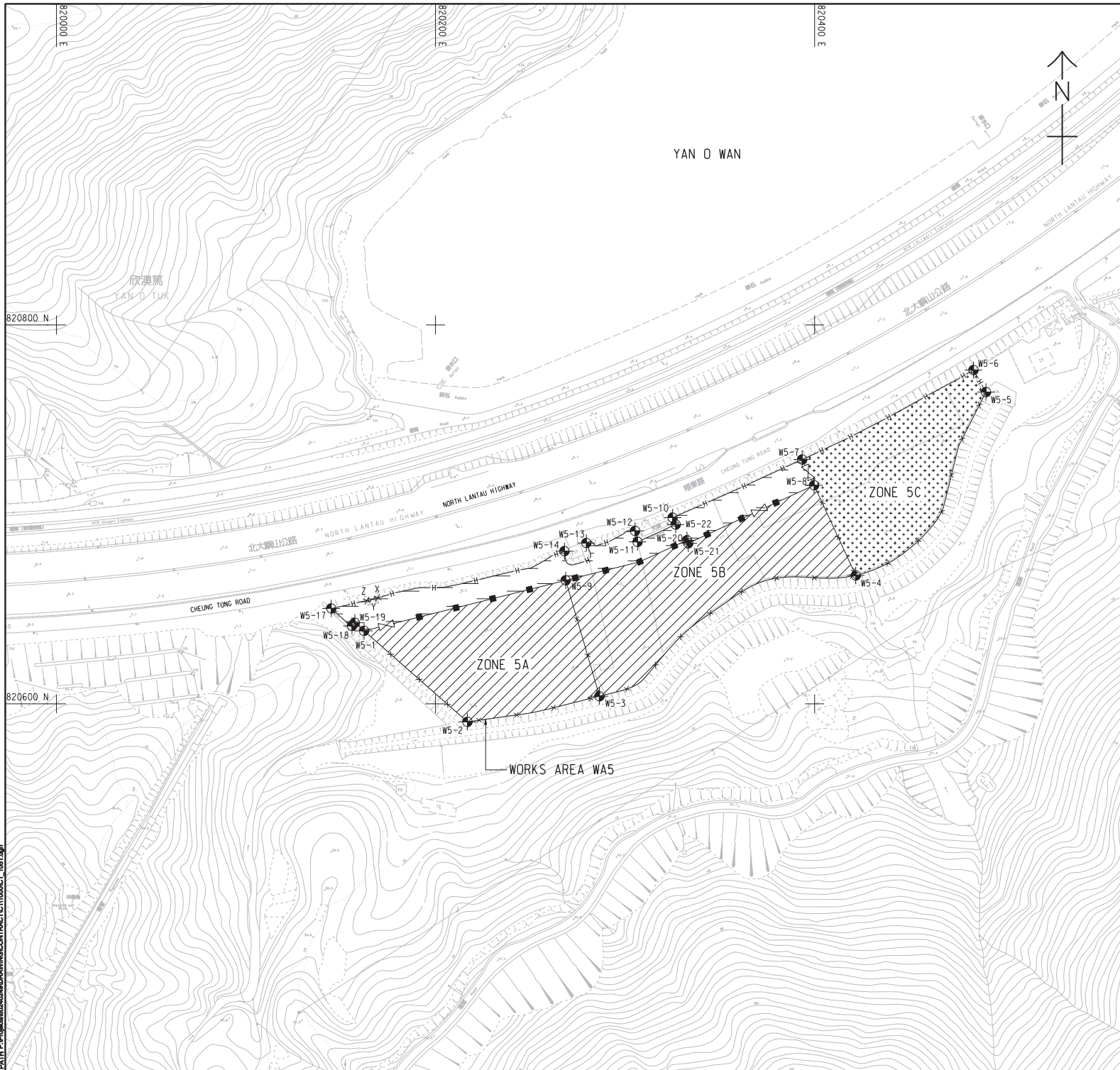
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- LEGEND**
- SITE BOUNDARY
 - GF1 FAULT
 - EXISTING G.I. STATIONS:
 - ⊕ BOREHOLE BY GIU DATA EXCLUDING VC
 - ⊕ BOREHOLE BY GCL CONTRACT HY/2012/04
 - ⊕ BOREHOLE BY GCL CONTRACT NL6/97
 - ⊕ BOREHOLE BY GCL CONTRACT HY/2009/23
 - ⊕ TRIAL PIT BY GCL CONTRACT 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



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NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/C1/1000.
- 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. T15 619. IN CASE OF DISCREPANCY BETWEEN THE BOUNDARY SHOWN ON THIS DRAWING AND THE BOUNDARY INDICATED ON THE ENGINEERING CONDITIONS, THE LATTER SHALL PREVAIL.
- DEMARCATION OF THE WORKS AREA SHALL BE DETERMINED ON SITE.
- REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6110 AND H6111 FOR DETAILS OF HOARDING.
- REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6121 AND H6122 FOR DETAILS OF CHAIN LINK FENCE.
- REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NO. H6121 FOR DETAILS OF GATE.
- 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.
- THE LOCATION AND WIDTH OF GATE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
- 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.
- THE TENTATIVE OCCUPATION PERIOD SHALL BE REFERRED TO EMPLOYER'S REQUIREMENTS PART 2 AND PART 14 SECTION 1 CLAUSE 1.45A.
- THE WORKS AREAS SHOWN ON THIS DRAWING ARE TO BE SHARE-USED AMONG THE CONTRACTS OF TM-CLK RELATED CONTRACTS. THE AREAS HATCHED WITH ARE TENTATIVELY ALLOCATED FOR THE USE OF THIS CONTRACT.
- 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.
- 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 W5

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

ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.
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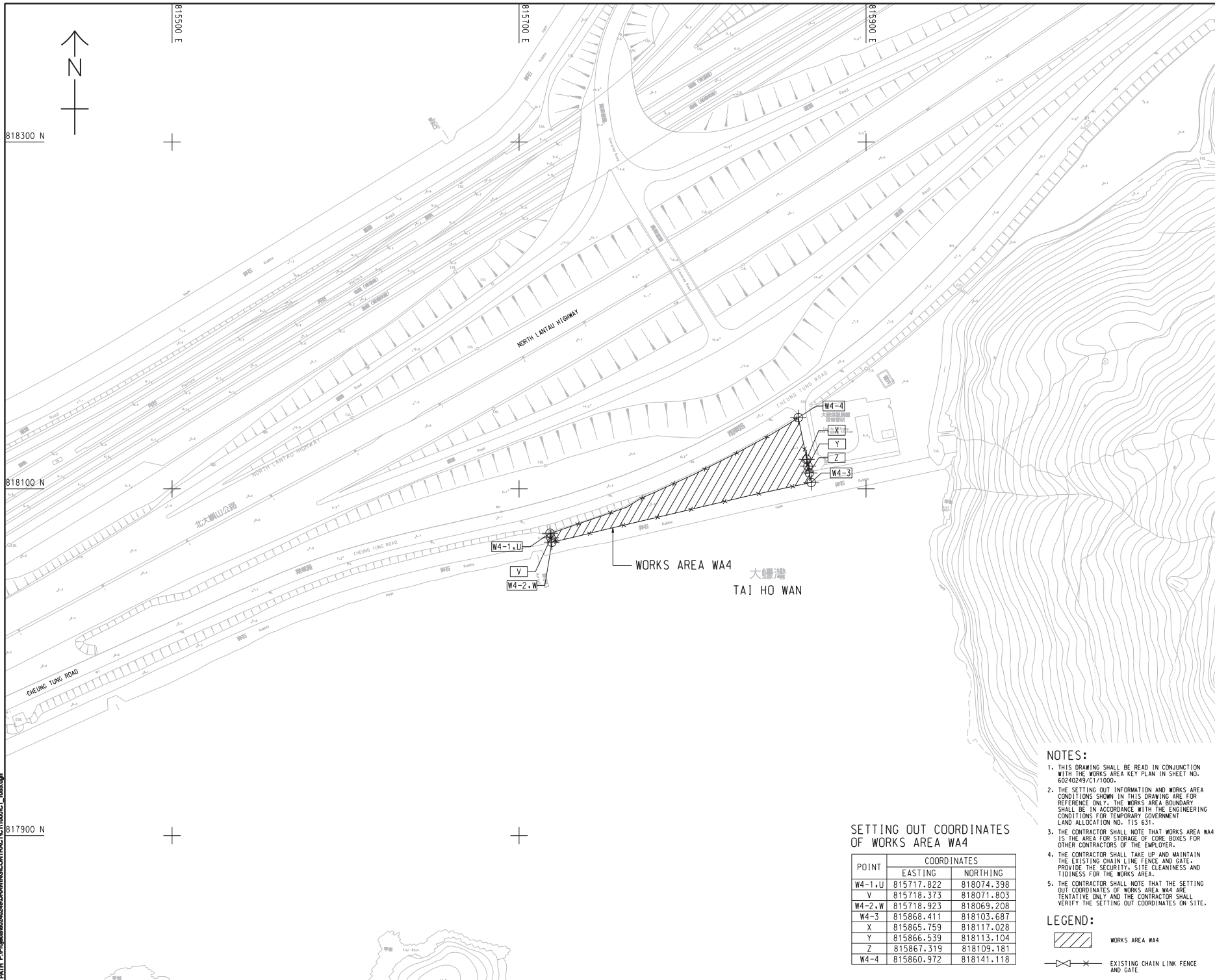
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A1:1000	METRES

KEY PLAN

Figure 1.2h

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WORKS AREA WA4
 大螺灣
 TAI HO WAN

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:**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/C1/100.
 - 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. T15/631.
 - THE CONTRACTOR SHALL NOTE THAT WORKS AREA WA4 IS THE AREA FOR STORAGE OF CORE BOXES FOR OTHER CONTRACTORS OF THE EMPLOYER.
 - THE CONTRACTOR SHALL TAKE UP AND MAINTAIN THE EXISTING CHAIN LINK FENCE AND GATE. PROVIDE THE SECURITY, SITE CLEANLINESS AND TIDINESS FOR THE WORKS AREA.
 - 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 DEPARTMENT OF HIGHWAYS
 港務局 港務工程管理局
 Hong Kong + Zhuhai + Hainan Bridge
 Hong Kong Project Management Office

CONSULTANT
 AECOM Asia Company Ltd.
 www.aecom.com

SUB-CONSULTANTS

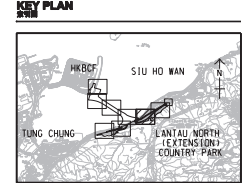
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ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.
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DIMENSION UNIT
 METRES



PROJECT NO.
 60240249

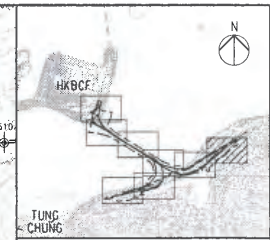
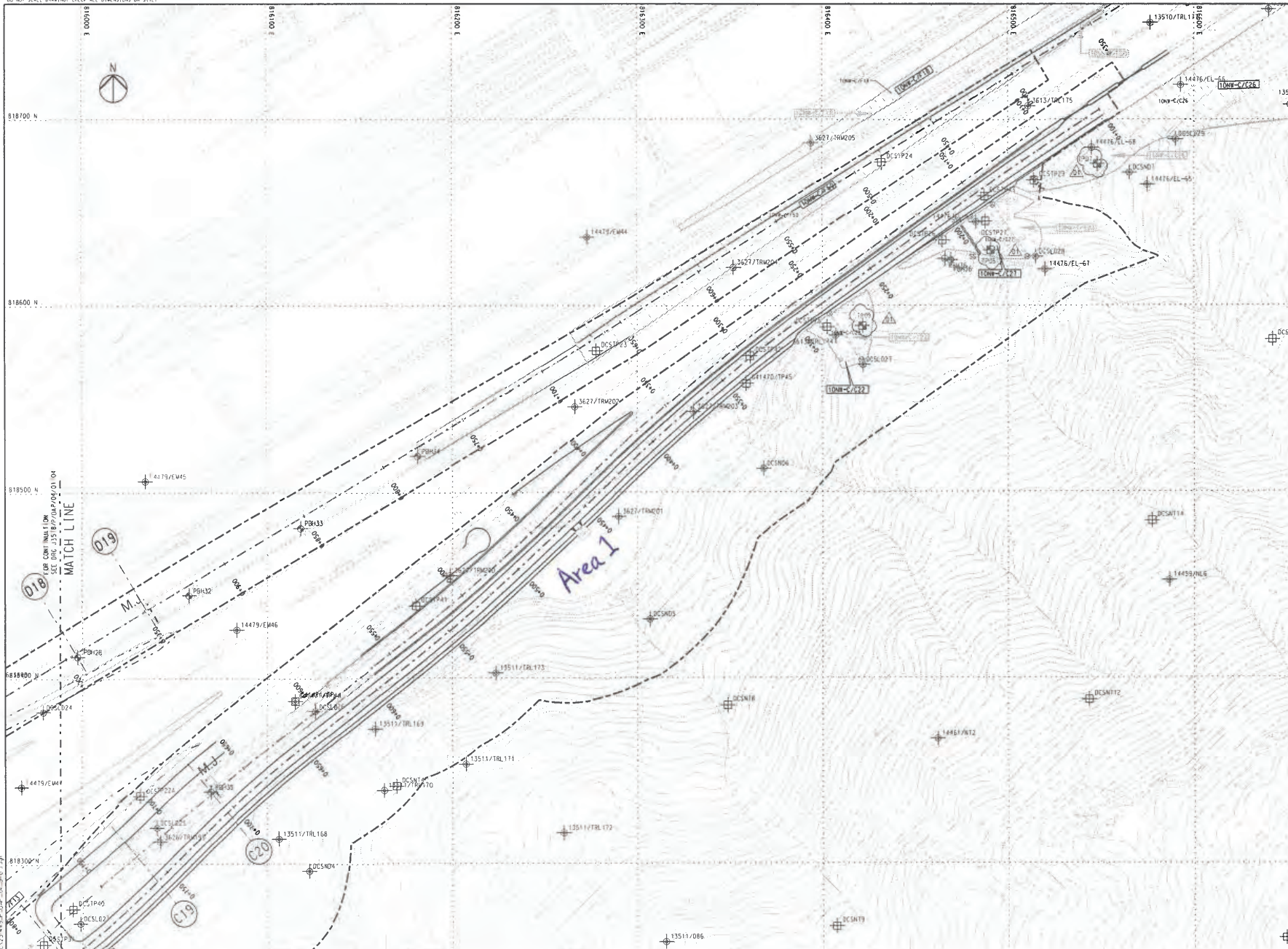
CONTRACT NO.
 HY/2012/07

SHEET TITLE
 WORKS AREA WA4

SHEET NUMBER
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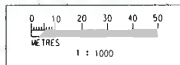
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- LEGEND**
- SITE BOUNDARY
 - GF1 FAULT
- EXISTING G.I. STATIONS :**
- ⊕ BOREHOLE BY GIU DATA EXCLUDING VC
 - ⊕ BOREHOLE BY GCL CONTRACT HY/2012/04
 - ⊕ BOREHOLE BY GCL CONTRACT N6.8/97
 - ⊕ BOREHOLE BY GCL CONTRACT HY/2009/23
 - ⊕ TRIAL PIT BY GCL CONTRACT HY/2012/04
 - ⊕ SLOPE STRIPPING BY GCL CONTRACT HY/2012/04
- PROPOSED G.I. STATIONS :**
- ⊕ B-0 PROPOSED BOREHOLE
 - ⊕ T-0 PROPOSED TRIAL PIT
 - ⊕ C-01 PROPOSED COREHOLE
 - ⊕ S-01 PROPOSED SLOPE STRIPPING



Rev	Description	By	Date	Rev	Description	By	Date
01	ISSUED FOR CONSTRUCTION	RL	31/7/13				
02	ISSUED FOR CONSTRUCTION	RL	27/7/13				
03	ISSUED FOR CONSTRUCTION	RL	29/7/13				
04	ISSUED FOR CONSTRUCTION	RL	19/7/12				

Drawn	Date	Client
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Checked <td>Approved <td>港珠澳大桥香港工程指挥部 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office</td> </td>	Approved <td>港珠澳大桥香港工程指挥部 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office</td>	港珠澳大桥香港工程指挥部 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office
DS	DOP	Supervising Officer

Client: 路政署 HIGHWAYS DEPARTMENT
 港珠澳大桥香港工程指挥部
 Hong Kong - Zhuhai - Macao Bridge
 Hong Kong Project Management Office

Project Title: Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section

Contract No. HY/2012/07

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

Supervising Officer: **AECOM**

Contractor: **Gammon**

Originator: **ARUP**

Drawing title: **Figure 1.2k**

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

1.2 SCOPE OF REPORT

This is the Twelfth 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 2014.

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.

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 (ENVIRON Hong Kong Ltd.)	ENPO Leader	Y.H. Hui	3465 2888	3465 2899
	IEC	Dr. F.C. Tsang	3465 2828	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 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-based Works

- Construction of Pile caps at Viaduct B;
- Marine piling platform installation for Viaducts A, B, C & D;
- Marine Piling at Viaducts B, C, D & E; and

- Additional marine ground investigation (GI) and laboratory testing.

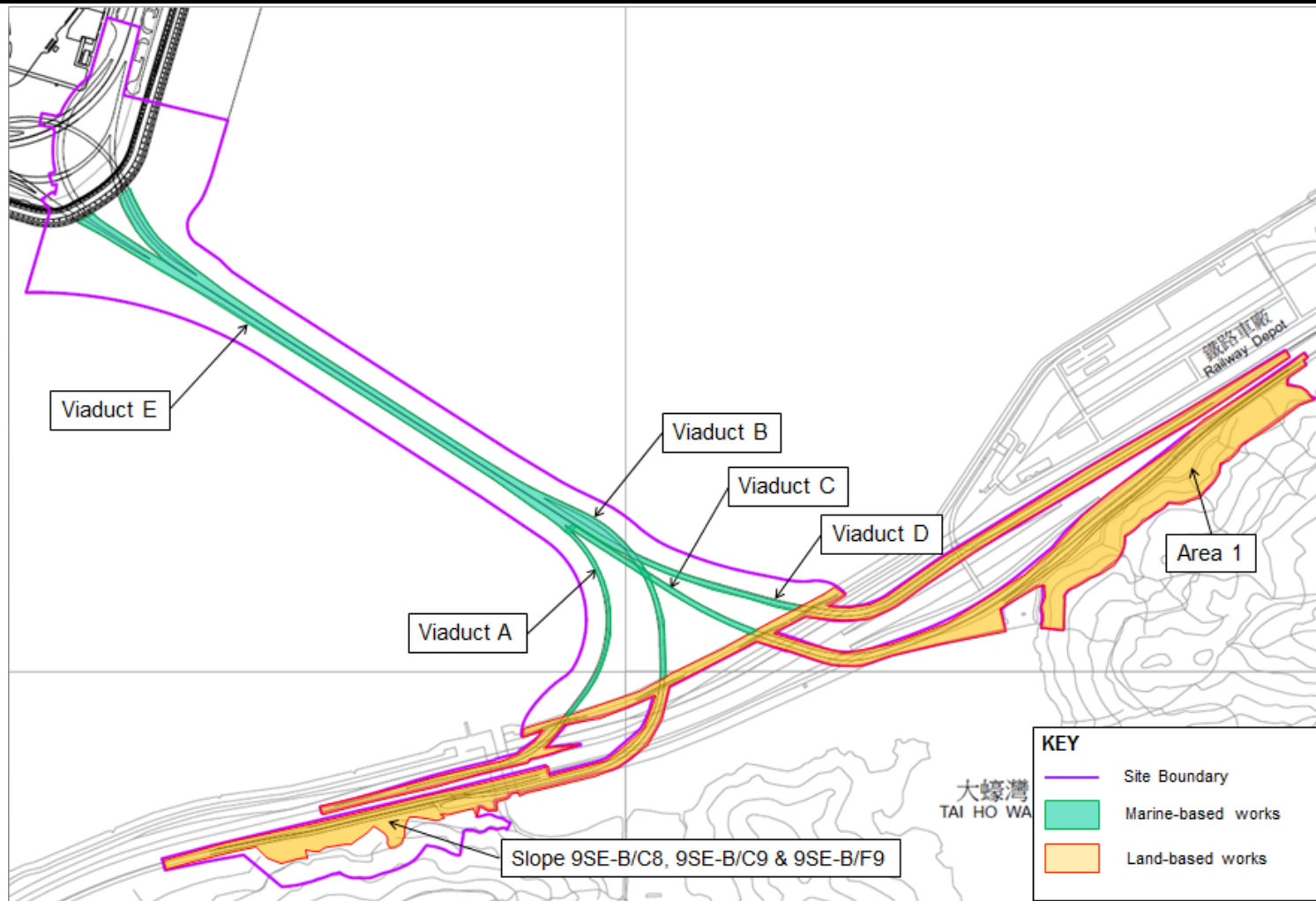
Land-Based Works

- Construction of pile cap superstructure of Viaduct B;
- Channel re-construction at Area 1;
- Land Piling at Viaducts B, C & D;
- Construction of pile cap at Viaducts B & D;
- Additional land GI, trial pits & lab testing;
- Utility surveys; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9

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 are presented in *Appendix C*.

Figure 1.3 Locations of Construction Activities in the Reporting Month



Key

Air Sensitive Receiver

- Air Sensitive Receiver
- Noise Sensitive Receiver
- Water Sensitive Receiver
- ▲ Site of Special Scientific Interest (SSSI)
- Known Coral Communities
- Site Boundary

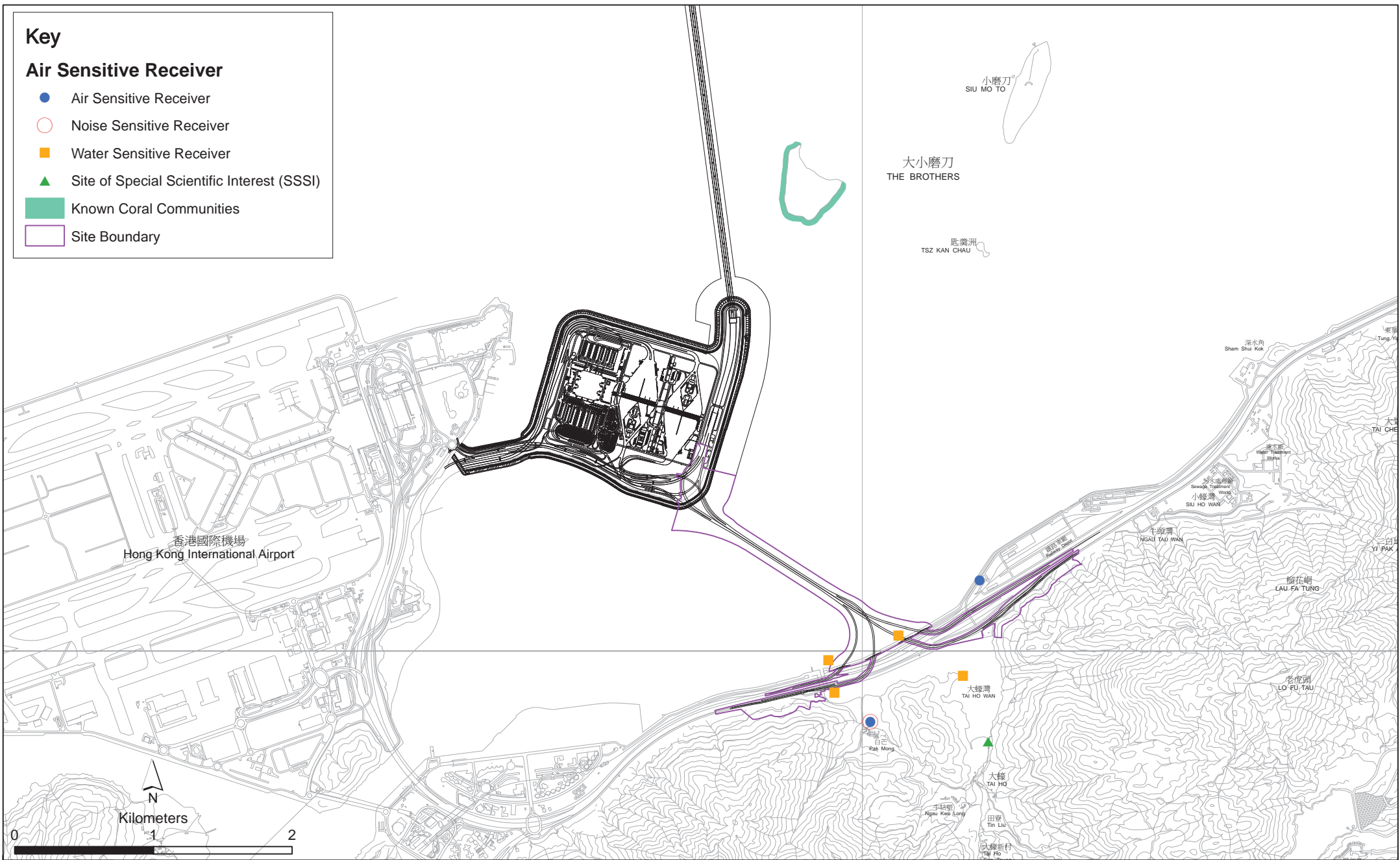


Figure 1.4

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

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 8	Pak Mong Village Watch Tower	Rooftop of the premise	3, 9, 15, 21, 27 and 30 October 2014
ASR 8A	Area 4	On ground at the Area 4	

High Volume Samplers (HVSs) were used for carrying out 1-hour and 24-hr TSP monitoring on 3, 9, 15, 21, 27 and 30 October 2014 at ASR8 (Pak Mong Village Watch Tower) and ASR8A (Area 4) (*Figure 2.1; Table 2.1*) in accordance with the requirements stipulated in the Updated EM&A Manual. Wind anemometer was installed at the rooftop of Pak Mong Village Watch Tower for logging wind speed and wind direction. Details of the equipment deployed are given in *Table 2.2*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

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)

Key

- Original Monitoring Station
- Alternative Monitoring Station
- Site Boundary

AQMS	X	Y
ASR9A	815847.40	818508.64
ASR9C	816399.52	818946.65
ASR8	815059.45	817488.99
ASR8A	815856.14	818118.14

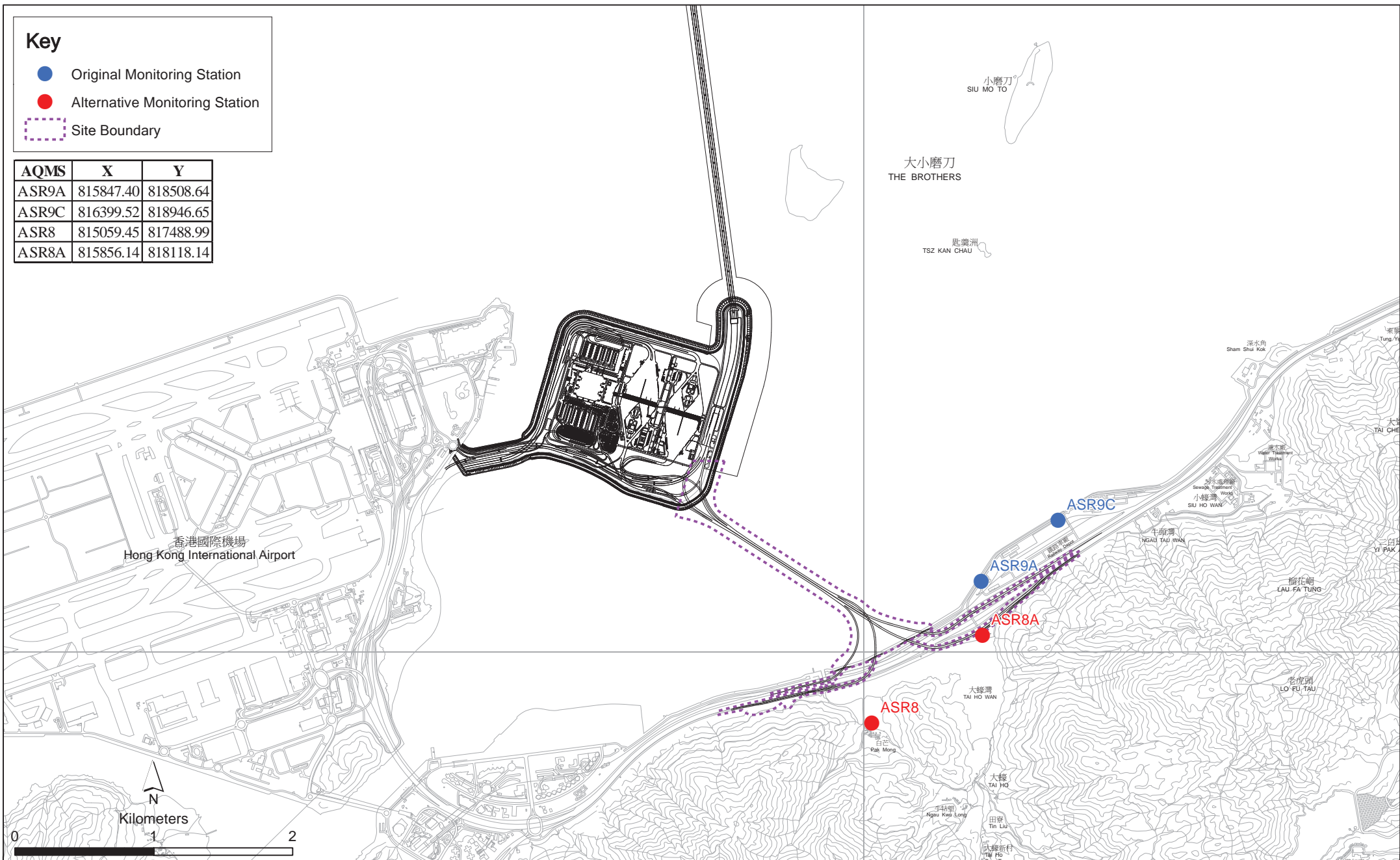


Figure 2.1

Locations of Air Quality Monitoring Stations

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Date: 6/12/2013

Remark: Air Quality Monitoring Stations ASR9A and ASR9C (Siu Ho Wan MTRC Depot) proposed in accordance with the Updated EM&A were temporarily relocated to ASR8A and ASR8, respectively.

2.1.2 *Monitoring Schedule for the Reporting Month*

The schedule for air quality monitoring in October 2014 is provided in *Appendix F*.

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*

	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
ASR 8A	106	54 - 175	394	500
ASR 8	130	67 - 243	393	500

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

	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
ASR 8A	60	46 - 79	178	260
ASR 8	71	46 - 101	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 the rooftop of Pak Mong Village Watch Tower, 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 3, 9, 15, 21, 27 and 30 October 2014 using sound level meter at the designated monitoring station NSR 1 (*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 equipment deployed are provided in *Table 2.6*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

Key

- Noise Monitoring Station
- Site Boundary

NMS	X	Y
NSR1	815059.45	817488.99

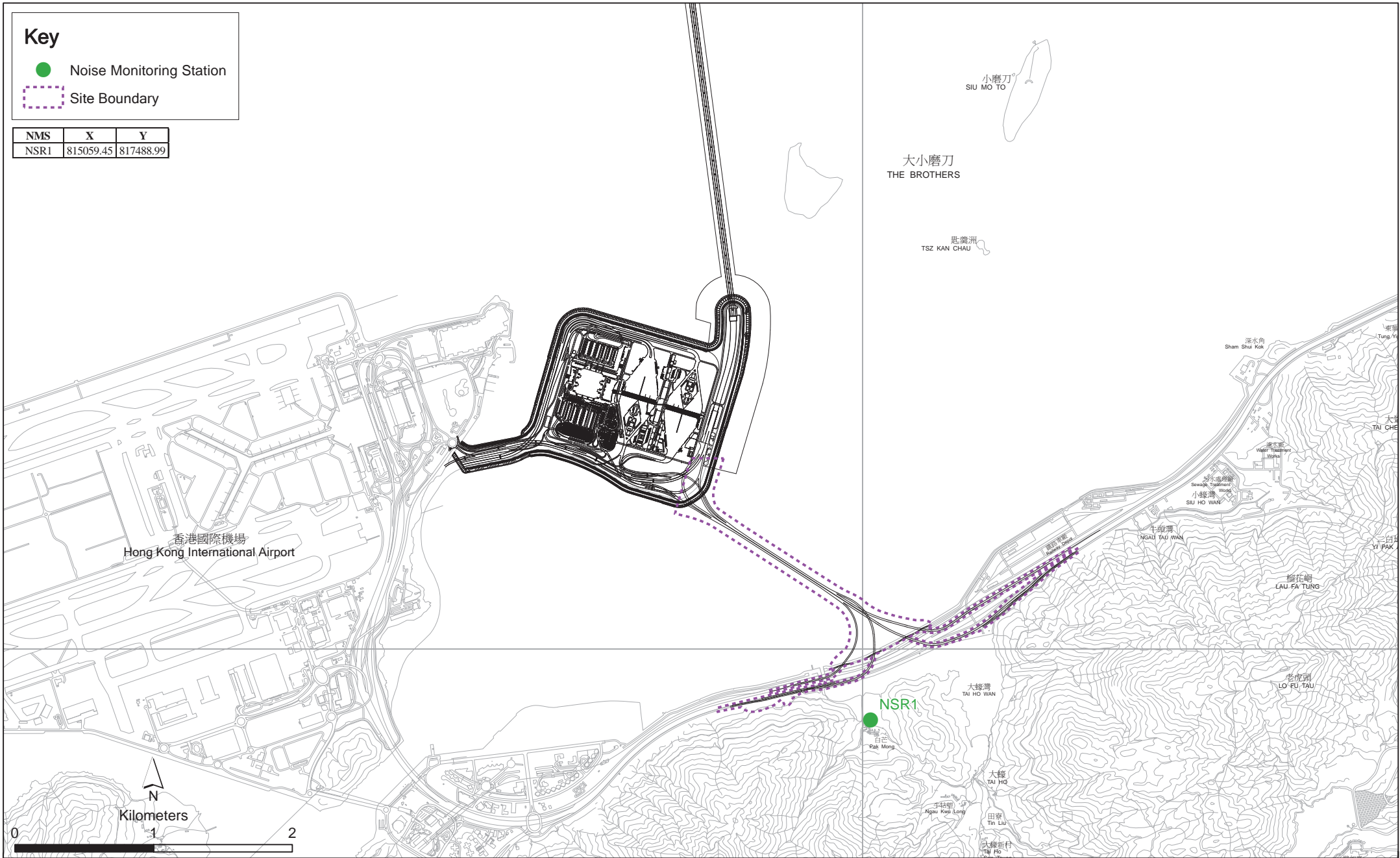


Figure 2.2

Locations of Noise Monitoring Stations

Table 2.5 *Location of Impact Noise Monitoring Station*

Monitoring Station	Location	Description	Parameter	Frequency and Duration	Monitoring Dates
NSR 1	Pak Mong Village Watch Tower	Rooftop of the premise	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	3, 9, 15, 21, 27 and 30 October 2014

Table 2.6 *Noise Monitoring Equipment*

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

2.2.2 *Monitoring Schedule for the Reporting Month*

The schedule for construction noise monitoring in the reporting period is provide in *Appendix F*.

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 1	57	56 - 59	75

No noise Action Level and Limit level exceedance was recorded at all monitoring stations 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 is provided in *Appendix D*.

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

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	<ul style="list-style-type: none"> • Temperature(°C) • pH (pH unit) • Turbidity (NTU) • Water depth (m) • Salinity (ppt) • DO (mg/L and % of saturation) • SS (mg/L) 	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			
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			

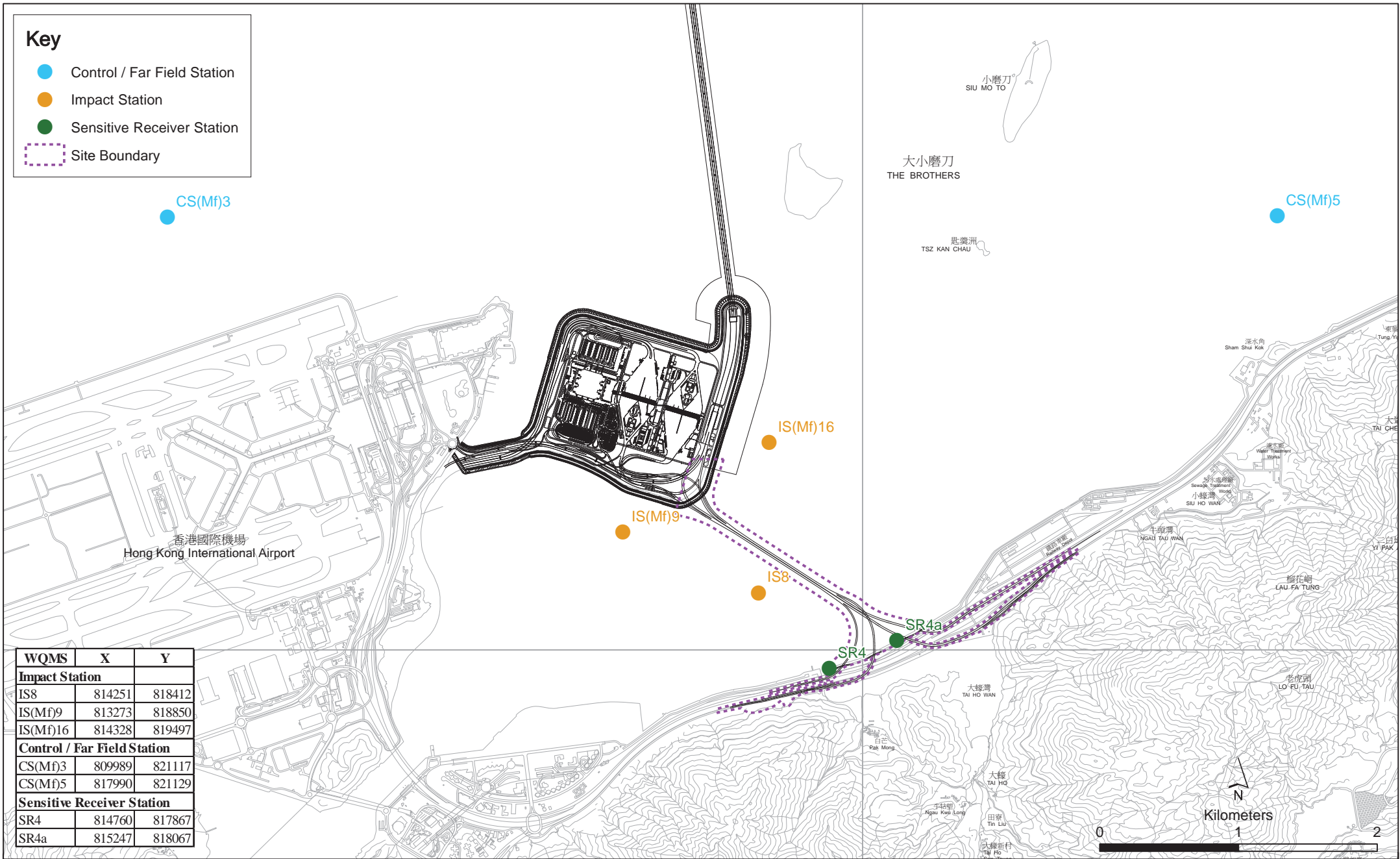
*Notes:

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*.

Key

- Control / Far Field Station
- Impact Station
- Sensitive Receiver Station
- Site Boundary



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

Table 2.9 **Water Quality Monitoring Equipment**

Equipment	Brand and Model
DO and Salinity	YSI Pro2030
Turbidity meter	HACH Model 2100Q
pH meter	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 2014 is provided in *Appendix F*.

2.3.3 **Results and Observations**

A total of 13 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*.

No Action and 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 summarises 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 × 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.

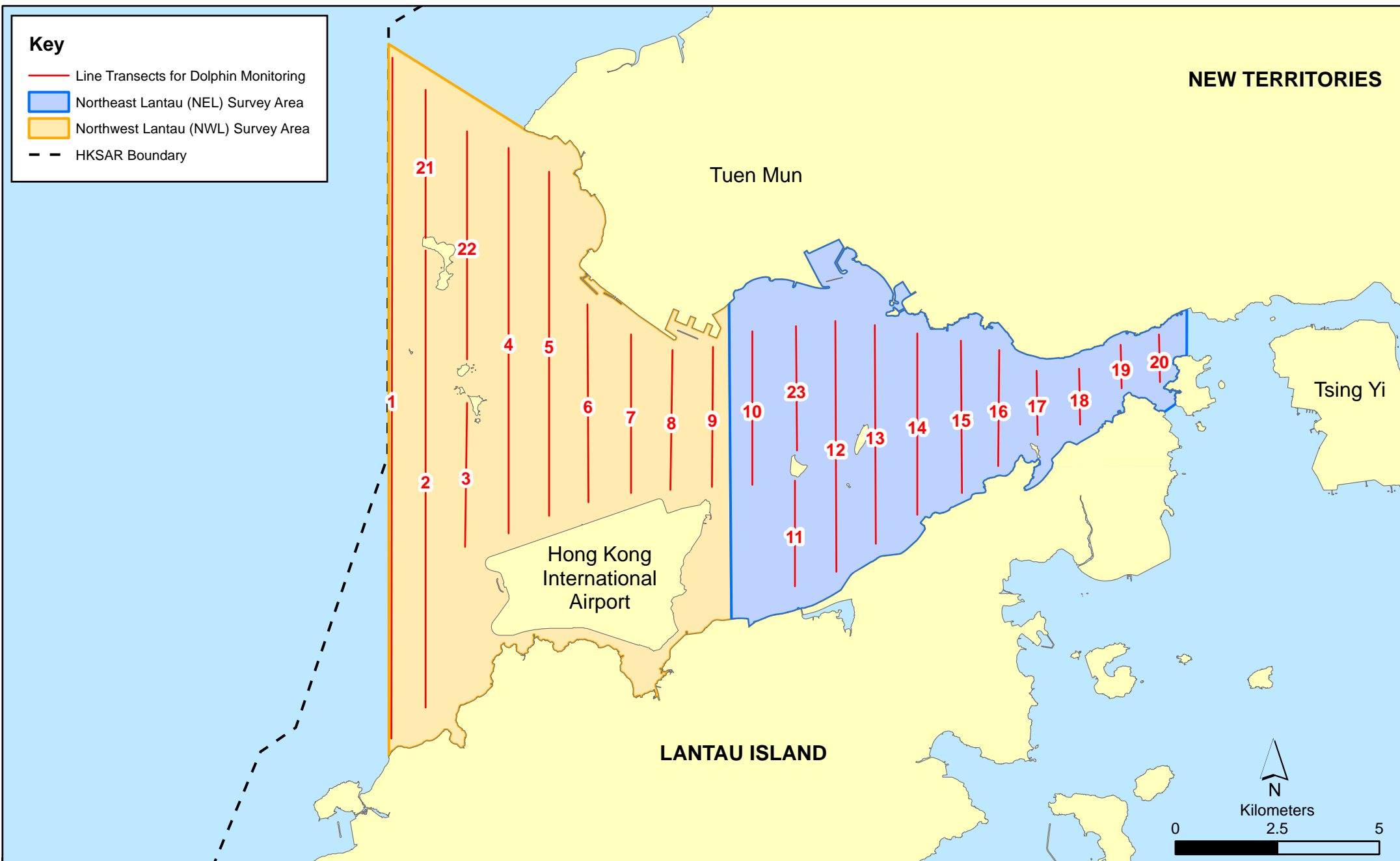


Figure 2.4

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

Table 2.11 Impact Dolphin Monitoring Line Transect Co-ordinates

Line No.		Easting	Northing		Line No.		Easting	Northing
1	Start Point	804671	814577		13	Start Point	816506	819480
1	End Point	804671	831404		13	End Point	816506	824859
2	Start Point	805475	815457		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	820690		19	Start Point	822513	823268
7	End Point	810499	824613		19	End Point	822513	824321
8	Start Point	811508	820847		20	Start Point	823477	823402
8	End Point	811508	824254		20	End Point	823477	824613
9	Start Point	812516	820892		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	818449		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 7, 13, 16 and 23 of October 2014 (*Appendix F*).

2.4.7 *Results and Observations*

A total of 298.22 km of survey effort was collected, with 95.8% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) during the survey in October 2014. Among the two areas, 114.50 km and 183.72 km of survey effort were collected from NEL and NWL survey areas respectively. The total survey effort conducted on primary and secondary lines were 212.21 km and 86.01 km respectively. The survey efforts are summarized in *Appendix K*.

A total of ten (10) groups of thirty (30) Chinese White Dolphins were sighted during the two sets of monitoring surveys in October 2014. All sightings were made in NWL during the two sets of surveys in October 2014, while no dolphin was sighted at all in NEL in this month. All except two (2) sightings were made on primary lines during on-effort search, and none of the dolphin groups was associated with operating fishing vessel. The distribution of dolphin sightings 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 2014 are shown in *Tables 2.12* and *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 7 th /13 th	0.0	0.0
	Set 2: Oct 16 th /23 rd	0.0	0.0
NWL	Set 1: Oct 7 th /13 th	13.1	42.7
	Set 2: Oct 16 th /23 rd	0.0	0.0

Note: Dolphin Encounter Rates are deduced from the two sets of surveys (two surveys in each set) in October 2014 in Northeast (NEL) and Northwest Lantau (NWL)

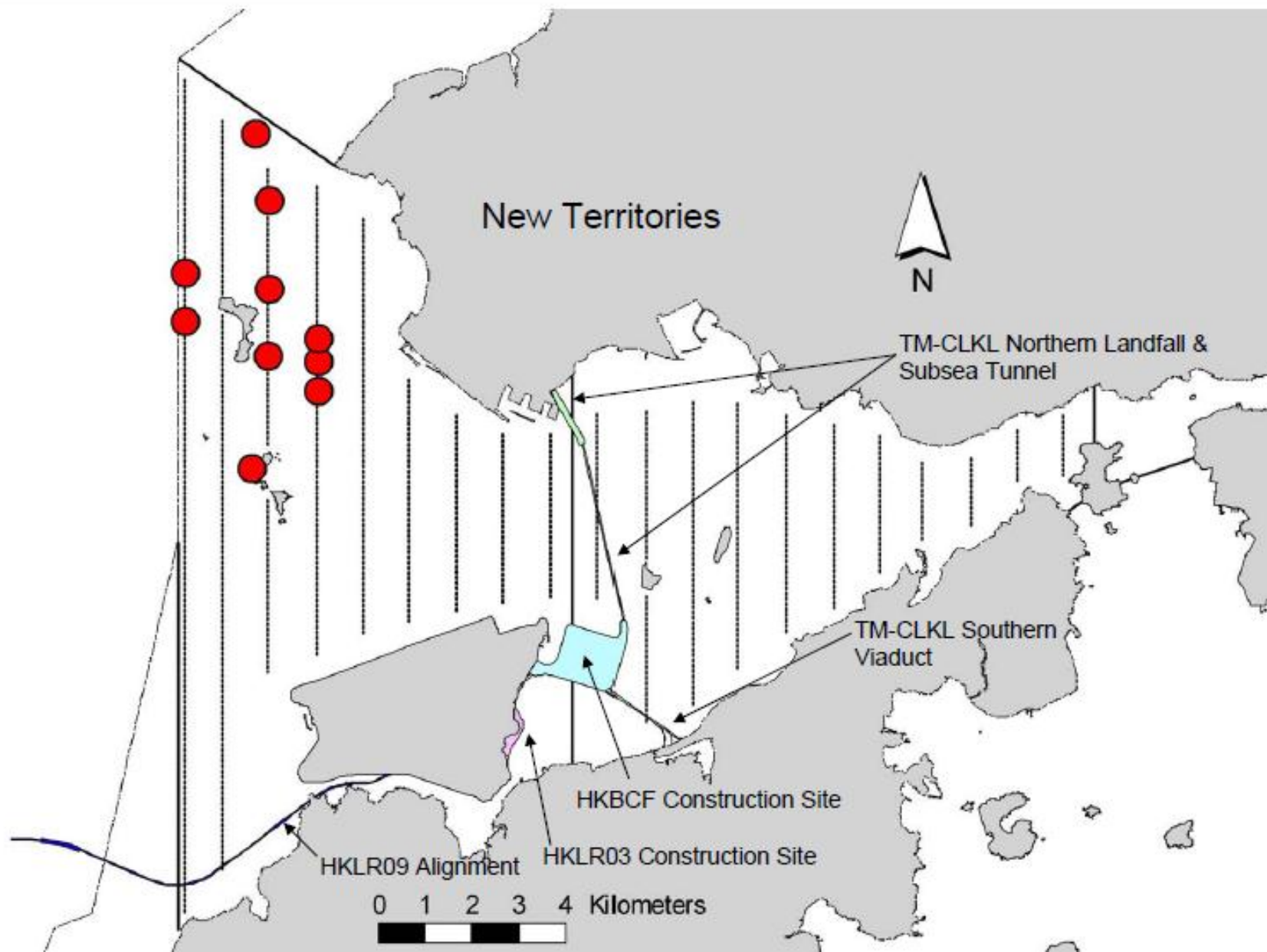


Figure 2.5

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 2014)

Date 7/11/2014

Environmental
 Resources
 Management



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	6.3	5.8	20.5	17.5

Note: Overall dolphin encounter rates (sightings per 100km of survey effort) from all four surveys are conducted in October 2014 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau

The average group size of Chinese White Dolphins in October 2014 was 3.0 individuals per group, which was lower than the ones in previous months of dolphin monitoring. Six (6) of the ten (10) dolphin groups were composed of one to three (1-3) animals, while only one slightly larger dolphin group with six (6) animals was sighted during the monitoring period. Detailed results of dolphin monitoring in this reporting month are presented in *Appendix K*.

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 marine works activities being undertaken. Passive Acoustic Monitoring (PAM) was also implemented for the detection of marine mammal when marine works were carried out outside the daylight hours under this Contract. No sighting of Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) were recorded in October 2014 during the exclusion zone monitoring.

2.5 CORAL MONITORING

The Fourth Quarterly Post-translocation Coral Monitoring was conducted on 23 October 2014 and the results will be detailed in the *Fourth Quarterly Post-Translocation Coral Monitoring Report*.

2.6

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 8, 16, 23 and 30 October 2014.

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
8 October 2014	<p>Seafront</p> <ul style="list-style-type: none"> Waste water was potentially discharged offsite. Chemical containers were not placed in drip tray. A drip tray for chemical container was unplugged. Refuse was found on the sea nearby pier. <p>Pier B3</p> <ul style="list-style-type: none"> Refuse was found in the sea. An air compressor was placed without decoupling pad. <p>Pier B1</p> <ul style="list-style-type: none"> Sediment was not labelled on barge. 	<p>Seafront</p> <ul style="list-style-type: none"> The contractor should avoid the discharge offsite. Drip tray should be provided to the chemical containers. The drip tray should be plugged. Refuse on sea should be cleaned up <p>Pier B3</p> <ul style="list-style-type: none"> Refuse in sea should be cleaned up Decoupling pad should be provided. <p>Pier B1</p> <ul style="list-style-type: none"> Category of sediment should be labelled.
16 October 2014	<p>Area 1</p> <ul style="list-style-type: none"> Chemical containers were not placed in drip tray. Waste was found disposed improperly onsite. The traffic road was partially unpaved or not covered. A welder was placed too closed to drainage. <p>Pak Mong</p> <ul style="list-style-type: none"> Refuse was found disposed improperly nearby Pier B12 and subway Waste water was potentially discharged to Tai Ho Stream. A drip tray for generator was found unplugged. 	<p>Area 1</p> <ul style="list-style-type: none"> The chemical containers were put into drip tray immediately. Waste should be disposed properly. The contractor should water or pave the unpaved traffic road. The welder should not be placed next to drainage. <p>Pak Mong</p> <ul style="list-style-type: none"> The contractor was reminded to clean up the refuse. The contractor should avoid waste water discharge to Tai Ho Stream. The drip tray should be plugged.
23 October 2014	<p>Pier B3</p> <ul style="list-style-type: none"> A chemical container was placed without drip tray. A generator on Gammon 39 emitted dark smoke. <p>Gammon 23</p> <ul style="list-style-type: none"> A generator was placed without decoupling pad. A chemical container was not placed in drip tray. <p>Pier B1</p> <ul style="list-style-type: none"> Stagnant water was found in a drip tray. 	<p>Pier B3</p> <ul style="list-style-type: none"> The chemical container was removed immediately. No dark smoke should be emitted from vessel for more than 3 minutes. <p>Gammon 23</p> <ul style="list-style-type: none"> Decoupling pad should be provided to the generator. The chemical container was put into drip tray immediately. <p>Pier B1</p> <ul style="list-style-type: none"> The contractor should clean up drip tray regularly..
30 October 2014	<p>Seafront</p> <ul style="list-style-type: none"> A rubbish bin was found full and refuse was found disposed improperly. A drip tray for generator was found unplugged. <p>Pak Mong</p> <ul style="list-style-type: none"> Refuse was found disposed improperly nearby drainage. An unpaved slope was not well covered. Trees at slope B/F8 were not fenced off properly. 	<p>Seafront</p> <ul style="list-style-type: none"> The contractor was reminded to clean up the refuse routinely. A stopper should be provided to the drip tray. <p>Pak Mong</p> <ul style="list-style-type: none"> The refuse should be disposed properly. The unpaved slope should be covered properly. The contractor was reminded to provide fencing to trees.

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

2.7 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), imported fill, recyclable materials and marine sediment. 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 2014	13,860	109	943	268,180	105	0	441	222

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.

2.8 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/B	28 Jan 2014	N/A	HyD	Tuen Mun- Chek Lap Kok Link
Construction Dust Notification	361571	5 Jul 2013	N/A	GCL	
Construction Dust Notification	362093	17 Jul 2013	N/A	GCL	For Area 23
Billing Account for Disposal	7017735	10 Jul 2013	End of Project	GCL	-
Chemical Waste Registration	5213-961-G2380-13	10 Oct 2013	N/A	GCL	Chemical waste produced in Contract 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 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 HY/2012/07 (WA5 adjacent to Cheung Tung Road, Yam O)
Construction Waste Disposal Account	7017735	10 Jul 2013	N/A	GCL	Waste disposal in Contract HY/2012/07
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	GW-RS0419-14	15 May 2014	13 Nov 2014	GCL	For loading & unloading on NLH near Viaducts A & B
Construction Noise Permit	GW-RS0792-14	31 Jul 2014	24 Dec 2014	GCL	Broad Permit for Works at Seafront & Marine Piers & Pier B9
Construction Noise Permit	GW-RS0700-14	21 Jul 2014	31 Dec 2014	GCL	For loading & unloading on NLH near Viaduct A & B
Dumping Permit/ Loading Permit (Type 1 – Open Sea Disposal)	(4) in EP/MD/14-075	25 Sep 2013	N/A	GCL	-
Chemical Waste Registration	5213-951-G2380-17	12 Jun 2014	N/A	GCL	Viaducts A, B, C, D & E
Construction Noise Permit for night works and works in general holidays	GW-RS0646-14	27 Jun 2014	26 Oct 2014	GCL	Broad Permit for Works at Seafront & Marine Piers & Pier B9
Construction Noise Permit for night works and works in general holidays	GW-RS0647-14	28 Jun 2014	26 Oct 2014	GCL	Pier C7 & D8 at CEDD Access Road
Construction Waste Disposal Account	7017735	10 Jul 2013	N/A	GCL	-

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
Construction Noise Permit	GW-RW0640-14	28 Aug 2014	27 Feb 2015	GCL	General works at WA5
Marine Dumping Permit	EP/MD/15-066	28 Jul 2014	27 Jan 2015	GCL	For dumping Type I sediment
Construction Noise Permit for night works and works in general holidays	GW-RS0942-14	11 Sep 2014	14 Mar 2015	GCL	For Plant mobilization using tractor
Construction Noise Permit for night works and works in general holidays	GW-RS1032-14	25 Sep 2014	28 Mar 2015	GCL	For Load unload at NLH near Viaduct D
Construction Noise Permit for night works and works in general holidays	GW-RS1129-14	17 Oct 2014	31 Dec 2014	GCL	For Safety Fences at Pier D9
Construction Noise Permit for night works and works in general holidays	GW-RS1130-14	20 Oct 2014	22 Apr 2015	GCL	For Plant mobilization using tractor
Construction Noise Permit for night works and works in general holidays	GW-RS1135-14	17 Oct 2014	15 Dec 2014	GCL	For TTA Case 60-2 Ch.1.3E-3.6E
Construction Noise Permit for night works and works in general holidays	GW-RS1188-14	30 Oct 2014	31 Dec 2014	GCL	For TTA Cases 50 Airport Road-5.3
Marine Dumping Permit	EP/MD/15-120	1 Oct 2014	31 Oct 2014	GCL	For dumping Type I (Dedicated Site) and Type II sediment

2.9 *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.

2.10 *SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT*

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

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

2.11 *SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS*

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

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

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

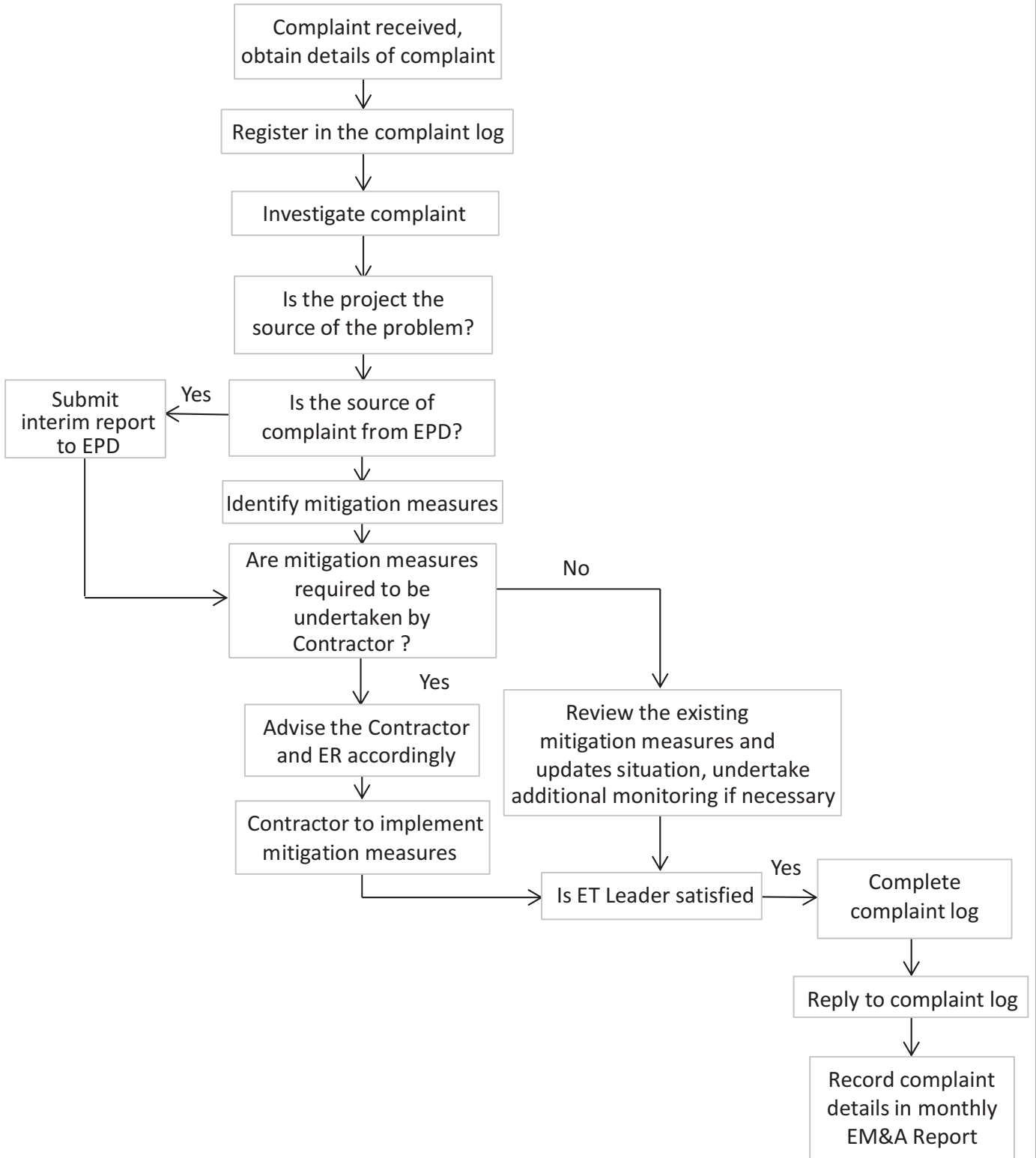


Figure 2.6

Environmental Complaint Handling Procedure

3 *FUTURE KEY ISSUES*

3.1 *CONSTRUCTION PROGRAMME FOR THE COMING MONTHS*

As informed by the Contractor, the major works for this Contract in November 2014 will be:

Marine Works

- Construction of Pile caps at Viaduct B;
- Marine piling platform installation for Viaducts A, B, C & D;
- Marine Piling at Viaducts B, C, D & E; and
- Additional marine ground investigation (GI) and laboratory testing.

Land-based Works

- Construction of pile cap superstructure of Viaduct B;
- Channel re-construction at Area 1;
- Land Piling at Viaducts B, C & D;
- Construction of pile cap at Viaducts B & D;
- Additional land GI, trial pits & lab testing;
- Utility surveys; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

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 2014 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 schedule for environmental monitoring in November 2014 is provided in *Appendix F*.

4.1 CONCLUSIONS

This Twelfth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 October 2014, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/B.

Air quality (including 1-hour TSP and 24-hour TSP), noise, water quality, post-translocation coral monitoring and dolphin monitoring were carried out in the reporting month. Results for water quality monitoring, 1-hr TSP, 24-hr TSP and noise monitoring complied with the Action and Limit levels in the reporting period.

A total of ten groups of thirty (30) Chinese White Dolphins were sighted during the two sets of monitoring surveys in October 2014. All sightings were made in NWL during the two sets of surveys in October 2014, while no dolphin was sighted at all in NEL in this month. All except two (2) sightings were made on primary lines during on-effort search, and none of the dolphin groups was associated with operating fishing vessel. 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 were noticeable from general observations.

Environmental site inspection was carried out four (4) times in October 2014. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

No environmental complaint, notification of summons or prosecution was received in the reporting month.

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



↔ Line of Communication

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	2014																			
												September					October					November					December				
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08	15			

HY/2012/07 - TM-CLK Link-SC [DWP rD1] - Status Update 21-09-2014

Contract Key Dates

Possession Dates / Access Period

POS02	Portion A (Commencement of Works+499 days)	0.00	03-Nov-14*	0%	0.00		03-Nov-14		0.00	0.00	0%
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IPS Milestones

Cost Centre IPS Milestones

CC 2 - Design and Design Checking of the Works

MS2.006	Accept construction traffic impact assessment by the Supervising Officer	0.00		100%	0.00	25-Aug-14 A					100%
MS2.008	Accept ground investigation reports by the Supervising Officer	0.00		0%	0.00	12-Dec-14		02-Apr-17	842.00	308.00	0%
MS2.014	Approve AIP for Structure F1, excl Structure F1 between Pier F1c and Pier F1d, by the S.O.	0.00		100%	0.00	01-Sep-14 A					100%
MS2.015	Submit DDA for Structure F1, excluding Structure F1 between Pier F1c and Pier F1d	0.00		0%	0.00	18-Nov-14		02-Apr-17	866.00	156.00	0%
MS2.018	Approve AIP for Structure F1 between Pier F1c and Pier F1d by the Supervising Officer	0.00		100%	0.00	01-Sep-14 A					100%
MS2.019	Submit DDA for Structure F1 between Pier F1c and Pier F1d	0.00		0%	0.00	18-Nov-14		02-Apr-17	866.00	156.00	0%
MS2.030	Approve AIP for Structure F3 betw Pier F3c and Pier F3d by Supervising Officer	0.00		100%	0.00	01-Sep-14 A					100%
MS2.031	Submit DDA for Structure F3 between Pier F3c and Pier F3d	0.00		0%	0.00	18-Nov-14		02-Apr-17	866.00	156.00	0%
MS2.038	Approve AIP for Structure F5, excl Structure F5 betw Pier F5c & Pier F5d, by S.O.	0.00		100%	0.00	01-Sep-14 A					100%
MS2.039	Submit DDA for Structure F5, excluding Structure F5 between Pier F5c and Pier F5d	0.00		0%	0.00	18-Nov-14		02-Apr-17	866.00	142.00	0%
MS2.042	Approve AIP for Structure F5 betw Pier F5c and Pier F5d by the Supervising Officer	0.00		100%	0.00	01-Sep-14 A					100%
MS2.043	Submit DDA for Structure F5 between Pier F5c and Pier F5d	0.00		0%	0.00	18-Nov-14		02-Apr-17	866.00	142.00	0%
MS2.052	Approve DDA for Structure E2 by the Supervising Officer	0.00		0%	0.00	17-Dec-14		02-Apr-17	837.00	303.00	0%
MS2.056	Approve DDA for Structure E5, excl Structure E5 betw Pier E5c & Pier E5d, by S.O.	0.00		0%	0.00	12-Dec-14		02-Apr-17	842.00	308.00	0%
MS2.060	Approve DDA for Structure E5 betw Pier E5c & Pier E5d by Supervising Officer	0.00		0%	0.00	12-Dec-14		02-Apr-17	842.00	308.00	0%
MS2.064	Approve DDA for Structure E6 by the Supervising Officer	0.00		0%	0.00	12-Dec-14		02-Apr-17	842.00	308.00	0%
MS2.068	Approve DDA for Structure E7 by the Supervising Officer	0.00		0%	0.00	12-Dec-14		02-Apr-17	842.00	308.00	0%
MS2.072	Approve DDA for Structure E8 by the Supervising Officer	0.00		0%	0.00	12-Dec-14		02-Apr-17	842.00	308.00	0%
MS2.074	Approve AIP for Structure A by the Supervising Officer	0.00		0%	0.00	28-Oct-14		02-Apr-17	887.00	162.00	0%
MS2.075	Submit DDA for Structure A	0.00		0%	0.00	17-Dec-14		02-Apr-17	837.00	112.00	0%
MS2.080	Approve DDA for Structure B by the Supervising Officer	0.00		0%	0.00	03-Oct-14		02-Apr-17	912.00	378.00	0%
MS2.083	Submit DDA for Structure C	0.00		0%	0.00	29-Oct-14		02-Apr-17	886.00	120.00	0%
MS2.087	Submit DDA for Structure D	0.00		100%	0.00	01-Sep-14 A					100%
MS2.090	Approve AIP for At grade Roadworks and Other Works along NLH by the S.O.	0.00		100%	0.00	27-Aug-14 A					100%
MS2.091	Submit DDA for At grade Roadworks and Other Works along NLH	0.00		0%	0.00	17-Oct-14		02-Apr-17	898.00	105.00	0%
MS2.094	Approve AIP for At grade Roadworks & Other Works along Cheung Tung Road by S.O.	0.00		100%	0.00	27-Aug-14 A					100%
MS2.095	Submit DDA for At grade Roadworks and Other Works along Cheung Tung Road	0.00		0%	0.00	17-Oct-14		02-Apr-17	898.00	105.00	0%
MS2.097	Submit AIP for At grade Roadworks and Other Works at Southern Landfall	0.00		0%	0.00	21-Sep-14		02-Apr-17	924.00	0.00	0%
MS2.098	Approve AIP for At grade Roadwrks & Other Wrks at Southern Landfall by S.O.	0.00		0%	0.00	21-Sep-14		02-Apr-17	924.00	82.00	0%
MS2.099	Submit DDA for At grade Roadworks and Other Works at Southern Landfall	0.00		0%	0.00	21-Sep-14		02-Apr-17	924.00	82.00	0%
MS2.100	Approve DDA for At grade Roadwrks & Other Wrks at Southern Landfall by S.O.	0.00		0%	0.00	12-Dec-14		02-Apr-17	842.00	308.00	0%
MS2.102	Approve AIP for Watermains & All Assoc Wrks frm Tung Chung to South Landfall by S.O.	0.00		100%	0.00	27-Aug-14 A					100%
MS2.104	Approve DDA for Watermains & All Assoc Wrks frm Tung Chung to South Landfall by S.O.	0.00		0%	0.00	12-Dec-14		02-Apr-17	842.00	308.00	0%
MS2.107	Submit DDA for Irrigation System for Soft Landscape Works	0.00		0%	0.00	06-Nov-14		02-Apr-17	878.00	105.00	0%
MS2.108-3	Submit DDA for Fac Prov for TCSS Wrks for At grade Rds at Southern Landfall	0.00		0%	0.00	24-Sep-14		02-Apr-17	921.00	105.00	0%
MS2.111	Submit DDA for Facilities Provision for TCSS Works for Viaducts	0.00		0%	0.00	24-Sep-14		02-Apr-17	921.00	105.00	0%
MS2.115	Submit DDA for Fac Prov for TCSS Wrks for At grade Rds along NLH	0.00		0%	0.00	24-Sep-14		21-Mar-17	909.00	105.00	0%
MS2.120	Approve DDA for Facilities Provision for E&M Works by the Supervising Officer	0.00		0%	0.00	31-Oct-14		02-Apr-17	884.00	350.00	0%
MS2.121	Submit AIP for remaining works	0.00		0%	0.00	31-Oct-14		02-Apr-17	884.00	56.00	0%

CC 4.1 - Structure E2 and All Associated Works

MS4.1.10	Complete piles of 50% of total pile length for Structure E2	0.00		100%	0.00	21-Aug-14 A					100%
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■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

Project ID: J3518DWP rD1-M16
 Layout: J3518-DWP-3MRP Submission - M16
 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 1 of 35 Pages)
(Progress as of 21-Sep-14)

Date	Revision	Checked	Approved
29-Jul-14		FZ	
29-Aug-14		FZ	
07-Oct-14			

DWG. No.:
J3518/GCL/PGM/3MRP-M16

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	2014																			
												September					October					November					December				
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08	15			
General Viaduct Submission																															
ARDD0078	IC/SO Approval of Viaduct E&M Works DDA BP21.01	75.00	17-Jun-14 A	60%	30.00	31-Oct-14	17-Jun-15	28-Jul-15	192.00	0.00	60%	[Gantt bar: 17-Jun-15 to 28-Jul-15]																			
ARDD0078-1	IC/SO Approval of Viaduct E&M Works DDA BP21.01	0.00		0%	0.00	31-Oct-14		28-Jul-15	192.00	115.00	0%	[Milestone: 28-Jul-15]																			
Viaduct B																															
Viaduct Design																															
ARDD0099-1	Viaduct B - Earliest IC Certificate for DP12.03	0.00		0%	0.00	22-Sep-14		31-Jul-14	-36.00	10.00	0%	[Milestone: 22-Sep-14]																			
ARDD0099-3	Viaduct B - IC/SO Approval of Sub & Superstructure DDA - DP12.03	75.00	04-Mar-14 A	96%	3.00	03-Oct-14	29-Jul-14	31-Jul-14	-46.00	0.00	60%	[Gantt bar: 29-Jul-14 to 31-Jul-14]																			
ARDD0099-5	Viaduct B - IC/SO Approval of Sub & Superstructure DDA - DP12.03	0.00		0%	0.00	03-Oct-14		31-Jul-14	-46.00	0.00	0%	[Milestone: 03-Oct-14]																			
Associated Construction Milestones																															
ARDD0129	Viaduct B - DDA approval ready for Initial Segment Casting	0.00	16-Sep-14 A	100%	0.00						100%	[Milestone: 16-Sep-14]																			
Viaduct E5 and E6																															
Viaduct Design																															
ARDD0150-1	Viaduct E5 & E6 - Earliest IC certificate for DDA for Viaduct E5 & E6 - DP15.09	0.00		0%	0.00	22-Sep-14		22-May-14	-86.00	30.00	0%	[Milestone: 22-Sep-14]																			
ARDD0150-3	Viaduct E5 & E6 - IC/SO Approval of Pile Cap Precast Shells DDA DP15.05	75.00	15-Apr-14 A	40%	45.00	21-Nov-14	02-May-14	03-Jul-14	101.00	0.00	40%	[Gantt bar: 02-May-14 to 03-Jul-14]																			
ARDD0150-4	Viaduct E5 & E6 - IC/SO Approval (late) of Sub & Superstructure DDA DP15.09	75.00	09-Jul-14 A	20%	60.00	12-Dec-14	11-Apr-14	03-Jul-14	-116.00	0.00	20%	[Gantt bar: 11-Apr-14 to 03-Jul-14]																			
ARDD0150-6	Viaduct E5 & E6 - IC/SO Approval of Pile Cap Precast Shells DDA DP15.05	0.00		0%	0.00	21-Nov-14		03-Jul-14	101.00	15.00	0%	[Milestone: 21-Nov-14]																			
ARDD0150-8	Viaduct E5 & E6 - IC/SO Approval (late) of Sub & Superstructure DDA DP15.09	0.00		0%	0.00	12-Dec-14		03-Jul-14	-116.00	0.00	0%	[Milestone: 12-Dec-14]																			
Associated Construction Milestones																															
ARDD0175	Viaduct E5 & E6 - DDA approval ready for Initial Segment Casting	0.00	13-Dec-14	0%	0.00		09-Sep-14		-95.00	40.00	0%	[Milestone: 13-Dec-14]																			
Viaduct E7 & E8																															
Viaduct Design																															
ARDD0195-1	Viaduct E7 & E8 - Earliest IC certificate for Pilecap Precast Shells DDA - DP15.08	0.00		0%	0.00	22-Sep-14		06-May-14	-98.00	18.00	0%	[Milestone: 22-Sep-14]																			
ARDD0195-3	Viaduct E7 & E8 - IC/SO Approval of Pilecap Precast Shells DDA - DP15.08	75.00	15-Apr-14 A	40%	45.00	21-Nov-14	02-May-14	03-Jul-14	101.00	0.00	40%	[Gantt bar: 02-May-14 to 03-Jul-14]																			
ARDD0195-4	Viaduct E7 & E8 - IC/SO Approval of Sub & Superstructure DDA - DP15.09	75.00	09-Jul-14 A	20%	60.00	12-Dec-14	11-Apr-14	03-Jul-14	-116.00	0.00	20%	[Gantt bar: 11-Apr-14 to 03-Jul-14]																			
ARDD0195-5	Viaduct E7 & E8 - IC/SO Approval of Sub & Superstructure DDA - DP15.09	0.00		0%	0.00	12-Dec-14		03-Jul-14	-116.00	0.00	0%	[Milestone: 12-Dec-14]																			
ARDD0195-6	Viaduct E7 & E8 - IC/SO Approval of Pilecap Precast Shells DDA - DP15.08	0.00		0%	0.00	21-Nov-14		03-Jul-14	101.00	15.00	0%	[Milestone: 21-Nov-14]																			
Associated Construction Milestones																															
ARDD0220	Viaduct E7 & E8 - DDA approval ready for Initial Segment Casting	0.00	13-Dec-14	0%	0.00		10-Sep-14		-94.00	41.00	0%	[Milestone: 13-Dec-14]																			
Viaduct E2																															
Viaduct Design																															
ARDD0241-1	Viaduct E2 - Earliest IC certificate for Pilecap Precast Shells DDA - DP15.05	0.00		0%	0.00	22-Sep-14		17-Jun-14	-68.00	21.00	0%	[Milestone: 22-Sep-14]																			
ARDD0241-3	Viaduct E2 - IC/SO Approval (Late) of Sub & Superstructure DDA - DP15.06	75.00	04-Jul-14 A	20%	60.00	17-Dec-14	23-May-14	14-Aug-14	-89.00	0.00	20%	[Gantt bar: 23-May-14 to 14-Aug-14]																			
ARDD0241-4	Viaduct E2 - IC/SO Approval Pilecap Precast Shells DDA - DP15.05	75.00	15-Apr-14 A	90.67%	7.00	30-Sep-14	15-May-14	23-May-14	-92.00	0.00	90%	[Gantt bar: 15-May-14 to 23-May-14]																			
ARDD0241-5	Viaduct E2 - IC/SO Approval Pilecap Precast Shells DDA - DP15.05	0.00		0%	0.00	30-Sep-14		23-May-14	-92.00	0.00	0%	[Milestone: 30-Sep-14]																			
ARDD0241-6	Viaduct E2 - IC/SO Approval (Late) of Sub & Superstructure DDA - DP15.06	0.00		0%	0.00	17-Dec-14		14-Aug-14	-89.00	0.00	0%	[Milestone: 17-Dec-14]																			
Associated Construction Milestones																															
ARDD0265	Viaduct E2 - DDA approval ready for Commencement of Pilecaps	0.00	14-Dec-14	0%	0.00		31-Jul-14		135.13	1.00	0%	[Milestone: 14-Dec-14]																			
ARDD0266	Viaduct E2 - DDA approval ready for Initial Segment Casting	0.00	18-Dec-14	0%	0.00		15-Aug-14		125.00	35.00	0%	[Milestone: 18-Dec-14]																			
ARDD0266-1	Viaduct E2 - DDA approval ready for Pile Cap Shell Casting	0.00	01-Oct-14	0%	0.00		25-May-14		128.13	0.00	0%	[Milestone: 01-Oct-14]																			
Viaduct E1																															
Viaduct Design																															
ARDD0287-1	Viaduct E1 - Earliest IC Certificate for DDA - DP15.02	0.00		0%	0.00	22-Sep-14		05-Aug-14	-33.00	10.00	0%	[Milestone: 22-Sep-14]																			
ARDD0287-3	Viaduct E1 - IC/SO Approval (Late) of Sub & Superstructure DDA DP15.03	75.00	30-Jul-14 A	20%	60.00	26-Dec-14	06-Aug-14	28-Oct-14	-43.00	0.00	20%	[Gantt bar: 06-Aug-14 to 28-Oct-14]																			
ARDD0287-5	Viaduct E1 - IC/SO Approval of Pilecap Precast Shells DDA DP15.02	75.00	20-May-14 A	60%	30.00	31-Oct-14	17-Jun-14	28-Jul-14	-69.00	0.00	60%	[Gantt bar: 17-Jun-14 to 28-Jul-14]																			
ARDD0287-6	Viaduct E1 - IC/SO Approval of Pilecap Precast Shells DDA DP15.02	0.00		0%	0.00	31-Oct-14		28-Jul-14	-69.00	0.00	0%	[Milestone: 31-Oct-14]																			
Associated Construction Milestones																															
ARDD0311	Viaduct E1 - DDA approval ready for Commencement of Pilecaps	0.00	01-Nov-14	0%	0.00		30-Aug-14		-62.88	13.00	0%	[Milestone: 01-Nov-14]																			
Viaduct D																															

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

Project ID: J3518DWPPrD1-M16
 Layout: J3518-DWP-3MRP Submission - M16
 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 5 of 35 Pages)
(Progress as of 21-Sep-14)

Date	Revision	Checked	Approved
29-Jul-14		FZ	
29-Aug-14		FZ	
07-Oct-14			

DWG. No.:
J3518/GCL/PGM/3MRP-M16

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	2014															
												September				October				November				December			
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08
ARDD0425	Viaduct A - IC/SO Approval of Viaduct AIP - DP11.00	68.00	19-Jul-14 A	60.29%	27.00	28-Oct-14	11-Sep-14	17-Oct-14	-7.00	0.00	60%																
ARDD0425-1	Viaduct A - IC/SO Approval of Viaduct AIP - DP11.00	0.00		0%	0.00	28-Oct-14		17-Oct-14	-7.00	0.00	0%																
ARDD0428	Viaduct A - Final Pile Loads and Global Analysis	15.00	18-Jul-14 A	100%	0.00	28-Aug-14 A					100%																
ARDD0429	Viaduct A - Foundation DDA - DP11.01	45.00	18-Jul-14 A	84.44%	7.00	30-Sep-14	09-Dec-14	17-Dec-14	56.00	0.00	85%																
ARDD0430-1	Viaduct A - Earliest IC Certificate for Foundation DDA DP11.01	0.00		0%	0.00	28-Oct-14		04-Mar-15	91.00	35.00	0%																
ARDD0430-2	Viaduct A - IC/SO Approval of Foundation DDA - DP11.01	55.00	01-Oct-14	0%	55.00	16-Dec-14	18-Dec-14	04-Mar-15	56.00	0.00	0%																
ARDD0430-4	Viaduct A - IC/SO Approval of Foundation DDA - DP11.01	0.00		0%	0.00	16-Dec-14		04-Mar-15	56.00	0.00	0%																
ARDD0431	Viaduct A - Preparation of Pilecap Precast Shells DDA - DP11.02	40.00	19-Sep-14 A	90%	4.00	28-Oct-14	14-Oct-14	17-Oct-14	-7.00	0.00	90%																
ARDD0432	Viaduct A - Preparation of Substructure DDA - DP11.03	50.00	19-Sep-14 A	10%	45.00	21-Nov-14	30-Oct-14	31-Dec-14	28.00	0.00	10%																
ARDD0433	Viaduct A - Preparation of Superstructure DDA-DP11.03	70.00	19-Sep-14 A	10%	63.00	17-Dec-14	23-Jul-14	17-Oct-14	-43.00	0.00	10%																
ARDD0434-1	Viaduct A - Submission of DDA - DP11.02	0.00		0%	0.00	21-Nov-14		04-Mar-15	73.00	17.00	0%																
ARDD0434-2	Viaduct A - Submission of DDA - DP11.03	0.00		0%	0.00	17-Dec-14		17-Oct-14	-43.00	0.00	0%																
ARDD0435-2	Viaduct A - IC/SO Approval of DDA DP11.02	75.00	17-Dec-14	0%	75.00	31-Mar-15	05-Mar-15	17-Jun-15	56.00	0.00	0%																
Information to Contractor																											
ARDD0439	Viaduct A - Typical Pile Reinforcement - Stainless Rebar	0.00	22-Sep-14	0%	0.00		08-Jan-15		78.00	0.00	0%																
ARDD0440	Viaduct A - Final Pile Reinforcement and Socket H Pile Details	0.00		0%	0.00	23-Oct-14		10-Feb-15	78.00	0.00	0%																
ARDD0441	Viaduct A - Precast Pilecap Shell Shape and Reinforcement	0.00		0%	0.00	28-Oct-14		28-Jan-15	66.00	38.00	0%																
ARDD0443	Viaduct A - Typical Pilecap Reinforcement - Stainless Steel Rebar	0.00	23-Oct-14	0%	0.00		01-Jan-15		50.00	22.00	0%																
ARDD0444	Viaduct A - Typical Pilecap Reinforcement - Regular Rebar	0.00		0%	0.00	16-Oct-14		31-Dec-14	54.00	26.00	0%																
ARDD0445	Viaduct A - Final Pilecap Reinforcement	0.00		0%	0.00	21-Nov-14		31-Dec-14	28.00	0.00	0%																
ARDD0447	Viaduct A - Final Pier Shapes and Reinforcement	0.00		0%	0.00	21-Nov-14		21-May-15	129.00	11.00	0%																
ARDD0448	Viaduct A - Typical Segment Shapes for Moulds	0.00		0%	0.00	16-Oct-14		28-May-15	160.00	0.00	0%																
ARDD0449	Viaduct A - Typical Segment Reinforcement	0.00		0%	0.00	13-Nov-14		28-May-15	140.00	24.00	0%																
ARDD0450	Viaduct A - Final Segment Types and Reinforcement	0.00		0%	0.00	17-Dec-14		09-Jul-15	146.00	30.00	0%																
ARDD0451	Viaduct A - Typical Anchorage and Tendon Types	0.00		0%	0.00	17-Dec-14		28-May-15	116.00	0.00	0%																
ARDD0452	Viaduct A - Final Anchorage and PT Requirements	0.00		0%	0.00	17-Dec-14		09-Jul-15	146.00	30.00	0%																
ARDD0453	Viaduct A - Provisional Bearing Schedule	0.00		0%	0.00	17-Dec-14		17-Oct-14	-43.00	0.00	0%																
ARDD0454	Viaduct A - Final Bearing Schedule	0.00		0%	0.00	17-Dec-14		06-Jul-15	143.00	50.00	0%																
ARDD0455	Viaduct A - Provisional Movement Joint (MJ) Schedule	0.00		0%	0.00	17-Dec-14		15-Jan-15	21.00	0.00	0%																
ARDD0456	Viaduct A - Final Movement Joint (MJ) Schedule	0.00		0%	0.00	17-Dec-14		15-Jan-15	21.00	0.00	0%																
Viaduct F1 & F3																											
Viaduct Design																											
ARDD0476	Viaduct F1 & F3 - IC/SO Approval of Viaduct AIP - DP16.00	68.00	03-Jun-14 A	100%	0.00	01-Sep-14 A					100%																
ARDD0476-1	Viaduct F1 & F3 - IC/SO Approval of Viaduct AIP - DP16.00	0.00		100%	0.00	01-Sep-14 A					100%																
ARDD0477	Viaduct F1 & F3 - Receipt of Data for Final Analysis	0.00		0%	0.00	22-Sep-14		29-Aug-18	028.00	1028.00	0%																
ARDD0481	Viaduct F1 & F3 - IC/SO Approval of Foundation DDA - DP16.01	75.00	16-Aug-14 A	20%	60.00	12-Dec-14	28-Aug-14	19-Nov-14	-17.00	0.00	20%																
ARDD0481-1	Viaduct F1 & F3 - Earliest IC Certificate for DDA - DP16.01 DP16.07	0.00		0%	0.00	26-Sep-14		19-Nov-14	38.00	55.00	0%																
ARDD0481-2	Viaduct F1 & F3 - IC/SO Approval of Foundation DDA - DP16.07	75.00	16-Aug-14 A	20%	60.00	12-Dec-14	28-Aug-14	19-Nov-14	-17.00	0.00	20%																
ARDD0481-3	Viaduct F1 & F3 - IC/SO Approval of Foundation DDA - DP16.07	0.00		0%	0.00	12-Dec-14		19-Nov-14	-17.00	0.00	0%																
ARDD0481-4	Viaduct F1 & F3 - IC/SO Approval of Foundation DDA - DP16.01	0.00		0%	0.00	12-Dec-14		19-Nov-14	-17.00	0.00	0%																
ARDD0482	Viaduct F1 & F3 - Preparation of Substructure DDA - DP16.02	50.00	15-Aug-14 A	40%	30.00	31-Oct-14	08-Sep-14	17-Oct-14	-10.00	0.00	40%																
ARDD0482-2	Viaduct F1 & F3 - Preparation of Substructure DDA - DP16.08	50.00	15-Aug-14 A	40%	30.00	31-Oct-14	08-Sep-14	17-Oct-14	-10.00	0.00	40%																
ARDD0483	Viaduct F1 & F3 - Preparation of Superstructure DDA - DP16.03	70.00	15-Aug-14 A	40%	42.00	18-Nov-14	21-Aug-14	17-Oct-14	-22.00	0.00	40%																
ARDD0483-2	Viaduct F1 & F3 - Preparation of Superstructure DDA - DP16.09	70.00	15-Aug-14 A	40%	42.00	18-Nov-14	21-Aug-14	17-Oct-14	-22.00	0.00	40%																
ARDD0484-1	Viaduct F1 & F3 - Submission of DDA - DP16.02	0.00		0%	0.00	31-Oct-14		17-Oct-14	-10.00	9.00	0%																
ARDD0484-2	Viaduct F1 & F3 - Submission of DDA - DP16.03	0.00		0%	0.00	18-Nov-14		17-Oct-14	-22.00	0.00	0%																
ARDD0484-3	Viaduct F1 & F3 - Submission of DDA - DP16.08	0.00		0%	0.00	31-Oct-14		17-Oct-14	-10.00	9.00	0%																
ARDD0484-4	Viaduct F1 & F3 - Submission of DDA - DP16.09	0.00		0%	0.00	18-Nov-14		17-Oct-14	-22.00	0.00	0%																

Actual Work
 Planned Bar
 Critical Bar
 Milestone

Project ID: J3518DWPPrD1-M16
 Layout: J3518-DWP-3MRP Submission - M16
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Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 7 of 35 Pages)
(Progress as of 21-Sep-14)

Date	Revision	Checked	Approved
29-Jul-14		FZ	
29-Aug-14		FZ	
07-Oct-14			

DWG. No.:
J3518/GCL/PGM/3MRP-M16

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	2014																
												September				October				November				December				
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08	15
ARDD0811	IC/SO Approval of CTIA - AP05.00	75.00	25-Feb-14 A	100%	0.00	25-Aug-14 A					100%	[Gantt bar: 25-Feb-14 to 25-Aug-14]																
ARDD0816	IC/SO Approval of CTIA - AP05.00	0.00		100%	0.00	25-Aug-14 A					100%	[Gantt bar: 25-Aug-14 to 25-Aug-14]																
Other Design																												
Marine Permanent Navigation Aids																												
BMT0135	Preparation of MPNA DDA - BP36.01	46.00	11-Jun-14 A	10.87%	41.00	17-Nov-14	20-Feb-15	17-Apr-15	109.00	0.00	10%	[Gantt bar: 11-Jun-14 to 17-Nov-14]																
BMT0140	IC/SO Approval of MPNA DDA BP36.01	75.00	18-Nov-14	0%	75.00	02-Mar-15	20-Apr-15	31-Jul-15	109.00	0.00	0%	[Gantt bar: 18-Nov-14 to 31-Jul-15]																
Major Procurement																												
Marine Permanent Navigaion Aids																												
PR65011	Design & Approvals for Marine Navigation Aids	150.00	16-Dec-13 A	52%	72.00	02-Mar-15	06-May-15	31-Jul-15	122.00	0.00	52%	[Gantt bar: 16-Dec-13 to 31-Jul-15]																
Tower Cranes																												
PR66010	Procure Tower Crane Supplier	96.00	23-Jun-14 A	79.17%	20.00	16-Oct-14	06-Sep-14	30-Sep-14	-12.00	0.00	0%	[Gantt bar: 23-Jun-14 to 30-Sep-14]																
PR66011	Procure & Deliver Tower Cranes	325.00	17-Oct-14	0%	325.00	19-Nov-15	03-Oct-14	05-Nov-15	-12.00	1.00	0%	[Gantt bar: 17-Oct-14 to 05-Nov-15]																
PR66012	Erect & Commission Tower Crane @ E3	24.00	18-Oct-14	0%	24.00	14-Nov-14	18-Dec-14	17-Jan-15	52.00	116.00	0%	[Gantt bar: 18-Oct-14 to 17-Jan-15]																
PR66013	Erect & Commission Tower Crane @ E4	24.00	18-Oct-14	0%	24.00	14-Nov-14	03-Oct-14	01-Nov-14	-11.00	89.00	0%	[Gantt bar: 18-Oct-14 to 01-Nov-14]																
PR66018	Erect & Commission Tower Crane @ E9	24.00	29-Oct-14	0%	24.00	25-Nov-14	10-Jun-15	27-Jul-15	166.00	82.00	0%	[Gantt bar: 29-Oct-14 to 27-Jul-15]																
PR66019	Erect & Commission Tower Crane @ E10	24.00	10-Nov-14	0%	24.00	06-Dec-14	16-Jan-15	12-Feb-15	55.00	70.00	0%	[Gantt bar: 10-Nov-14 to 12-Feb-15]																
PR66020	Erect & Commission Tower Crane @ E11	24.00	16-Dec-14	0%	24.00	15-Jan-15	17-Nov-14	13-Dec-14	-25.00	122.00	0%	[Gantt bar: 16-Dec-14 to 13-Dec-14]																
Equipment Platforms for Tower Cranes																												
PR66025	Inst.Temp.Eqpt.Platform (piles & deck) @ E3	18.00	22-Sep-14	0%	18.00	17-Oct-14	27-Nov-14	17-Dec-14	52.00	0.00	0%	[Gantt bar: 22-Sep-14 to 17-Dec-14]																
PR66026	Inst.Temp.Eqpt.Platform (piles & deck) @ E4	18.00	22-Sep-14	0%	18.00	17-Oct-14	05-Sep-14	30-Sep-14	-11.00	0.00	0%	[Gantt bar: 22-Sep-14 to 30-Sep-14]																
PR66031	Inst.Temp.Eqpt.Platform (piles & deck) @ E9	18.00	06-Oct-14	0%	18.00	28-Oct-14	11-May-15	08-Jun-15	166.00	0.00	0%	[Gantt bar: 06-Oct-14 to 08-Jun-15]																
PR66032	Inst.Temp.Eqpt.Platform (piles & deck) @ E10	18.00	20-Oct-14	0%	18.00	08-Nov-14	23-Dec-14	15-Jan-15	55.00	0.00	0%	[Gantt bar: 20-Oct-14 to 15-Jan-15]																
PR66033	Inst.Temp.Eqpt.Platform (piles & deck) @ E11	18.00	25-Nov-14	0%	18.00	15-Dec-14	27-Oct-14	15-Nov-14	-25.00	0.00	0%	[Gantt bar: 25-Nov-14 to 15-Nov-14]																
Deck Segment Installation Equipment																												
Launching Gantry 1																												
PR67040	Launching Gantry Design	95.00	05-Feb-14 A	94.74%	5.00	26-Sep-14	08-Nov-14	13-Nov-14	39.00	31.00	95%	[Gantt bar: 05-Feb-14 to 13-Nov-14]																
PR67041	Launching Gantry 1 Fabrication	95.00	15-May-14 A	94.74%	5.00	26-Sep-14	24-Aug-18	29-Aug-18	161.00	1161.00	95%	[Gantt bar: 15-May-14 to 29-Aug-18]																
PR67042	Launching Gantry 1 Delivery	20.00	28-Aug-14 A	30%	14.00	09-Oct-14	13-Sep-14	29-Sep-14	-7.00	79.00	30%	[Gantt bar: 28-Aug-14 to 29-Sep-14]																
Launching Gantry 2																												
PR67043	Launching Gantry 2 Fabrication	105.00	16-Jun-14 A	20%	84.00	02-Jan-15	03-Oct-14	12-Jan-15	8.00	56.00	20%	[Gantt bar: 16-Jun-14 to 12-Jan-15]																
Lifting Frames																												
Lifting Frames 1 & 2																												
PR68011	Lifting Frame 1&2 Design	70.00	02-Jun-14 A	50%	35.00	03-Nov-14	13-Aug-14	23-Sep-14	-33.00	0.00	50%	[Gantt bar: 02-Jun-14 to 23-Sep-14]																
PR68012	Lifting Frame 1&2 Approval	60.00	27-Sep-14	0%	60.00	08-Dec-14	05-Sep-14	17-Nov-14	-18.00	15.00	0%	[Gantt bar: 27-Sep-14 to 17-Nov-14]																
PR68013	Lifting Frame 1&2 Fabrication	140.00	22-Sep-14	0%	140.00	12-Mar-15	13-Aug-14	29-Jan-15	-33.00	0.00	0%	[Gantt bar: 22-Sep-14 to 29-Jan-15]																
Lifting Frames 3 & 4																												
PR68015	Lifting Frame 3&4 Design	70.00	02-Jun-14 A	60%	28.00	25-Oct-14	26-Jul-14	27-Aug-14	-48.00	2.00	60%	[Gantt bar: 02-Jun-14 to 27-Aug-14]																
PR68016	Lifting Frame 3&4 Approval	60.00	22-Sep-14	0%	60.00	02-Dec-14	19-Aug-14	30-Oct-14	-28.00	20.00	0%	[Gantt bar: 22-Sep-14 to 30-Oct-14]																
PR68017	Lifting Frame 3&4 Fabrication	140.00	22-Sep-14	0%	140.00	12-Mar-15	26-Jul-14	12-Jan-15	-48.00	0.00	0%	[Gantt bar: 22-Sep-14 to 12-Jan-15]																
Lifting Frames 5 & 6																												
PR68019	Lifting Frame 5&6 Design	70.00	22-Sep-14	0%	70.00	13-Dec-14	08-Nov-14	31-Jan-15	39.00	0.00	0%	[Gantt bar: 22-Sep-14 to 31-Jan-15]																
PR68020	Lifting Frame 5&6 Approval	60.00	03-Dec-14	0%	60.00	13-Feb-15	13-Feb-15	02-May-15	59.00	20.00	0%	[Gantt bar: 03-Dec-14 to 02-May-15]																
PR68021	Lifting Frame 5&6 Fabrication	140.00	03-Dec-14	0%	140.00	28-May-15	21-Jan-15	15-Jul-15	39.00	0.00	0%	[Gantt bar: 03-Dec-14 to 15-Jul-15]																
Unloading Frames																												
Type 1																												
PR69100	Unloading Frame Type 1 Design	50.00	05-May-14 A	40%	30.00	28-Oct-14	10-Oct-14	13-Nov-14	14.00	17.00	40%	[Gantt bar: 05-May-14 to 13-Nov-14]																
PR69110	Unloading Frame Type 1 Fabrication	95.00	22-Sep-14	0%	95.00	15-Jan-15	10-Oct-14	31-Jan-15	14.00	0.00	0%	[Gantt bar: 22-Sep-14 to 31-Jan-15]																
Type 2																												

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

Project ID: J3518DWPPrD1-M16
 Layout: J3518-DWP-3MRP Submission - M16
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Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 12 of 35 Pages)
(Progress as of 21-Sep-14)

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29-Jul-14		FZ	
29-Aug-14		FZ	
07-Oct-14			

DWG. No.:
J3518/GCL/PGM/3MRP-M16

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	2014															
												September				October				November				December			
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08
PR69170	Unloading Frame Type 2 Design	50.00	05-May-14 A	40%	30.00	28-Oct-14	18-May-15	23-Jun-15	191.00	17.00	40%	[Gantt Bar]															
PR69180	Unloading Frame Type 2 Fabrication	95.00	22-Sep-14	0%	95.00	15-Jan-15	18-May-15	08-Sep-15	191.00	0.00	0%	[Gantt Bar]															
Type 3																											
PR69230	Unloading Frame Type 3 (Lantau) Fabrication	95.00	16-Jun-14 A	75.79%	23.00	20-Oct-14	18-Jul-14	13-Aug-14	-55.00	0.00	75%	[Gantt Bar]															
PR69240	Unloading Frame Type 3 Delivery	24.00	21-Oct-14	0%	24.00	17-Nov-14	14-Aug-14	11-Sep-14	-55.00	0.00	0%	[Gantt Bar]															
Type 4																											
PR69250	Unloading Frame Type 4 Design	50.00	05-May-14 A	40%	30.00	28-Oct-14	29-Oct-14	02-Dec-14	30.00	17.00	40%	[Gantt Bar]															
PR69260	Unloading Frame Type 4 (BCF) Fabrication	95.00	22-Sep-14	0%	95.00	15-Jan-15	29-Oct-14	23-Feb-15	30.00	0.00	0%	[Gantt Bar]															
Deck Segments & Precast Pile Cap Shells																											
Preliminaries																											
MBBE0012	Precast Segment Mould Design (Viaduct B)	42.00	15-Oct-13 A	90.48%	4.00	25-Sep-14	04-Jun-14	07-Jun-14	-92.00	6.00	90%	[Gantt Bar]															
MBBE0014	Precast Segment Mould Fabrication & Assembly (Viaduct B)	52.00	04-Mar-14 A	80.77%	10.00	04-Oct-14	27-May-14	07-Jun-14	-98.00	0.00	80%	[Gantt Bar]															
MBBE0016	Trial Precast Segments (in pair) and Approval	45.00	06-Oct-14	0%	45.00	26-Nov-14	09-Jun-14	31-Jul-14	-98.00	0.00	0%	[Gantt Bar]															
MBBE0018	Precast Segment Mould Design (Viaduct E5, E6, E7 & E8)	42.00	15-Oct-13 A	59.52%	17.00	13-Oct-14	19-Jun-14	09-Jul-14	-79.00	0.00	60%	[Gantt Bar]															
MBBE0020	Precast Segment Mould Fabrication & Assembly (Viaduct E5, E6, E7 & E8)	52.00	14-Oct-14	0%	52.00	12-Dec-14	10-Jul-14	08-Sep-14	-79.00	32.00	0%	[Gantt Bar]															
MBBE0024	Precast Segment Mould Design (Viaduct E2)	42.00	15-Oct-13 A	59.52%	17.00	13-Oct-14	26-May-14	14-Jun-14	-99.00	0.00	60%	[Gantt Bar]															
MBBE0026	Precast Segment Mould Fabrication & Assembly (Viaduct E2)	52.00	14-Oct-14	0%	52.00	12-Dec-14	16-Jun-14	15-Aug-14	-99.00	32.00	0%	[Gantt Bar]															
MBBE0030	Precast Segment Mould Design (Viaduct E1)	42.00	30-Jul-14 A	0%	42.00	11-Nov-14	09-Jul-14	26-Aug-14	-63.00	0.00	0%	[Gantt Bar]															
MBBE0032	Precast Segment Mould Fabrication & Assembly (Viaduct E1)	52.00	12-Nov-14	0%	52.00	14-Jan-15	27-Aug-14	29-Oct-14	-63.00	13.00	0%	[Gantt Bar]															
MBBE0036	Precast Segment Mould Design (Viaduct D)	42.00	22-Sep-14	0%	42.00	11-Nov-14	07-Jul-14	23-Aug-14	-65.00	0.00	0%	[Gantt Bar]															
MBBE0038	Precast Segment Mould Fabrication & Assembly (Viaduct D)	52.00	12-Nov-14	0%	52.00	14-Jan-15	25-Aug-14	27-Oct-14	-65.00	20.00	0%	[Gantt Bar]															
MBBE0042	Precast Segment Mould Design (Viaduct C)	42.00	22-Sep-14	0%	42.00	11-Nov-14	06-Dec-14	27-Jan-15	63.00	0.00	0%	[Gantt Bar]															
MBBE0044	Precast Segment Mould Fabrication & Assembly (Viaduct C)	52.00	12-Nov-14	0%	52.00	14-Jan-15	28-Jan-15	01-Apr-15	63.00	41.00	0%	[Gantt Bar]															
MBBE0048	Precast Segment Mould Design (Viaduct A)	42.00	17-Oct-14	0%	42.00	04-Dec-14	23-Jul-15	09-Sep-15	225.00	0.00	0%	[Gantt Bar]															
MBBE0050	Precast Segment Mould Fabrication & Erection (Viaduct A)	52.00	05-Dec-14	0%	52.00	06-Feb-15	10-Sep-15	12-Nov-15	225.00	91.00	0%	[Gantt Bar]															
MBBE0054	Precast Segment Mould Design (Viaduct F1 to F5)	42.00	22-Sep-14	0%	42.00	11-Nov-14	16-Jan-15	09-Mar-15	95.00	0.00	0%	[Gantt Bar]															
MBBE0056	Precast Segment Mould Fabrication & Erection (Viaduct F1 to F5)	52.00	12-Nov-14	0%	52.00	14-Jan-15	10-Mar-15	14-May-15	95.00	87.00	0%	[Gantt Bar]															
Viaduct B																											
Precast Pile Caps																											
MBBC0130-1	B: Progressive Pile Cap Shell Manufacture & Delivery remaining shells (6/7 Nr in total)	81.00	05-Jul-14 A	50.62%	40.00	08-Nov-14	15-Aug-14	04-Oct-14	-30.88	1126.00	20%	[Gantt Bar]															
Precast Deck Segments																											
MBBE0120	B: Commence Segment Casting on Approval of DDA	0.00	27-Nov-14	0%	0.00		01-Aug-14		-98.00	0.00	0%	[Gantt Bar]															
PP1032-1	Viaduct B - Pier Head Segment Casting	0.00	27-Nov-14	0%	0.00		01-Aug-14		-98.00	0.00	0%	[Gantt Bar]															
Viaduct E																											
Precast Pile Caps																											
Viaduct E1																											
MBEC0120-1	E1: Commence Pile Cap Shell Casting on Approval of DDA	0.00	05-Dec-14	0%	0.00		30-Aug-14		-79.88	0.00	0%	[Gantt Bar]															
PP7330	Production of Viaduct E1 Marine Precast Pile Cap Shells	80.00	05-Dec-14	0%	80.00	14-Mar-15	30-Aug-14	05-Dec-14	-79.88	0.00	0%	[Gantt Bar]															
Viaduct E2																											
MBEC0120-3	E2: Commence Pile Cap Shell Casting on Approval of DDA	0.00	25-Oct-14	0%	0.00		18-Jun-14		106.13	0.00	0%	[Gantt Bar]															
MBEC0130-4	E2: Commence Pile Cap Shell Delivery	0.00	20-Dec-14	0%	0.00		14-Aug-14		106.13	3.00	0%	[Gantt Bar]															
PP7260	Production of Viaduct E2 Marine Precast Pile Cap Shells	80.00	25-Oct-14	0%	80.00	29-Jan-15	08-Aug-14	12-Nov-14	-64.00	0.00	0%	[Gantt Bar]															
Precast Deck Segments																											
MBE00014	Viaduct E2 - Pier Head Segment Casting	0.00	18-Dec-14	0%	0.00		16-Aug-14		103.00	28.00	0%	[Gantt Bar]															
Viaduct D																											
Precast Pile Caps																											
MBDC0120	D: Commence Pile Cap Shell Casting on Approval of DDA	0.00	22-Sep-14	0%	0.00		16-Aug-14		-30.00	0.00	0%	[Gantt Bar]															
MBDC0130	D: Commence Pile Cap Shell Delivery	0.00	04-Nov-14	0%	0.00		27-Sep-14		-30.00	0.00	0%	[Gantt Bar]															

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Tuen Mun - Chek Lap Kok Link - Southern Connection
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												September					October				November			December									
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08	15					
Bearings																																	
Viaduct B																																	
PPBRB4	Design check by ICE - Viaduct B	24.00	06-Jun-14 A	50%	12.00	07-Oct-14	16-Oct-14	29-Oct-14	19.00	38.00	50%																						
PPBRB5	SO review & comment on design submission - Viaduct B	36.00	06-Jun-14 A	50%	18.00	14-Oct-14	09-Oct-14	29-Oct-14	13.00	32.00	50%																						
PPBRB6	Bearing Design Amendment & re-issue - Viaduct B	12.00	22-Jul-14 A	100%	0.00	08-Sep-14 A					100%																						
PPBRB8	Testing Bearing - Viaduct B	18.00	30-Jun-14 A	88.89%	2.00	23-Sep-14	29-Aug-14	30-Aug-14	-19.00	0.00	90%																						
PPBRB9	Bearing Delivery - Viaduct B	48.00	24-Sep-14	0%	48.00	20-Nov-14	01-Sep-14	29-Oct-14	-19.00	0.00	0%																						
PPBRB99	Site preparation Bearings for Viaduct B	6.00	21-Nov-14	0%	6.00	27-Nov-14	30-Oct-14	05-Nov-14	-19.00	65.00	0%																						
Viaduct D																																	
PPBRD1	Preliminary Design of Bearings - Viaduct D	50.00	28-Oct-14	0%	50.00	24-Dec-14	10-Jul-14	05-Sep-14	-91.00	0.00	0%																						
Viaduct E																																	
PPBRE2	Confirmation of bearing assumption - Viaduct E (E1, E2, E5, E6, E7 & E8)	0.00		0%	0.00	22-Sep-14		31-Jul-14	-43.00	4.00	0%																						
PPBRE3	Bearing design and submission - Viaduct E (E1, E2, E5, E6, E7 & E8)	12.00	06-Jan-14 A	66.67%	4.00	25-Sep-14	28-Jul-14	31-Jul-14	-47.00	0.00	70%																						
PPBRE4	Design check by ICE - Viaduct E (E1, E2, E5, E6, E7 & E8)	24.00	26-Sep-14	0%	24.00	25-Oct-14	01-Aug-14	28-Aug-14	-47.00	0.00	0%																						
PPBRE5	SO review & comment on design submission - Viaduct E (E1, E2, E5, E6, E7 & E8)	36.00	27-Oct-14	0%	36.00	06-Dec-14	29-Aug-14	13-Oct-14	-47.00	0.00	0%																						
PPBRE6	Bearing Design Amendment & re-issue - Viaduct E (E1, E2, E5, E6, E7 & E8)	12.00	08-Dec-14	0%	12.00	20-Dec-14	21-Oct-14	03-Nov-14	-41.00	6.00	0%																						
PPBRE7	Manufacture of Bearing - Viaduct E (E1, E2, E5, E6, E7 & E8)	54.00	27-Oct-14	0%	54.00	30-Dec-14	29-Aug-14	03-Nov-14	-47.00	0.00	0%																						
Movement Joints																																	
PPMJ01	Design & Submission of MJ	138.00	08-Feb-14 A	29.71%	97.00	17-Jan-15	30-Oct-14	26-Feb-15	31.00	9.00	30%																						
Other Sub-Contract Procurement																																	
Pavement																																	
PP7760-2	Procure Pavement Viaduct Sub-Contractor	36.00	01-Nov-14	0%	36.00	12-Dec-14	02-Oct-15	13-Nov-15	271.00	0.00	0%																						
PP7760-4	Pavement Viaduct Sub-Contractor - Materials approvals & MS	90.00	13-Dec-14	0%	90.00	08-Apr-15	14-Nov-15	04-Mar-16	271.00	381.00	0%																						
Structural Health Monitoring System (SHMS)																																	
PP7774	SHMS - So approval of Preliminary System Proposal	30.00	29-Jul-14 A	20%	24.00	21-Oct-14	16-May-14	13-Jun-14	107.00	24.00	20%																						
PP7776	SHMS - Prepare & Submit Final System Proposal	48.00	29-Jul-14 A	0%	48.00	18-Nov-14	12-Apr-14	13-Jun-14	131.00	0.00	0%																						
PP7778	SHMS - So approval of Final System Proposal	30.00	19-Nov-14	0%	30.00	23-Dec-14	14-Jun-14	19-Jul-14	131.00	0.00	0%																						
PP7780	SHMS - Prepare Civil Work Provision	90.00	22-Sep-14	0%	90.00	09-Jan-15	14-May-14	28-Aug-14	109.00	0.00	0%																						
PP7782	SHMS - Submit Precast Pile Cap Shell SHMS details for E5-E6-E7-E8	0.00	22-Oct-14	0%	0.00		25-Jun-14		-98.00	35.00	0%																						
PP7786	SHMS - Submit Segment SHMS details for E5-E6-E7-E8	0.00	12-Nov-14	0%	0.00		18-Jul-14		-97.00	14.00	0%																						
Site Preparation / Mobilisations																																	
Temp Traffic Mgt Submission & Approval																																	
TTM00460	Earliest Implementation of TTM after TMLG Meeting No. 12	0.00	25-Aug-14 A	100%	0.00						100%																						
TTM00470	Send TTMs to SO & Govt Depts for TMLG Meeting No. 13	0.00		100%	0.00	05-Sep-14 A					100%																						
TTM00480	TMLG Meeting No. 13	0.00		100%	0.00	11-Sep-14 A					100%																						
TTM00490	Earliest Implementation of TTM after TMLG Meeting No. 13	0.00	25-Sep-14	0%	0.00		22-Sep-15		258.00	20.00	0%																						
TTM00500	Send TTMs to SO & Govt Depts for TMLG Meeting No. 14	0.00		0%	0.00	24-Sep-14		07-Nov-14	32.00	0.00	0%																						
TTM00510	TMLG Meeting No. 14	0.00		0%	0.00	08-Oct-14*		21-Nov-14	32.00	0.00	0%																						
TTM00520	Earliest Implementation of TTM after TMLG Meeting No. 14	0.00	23-Oct-14	0%	0.00		22-Sep-15		238.00	21.00	0%																						
TTM00530	Send TTMs to SO & Govt Depts for TMLG Meeting No. 15	0.00		0%	0.00	22-Oct-14		05-Dec-14	32.00	1.00	0%																						
TTM00540	TMLG Meeting No. 15	0.00		0%	0.00	06-Nov-14*		13-Jan-15	48.00	0.00	0%																						
TTM00550	Earliest Implementation of TTM after TMLG Meeting No. 15	0.00	21-Nov-14	0%	0.00		22-Sep-15		217.00	20.00	0%																						
TTM00560	Send TTMs to SO & Govt Depts for TMLG Meeting No. 16	0.00		0%	0.00	20-Nov-14		27-Jan-15	48.00	0.00	0%																						
TTM00570	TMLG Meeting No. 16	0.00		0%	0.00	04-Dec-14*		10-Feb-15	48.00	0.00	0%																						
TTM00580	Earliest Implementation of TTM after TMLG Meeting No. 16	0.00	19-Dec-14	0%	0.00		22-Sep-15		197.00	25.00	0%																						
TTM00590	Send TTMs to SO & Govt Depts for TMLG Meeting No. 17	0.00		0%	0.00	18-Dec-14		24-Feb-15	48.00	0.00	0%																						
Tree Felling / Transplant																																	
Approved Trees in Contract																																	

<ul style="list-style-type: none"> ■ Actual Work ■ Planned Bar ■ Critical Bar ◆ Milestone 	Project ID: J3518DWPPrD1-M16 Layout: J3518-DWP-3MRP Submission - M16 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 15 of 35 Pages) (Progress as of 21-Sep-14)	<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>29-Jul-14</td> <td></td> <td>FZ</td> <td></td> </tr> <tr> <td>29-Aug-14</td> <td></td> <td>FZ</td> <td></td> </tr> <tr> <td>07-Oct-14</td> <td></td> <td></td> <td></td> </tr> </table>	Date	Revision	Checked	Approved	29-Jul-14		FZ		29-Aug-14		FZ		07-Oct-14				DWG. No.: J3518/GCL/PGM/3MRP-M16
Date	Revision	Checked	Approved																	
29-Jul-14		FZ																		
29-Aug-14		FZ																		
07-Oct-14																				

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	2014															
												September				October				November				December			
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08
TR00140	SO Approval of Base Tree Survey Report	30.00	14-Oct-13 A	90%	3.00	24-Sep-14	27-Aug-18	29-Aug-18	025.00	1025.00	90%																
TR00200	Tree transplant for Viaduct B - affecting Piers B11 to B17	90.00	17-Feb-14 A	97.78%	2.00	23-Sep-14	15-Feb-16	16-Feb-16	379.00	1050.00	98%																
TR00220	Tree transplant for Viaduct B - affecting Pier B18 & Abutment B	90.00	17-Feb-14 A	97.78%	2.00	23-Sep-14	01-Nov-14	03-Nov-14	31.00	16.00	98%																
TR00240	Tree transplant for Viaduct B - affecting realigned CTR	90.00	17-Feb-14 A	97.78%	2.00	23-Sep-14	24-Oct-14	25-Oct-14	24.00	65.00	98%																
TR00250	Tree felling for Viaduct B - affecting Slopes 9SE-B/F9, C8 & C9	48.00	05-May-14 A	77.08%	11.00	06-Oct-14	05-Jul-14	19-Jul-14	-55.00	1.00	13%																
TR00260	Tree felling for Viaduct C - affecting Piers C9 to Abutment C	24.00	30-Jan-14 A	83.33%	4.00	25-Sep-14	31-Oct-14	04-Nov-14	30.00	64.00	35%																
TR00270	Tree transplant for Viaduct C - affecting Piers C9 to Abutment C	90.00	17-Feb-14 A	24.44%	68.00	13-Dec-14	05-Aug-14	04-Nov-14	-34.00	0.00	20%																
TR00280	Tree felling for Viaduct C - affecting realigned CTR	30.00	30-Jan-14 A	56.67%	13.00	09-Oct-14	14-Jun-14	05-Jul-14	-67.00	55.00	35%																
TR00290	Tree transplant for Viaduct C - affecting realigned CTR	90.00	17-Feb-14 A	24.44%	68.00	13-Dec-14	17-Mar-14	05-Jul-14	122.00	0.00	20%																
Additional Trees																											
TR01010	Additional tree felling for Viaduct B along CTR	48.00	19-May-14 A	77.08%	11.00	06-Oct-14	13-Oct-14	25-Oct-14	15.00	56.00	42%																
Site Set Up for Works Area 3 and Site Offices along CEDD Access Road																											
PR30030	Works Area 3-A1/3-A2 - Construct 1.5m steel access bridge	30.00	22-Sep-14	0%	30.00	30-Oct-14	24-Jul-18	29-Aug-18	022.00	1022.00	0%																
Temporary Working Platform at North Lantau																											
PR08020	Temp. Working Platform at N.Lantau - Install boundary fence	22.00	22-Sep-14	0%	22.00	21-Oct-14	11-Aug-14	11-Sep-14	-30.00	23.00	0%																
PR08030	Temp. Working Platform at N.Lantau - Modify top of existing seawall	24.00	25-Nov-13 A	70.83%	7.00	29-Sep-14	24-Jan-14	04-Feb-14	163.00	5.00	71%																
PR08050	Temp. Working Platform at N.Lantau - Temp. rockfill & paving between existing & Temp.Seav	42.00	17-Feb-13 A	71.43%	12.00	07-Oct-14	18-Jan-14	04-Feb-14	168.00	0.00	71%																
PR08070	Temp. Working Platform at N.Lantau - Construct steel deck / bollards / fenders	24.00	02-May-14 A	29.17%	17.00	23-Oct-14	27-Jan-14	18-Feb-14	168.00	0.00	30%																
PR08080	Inst.Unloading Frame incl. T&C for seg.lift (incl. Load Test)	15.00	18-Nov-14	0%	15.00	04-Dec-14	12-Sep-14	29-Sep-14	-53.00	31.00	0%																
CONSTRUCTION																											
PILING AND SUBSTRUCTURE																											
Viaduct A																											
General																											
ZA00010	Viaduct A - Approval of Foundation DDA DP11.01	0.00		0%	0.00	16-Dec-14		12-May-15	105.00	51.00	0%																
ZA00060	Prepare/submit/approval of MTR Protective Fence submission for Viaduct A	60.00	22-Sep-14	0%	60.00	12-Dec-14	27-Jun-14	18-Sep-14	-61.00	0.00	0%																
Bridge A2																											
Pier A1 (A2e)																											
Foundation Works																											
GFXX144	A1 (A2e) - Bored Piles (1.80m dia. x 3 nos)	88.00	12-Aug-14 A	5.68%	83.00	31-Dec-14	24-Apr-15	03-Aug-15	172.00	0.00	6%																
Bridge A1																											
Pier A8 (A1d)																											
Preliminary Works for Land Piling																											
PA080020	A08 (A1d) - Erect MTR protective fence / Remove existing fence	12.00	13-Dec-14	0%	12.00	29-Dec-14	19-Sep-14	04-Oct-14	-69.00	0.00	0%																
PA080030	A8 (A1d) - Install Geo. Instru. & Baseline Monitoring	36.00	13-Dec-14	0%	36.00	27-Jan-15	19-Sep-14	01-Nov-14	-71.00	0.00	0%																
Pier A9 (A1c)																											
Preliminary Works for Land Piling																											
PA090010	A9 (A1c) - Implement TTMS along north side of NLH E/B	2.00	13-Dec-14	0%	2.00	15-Dec-14	24-Oct-14	25-Oct-14	-43.00	0.00	0%																
PA090020	A9 (A1c) - Erect boundary fence, site clearance & set up site ingress	4.00	16-Dec-14	0%	4.00	19-Dec-14	27-Oct-14	30-Oct-14	-43.00	6.00	0%																
Pier A10 (A1b)																											
Preliminary Works for Land Piling																											
PA100010	A10 (A1b) - Implement TTMS along north side of NLH E/B	2.00	13-Dec-14	0%	2.00	15-Dec-14	05-Nov-14	06-Nov-14	-33.00	0.00	0%																
Pier A11 (A1a) & Abutment A																											
Preliminary Works for Land Piling																											
PA110010	A11 (A1a) to Abutment A - Implement TTMS along north side of NLH E/B	2.00	13-Dec-14	0%	2.00	15-Dec-14	05-Nov-14	06-Nov-14	-33.00	0.00	0%																
PA110020	A11 (A1a) to Approach Ramp A - Erect boundary fence / water filled barrier & set up site ingr	14.00	16-Dec-14	0%	14.00	03-Jan-15	07-Nov-14	22-Nov-14	-33.00	0.00	0%																
Viaduct B																											
Milestones - Marine Foundation																											
GFXX155-1	B7 (B2f) - Completion of piling works	0.00		0%	0.00	22-Sep-14		08-Sep-14	-10.00	7.00	0%																

Actual Work
 Planned Bar
 Critical Bar
 Milestone

Project ID: J3518DWPPrD1-M16
 Layout: J3518-DWP-3MRP Submission - M16
 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 16 of 35 Pages)
(Progress as of 21-Sep-14)

Date	Revision	Checked	Approved
29-Jul-14		FZ	
29-Aug-14		FZ	
07-Oct-14			

DWG. No.:
J3518/GCL/PGM/3MRP-M16

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	2014																			
												September					October					November					December				
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08	15			
Socketted H-Pile Installation																															
GFXX335	B11 (B2b) - Loading Test for pre-bored H-pile	12.00	25-Aug-14 A	100%	0.00	05-Sep-14 A					100%																				
Pile Cap Works																															
SB2B0091	B11 (B2b) - Pile cap Excavation / ELS	24.00	19-Jul-14 A	75%	6.00	27-Sep-14	09-Jan-15	15-Jan-15	87.00	0.00	75%																				
SB2B0092	B11 (B2b) - Pile Breakdown to cut-off etc.	4.00	29-Sep-14	0%	4.00	04-Oct-14	16-Jan-15	20-Jan-15	87.00	0.00	0%																				
SB2B0100	B11 (B2b) - Pile cap Blinding	1.00	06-Oct-14	0%	1.00	06-Oct-14	21-Jan-15	21-Jan-15	87.00	0.00	0%																				
SB2B0110	B11 (B2b) - Pile cap Formwork	3.00	07-Oct-14	0%	3.00	10-Oct-14	22-Jan-15	24-Jan-15	87.00	0.00	0%																				
SB2B0120	B11 (B2b) - Pile cap Rebarwork	4.00	11-Oct-14	0%	4.00	16-Oct-14	26-Jan-15	29-Jan-15	87.00	0.00	0%																				
SB2B0122	B11 (B2b) - Pile cap Kicker Formwork	2.00	17-Oct-14	0%	2.00	18-Oct-14	30-Jan-15	31-Jan-15	87.00	0.00	0%																				
SB2B0130	B11 (B2b) - Pile cap Concreting	1.00	20-Oct-14	0%	1.00	20-Oct-14	02-Feb-15	02-Feb-15	87.00	0.00	0%																				
SB2B0140	B11 (B2b) - Pile cap Curing & Striking of Forms incl. CJ prep	6.00	21-Oct-14	0%	6.00	27-Oct-14	03-Feb-15	09-Feb-15	87.00	0.00	0%																				
Pier Works																															
SB2B0150	B11 (B2b) - Type 5B-B Pier Scaffolding (1st Lift)	4.00	28-Oct-14	0%	4.00	31-Oct-14	10-Feb-15	13-Feb-15	87.00	0.00	0%																				
SB2B0160	B11 (B2b) - Type 5B-B Pier Rebarwork (1st Lift)	4.00	01-Nov-14	0%	4.00	05-Nov-14	14-Feb-15	18-Feb-15	87.00	0.00	0%																				
SB2B0170	B11 (B2b) - Type 5B-B Pier Formwork & Prep for Concreting (1st Lift)	4.00	06-Nov-14	0%	4.00	10-Nov-14	23-Feb-15	26-Feb-15	87.00	0.00	0%																				
SB2B0180	B11 (B2b) - Type 5B-B Pier Concreting (1st Lift)	1.00	11-Nov-14	0%	1.00	11-Nov-14	27-Feb-15	27-Feb-15	87.00	0.00	0%																				
SB2B0182	B11 (B2b) - Type 5B-B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2.00	12-Nov-14	0%	2.00	13-Nov-14	28-Feb-15	02-Mar-15	87.00	0.00	0%																				
SB2B0190	B11 (B2b) - Type 5B-B Pier Scaffolding (2nd Lift)	4.00	14-Nov-14	0%	4.00	18-Nov-14	03-Mar-15	07-Mar-15	88.00	0.00	0%																				
SB2B0200	B11 (B2b) - Type 5B-B Pier Rebarwork (2nd Lift)	4.00	19-Nov-14	0%	4.00	22-Nov-14	09-Mar-15	12-Mar-15	88.00	0.00	0%																				
SB2B0210	B11 (B2b) - Type 5B-B Pier Formwork & Prep for Concreting (2nd Lift)	4.00	24-Nov-14	0%	4.00	27-Nov-14	13-Mar-15	17-Mar-15	88.00	0.00	0%																				
SB2B0220	B11 (B2b) - Type 5B-B Pier Concreting (2nd Lift)	1.00	28-Nov-14	0%	1.00	28-Nov-14	18-Mar-15	18-Mar-15	88.00	0.00	0%																				
SB2B0222	B11 (B2b) - Type 5B-B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift)	2.00	29-Nov-14	0%	2.00	01-Dec-14	19-Mar-15	20-Mar-15	88.00	0.00	0%																				
SB2B0230	B11 (B2b) - Type 5B-B Pier Head Scaffolding	4.00	02-Dec-14	0%	4.00	05-Dec-14	21-Mar-15	25-Mar-15	88.00	0.00	0%																				
SB2B0240	B11 (B2b) - Type 5B-B Pier Head Rebarwork	4.00	06-Dec-14	0%	4.00	10-Dec-14	26-Mar-15	30-Mar-15	88.00	0.00	0%																				
SB2B0250	B11 (B2b) - Type 5B-B Pier Head Formwork & Prep for Concreting	4.00	11-Dec-14	0%	4.00	15-Dec-14	31-Mar-15	10-Apr-15	88.00	0.00	0%																				
SB2B0260	B11 (B2b) - Type 5B-B Pier Head Concreting	1.00	16-Dec-14	0%	1.00	16-Dec-14	11-Apr-15	11-Apr-15	88.00	0.00	0%																				
SB2B0270	B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding	6.00	17-Dec-14	0%	6.00	23-Dec-14	13-Apr-15	21-Apr-15	89.00	0.00	0%																				
SB2B0280	B11 (B2b) - Type 5B-B Pier Backfilling Works	4.00	20-Dec-14	0%	4.00	24-Dec-14	18-Apr-15	22-Apr-15	89.00	0.00	0%																				
Pier B12 (B2a)																															
Pile Cap Works																															
SB2A0091	B12 (B2a) - Pile cap Excavation / ELS (incl. sheet piling)	24.00	13-Aug-14 A	50%	12.00	07-Oct-14	03-Jan-15	16-Jan-15	82.00	0.00	50%																				
SB2A0092	B12 (B2a) - Pile Breakdown to cut-off etc.	4.00	09-Oct-14	0%	4.00	13-Oct-14	17-Jan-15	21-Jan-15	82.00	0.00	0%																				
SB2A0100	B12 (B2a) - Pile cap Blinding	1.00	14-Oct-14	0%	1.00	14-Oct-14	22-Jan-15	22-Jan-15	82.00	0.00	0%																				
SB2A0110	B12 (B2a) - Pile cap Formwork	3.00	16-Oct-14	0%	3.00	18-Oct-14	23-Jan-15	27-Jan-15	83.00	0.00	0%																				
SB2A0120	B12 (B2a) - Pile cap Rebarwork	4.00	20-Oct-14	0%	4.00	23-Oct-14	28-Jan-15	31-Jan-15	83.00	0.00	0%																				
SB2A0122	B12 (B2a) - Pile cap Kicker Formwork	2.00	24-Oct-14	0%	2.00	25-Oct-14	02-Feb-15	03-Feb-15	83.00	0.00	0%																				
SB2A0130	B12 (B2a) - Pile cap Concreting	1.00	27-Oct-14	0%	1.00	27-Oct-14	04-Feb-15	04-Feb-15	83.00	0.00	0%																				
SB2A0140	B12 (B2a) - Pile cap Curing & Striking of Forms incl. CJ prep	6.00	28-Oct-14	0%	6.00	03-Nov-14	05-Feb-15	11-Feb-15	83.00	0.00	0%																				
Pier Works																															
SB2A0150	B12 (B2a) - Type 5B-MJ Pier Scaffolding (1st Lift)	4.00	04-Nov-14	0%	4.00	07-Nov-14	12-Feb-15	16-Feb-15	83.00	0.00	0%																				
SB2A0160	B12 (B2a) - Type 5B-MJ Pier Rebarwork (1st Lift)	4.00	08-Nov-14	0%	4.00	12-Nov-14	17-Feb-15	24-Feb-15	83.00	0.00	0%																				
SB2A0170	B12 (B2a) - Type 5B-MJ Pier Formwork & Prep for Concreting (1st Lift)	4.00	13-Nov-14	0%	4.00	17-Nov-14	25-Feb-15	28-Feb-15	83.00	0.00	0%																				
SB2A0180	B12 (B2a) - Type 5B-MJ Pier Concreting (1st Lift)	1.00	18-Nov-14	0%	1.00	18-Nov-14	02-Mar-15	02-Mar-15	83.00	0.00	0%																				
SB2A0182	B12 (B2a) - Type 5B-MJ Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2.00	19-Nov-14	0%	2.00	20-Nov-14	03-Mar-15	04-Mar-15	83.00	0.00	0%																				
SB2A0190	B12 (B2a) - Type 5B-MJ Pier Scaffolding (2nd Lift)	4.00	21-Nov-14	0%	4.00	25-Nov-14	05-Mar-15	10-Mar-15	84.00	0.00	0%																				
SB2A0200	B12 (B2a) - Type 5B-MJ Pier Rebarwork (2nd Lift)	4.00	26-Nov-14	0%	4.00	29-Nov-14	11-Mar-15	14-Mar-15	84.00	0.00	0%																				
SB2A0210	B12 (B2a) - Type 5B-MJ Pier Formwork & Prep for Concreting (2nd Lift)	4.00	01-Dec-14	0%	4.00	04-Dec-14	16-Mar-15	19-Mar-15	84.00	0.00	0%																				
SB2A0220	B12 (B2a) - Type 5B-MJ Pier Concreting (2nd Lift)	1.00	05-Dec-14	0%	1.00	05-Dec-14	20-Mar-15	20-Mar-15	84.00	0.00	0%																				

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

Project ID: J3518DWPPrD1-M16
 Layout: J3518-DWP-3MRP Submission - M16
 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 21 of 35 Pages)
(Progress as of 21-Sep-14)

Date	Revision	Checked	Approved
29-Jul-14		FZ	
29-Aug-14		FZ	
07-Oct-14			

DWG. No.:
J3518/GCL/PGM/3MRP-M16

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	2014																			
												September					October					November					December				
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08	15			
Socketted H-Pile Installation																															
GFXX368-6	C20 (C1c) - Confirm Rockhead Levels	8.00	14-Aug-14 A	0%	8.00	30-Sep-14	28-Feb-15	09-Mar-15	129.00	25.00	0%																				
GFXX369-3	C20 (C1c) - Install SH Pile (6 nr)	56.00	01-Nov-14	0%	56.00	08-Jan-15	10-Mar-15	19-May-15	104.00	0.00	0%																				
Viaduct D																															
Milestones - Marine Foundation																															
GFXX228	Viaduct D - ARUP issues Pile Spacing & Diameter for Temporary Platform Design	0.00		0%	0.00	22-Sep-14		26-Jul-14	-47.00	0.00	0%																				
GFXX230-1	Pier D7 (D3e) - Start date for piling	0.00	08-Dec-14	0%	0.00		11-Oct-14		-49.00	0.00	0%																				
GFXX235-1	Pier D6 (D4a) - Start date for piling	0.00	27-Oct-14	0%	0.00		08-Oct-14		-16.00	0.00	0%																				
GFXX240-1	Pier D5 (D4b) - Start date for piling	0.00	25-Oct-14	0%	0.00		13-Sep-14		-34.00	0.00	0%																				
GFXX245-1	Pier D4 (D4c) - Start date for piling	0.00	23-Oct-14	0%	0.00		26-Aug-14		-47.00	0.00	0%																				
GFXX250-1	Pier D3 (D4d) - Start date for piling	0.00	13-Oct-14	0%	0.00		19-Jul-14		-70.00	0.00	0%																				
GFXX255-1	Pier D2 (D4e) - Start date for piling	0.00	22-Sep-14	0%	0.00		20-May-15		193.00	0.00	0%																				
GFXX263-1	Pier D1 (D4f) - Completion of Piling Works	0.00		0%	0.00	06-Nov-14		22-Jan-15	63.00	41.00	0%																				
ZD00010	Viaduct D - Approval of Foundation DDA	0.00		0%	0.00	22-Sep-14		11-Feb-15	103.00	9.00	0%																				
Milestones - Land Foundation																															
GFXX438-4	D18 (D1c) - Start date for piling	0.00	22-Sep-14	0%	0.00		07-Nov-14		38.00	0.00	0%																				
GFXX438-4A	D18 (D1c) - Completion of piling works	0.00		0%	0.00	18-Nov-14		30-Jan-15	60.00	22.00	0%																				
GFXX438-5	D19 (D1b) - Start date for piling	0.00	22-Sep-14	0%	0.00		18-Nov-14		47.00	29.00	0%																				
GFXX438-5A	D19 (D1b) - Completion of piling works	0.00		0%	0.00	08-Nov-14		10-Feb-15	77.00	59.00	0%																				
GFXX439A	D17 (D1d) - Start date for piling	0.00	22-Sep-14	0%	0.00		04-Dec-14		61.00	9.00	0%																				
GFXX439A1	D17 (D1d) - Completion of piling works	0.00		0%	0.00	01-Dec-14		02-Mar-15	73.00	21.00	0%																				
GFXX446A1	D14 (D2c) - Start date for piling	0.00	03-Oct-14	0%	0.00		17-Jul-14		-64.00	0.00	0%																				
GFXX446C	D16 (D2a) - Start date for piling	0.00	22-Sep-14	0%	0.00		15-Jul-14		-58.00	0.00	0%																				
GFXX454A	D13 (D2d) - Start date for piling	0.00	03-Oct-14	0%	0.00		23-Mar-15		140.00	0.00	0%																				
GFXX461A	D10 (D3b) - Start date for piling	0.00	13-Oct-14	0%	0.00		31-Jul-14		-60.50	0.00	0%																				
GFXX461B	D11 (D3a) - Start date for piling	0.00	04-Nov-14	0%	0.00		18-Jun-14		-115.00	1.00	0%																				
GFXX461C	D12 (D2e) - Start date for piling	0.00	04-Nov-14	0%	0.00		16-Sep-14		-40.00	97.00	0%																				
GFXX471-1	D8 (D3d) - Start date for piling	0.00	14-Oct-14	0%	0.00		20-Aug-14		-44.00	0.00	0%																				
General - Preliminary Works for Land Piling																															
ZD20010	Viaduct D works area between MTR and NLH - Setup TTMS	4.00	22-Sep-14	0%	4.00	25-Sep-14	10-Aug-18	14-Aug-18	036.00	0.00	0%																				
Bridge D3																															
Pier D1 (D4f)																															
Foundation Works																															
GFXX261	D1 (D4f) - Bored Piles (1.80m dia. x 3 nos)	58.00	08-Aug-14 A	86.21%	8.00	30-Sep-14	14-Aug-14	22-Aug-14	-32.00	0.00	86.58%																				
GFXX262	D1 (D4f) - Sonic & Interface Coring	12.00	18-Oct-14	0%	12.00	31-Oct-14	03-Jan-15	16-Jan-15	63.00	0.00	0%																				
GFXX263	D1 (D4f) - Dismantle removable panels of temp. platform	5.00	01-Nov-14	0%	5.00	06-Nov-14	17-Jan-15	22-Jan-15	63.00	0.00	0%																				
Pier D2 (D4e)																															
Foundation Works																															
GFXX255	D2 (D4e) - Predrilling (2 nos)	12.00	27-Aug-14 A	100%	0.00	10-Sep-14 A					100%																				
GFXX255-2	D2 (D4e) - Confirm Rockhead Levels	8.00	11-Sep-14 A	100%	0.00	18-Sep-14 A					100%																				
GFXX256	D2 (D4e) - Bored Piles (2.35m dia. x 2 nos)	63.00	19-Sep-14 A	33.33%	42.00	11-Nov-14	25-Jul-14	12-Sep-14	-49.00	0.00	34.25%																				
GFXX257	D2 (D4e) - Sonic & Interface Coring	12.00	06-Dec-14	0%	12.00	19-Dec-14	05-Aug-15	18-Aug-15	193.00	0.00	0%																				
GFXX258	D2 (D4e) - Dismantle removable panels of temp. platform	5.00	20-Dec-14	0%	5.00	27-Dec-14	19-Aug-15	24-Aug-15	193.00	0.00	0%																				
Pier D3 (D4d)																															
Foundation Works																															
GFXX249	D3 (D4d) - Inst.Temp.Working Platform	20.00	21-Aug-14 A	80%	4.00	25-Sep-14	30-Jun-14	04-Jul-14	-70.00	0.00	80%																				
GFXX250	D3 (D4d) - Predrilling for Piles (3 nos)	12.00	26-Sep-14	0%	12.00	11-Oct-14	05-Jul-14	18-Jul-14	-70.00	0.00	0%																				
GFXX250-2	D3 (D4d) - Confirm Rockhead Levels	8.00	13-Oct-14	0%	8.00	21-Oct-14	19-Jul-14	28-Jul-14	-70.00	0.00	0%																				

	Project ID: J3518DWPPrD1-M16 Layout: J3518-DWP-3MRP Submission - M16 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 26 of 35 Pages) (Progress as of 21-Sep-14)	<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>29-Jul-14</td> <td></td> <td>FZ</td> <td></td> </tr> <tr> <td>29-Aug-14</td> <td></td> <td>FZ</td> <td></td> </tr> <tr> <td>07-Oct-14</td> <td></td> <td></td> <td></td> </tr> </table>	Date	Revision	Checked	Approved	29-Jul-14		FZ		29-Aug-14		FZ		07-Oct-14				DWG. No.: J3518/GCL/PGM/3MRP-M16
Date	Revision	Checked	Approved																	
29-Jul-14		FZ																		
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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	2014															
												September				October				November				December			
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08
GFXX251	D3 (D4d) - Bored Piles (2.00m dia. x 3 nos)	65.00	13-Oct-14	0%	65.00	29-Dec-14	19-Jul-14	06-Oct-14	-70.00	0.00	0%																
Pier D4 (D4c)																											
Foundation Works																											
GFXX244	D4 (D4c) - Inst.Temp.Working Platform	14.00	22-Sep-14	0%	14.00	09-Oct-14	28-Jul-14	12-Aug-14	-47.00	0.00	0%																
GFXX245	D4 (D4c) - Predrilling (3 nos)	11.00	10-Oct-14	0%	11.00	22-Oct-14	13-Aug-14	25-Aug-14	-47.00	0.00	0%																
GFXX245-2	D4 (D4c) - Confirm Rockhead Levels	8.00	23-Oct-14	0%	8.00	31-Oct-14	26-Aug-14	03-Sep-14	-47.00	0.00	0%																
GFXX246	D4 (D4c) - Bored Piles (2.00m dia. x 3 nos)	70.00	23-Oct-14	0%	70.00	15-Jan-15	26-Aug-14	18-Nov-14	-47.00	0.00	0%																
Pier D5 (D4b)																											
Foundation Works																											
GFXX239	D5 (D4b) - Inst.Temp.Working Platform	15.00	22-Sep-14	0%	15.00	10-Oct-14	12-Aug-14	28-Aug-14	-34.00	0.00	0%																
GFXX240	D5 (D4b) - Predrilling (2 nos)	12.00	11-Oct-14	0%	12.00	24-Oct-14	29-Aug-14	12-Sep-14	-34.00	0.00	0%																
GFXX240-2	D5 (D4b) - Confirm Rockhead Levels	8.00	25-Oct-14	0%	8.00	03-Nov-14	13-Sep-14	22-Sep-14	-34.00	0.00	0%																
GFXX241	D5 (D4b) - Bored Piles (2.35m dia. x 2 nos)	78.00	25-Oct-14	0%	78.00	27-Jan-15	13-Sep-14	15-Dec-14	-34.00	0.00	0%																
Pier D6 (D4a)																											
Foundation Works																											
GFXX234	D6 (D4a) - Inst.Temp.Working Platform	10.00	03-Oct-14	0%	10.00	14-Oct-14	23-Aug-14	03-Sep-14	-32.00	0.00	0%																
GFXX235	D6 (D4a) - Predrilling (3 nos)	10.00	15-Oct-14	0%	10.00	25-Oct-14	04-Sep-14	16-Sep-14	-32.00	0.00	0%																
GFXX235-2	D6 (D4a) - Confirm Rockhead Levels	8.00	27-Oct-14	0%	8.00	04-Nov-14	17-Sep-14	25-Sep-14	-32.00	0.00	0%																
GFXX236	D6 (D4a) - Bored Piles (2.00m dia. x 3 nos)	62.00	27-Oct-14	0%	62.00	09-Jan-15	17-Sep-14	29-Nov-14	-32.00	0.00	0%																
Bridge D2																											
Pier D7 (D3e)																											
Foundation Works																											
GFXX229	D7 (D3e) - Inst.Temp.Working Platform	10.00	12-Nov-14	0%	10.00	22-Nov-14	13-Sep-14	24-Sep-14	-49.00	0.00	0%																
GFXX230	D7 (D3e) - Predrilling (2 nos)	12.00	24-Nov-14	0%	12.00	06-Dec-14	25-Sep-14	10-Oct-14	-49.00	0.00	0%																
GFXX230-2	D7 (D3e) - Confirm Rockhead Levels	8.00	08-Dec-14	0%	8.00	16-Dec-14	11-Oct-14	20-Oct-14	-49.00	0.00	0%																
GFXX231	D7 (D3e) - Bored Piles (2.35m dia. x 2 nos)	67.00	08-Dec-14	0%	67.00	02-Mar-15	11-Oct-14	30-Dec-14	-49.00	0.00	0%																
Pier D8 (D3d)																											
Preliminary Works for Land Piling																											
GFXX432	D8 (D3d) - Set up for Pregrouting	5.00	22-Aug-14 A	100%	0.00	28-Aug-14 A					100%																
GFXX433-1	D8 (D3d) - Pregrouting Works	30.00	29-Aug-14 A	0%	30.00	28-Oct-14	26-Jul-18	29-Aug-18	136.00	16.00	0%																
PD080030	D8 (D3d) - Erect MTR protective fence / remove existing fence	12.00	07-Aug-14 A	100%	0.00	21-Aug-14 A					100%																
PD080032	D8 (D3d) - Install Geo. Instru. & Baseline Monitoring	36.00	22-Sep-14	0%	36.00	04-Nov-14	06-Jul-18	16-Aug-18	119.00	0.00	0%																
PD080040	D8 (D3d) - Set up piling platform	10.00	05-Nov-14	0%	10.00	15-Nov-14	17-Aug-18	29-Aug-18	008.00	0.00	0%																
PD080050	D8 (D3d) - Complete Civil Preparation Works for piling to commence	0.00		0%	0.00	15-Nov-14		29-Aug-18	008.00	1008.00	0%																
Socketted H-Pile Installation																											
GFXX470	D8 (D3d) - Predrilling (2 Nr)	17.00	25-Jul-14 A	47.06%	9.00	03-Oct-14	31-Jul-14	09-Aug-14	-44.00	0.00	50%																
GFXX470-1	D8 (D3d) - Confirm Rockhead Levels	8.00	04-Oct-14	0%	8.00	13-Oct-14	11-Aug-14	19-Aug-14	-44.00	0.00	0%																
GFXX471	D8 (D3d) - Installation of SH Pile (16 nr)	122.00	14-Oct-14	0%	122.00	11-Mar-15	20-Aug-14	15-Jan-15	-44.00	0.00	0%																
Pier D9 (D3c)																											
Preliminary Works for Land Piling																											
PD090010	D9 (D3c) - Erect MTR boundary fence / remove existing fence	12.00	26-Sep-14	0%	12.00	13-Oct-14	15-Aug-18	29-Aug-18	036.00	1036.00	0%																
Socketted H-Pile Installation																											
GFXX465-1	D9 (D3c) - Confirm Rockhead Levels	8.00	22-Sep-14	0%	8.00	30-Sep-14	24-Jul-14	01-Aug-14	-50.00	68.00	0%																
Pier D10 (D3b)																											
Preliminary Works for Land Piling																											
PD100020	D10 (D3b) - Set up piling platform	10.00	23-Jul-14 A	0%	10.00	04-Oct-14	17-Aug-18	29-Aug-18	042.00	0.00	0%																
PD100030	D10 (D3b) - Complete Civil Preparation Works for piling to commence	0.00		0%	0.00	04-Oct-14		29-Aug-18	042.00	1042.00	0%																
Socketted H-Pile Installation																											

	Project ID: J3518DWPPrD1-M16 Layout: J3518-DWP-3MRP Submission - M16 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 27 of 35 Pages) (Progress as of 21-Sep-14)	<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>29-Jul-14</td> <td></td> <td>FZ</td> <td></td> </tr> <tr> <td>29-Aug-14</td> <td></td> <td>FZ</td> <td></td> </tr> <tr> <td>07-Oct-14</td> <td></td> <td></td> <td></td> </tr> </table>	Date	Revision	Checked	Approved	29-Jul-14		FZ		29-Aug-14		FZ		07-Oct-14				DWG. No.: J3518/GCL/PGM/3MRP-M16
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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	2014															
												September				October				November				December			
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08
GFXX460-1	D10 (D3b) - Predrilling (2 Nr)	17.00	14-Aug-14 A	50%	8.50	03-Oct-14	19-May-14	28-May-14	105.00	0.00	50%																
GFXX460-4	D10 (D3b) - Confirm Rockhead Levels	8.00	03-Oct-14	0%	8.00	13-Oct-14	22-Jul-14	30-Jul-14	-60.50	0.00	0%																
GFXX461-1	D10 (D3b) - Installation of SH Pile (12 nr)	153.00	13-Oct-14	0%	153.00	21-Apr-15	31-Jul-14	31-Jan-15	-60.50	0.00	0%																
Pier D11 (D3a)																											
Preliminary Works for Land Piling																											
PD110020	D11 (D3a) - Set up piling platform	10.00	23-Jul-14 A	0%	10.00	04-Oct-14	02-May-14	17-May-14	-92.00	0.00	0%																
PD110030	D11(D3a) - Complete Civil Preparation Works for piling to commence	0.00		0%	0.00	04-Oct-14		17-May-14	-92.00	0.00	0%																
Socketted H-Pile Installation																											
GFXX460-2	D11 (D3a) - Predrilling	17.00	06-Oct-14	0%	17.00	24-Oct-14	19-May-14	07-Jun-14	-115.00	0.00	0%																
GFXX460-5	D11 (D3a) - Confirm Rockhead Levels	8.00	25-Oct-14	0%	8.00	03-Nov-14	09-Jun-14	17-Jun-14	-115.00	0.00	0%																
GFXX461-2	D11 (D3a) - Installation of SH Pile (14 nr)	153.00	04-Nov-14	0%	153.00	13-May-15	18-Jun-14	17-Dec-14	-115.00	0.00	0%																
Pier D12 (D2e)																											
Preliminary Works for Land Piling																											
PD120012	D12 (D2e) - Install Geo. Instru. & Baseline Monitoring	36.00	22-Sep-14	0%	36.00	04-Nov-14	19-Jul-18	29-Aug-18	130.00	1130.00	0%																
PD120030	D12 (D2e) - Complete Civil Preparation Works for piling to commence	0.00		0%	0.00	22-Sep-14		15-Aug-14	-26.00	10.00	0%																
Socketted H-Pile Installation																											
GFXX460-3	D12 (D2e) - Predrilling	17.00	06-Oct-14	0%	17.00	24-Oct-14	16-Aug-14	04-Sep-14	-40.00	0.00	0%																
GFXX460-6	D12 (D2e) - Confirm Rockhead Levels	8.00	25-Oct-14	0%	8.00	03-Nov-14	05-Sep-14	15-Sep-14	-40.00	0.00	0%																
GFXX461-3	D12 (D2e) - Installation of SH Pile (16 nr)	153.00	04-Nov-14	0%	153.00	13-May-15	16-Sep-14	21-Mar-15	-40.00	0.00	0%																
Pier D13 (D2d)																											
Socketted H-Pile Installation																											
GFXX452-8	D13 (D2d) - Confirm Rockhead Levels	8.00	31-May-14 A	0%	8.00	30-Sep-14	03-Feb-15	11-Feb-15	110.00	0.00	0%																
GFXX454	D13 (D2d) - Installation of SH Pile (16 nos)	71.00	03-Oct-14	0%	71.00	24-Dec-14	12-Feb-15	14-May-15	110.00	0.00	0%																
Bridge D1																											
Pier D14 (D2c)																											
Socketted H-Pile Installation																											
GFXX445-	D14 (D2c) - Confirm Rockhead Levels	8.00	17-Jun-14 A	0%	8.00	30-Sep-14	08-Jul-14	16-Jul-14	-64.00	0.00	0%																
GFXX446-	D14 (D2c) - Installation of SH Pile (10 nr)	121.00	03-Oct-14	0%	121.00	27-Feb-15	17-Jul-14	08-Dec-14	-64.00	0.00	0%																
Pier D15 (D2b)																											
Preliminary Works for Land Piling																											
PD150012	D15 (D2b) - Install Geo. Instru. & Baseline Monitoring	36.00	26-Jul-14 A	0%	36.00	04-Nov-14	14-Apr-14	30-May-14	130.00	0.00	0%																
PD150020	D15 (D2b) - Set up piling platform	20.00	05-Nov-14	0%	20.00	27-Nov-14	31-May-14	07-Jul-14	107.00	0.00	0%																
PD150030	D15 (D2b) - Complete Civil Preparation Works for piling to commence	0.00		0%	0.00	27-Nov-14		07-Jul-14	107.00	0.00	0%																
Socketted H-Pile Installation																											
GFXX445-2	D15 (D2b) - Predrilling	18.00	28-Nov-14	0%	18.00	18-Dec-14	08-Jul-14	28-Jul-14	120.00	0.00	0%																
GFXX445-4	D15 (D2b) - Confirm Rockhead Levels	8.00	19-Dec-14	0%	8.00	30-Dec-14	29-Jul-14	06-Aug-14	120.00	0.00	0%																
Pier D16 (D2a)																											
Preliminary Works for Land Piling																											
PD160012	D16 (D2a) - Install Geo. Instru. & Baseline Monitoring	36.00	26-Jul-14 A	0%	36.00	04-Nov-14	22-Jun-18	03-Aug-18	108.00	20.00	0%																
PD160020	D16 (D2a) - Set up piling platform	20.00	28-Nov-14	0%	20.00	20-Dec-14	04-Aug-18	29-Aug-18	978.00	978.00	0%																
Socketted H-Pile Installation																											
GFXX445-5	D16 (D2a) - Confirm Rockhead Levels	8.00	23-Jul-14 A	100%	0.00	01-Sep-14 A					100%																
GFXX446-3	D16 (D2a) - Installation of SH Pile (13 nr)	121.00	02-Sep-14 A	6.61%	113.00	06-Feb-15	15-Jul-14	27-Nov-14	-58.00	0.00	6.61%																
Pier D17 (D1d)																											
Socketted H-Pile Installation																											
GFXX439-1	D17 (D1d) - Installation of SH Pile (10 nr)	70.00	14-Aug-14 A	17.14%	58.00	01-Dec-14	04-Dec-14	13-Feb-15	61.00	0.00	17.14%																
Pier D18 (D1c)																											
Socketted H-Pile Installation																											

Actual Work
 Planned Bar
 Critical Bar
 Milestone

Project ID: J3518DWPPrD1-M16
 Layout: J3518-DWP-3MRP Submission - M16
 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 28 of 35 Pages)
(Progress as of 21-Sep-14)

Date	Revision	Checked	Approved
29-Jul-14		FZ	
29-Aug-14		FZ	
07-Oct-14			

DWG. No.:
J3518/GCL/PGM/3MRP-M16

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	2014																
												September				October				November				December				
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08	15
GFXX439-2	D18 (D1c) - Installation of SH Pile (10 nr)	70.00	09-Aug-14 A	31.43%	48.00	18-Nov-14	07-Nov-14	05-Jan-15	38.00	0.00	32.28%	[Gantt bar: 09-Aug-14 to 05-Jan-15]																
GFXX439-5	D18 (D1c) - Selction of pile for Loading test	24.00	15-Dec-14	0%	24.00	14-Jan-15	31-Jan-15	03-Mar-15	38.00	0.00	0%	[Gantt bar: 14-Jan-15 to 03-Mar-15]																
Pier D19 (D1b) & Abutment D																												
Socketted H-Pile Installation																												
GFXX439-3	D19 (D1b) - Installation of SH Pile (6 nr)	70.00	29-Jul-14 A	42.86%	40.00	08-Nov-14	18-Nov-14	06-Jan-15	47.00	0.00	44.13%	[Gantt bar: 29-Jul-14 to 06-Jan-15]																
Viaduct E																												
Viaduct E1																												
Bridge E1 - Piling & Substructure																												
Milestones																												
GFXX023A	E1D (E1a1) - Start date for piling	0.00	22-Sep-14	0%	0.00		10-Oct-14		14.13	0.00	0%	[Milestone: 10-Oct-14]																
GFXX023A	E1C (E1a2) - Start date for piling	0.00	22-Sep-14	0%	0.00		10-Oct-14		14.13	0.00	0%	[Milestone: 10-Oct-14]																
GFXX023A	E1B (E1a3) - Start date for piling	0.00	22-Sep-14	0%	0.00		10-Oct-14		14.13	0.00	0%	[Milestone: 10-Oct-14]																
GFXX023A	E1A (E1a4) - Start date for piling	0.00	22-Sep-14	0%	0.00		10-Oct-14		14.13	0.00	0%	[Milestone: 10-Oct-14]																
GFXX028A	E2C/E2D (E1b2/E1b1) - Start date for piling	0.00	22-Sep-14	0%	0.00		17-Jul-14		-56.00	0.00	0%	[Milestone: 17-Jul-14]																
GFXX028A	E2B (E1b3) - Start date for piling	0.00	22-Sep-14	0%	0.00		17-Jul-14		-56.00	0.00	0%	[Milestone: 17-Jul-14]																
GFXX028A	E2A (E1b4) - Start date for piling	0.00	22-Sep-14	0%	0.00		17-Jul-14		-56.00	0.00	0%	[Milestone: 17-Jul-14]																
GFXX031-1	E1D (E1a1) - Piling Works Completion	0.00		0%	0.00	13-Nov-14		20-Jan-16	350.75	257.00	0%	[Milestone: 20-Jan-16]																
GFXX031-2	E1C (E1a2) - Piling Works Completion	0.00		0%	0.00	13-Nov-14		17-Mar-15	99.88	118.00	0%	[Milestone: 17-Mar-15]																
GFXX031-3	E1B (E1a3) - Piling Works Completion	0.00		0%	0.00	13-Nov-14		09-Jan-15	46.00	105.00	0%	[Milestone: 09-Jan-15]																
GFXX031-4	E1A (E1a4) - Piling Works Completion	0.00		0%	0.00	13-Nov-14		01-Dec-14	14.13	0.00	0%	[Milestone: 01-Dec-14]																
E1A, E1B, E1C & E1D (E1a1-2-3-4)																												
Foundation Works E1A, E1B, E1C & E1D																												
Foundation Works																												
GFXX02	E1A/E1B/E1C/E1D (E1a4/3/2/1) - Confirm Rockhead levels	8.00	05-Jul-14 A	75%	2.00	23-Sep-14	28-Aug-18	29-Aug-18	164.00	1164.00	79%	[Gantt bar: 05-Jul-14 to 29-Aug-18]																
GFXX02	E1A/E1B/E1C/E1D (E1a4/3/2/1) - Bored Piles (2.00m dia. x 8 nos)	125.00	09-Jul-14 A	91.2%	11.00	06-Oct-14	10-Oct-14	23-Oct-14	14.13	0.00	90.99%	[Gantt bar: 09-Jul-14 to 23-Oct-14]																
GFXX02	E1A/E1B/E1C/E1D (E1a4/3/2/1) - Sonic & Interface Coring	44.00	22-Sep-14	0%	44.00	13-Nov-14	10-Oct-14	01-Dec-14	14.13	0.00	0%	[Gantt bar: 22-Sep-14 to 01-Dec-14]																
GFXX02	E1A/E1B/E1C/E1D (E1a4/3/2/1) - Dismantle Temporary Piling Platform in Pier E1	7.00	06-Nov-14	0%	7.00	13-Nov-14	22-Nov-14	01-Dec-14	14.13	0.00	0%	[Gantt bar: 06-Nov-14 to 01-Dec-14]																
Pile Cap Works - E1A, E1B, E1C & E1D																												
Pile Cap Works - E1A (E1a4)																												
SE1A4070	E1A (E1a4) - Marine Pile Cap - Inst.prefab.collar frame to perm.casing of Bored pile	4.00	14-Nov-14	0%	4.00	18-Nov-14	01-Dec-14	05-Dec-14	14.13	94.00	0%	[Gantt bar: 14-Nov-14 to 05-Dec-14]																
E2A, E2B, E2C & E2D (E1b1-2-3-4)																												
Foundation Works - E2A, E2B, E2C & E2D																												
Foundation Works																												
GFXX02	E2A/E2B/E2C/E2D (E1b4/3/2/1) - Inst.Temp.Working Platforms (Heavy & Light)	34.00	28-Jun-14 A	100%	0.00	12-Sep-14 A					100%	[Gantt bar: 28-Jun-14 to 12-Sep-14]																
GFXX02	E2A/E2B/E2C/E2D (E1b4/3/2/1) - Predrilling (7 nos)	21.00	25-Aug-14 A	71.42%	6.00	29-Sep-14	25-Mar-17	01-Apr-17	744.00	79.00	71.42%	[Gantt bar: 25-Aug-14 to 01-Apr-17]																
GFXX02	E2A/E2B/E2C/E2D (E1b4/3/2/1) - Confirm Rockhead levels	8.00	28-Aug-14 A	12.5%	7.00	29-Sep-14	20-Oct-14	27-Oct-14	22.00	78.00	12%	[Gantt bar: 28-Aug-14 to 27-Oct-14]																
GFXX02	E2A/E2B/E2C/E2D (E1b4/3/2/1) - Bored Piles (2.00m dia. x 7 nr)	88.00	05-Sep-14 A	3.41%	85.00	03-Jan-15	17-Jul-14	27-Oct-14	-56.00	0.00	4.25%	[Gantt bar: 05-Sep-14 to 27-Oct-14]																
GFXX02	E2A/E2B/E2C/E2D (E1b4/3/2/1) - Sonic & Interface Coring	34.00	20-Dec-14	0%	34.00	31-Jan-15	16-Oct-14	24-Nov-14	-56.00	0.00	0%	[Gantt bar: 20-Dec-14 to 24-Nov-14]																
Viaduct E2																												
Bridge E2 - Piling & Substructure																												
Milestones																												
GFXX075	E3 (E2a) - Completion of piling works	0.00		0%	0.00	18-Nov-14		03-Nov-14	-13.00	22.00	0%	[Milestone: 03-Nov-14]																
GFXX076	E4 (E2b) - Completion of piling works	0.00		0%	0.00	26-Sep-14		14-Aug-14	-36.13	73.00	0%	[Milestone: 14-Aug-14]																
GFXX077-5	E9 (E2g) - Completion of piling works	0.00		0%	0.00	27-Oct-14		26-Mar-15	123.00	41.00	0%	[Milestone: 26-Mar-15]																
GFXX078	E10 (E2h) - Completion of piling works	0.00		0%	0.00	12-Nov-14		26-Nov-14	12.00	27.00	0%	[Milestone: 26-Nov-14]																
E3A, E3B, E3C & E3D (E2a - 1/2/3/4)																												
Foundation Works - E3A, E3B, E3C & E3D																												
Foundation Works																												

█ Actual Work
█ Planned Bar
█ Critical Bar
◆ Milestone

Project ID: J3518DWPPrD1-M16
 Layout: J3518-DWP-3MRP Submission - M16
 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 29 of 35 Pages)
(Progress as of 21-Sep-14)

Date	Revision	Checked	Approved
29-Jul-14		FZ	
29-Aug-14		FZ	
07-Oct-14			

DWG. No.:
J3518/GCL/PGM/3MRP-M16

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	2014															
												September				October				November				December			
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08
GFXX038	E3 (E2a) - Sonic & Interface Coring x6no.	20.00	03-Aug-14 A	100%	0.00	30-Aug-14 A					100%	[Gantt bar: 03-Aug-14 to 30-Aug-14, 100% complete]															
GFXX03	E3 (E2a) - Selection of bored pile for Full Depth Coring	24.00	22-Sep-14	0%	24.00	21-Oct-14	05-Sep-14	06-Oct-14	-13.00	0.00	0%	[Gantt bar: 05-Sep-14 to 06-Oct-14, 0% complete]															
GFXX03	E3 (E2a) - Bored Pile Full Depth Coring & Testing	24.00	22-Oct-14	0%	24.00	18-Nov-14	07-Oct-14	03-Nov-14	-13.00	0.00	0%	[Gantt bar: 07-Oct-14 to 03-Nov-14, 0% complete]															
GFXX039	E3 (E2a) - Dismantle Temporary Removable Piling Platform	5.00	10-Sep-14 A	100%	0.00	13-Sep-14 A					100%	[Gantt bar: 10-Sep-14 to 13-Sep-14, 100% complete]															
Pile Cap Works - E3A, E3B, E3C & E3D																											
Pile Cap Works																											
SE2A1070	E3 (E2a1/2/3/4)- Marine Pile Cap - Inst.Floating Seal & Casing Head Steelwork	8.00	15-Dec-14	0%	8.00	23-Dec-14	04-Nov-14	12-Nov-14	-35.00	29.00	0%	[Gantt bar: 04-Nov-14 to 12-Nov-14, 0% complete]															
E4A & E4B (E2b - 1/2)																											
Foundation Works - E4A & E4B																											
Foundation Works																											
GFXX042	E4 (E2b) - Bored Piles (2.20m dia. x 4 nos)	90.00	19-Jun-14 A	100%	0.00	23-Aug-14 A					100%	[Gantt bar: 19-Jun-14 to 23-Aug-14, 100% complete]															
GFXX043	E4 (E2b) - Sonic & Interface Coring x 4no.	12.00	30-Aug-14 A	100%	0.00	11-Sep-14 A					100%	[Gantt bar: 30-Aug-14 to 11-Sep-14, 100% complete]															
GFXX044	E4 (E2b) - Dismantle Temporary Removable Piling Platform	5.00	22-Sep-14	0%	5.00	26-Sep-14	25-Jul-14	31-Jul-14	-48.13	0.00	0%	[Gantt bar: 25-Jul-14 to 31-Jul-14, 0% complete]															
Pile Cap Works - E4A & E4B																											
Pile Cap Works																											
SE2B0070	E4 (E2b1/2) - Marine Pile Cap - Inst.Floating Seal & Casing Head Steelwork	8.00	15-Dec-14	0%	8.00	23-Dec-14	31-Jul-14	14-Aug-14	100.13	0.00	0%	[Gantt bar: 31-Jul-14 to 14-Aug-14, 0% complete]															
E5A & E5B (E2c - 1/2)																											
Foundation Works - E5A & E5B																											
Foundation Works																											
GFXX04	E5 (E2c) - Inst.Temp.Working Platform (Light)	7.00	22-Sep-14	0%	7.00	29-Sep-14	17-Jul-14	24-Jul-14	-56.00	0.00	0%	[Gantt bar: 17-Jul-14 to 24-Jul-14, 0% complete]															
GFXX046	E5 (E2c) - Predrilling (4 nos)	22.00	30-Sep-14	0%	22.00	27-Oct-14	13-Oct-14	06-Nov-14	9.00	0.00	0%	[Gantt bar: 13-Oct-14 to 06-Nov-14, 0% complete]															
GFXX04	E5 (E2c) - Confirm Rockhead levels	8.00	28-Oct-14	0%	8.00	05-Nov-14	07-Nov-14	15-Nov-14	9.00	65.00	0%	[Gantt bar: 07-Nov-14 to 15-Nov-14, 0% complete]															
E6A & E6B (E2d - 1/2)																											
Foundation Works - E6A & E6B																											
Foundation Works																											
GFXX050	E6 (E2d) - Inst.Temp.Working Platform (Heavy)	18.00	22-Sep-14	0%	18.00	14-Oct-14	04-Jul-14	24-Jul-14	-67.00	0.00	0%	[Gantt bar: 04-Jul-14 to 24-Jul-14, 0% complete]															
GFXX05	E6 (E2d) - Inst.Temp.Working Platform (Light)	7.00	15-Oct-14	0%	7.00	22-Oct-14	25-Jul-14	01-Aug-14	-67.00	0.00	0%	[Gantt bar: 25-Jul-14 to 01-Aug-14, 0% complete]															
GFXX051	E6 (E2d) - Predrilling (4 nos)	18.00	23-Oct-14	0%	18.00	12-Nov-14	27-Nov-14	17-Dec-14	30.00	0.00	0%	[Gantt bar: 27-Nov-14 to 17-Dec-14, 0% complete]															
GFXX05	E6 (E2d) - Confirm Rockhead levels	8.00	13-Nov-14	0%	8.00	21-Nov-14	18-Dec-14	29-Dec-14	30.00	183.00	0%	[Gantt bar: 18-Dec-14 to 29-Dec-14, 0% complete]															
E7A & E7B (E2e - 1/2)																											
Foundation Works - E7A & E7B																											
Foundation Works																											
GFXX055	E7 (E2e) - Inst.Temp.Working Platforms (Heavy)	19.00	23-Oct-14	0%	19.00	13-Nov-14	02-Aug-14	23-Aug-14	-67.00	0.00	0%	[Gantt bar: 02-Aug-14 to 23-Aug-14, 0% complete]															
GFXX05	E7 (E2e) - Inst.Temp.Working Platforms (Light)	7.00	14-Nov-14	0%	7.00	21-Nov-14	25-Aug-14	01-Sep-14	-67.00	0.00	0%	[Gantt bar: 25-Aug-14 to 01-Sep-14, 0% complete]															
GFXX056	E7 (E2e) - Predrilling (5 nos)	26.00	22-Nov-14	0%	26.00	22-Dec-14	18-Oct-14	17-Nov-14	-30.00	0.00	0%	[Gantt bar: 18-Oct-14 to 17-Nov-14, 0% complete]															
E8A & E8B (E2f - 1/2)																											
Foundation Works - E8A & E8B																											
Foundation Works																											
GFXX060	E8 (E2f) - Inst.Temp.Working Platforms (Heavy)	32.00	22-Nov-14	0%	32.00	31-Dec-14	02-Sep-14	11-Oct-14	-67.00	0.00	0%	[Gantt bar: 02-Sep-14 to 11-Oct-14, 0% complete]															
GFXX06	E8 (E2f) - Relocation & Install Temporary Removable Platform from E3, Plant & Equipment fr	7.00	14-Oct-14	0%	7.00	21-Oct-14	12-Nov-14	19-Nov-14	25.00	92.00	0%	[Gantt bar: 12-Nov-14 to 19-Nov-14, 0% complete]															
E9A & E9B (E2g - 1/2)																											
Foundation Works - E9A & E9B																											
Foundation Works																											
GFXX067	E9 (E2g) - Bored Piles (2.00m dia. x 6 nr)	105.00	17-May-14 A	90.48%	10.00	04-Oct-14	18-Feb-15	04-Mar-15	123.00	0.00	91.01%	[Gantt bar: 18-Feb-15 to 04-Mar-15, 91.01% complete]															
GFXX068	E9 (E2g) - Sonic & Interface Coring	12.00	06-Oct-14	0%	12.00	18-Oct-14	05-Mar-15	18-Mar-15	123.00	0.00	0%	[Gantt bar: 05-Mar-15 to 18-Mar-15, 0% complete]															
GFXX069	E9 (E2g) - Dismantle temp. removable piling platform	7.00	20-Oct-14	0%	7.00	27-Oct-14	19-Mar-15	26-Mar-15	123.00	0.00	0%	[Gantt bar: 19-Mar-15 to 26-Mar-15, 0% complete]															
Pile Cap Works - E9A & E9B																											
Pile Cap Works																											

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

Project ID: J3518DWPPrD1-M16
 Layout: J3518-DWP-3MRP Submission - M16
 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 30 of 35 Pages)
(Progress as of 21-Sep-14)

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29-Jul-14		FZ	
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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	2014																
												September			October			November			December							
												25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08	15
RP10020	Construct new ESS-C Sub.Stn. adjacent to Viaduct C	48.00	13-Aug-14 A	20.83%	38.00	08-Nov-14	22-Sep-14	08-Nov-14	0.00	0.00	20%																	
RP10030	Inst.Eqpt. & Testing / commissioning of new ESS	60.00	10-Nov-14	0%	60.00	21-Jan-15	10-Nov-14	21-Jan-15	0.00	0.00	0%																	
Viaduct C Slope Works																												
Slope 10NW-C/C22																												
SWVC1000	10NW-C/C22 - Slope works	18.00	15-Dec-14	0%	18.00	07-Jan-15	27-Oct-14	15-Nov-14	-42.00	0.00	0%																	
Natural Terrain Hazard Mitigation Works																												
NTHM Works - West Portion																												
NTW0010	DDA Approval for Natural Terrain Hazard Mitigation Measures	0.00		0%	0.00	21-Nov-14		20-Mar-15	85.00	0.00	0%																	
Check Dam no. 1 (CD1)																												
GFXX497	Predrilling Works for Check Dams	25.00	22-Nov-14	0%	25.00	20-Dec-14	23-Mar-15	29-Apr-15	97.00	0.00	0%																	
GFXX499	CD1 - Mobilization of rig for MiniPile	6.00	15-Dec-14	0%	6.00	20-Dec-14	22-Apr-15	29-Apr-15	97.00	0.00	0%																	
Watermains & All Assoc Works from Tung Chung to Southern Landfall																												
WM00100	Prepare / submit TTMS for watermain laying along realigned CTR	72.00	22-Sep-14	0%	72.00	18-Dec-14	08-Sep-14	06-Dec-14	-10.00	0.00	0%																	
WM00110	TTMS approval for watermain laying along realigned CTR	48.00	19-Dec-14	0%	48.00	16-Feb-15	08-Dec-14	04-Feb-15	-10.00	0.00	0%																	

<ul style="list-style-type: none"> Actual Work Planned Bar Critical Bar Milestone 	Project ID: J3518DWPrD1-M16 Layout: J3518-DWP-3MRP Submission - M16 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 35 of 35 Pages) (Progress as of 21-Sep-14)	Date	Revision	Checked	Approved	DWG. No.: J3518/GCL/PGM/3MRP-M16
			29-Jul-14		FZ		
			29-Aug-14		FZ		
			07-Oct-14				

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-Chek Lap
Kok Link - Investigation. Updated EM&A Manual for
Tuen Mun-Chek Lap Kok Link)

*Contract No. HY/2012/07
Tuen Mun – Chek Lap Kok Link
Southern Connection Viaduct Section
Environmental Mitigation and Enhancement Measure Implementation Schedule*

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									
<i>General Marine Works</i>									
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		✓
<i>Temporary Staging work</i>									
	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						
<i>Land Works</i>									
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		✓
<i>Water Quality Monitoring</i>									
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			✓
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 (donor 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		✓
7.13	6.5	Undertaken gabion wall works in Stream NL1 in the dry season	North Lantau slope works/dry	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	
			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		<>
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		n/a
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		✓
10.9	7.6	Recycle/ Reuse all felled trees and vegetation, e.g.	All areas/ detailed	Design	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	
		mulching (CM9)	design/ during construction	Consultant/ Contractor					
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 (OM4)	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	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and	All areas/detailed design/ during	Design Consultant/	TMEIA	Y	Y	Y	n/a. To be

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		finishes	construction / during operation	Contractor					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 where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	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	
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			✓
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 materials should avoid over-ordering and wastage.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	The Contractor should recycle as many C&D	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	
		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.	construction period						
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: <ul style="list-style-type: none"> - 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; - Adequate ventilation; - Sufficiently covered to prevent rainfall entering 	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	
		(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 hardstanding;	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 paper if such volume is sufficiently large to warrant collection. Participation in a local	Site Offices/ 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	
		collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.							
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 $\mu\text{g}/\text{m}^3$	ASR9A/ASR8A = 178 ASR9C/ASR8 = 178	260
1 Hour TSP Level in $\mu\text{g}/\text{m}^3$	ASR9A/ASR8A = 394 ASR9C/ASR8 = 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)	<u>Surface and Middle</u> 5.0 mg/L	<u>Surface and Middle</u> 4.2 mg/L
	<u>Bottom</u> 4.7 mg/L	<u>Bottom</u> 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 : ASR 8(A)
 Calibrated by : P.F.Yeung
 Date : 05/09/2014

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 24 Mar 2014
 Slope (m) : 2.07593
 Intercept (b) : -0.00102
 Correlation Coefficient(r) : 0.99996

Standard Condition

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

Calibration Condition

Pa (hpa) : 1007
 Ta(K) : 305

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	12	3.414	1.645	57	56.18
2 13 holes	9.8	3.085	1.487	53	52.23
3 10 holes	7.1	2.626	1.265	47	46.32
4 7 holes	5.0	2.204	1.062	42	41.39
5 5 holes	2.9	1.678	0.809	35	34.49

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): 25.873 Intercept(b): 13.687 Correlation Coefficient(r): 0.9998

Checked by: Magnum Fan

Date: 07/09/2014

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR8
 Calibrated by : P.F.Yeung
 Date : 05/09/2014

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 24 Mar 2014
 Slope (m) : 2.07593
 Intercept (b) : -0.00102
 Correlation Coefficient(r) : 0.99996

Standard Condition

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

Calibration Condition

Pa (hpa) : 1005
 Ta(K) : 305

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	11.6	3.357	1.617	55	54.20
2 13 holes	9.7	3.069	1.479	50	49.28
3 10 holes	7.0	2.607	1.257	44	43.36
4 7 holes	4.8	2.159	1.041	38	37.45
5 5 holes	2.7	1.619	0.781	30	29.57

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): 28.870 Intercept(b): 7.122 Correlation Coefficient(r): 0.9993

Checked by: Magnum Fan

Date: 07/09/2014



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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 24, 2014 Rootmeter S/N 0438320 Ta (K) - 293
 Operator Tisch Orifice I.D. - 2454 Pa (mm) - 758.19

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	1.4740	3.2	2.00
2	NA	NA	1.00	1.0340	6.4	4.00
3	NA	NA	1.00	0.9240	7.9	5.00
4	NA	NA	1.00	0.8820	8.8	5.50
5	NA	NA	1.00	0.7270	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
1.0103	0.6854	1.4245	0.9958	0.6755	0.8791
1.0061	0.9730	2.0146	0.9916	0.9590	1.2433
1.0040	1.0866	2.2524	0.9895	1.0709	1.3900
1.0028	1.1370	2.3623	0.9884	1.1206	1.4579
0.9976	1.3722	2.8491	0.9832	1.3524	1.7583
Qstd slope (m)	=	2.07593	Qa slope (m)	=	1.29991
intercept (b)	=	-0.00102	intercept (b)	=	-0.00063
coefficient (r)	=	0.99996	coefficient (r)	=	0.99996

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

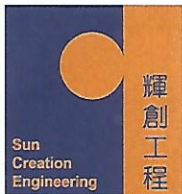
CALCULATIONS

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. : C143980

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC14-1497)

Date of Receipt / 收件日期 : 23 June 2014

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.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
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 : 28 June 2014

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.

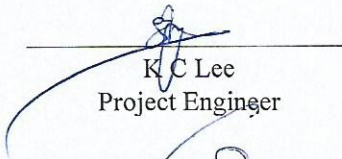
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

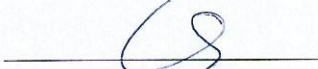
Tested By :

測試


K C Lee
Project Engineer

Certified By :

核證


K M Wu
Engineer

Date of Issue :

簽發日期

2 July 2014

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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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. : C143980
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C143868
CL281	Multifunction Acoustic Calibrator	DC130171
TST150A	Measuring Amplifier	C141558

- Test procedure : MA100N.

- 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	0.987	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.

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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. : C144558

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC14-1853)

Date of Receipt / 收件日期 : 22 July 2014

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.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
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 : 29 July 2014

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within 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
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By :

測試


K C Lee
Project Engineer

Certified By :

核證


K M Wu
Engineer

Date of Issue :

簽發日期

30 July 2014

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Website/網址: www.suncreation.com

Page 1 of 4

Certificate of Calibration

校正證書

Certificate No. : C144558

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 :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C140016
CL281	Multifunction Acoustic Calibrator	DC130171

5. Test procedure : MA101N.

6. Results :

- 6.1 Sound Pressure Level

- 6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	93.6	± 1.1

- 6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 120	L _A	A	Fast	94.00	1	93.6 (Ref.)
				104.00		103.6
				114.00		113.6

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 Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	93.6	Ref.
			Slow			93.5	± 0.3

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Certificate of Calibration

校正證書

Certificate No. : C144558

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	67.3	-26.2 ± 1.5
					125 Hz	77.3	-16.1 ± 1.5
					250 Hz	84.9	-8.6 ± 1.4
					500 Hz	90.3	-3.2 ± 1.4
					1 kHz	93.6	Ref.
					2 kHz	94.9	+1.2 ± 1.6
					4 kHz	94.7	+1.0 ± 1.6
					8 kHz	92.5	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.7	-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	92.7	-0.8 ± 1.5
					125 Hz	93.4	-0.2 ± 1.5
					250 Hz	93.6	0.0 ± 1.4
					500 Hz	93.6	0.0 ± 1.4
					1 kHz	93.6	Ref.
					2 kHz	93.5	-0.2 ± 1.6
					4 kHz	92.9	-0.8 ± 1.6
					8 kHz	90.6	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

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Certificate of Calibration

校正證書

Certificate No. : C144558
證書編號

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.

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Tel/電話: 2927 2606

Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com



Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/010 Manufacturer : HACH
Model No. : 2100Q Serial No. : 11110 C 014260
Date of Calibration : 07/07/2014 Due Date : 06/10/2014

Ref. No. of Turbidity Standard used (4000NTU)

005/6.1/001/6


Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	20.2	1.00
100	104	4.00
800	794	-0.75

(*) 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 : 



Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/010 Manufacturer : HACH

Model No. : 2100Q Serial No. : 11110 C 014260

Date of Calibration : 06/10/2014 Due Date : 05/01/2015

Ref. No. of Turbidity Standard used (4000NTU)

005/6.1/001/7

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	20.6	3.00
100	102	2.00
800	790	-1.25

(*) 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 : hw

Checked by : 1266



Internal Calibration & Performance Check of pH Meter

Equipment Ref. No. : ET/EW/007/004 Manufacturer : HANNA
 Model No. : HI 8314 Serial No. : 8263193
 Date of Calibration : 08/09/2014 Calibration Due Date : 07/10/2014

Liquid Junction Error

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/001/19
 Temperature of Solution : 20.0 $\Delta\text{pH}_{\frac{1}{2}} = \underline{+0.08}$
 pH value of diluted buffer : 6.77 $\text{pH (S)} = \underline{6.881}$
 $\Delta\text{pH} = \text{pH(S)} - \text{pH of diluted buffer} = \underline{0.111}$ (Observed Deviation)
 Liquid Junction Error (ΔpH_j) = $\Delta\text{pH} - \Delta\text{pH}_{\frac{1}{2}} = \underline{0.031}$

Shift on Stirring

pH of buffer solution (with stirring), $\text{pH}_s = \underline{6.92}$
 Shift on stirring, $\Delta\text{pH}_s = \text{pH}_s - \text{pH(S)} - \Delta\text{pH}_j = \underline{0.008}$

Noise

Noise, $\Delta\text{pH}_n =$ difference between max and min reading : 0.01

Verification of ATC

Ref. No. of reference thermometer used: ET/0521/008
 Temperature record from the reference thermometer (T_R): 19.6 °C
 Temperature record from the ATC (T_{ATC}): 19.5 °C
 Temperature Difference, $|T_R - T_{ATC}|$: 0.1 °C

Acceptance Criteria

Performance Characteristic	Acceptable Range
Liquid Junction Error ΔpH_j	≤ 0.05
Shift on Stirring ΔpH_s	≤ 0.02
Noise ΔpH_n	≤ 0.02
Verification of ATC Temperature Difference	$\leq 0.5^\circ\text{C}$

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 : 

Internal Calibration & Performance Check of pH Meter

Equipment Ref. No. : ET/EW/007/004 Manufacturer : HANNA
 Model No. : HI 8314 Serial No. : 8263193
 Date of Calibration : 07/10/2014 Calibration Due Date : 06/11/2014

Liquid Junction Error

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/001/19
 Temperature of Solution : 20.0 $\Delta\text{pH}_{1/2} = \underline{+0.08}$
 pH value of diluted buffer : 6.79 pH (S) = 6.881
 $\Delta\text{pH} = \text{pH(S)} - \text{pH of diluted buffer} = \underline{0.09}$ (Observed Deviation)
 Liquid Junction Error (ΔpH_j) = $\Delta\text{pH} - \Delta\text{pH}_{1/2} = \underline{0.011}$

Shift on Stirring

pH of buffer solution (with stirring), $\text{pH}_s = \underline{6.90}$
 Shift on stirring, $\Delta\text{pH}_s = \text{pH}_s - \text{pH(S)} - \Delta\text{pH}_j = \underline{0.008}$

Noise

Noise, $\Delta\text{pH}_n = \text{difference between max and min reading} : \underline{0.01}$

Verification of ATC

Ref. No. of reference thermometer used: ET/0521/008
 Temperature record from the reference thermometer (T_R): 19.9 °C
 Temperature record from the ATC (T_{ATC}): 19.8 °C
 Temperature Difference, $|T_R - T_{ATC}|$: 0.1 °C

Acceptance Criteria

Performance Characteristic	Acceptable Range
Liquid Junction Error ΔpH_j	≤ 0.05
Shift on Stirring ΔpH_s	≤ 0.02
Noise ΔpH_n	≤ 0.02
Verification of ATC Temperature Difference	$\leq 0.5^\circ\text{C}$

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 : 



Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No. : <u>ET/EW/008/006</u>	Manufacturer : <u>YSI</u>
Model No. : <u>Pro 2030</u>	Serial No. : <u>12A 100554</u>
Date of Calibration : <u>17/09/2014</u>	Calibration Due Date : <u>16/12/2014</u>

Temperature Verification

Ref. No. of Reference Thermometer : ET/0521/008
 Ref. No. of Water Bath : ---

	Temperature (°C)			
	Measured	20.6	Corrected	20.0
Reference Thermometer reading	Measured	20.6	Corrected	20.0
DO Meter reading	Measured	19.8	Difference	0.2

Standardization of sodium thiosulphate (Na₂S₂O₃) solution

Reagent No. of Na ₂ S ₂ O ₃ titrant	CPE/012/4.5/001/8	Reagent No. of 0.025N K ₂ Cr ₂ O ₇	CPE/012/4.4/001/27
		Trial 1	Trial 2
Initial Vol. of Na ₂ S ₂ O ₃ (ml)		0.00	10.40
Final Vol. of Na ₂ S ₂ O ₃ (ml)		10.40	20.80
Vol. of Na ₂ S ₂ O ₃ used (ml)		10.40	10.40
Normality of Na ₂ S ₂ O ₃ solution (N)		0.02404	0.02404
Average Normality (N) of Na ₂ S ₂ O ₃ solution (N)		0.02404	
Acceptance criteria, Deviation		Less than ± 0.001N	

Calculation: Normality of Na₂S₂O₃, N = 0.25 / ml Na₂S₂O₃ used

Linearity Checking

*Determination of dissolved oxygen content by Winkler Titration **

Purging Time (min)	2		5		10	
	1	2	1	2	1	2
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	11.90	23.60	0.00	6.60	10.10
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.90	23.60	30.20	6.60	10.10	13.60
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	11.90	11.70	6.60	6.60	3.50	3.50
Dissolved Oxygen (DO), mg/L	7.68	7.55	4.26	4.26	2.26	2.26
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	7.71	7.67	7.69	7.68	7.55	7.62	0.91
5	4.20	4.18	4.19	4.26	4.26	4.26	1.66
10	2.36	2.38	2.37	2.26	2.26	2.26	4.75
Linear regression coefficient				0.9988			



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/012/4.7/002/25	Reagent No. of NaCl (30ppt)	CPE/012/4.8/002/25
-----------------------------	--------------------	-----------------------------	--------------------

Determination of dissolved oxygen content by Winkler Titration **

Salinity (ppt)	10		30	
	1	2	1	2
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	12.20	24.50	35.40
Final Vol. of Na ₂ S ₂ O ₃ (ml)	12.20	24.50	35.40	46.30
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	12.20	12.30	10.90	10.90
Dissolved Oxygen (DO), mg/L	7.87	7.94	7.03	7.03
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	7.79	7.81	7.8	7.87	7.94	7.91	1.40
30	6.92	6.94	6.93	7.03	7.03	7.03	1.43

Acceptance Criteria

- (1) Difference 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 :



Performance Check of Salinity Meter

Equipment Ref. No. : ET/EW/008/006 Manufacturer : YSI
Model No. : Pro 2030 Serial No. : 12A 100554
Date of Calibration : 17/09/2014 Due Date : 16/12/2014

Ref. No. of Salinity Standard used (30ppt)

S/001/5

Salinity Standard (ppt)	Measured Salinity (ppt)	Difference %
30.0	30.3	1.0

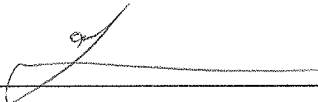
(*) Difference (%) = (Measured Salinity – Salinity Standard value) / Salinity Standard value x 100

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 : 29 May 2014

Brand of Test Meter: Global Water

Model: Speed Sensor: WE550 (S/N:EC0000)

Direction Sensor: WE570 (S/N:ED0000)

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)
0.23	0.2
1.25	1.2
2.06	2.2

Wind Direction Test

Global Wate (o)	Marine Compass (o)
269.99	270
0.00	0
90.01	90
180.01	180

Calibrated by:

Fai
Yeung Ping Fai
(Technical Officer)

Checked by :

Fat
Ho Kam Fat
(Senior Technical Officer)

Certificate of Calibration

校正證書

Certificate No. : C143205
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC14-1304)

Date of Receipt / 收件日期 : 19 May 2014

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.
Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

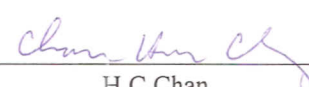
DATE OF TEST / 測試日期 : 26 May 2014

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 : _____
H S Chung
Technician

Certified By : 
核證 : _____
H C Chan
Engineer

Date of Issue : 27 May 2014
簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Certificate of Calibration

校正證書

Certificate No. : C143205
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- The results presented are the mean of 10 measurements at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL386	Multi-function Measuring Instrument	S12109

- Test procedure : MA130N.
- Results :

Air Velocity

Applied Value (m/s)	UUT Reading (m/s)	Measured Correction		
		Value (m/s)	Measurement Uncertainty	
			Expanded Uncertainty (m/s)	Coverage Factor
2.1	1.8	+0.3	0.2	2.0
4.1	4.0	+0.1	0.3	2.0
6.1	6.1	0.0	0.3	2.0
8.2	8.4	-0.2	0.3	2.0
10.1	10.4	-0.3	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.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本書所載校正用之測試器材均可溯源至國際標準。局部複印本書需先獲本實驗室所書面批准。

Appendix F

EM&A Monitoring Schedules

**HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Impact Marine Water Quality Monitoring (WQM) Schedule (October 14)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01-Oct	02-Oct	03-Oct	04-Oct
				WQM Mid-Flood 14:37 (12:52 - 16:22) Mid-Ebb 20:04 (19:50 - 21:15)		WQM Mid-Ebb 9:04 (07:19 - 10:49) Mid-Flood 16:31 (14:46 - 18:16)
05-Oct	06-Oct	07-Oct	08-Oct	09-Oct	10-Oct	11-Oct
		WQM Mid-Ebb 11:52 (10:07 - 13:37) Mid-Flood 18:19 (16:34 - 20:04)		WQM Mid-Ebb 13:21 (11:36 - 15:06) Mid-Flood 19:20 (17:35 - 21:05)		WQM Mid-Flood 9:02 (07:17 - 10:47) Mid-Ebb 14:46 (13:01 - 16:31)
12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct
		WQM Mid-Flood 11:51 (10:06 - 13:36) Mid-Ebb 16:57 (15:12 - 18:42)		WQM Mid-Ebb 6:17 (04:32 - 08:02) Mid-Flood 19:02 (17:17 - 20:47)		WQM Mid-Ebb 9:06 (07:21 - 10:51) Mid-Flood 16:25 (14:40 - 18:10)
19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct
		WQM Mid-Ebb 11:27 (09:42 - 13:12) Mid-Flood 17:38 (15:53 - 19:23)		WQM Mid-Ebb 12:36 (10:51 - 14:21) Mid-Flood 18:27 (16:42 - 20:12)		WQM Mid-Flood 7:59 (06:14 - 09:44) Mid-Ebb 13:49 (12:04 - 15:34)
26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	
		WQM Mid-Flood 10:26 (08:41 - 12:11) Mid-Ebb 16:00 (14:15 - 17:45)		WQM Mid-Flood 12:42 (10:57 - 14:27) Mid-Ebb 18:08 (16:30 - 19:45)		

**HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Impact Marine Water Quality Monitoring (WQM) Schedule (November 14)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Nov
						WQM Mid-Ebb 7:08 (05:38 - 08:53) Mid-Flood 15:04 (13:19 - 16:49)
02-Nov	03-Nov	04-Nov	05-Nov	06-Nov	07-Nov	08-Nov
		WQM Mid-Ebb 10:40 (08:55 - 12:25) Mid-Flood 17:07 (15:22 - 18:52)		WQM Mid-Ebb 12:18 (10:33 - 14:03) Mid-Flood 18:11 (16:26 - 19:56)		WQM Mid-Flood 8:13 (06:28 - 09:58) Mid-Ebb 13:49 (12:04 - 15:34)
09-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov
		WQM Mid-Flood 10:36 (08:51 - 12:21) Mid-Ebb 15:48 (14:03 - 17:33)		WQM Mid-Flood 12:25 (10:40 - 14:10) Mid-Ebb 17:10 (16:00 - 18:15)		WQM Mid-Flood 14:36 (12:51 - 16:21) Mid-Ebb 20:37 (18:52 - 22:22)
16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov
		WQM Mid-Ebb 10:00 (08:15 - 11:45) Mid-Flood 16:20 (14:35 - 18:05)		WQM Mid-Ebb 11:28 (09:43 - 13:13) Mid-Flood 17:14 (15:29 - 18:59)		WQM Mid-Flood 7:14 (05:29 - 08:59) Mid-Ebb 12:51 (11:06 - 14:36)
23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov
		WQM Mid-Flood 9:32 (07:47 - 11:17) Mid-Ebb 15:04 (13:19 - 16:49)		WQM Mid-Flood 11:16 (09:31 - 13:01) Mid-Ebb 16:46 (15:01 - 18:31)		WQM Mid-Flood 13:22 (11:37 - 15:07) Mid-Ebb 19:24 (17:39 - 21:09)
30-Nov	01-Dec	02-Dec	03-Dec	04-Dec	05-Dec	06-Dec

**HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Noise Monitoring Schedule (1 to 31 October 2014)**

Noise Monitoring at rooftop of Pak Mong Village Watch Tower

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			Public Holiday 01-Oct	Public Holiday 02-Oct	03-Oct	04-Oct
					Noise Impact Monitoring	
05-Oct	06-Oct	07-Oct	08-Oct	09-Oct	10-Oct	11-Oct
				Noise Impact Monitoring		
12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct
			Noise Impact Monitoring			
19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct
		Noise Impact Monitoring				
26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	
	Noise Impact Monitoring			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 31 October 2014)**

Air Quality Monitoring at WA4 and rooftop of Pak Mong Village Watch Tower

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			Public Holiday 01-Oct	Public Holiday 02-Oct	03-Oct	04-Oct
					1-hr TSP Monitoring 24-hr TSP Monitoring	
05-Oct	06-Oct	07-Oct	08-Oct	09-Oct	10-Oct	11-Oct
				1-hr TSP Monitoring 24-hr TSP Monitoring		
12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct
			1-hr TSP Monitoring 24-hr TSP Monitoring			
19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct
		1-hr TSP Monitoring 24-hr TSP Monitoring				
26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	
	1-hr TSP Monitoring 24-hr TSP Monitoring			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
Tentative Impact Noise Monitoring Schedule (1 to 30 November 2014)**

Noise Monitoring at rooftop of Pak Mong Village Watch Tower

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

**HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Air Quality Monitoring Schedule (1 to 30 November 2014)**

Air Quality Monitoring at WA4 and rooftop of Pak Mong Village Watch Tower

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

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Dolphin Monitoring Survey Schedule (1 October to 31 October 2014)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			P. Holiday 01-Oct	P. Holiday 02-Oct	03-Oct	04-Oct
05-Oct	06-Oct	07-Oct	08-Oct	09-Oct	10-Oct	11-Oct
		Impact Dolphin Monitoring				
12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct
	Impact Dolphin Monitoring			Impact Dolphin Monitoring		
19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct
				Impact Dolphin Monitoring		
26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	

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 November to 30 November 2014)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Nov
02-Nov	03-Nov	04-Nov	05-Nov	06-Nov	07-Nov	08-Nov
		Impact Dolphin Monitoring				
09-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov
	Impact Dolphin Monitoring		Impact Dolphin Monitoring			
16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov
		Impact Dolphin Monitoring				
23-Nov	24-Nov	25-Nov	26-Nov	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	2014-10-03	ASR8A	8:00	1-hr TSP	113	394	500		
TMCLKL	HY/2012/07	2014-10-03	ASR8A	9:02	1-hr TSP	70				
TMCLKL	HY/2012/07	2014-10-03	ASR8A	10:04	1-hr TSP	78				
TMCLKL	HY/2012/07	2014-10-09	ASR8A	8:10	1-hr TSP	141				
TMCLKL	HY/2012/07	2014-10-09	ASR8A	9:12	1-hr TSP	132				
TMCLKL	HY/2012/07	2014-10-09	ASR8A	10:14	1-hr TSP	128				
TMCLKL	HY/2012/07	2014-10-15	ASR8A	8:33	1-hr TSP	175				
TMCLKL	HY/2012/07	2014-10-15	ASR8A	9:35	1-hr TSP	112				
TMCLKL	HY/2012/07	2014-10-15	ASR8A	10:37	1-hr TSP	118				
TMCLKL	HY/2012/07	2014-10-21	ASR8A	8:20	1-hr TSP	126				
TMCLKL	HY/2012/07	2014-10-21	ASR8A	9:22	1-hr TSP	112				
TMCLKL	HY/2012/07	2014-10-21	ASR8A	10:24	1-hr TSP	151				
TMCLKL	HY/2012/07	2014-10-27	ASR8A	8:00	1-hr TSP	114				
TMCLKL	HY/2012/07	2014-10-27	ASR8A	9:02	1-hr TSP	54				
TMCLKL	HY/2012/07	2014-10-27	ASR8A	10:04	1-hr TSP	66				
TMCLKL	HY/2012/07	2014-10-30	ASR8A	8:15	1-hr TSP	58				
TMCLKL	HY/2012/07	2014-10-30	ASR8A	9:17	1-hr TSP	63				
TMCLKL	HY/2012/07	2014-10-30	ASR8A	10:19	1-hr TSP	102				
				Average		106				
				Min.		54				
				Max.		175				

1-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8

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	2014-10-03	ASR8	8:11	1-hr TSP	101	393	500		
TMCLKL	HY/2012/07	2014-10-03	ASR8	9:13	1-hr TSP	71				
TMCLKL	HY/2012/07	2014-10-03	ASR8	10:15	1-hr TSP	79				
TMCLKL	HY/2012/07	2014-10-09	ASR8	8:21	1-hr TSP	121				
TMCLKL	HY/2012/07	2014-10-09	ASR8	9:23	1-hr TSP	118				
TMCLKL	HY/2012/07	2014-10-09	ASR8	10:25	1-hr TSP	113				
TMCLKL	HY/2012/07	2014-10-15	ASR8	8:45	1-hr TSP	168				
TMCLKL	HY/2012/07	2014-10-15	ASR8	9:47	1-hr TSP	193				
TMCLKL	HY/2012/07	2014-10-15	ASR8	10:49	1-hr TSP	243				
TMCLKL	HY/2012/07	2014-10-21	ASR8	8:30	1-hr TSP	176				
TMCLKL	HY/2012/07	2014-10-21	ASR8	9:32	1-hr TSP	146				
TMCLKL	HY/2012/07	2014-10-21	ASR8	10:34	1-hr TSP	194				
TMCLKL	HY/2012/07	2014-10-27	ASR8	8:12	1-hr TSP	143				
TMCLKL	HY/2012/07	2014-10-27	ASR8	9:14	1-hr TSP	96				
TMCLKL	HY/2012/07	2014-10-27	ASR8	10:16	1-hr TSP	157				
TMCLKL	HY/2012/07	2014-10-30	ASR8	8:26	1-hr TSP	77				
TMCLKL	HY/2012/07	2014-10-30	ASR8	9:28	1-hr TSP	67				
TMCLKL	HY/2012/07	2014-10-30	ASR8	10:30	1-hr TSP	83				
				Average		130				
				Min.		67				
				Max.		243				

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

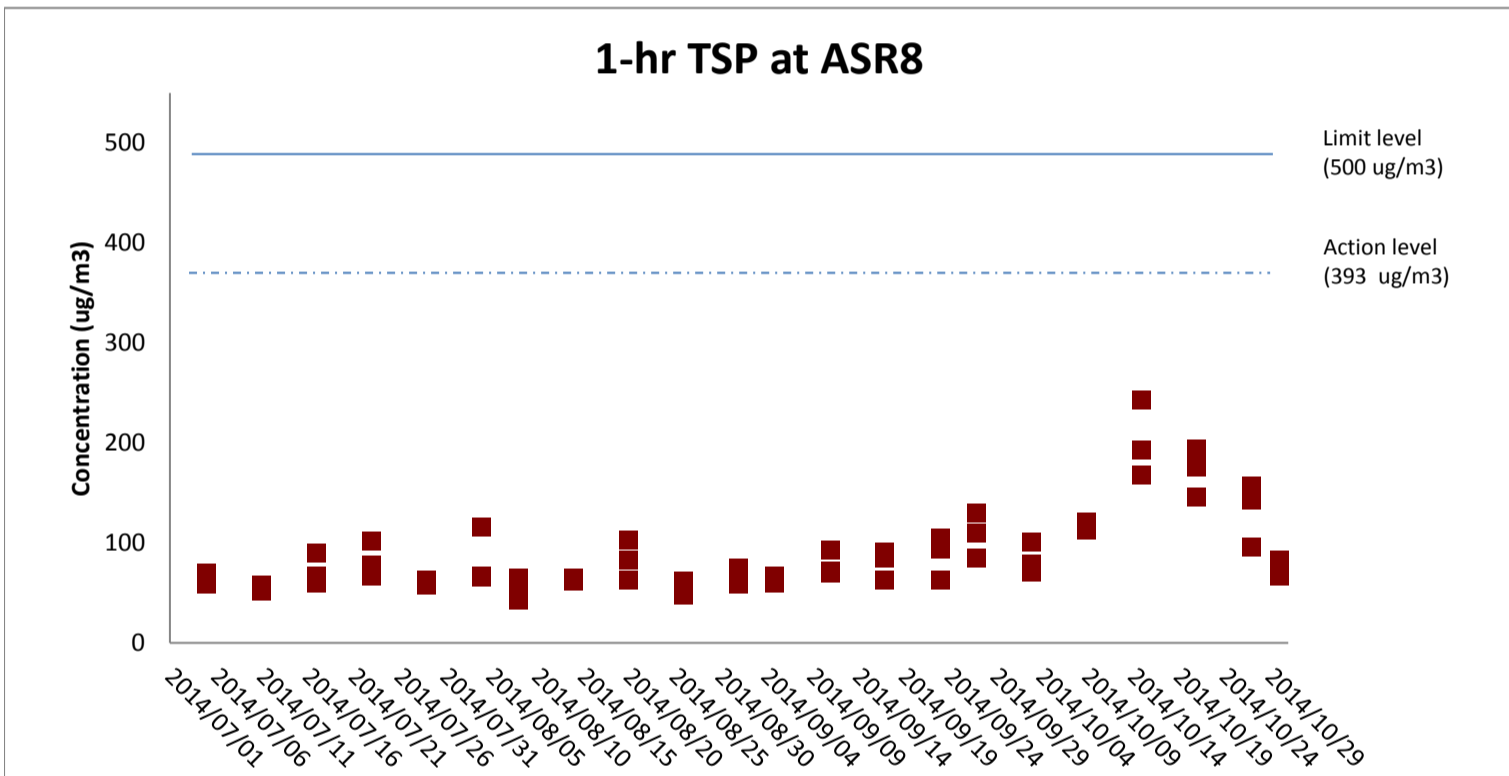
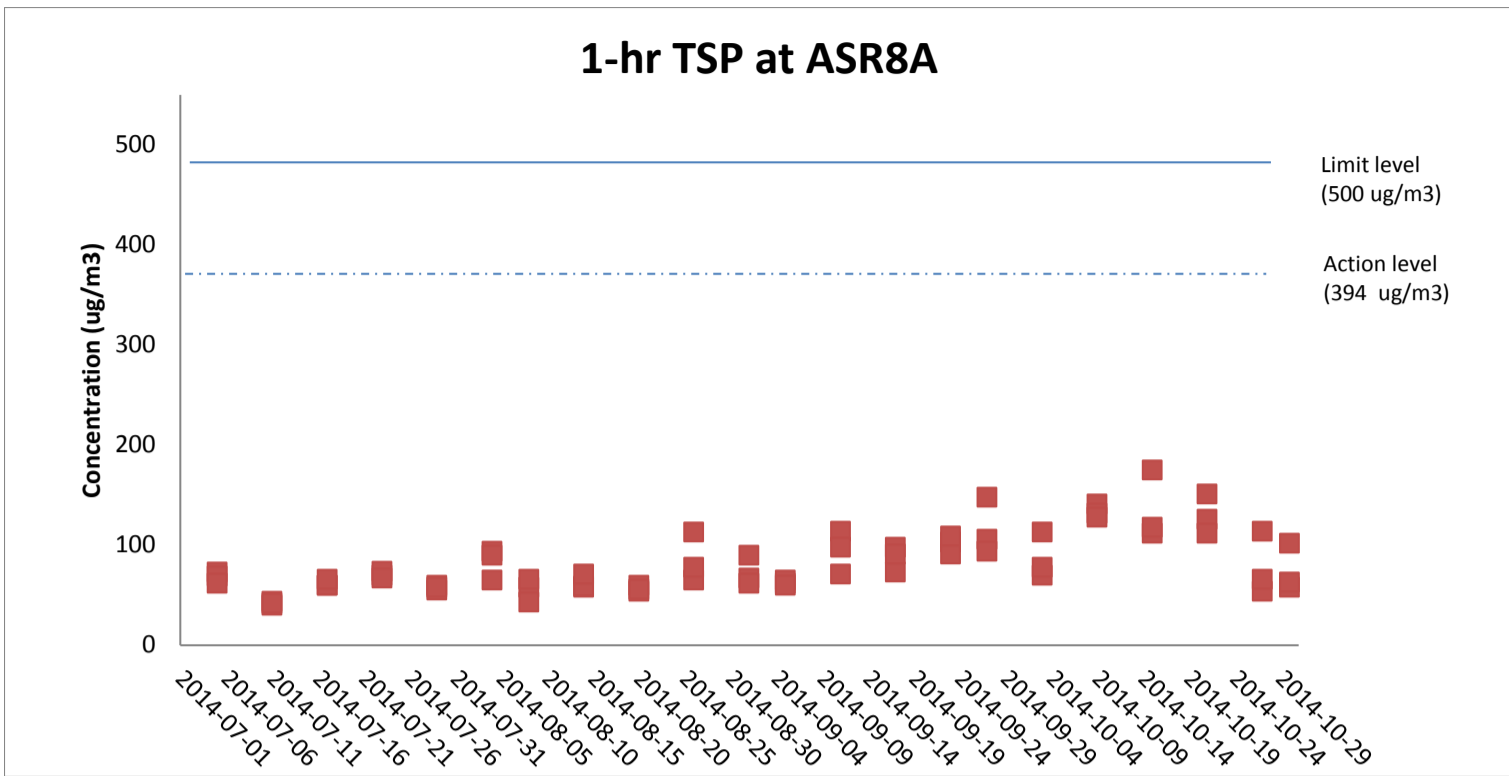
Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2014-10-03	ASR8A	11:06	24-hr TSP	46	178	260
TMCLKL	HY/2012/07	2014-10-09	ASR8A	11:16	24-hr TSP	63		
TMCLKL	HY/2012/07	2014-10-15	ASR8A	11:39	24-hr TSP	79		
TMCLKL	HY/2012/07	2014-10-21	ASR8A	11:26	24-hr TSP	59		
TMCLKL	HY/2012/07	2014-10-27	ASR8A	11:06	24-hr TSP	56		
TMCLKL	HY/2012/07	2014-10-30	ASR8A	11:21	24-hr TSP	57		
						Average	60	
						Min.	46	
						Max.	79	

24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8

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	2014-10-03	ASR8	11:17	24-hr TSP	46	178	260
TMCLKL	HY/2012/07	2014-10-09	ASR8	11:27	24-hr TSP	72		
TMCLKL	HY/2012/07	2014-10-15	ASR8	11:51	24-hr TSP	101		
TMCLKL	HY/2012/07	2014-10-21	ASR8	11:36	24-hr TSP	70		
TMCLKL	HY/2012/07	2014-10-27	ASR8	11:18	24-hr TSP	79		
TMCLKL	HY/2012/07	2014-10-30	ASR8	11:32	24-hr TSP	57		
						Average	71	
						Min.	46	
						Max.	101	

Action Level Exceedance

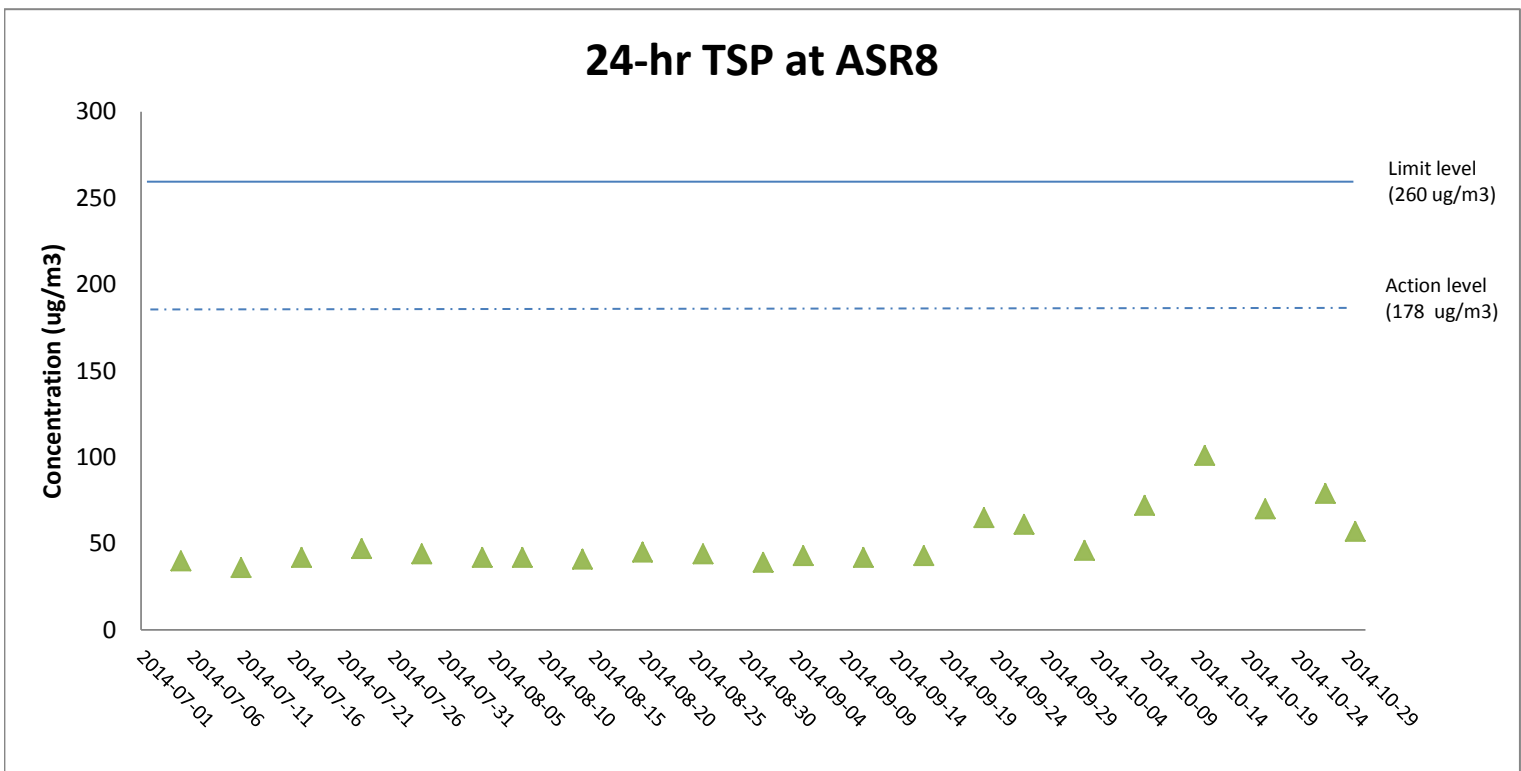
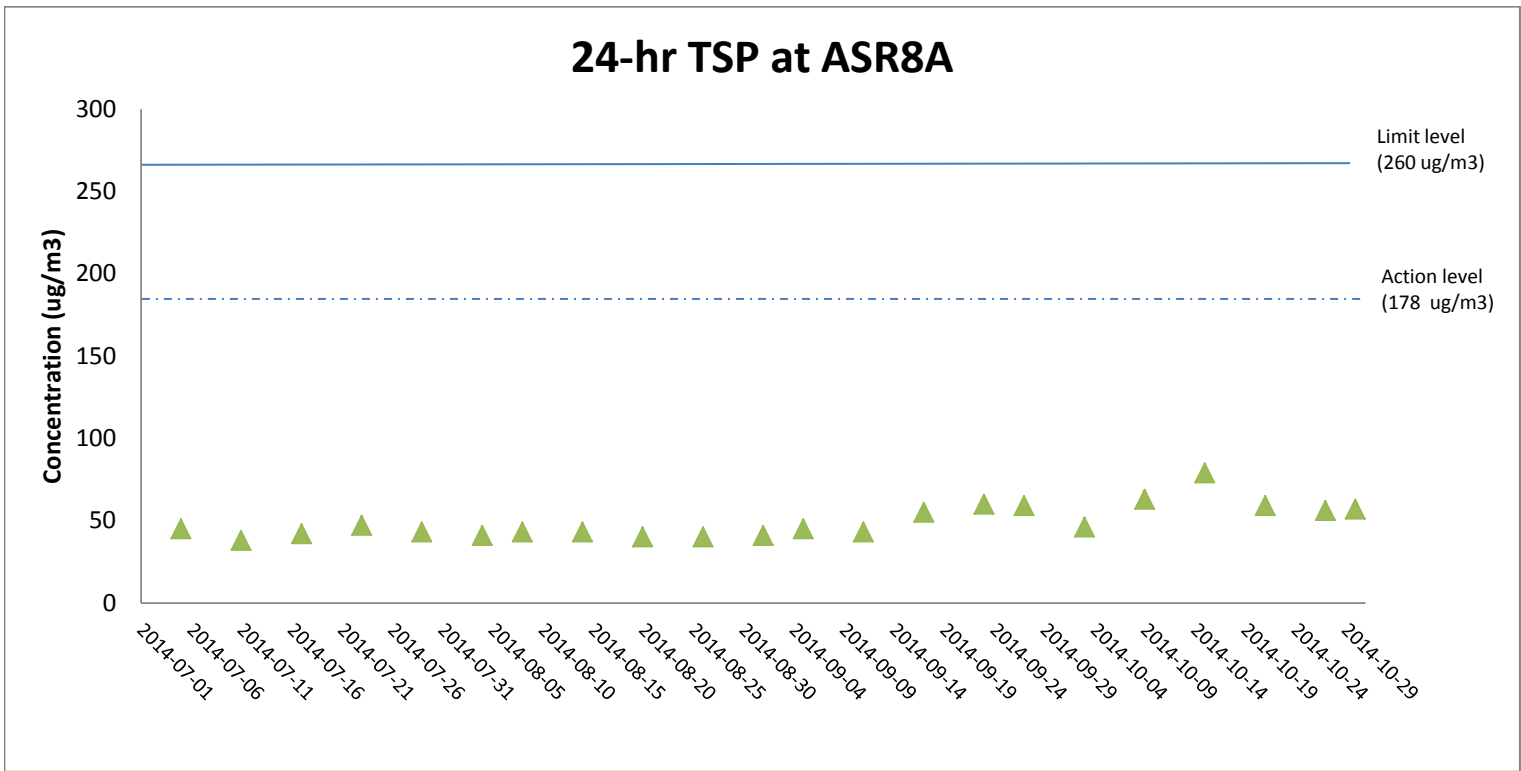
Limit Level Exceedance



Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Construction of pile cap superstructure of Viaduct B; Channel reconstruction at Area 1; Land Piling at Viaducts B, C & D; Construction of pile cap at Viaducts B & D; Additional land GI, trial pits & lab testing; Utility surveys; and Slope work of Slope 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

Marine works within the reporting period include Construction of Pile caps at Viaduct B; Marine piling platform installation for Viaducts A, B, C & D; Marine Piling at Viaducts B, C, D & E; and Additional marine ground investigation (GI) and laboratory testing.



Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Construction of pile cap superstructure of Viaduct B; Channel re-construction at Area 1; Land Piling at Viaducts B, C & D; Construction of pile cap at Viaducts B & D; Additional land GI, trial pits & lab testing; Utility surveys; and Slope work of Slope 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

Marine works within the reporting period include Construction of Pile caps at Viaduct B; Marine piling platform installation for Viaducts A, B, C & D; Marine Piling at Viaducts B, C, D & E; and Additional marine ground investigation (GI) and laboratory testing.

Appendix H

Meteorological Data for the Reporting Month

Date	Time	Wind Speed (m/s)	Wind Direction (deg)
03-10-2014	8:00 AM	0.01	242
03-10-2014	9:00 AM	0.05	188
03-10-2014	10:00 AM	0.07	159
03-10-2014	11:00 AM	0.01	213
03-10-2014	12:00 PM	0.48	88
03-10-2014	1:00 PM	0.99	97
03-10-2014	2:00 PM	0.89	109
03-10-2014	3:00 PM	0.50	182
03-10-2014	4:00 PM	0.14	147
03-10-2014	5:00 PM	0.37	145
03-10-2014	6:00 PM	0.48	173
03-10-2014	7:00 PM	0.42	155
03-10-2014	8:00 PM	0.91	121
03-10-2014	9:00 PM	0.16	129
03-10-2014	10:00 PM	0.03	160
03-10-2014	11:00 PM	0.22	128
04-10-2014	12:00 AM	0.57	138
04-10-2014	1:00 AM	0.58	110
04-10-2014	2:00 AM	0.51	116
04-10-2014	3:00 AM	0.16	115
04-10-2014	4:00 AM	0.09	168
04-10-2014	5:00 AM	0.03	167
04-10-2014	6:00 AM	0.04	99
04-10-2014	7:00 AM	0.23	123
04-10-2014	8:00 AM	0.19	109
04-10-2014	9:00 AM	0.56	83
04-10-2014	10:00 AM	0.65	113
04-10-2014	11:00 AM	0.81	121
04-10-2014	12:00 PM	0.46	138
09-10-2014	8:00 AM	0.06	201
09-10-2014	9:00 AM	0.13	115
09-10-2014	10:00 AM	0.03	164
09-10-2014	11:00 AM	0.16	109
09-10-2014	12:00 PM	0.22	220
09-10-2014	1:00 PM	0.12	243
09-10-2014	2:00 PM	0.11	192
09-10-2014	3:00 PM	0.46	139
09-10-2014	4:00 PM	0.15	154
09-10-2014	5:00 PM	0.17	86
09-10-2014	6:00 PM	0.11	135
09-10-2014	7:00 PM	0.13	138
09-10-2014	8:00 PM	0.05	158
09-10-2014	9:00 PM	0.07	165
09-10-2014	10:00 PM	0.13	132
09-10-2014	11:00 PM	0.13	183
10-10-2014	12:00 AM	0.04	165
10-10-2014	1:00 AM	0.02	153
10-10-2014	2:00 AM	0.02	172
10-10-2014	3:00 AM	0.07	159
10-10-2014	4:00 AM	0.02	163

Date	Time	Wind Speed (m/s)	Wind Direction (deg)
10-10-2014	5:00 AM	0.13	186
10-10-2014	6:00 AM	0.43	132
10-10-2014	7:00 AM	0.02	158
10-10-2014	8:00 AM	0.13	149
10-10-2014	9:00 AM	0.08	214
10-10-2014	10:00 AM	0.29	142
10-10-2014	11:00 AM	0.56	174
10-10-2014	12:00 PM	0.38	196
15-10-2014	8:00 AM	0.06	135
15-10-2014	9:00 AM	0.02	74
15-10-2014	10:00 AM	0.05	235
15-10-2014	11:00 AM	0.01	248
15-10-2014	12:00 PM	0.08	114
15-10-2014	1:00 PM	0.02	220
15-10-2014	2:00 PM	0.03	246
15-10-2014	3:00 PM	0.10	162
15-10-2014	4:00 PM	0.16	146
15-10-2014	5:00 PM	0.06	170
15-10-2014	6:00 PM	0.12	110
15-10-2014	7:00 PM	0.02	96
15-10-2014	8:00 PM	0.28	112
15-10-2014	9:00 PM	0.02	89
15-10-2014	10:00 PM	0.17	68
15-10-2014	11:00 PM	0.14	95
16-10-2014	12:00 AM	0.02	91
16-10-2014	1:00 AM	0.02	99
16-10-2014	2:00 AM	0.15	120
16-10-2014	3:00 AM	0.06	109
16-10-2014	4:00 AM	0.04	107
16-10-2014	5:00 AM	0.08	135
16-10-2014	6:00 AM	0.02	121
16-10-2014	7:00 AM	0.31	95
16-10-2014	8:00 AM	0.16	124
16-10-2014	9:00 AM	0.51	116
16-10-2014	10:00 AM	0.40	91
16-10-2014	11:00 AM	0.97	115
16-10-2014	12:00 PM	1.02	121
21-10-2014	8:00 AM	0.04	293
21-10-2014	9:00 AM	0.05	279
21-10-2014	10:00 AM	0.39	242
21-10-2014	11:00 AM	0.09	273
21-10-2014	12:00 PM	0.05	242
21-10-2014	1:00 PM	0.15	173
21-10-2014	2:00 PM	0.25	180
21-10-2014	3:00 PM	0.05	141
21-10-2014	4:00 PM	0.09	119
21-10-2014	5:00 PM	0.08	192
21-10-2014	6:00 PM	0.09	211
21-10-2014	7:00 PM	0.12	208
21-10-2014	8:00 PM	0.03	184

Date	Time	Wind Speed (m/s)	Wind Direction (deg)
21-10-2014	9:00 PM	0.05	195
21-10-2014	10:00 PM	0.06	193
21-10-2014	11:00 PM	0.07	192
22-10-2014	12:00 AM	0.02	171
22-10-2014	1:00 AM	0.02	203
22-10-2014	2:00 AM	0.12	228
22-10-2014	3:00 AM	0.14	258
22-10-2014	4:00 AM	0.21	229
22-10-2014	5:00 AM	0.13	264
22-10-2014	6:00 AM	0.12	210
22-10-2014	7:00 AM	0.17	181
22-10-2014	8:00 AM	0.32	151
22-10-2014	9:00 AM	0.43	169
22-10-2014	10:00 AM	0.41	133
22-10-2014	11:00 AM	0.34	104
22-10-2014	12:00 PM	0.79	174
27-10-2014	8:00 AM	0.02	121
27-10-2014	9:00 AM	0.24	49
27-10-2014	10:00 AM	0.90	43
27-10-2014	11:00 AM	0.36	62
27-10-2014	12:00 PM	0.53	57
27-10-2014	1:00 PM	0.76	42
27-10-2014	2:00 PM	0.56	31
27-10-2014	3:00 PM	0.48	50
27-10-2014	4:00 PM	1.31	106
27-10-2014	5:00 PM	1.31	93
27-10-2014	6:00 PM	1.30	102
27-10-2014	7:00 PM	3.10	75
27-10-2014	8:00 PM	2.69	105
27-10-2014	9:00 PM	1.22	96
27-10-2014	10:00 PM	1.65	74
27-10-2014	11:00 PM	1.12	92
28-10-2014	12:00 AM	0.95	108
28-10-2014	1:00 AM	1.26	79
28-10-2014	2:00 AM	2.09	87
28-10-2014	3:00 AM	1.35	78
28-10-2014	4:00 AM	1.83	81
28-10-2014	5:00 AM	1.64	83
28-10-2014	6:00 AM	0.78	66
28-10-2014	7:00 AM	1.59	85
28-10-2014	8:00 AM	0.91	109
28-10-2014	9:00 AM	0.96	105
28-10-2014	10:00 AM	1.06	102
28-10-2014	11:00 AM	1.91	89
28-10-2014	12:00 PM	1.64	95
30-10-2014	8:00 AM	1.19	89
30-10-2014	9:00 AM	1.33	71
30-10-2014	10:00 AM	1.13	99
30-10-2014	11:00 AM	1.04	105
30-10-2014	12:00 PM	0.66	124

Date	Time	Wind Speed (m/s)	Wind Direction (deg)
30-10-2014	1:00 PM	0.63	71
30-10-2014	2:00 PM	0.42	83
30-10-2014	3:00 PM	0.38	125
30-10-2014	4:00 PM	0.17	126
30-10-2014	5:00 PM	0.07	123
30-10-2014	6:00 PM	0.48	94
30-10-2014	7:00 PM	0.28	148
30-10-2014	8:00 PM	0.19	136
30-10-2014	9:00 PM	0.08	78
30-10-2014	10:00 PM	0.03	87
30-10-2014	11:00 PM	0.03	114
31-10-2014	12:00 AM	0.02	113
31-10-2014	1:00 AM	0.10	104
31-10-2014	2:00 AM	0.10	81
31-10-2014	3:00 AM	0.05	107
31-10-2014	4:00 AM	0.19	108
31-10-2014	5:00 AM	0.12	113
31-10-2014	6:00 AM	0.15	66
31-10-2014	7:00 AM	0.16	90
31-10-2014	8:00 AM	0.17	64
31-10-2014	9:00 AM	0.11	134
31-10-2014	10:00 AM	0.29	53
31-10-2014	11:00 AM	0.39	69
31-10-2014	12:00 PM	0.11	163

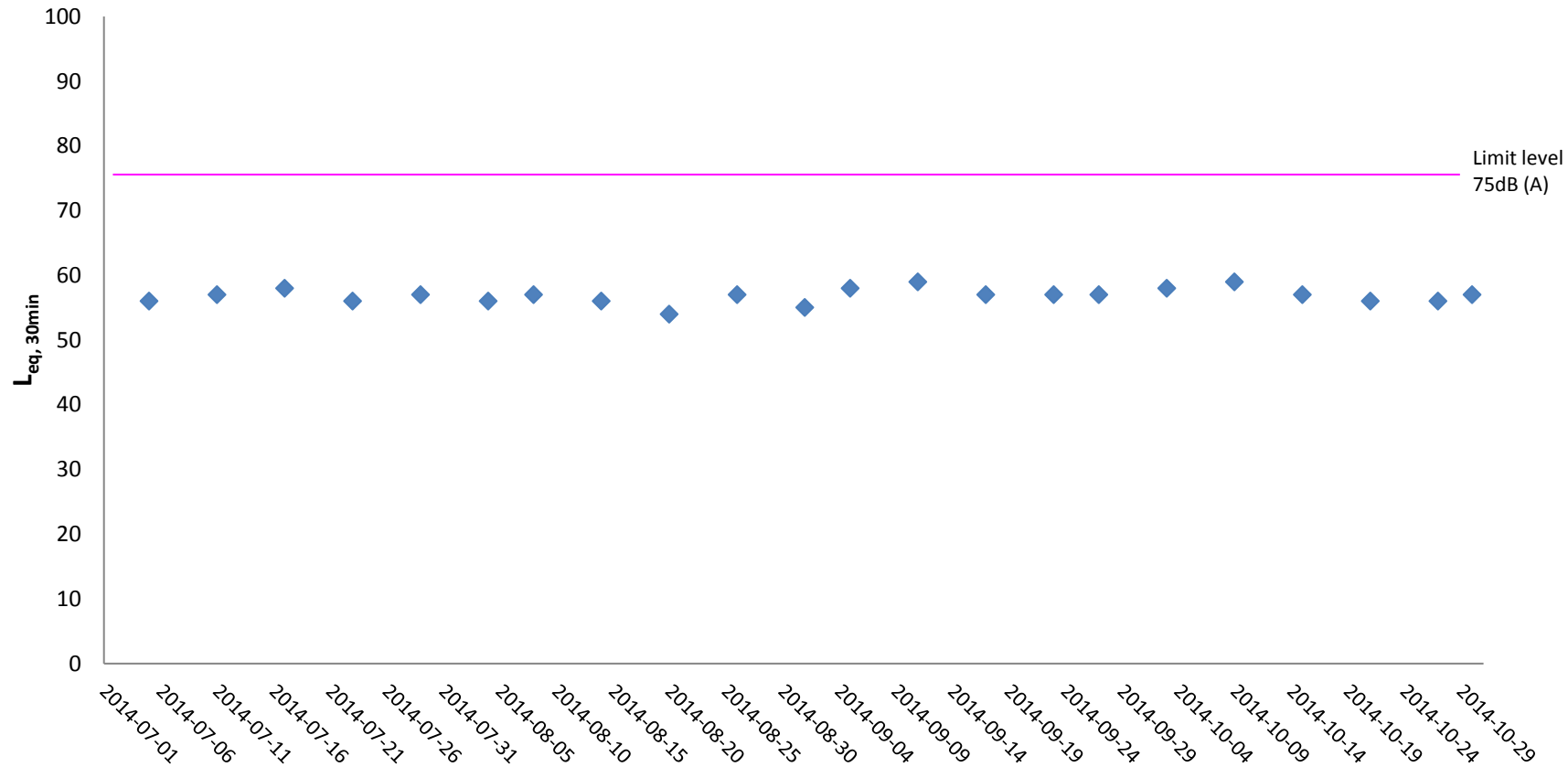
Appendix I

Impact Noise Monitoring Results and Graphical Presentation

Appendix I1 Noise Monitoring Results

Project	Works	Date (yyyy-mm-dd)	Station	Weather Condition	Time (hh:mm, 24hour)	Noise Level for 30-min, dB(A)			Limit Level dB(A)	Temp (° C)	Wind Speed (m/s)	Noise Meter Model/ID	Calibrator Model/ID
						Leq	L10	L90					
TMCLKL	HY/2012/07	2014-10-03	NSR1	Sunny	9:19	58	61	56	75	26	0.1	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-10-09	NSR1	Sunny	9:25	59	62	52	75	24	0.2	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-10-15	NSR1	Sunny	10:00	57	60	52	75	22	0.1	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-10-21	NSR1	Sunny	9:36	56	58	52	75	24	0.2	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-10-27	NSR1	Sunny	9:20	56	58	53	75	25	0.2	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-10-30	NSR1	Sunny	9:30	57	60	53	75	25	0.2	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
						Min.	56						
						Max.	59						
						Average	57						

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



Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Construction of pile cap superstructure of Viaduct B; Channel re-construction at Area 1; Land Piling at Viaducts B, C & D; Construction of pile cap at Viaducts B & D; Additional land GI, trial pits & lab testing; Utility surveys; and Slope work of Slope 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

Marine works within the reporting period include Construction of Pile caps at Viaduct B; Marine piling platform installation for Viaducts A, B, C & D; Marine Piling at Viaducts B, C, D & E; and Additional marine ground investigation (GI) and laboratory testing.

Appendix J

Impact Water Quality Monitoring Results and Graphical Presentation

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	12:52	28.7	7.66	19.3	6.35	7.03	8.4	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	12:52	28.6	7.68	19.2	6.37	7.05	8.5	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	CS(Mf)5	Middle	4.9	2	1	12:52	28.5	7.73	19.4	6.13	7.62	11.4	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	CS(Mf)5	Middle	4.9	2	2	12:52	28.5	7.75	19.5	6.15	7.64	12.2	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	CS(Mf)5	Bottom	8.7	3	1	12:52	28	7.83	19.9	6	8.92	12.5	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	CS(Mf)5	Bottom	8.7	3	2	12:52	28	7.81	20	6.02	8.94	13.4	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	SR4a	Surface	1	1	1	13:23	28.8	7.72	19.3	6.03	7	9.8	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	SR4a	Surface	1	1	2	13:23	28.7	7.74	19.3	6.05	6.98	11.2	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	SR4a	Middle		2	1	13:23							2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	SR4a	Middle		2	2	13:23							2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	SR4a	Bottom	4.1	3	1	13:23	28.6	7.63	19.4	5.73	7.24	9.4	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	SR4a	Bottom	4.1	3	2	13:23	28.6	7.65	19.5	5.71	7.26	9.4	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	SR4	Surface	1	1	1	13:54	28.7	7.73	19.2	6	7.03	9.8	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	SR4	Surface	1	1	2	13:54	28.6	7.75	19.3	6.02	7.05	9.9	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	SR4	Middle		2	1	13:54							2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	SR4	Middle		2	2	13:54							2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	SR4	Bottom	4.1	3	1	13:54	28.6	7.69	19.4	5.53	7.11	9.2	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	SR4	Bottom	4.1	3	2	13:54	28.5	7.71	19.5	5.51	7.13	8.6	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS8	Surface	1	1	1	14:25	28.8	7.66	19.3	5.83	6.94	11.1	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS8	Surface	1	1	2	14:25	28.7	7.68	19.4	5.85	6.92	8.3	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS8	Middle		2	1	14:25							2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS8	Middle		2	2	14:25							2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS8	Bottom	4.5	3	1	14:25	28.6	7.73	19.5	5.62	7.72	11.6	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS8	Bottom	4.5	3	2	14:25	28.6	7.75	19.6	5.6	7.7	10	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	14:56	28.7	7.74	19.3	5.69	7.03	8.4	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	14:56	28.7	7.72	19.3	5.71	7.05	9.9	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS(Mf)16	Middle	4.9	2	1	14:56	28.6	7.64	19.5	5.55	7.3	11	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS(Mf)16	Middle	4.9	2	2	14:56	28.5	7.62	19.6	5.57	7.28	8.7	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS(Mf)16	Bottom	8.7	3	1	14:56	28.1	7.81	19.9	5.24	7.57	9.9	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS(Mf)16	Bottom	8.7	3	2	14:56	28.1	7.83	20	5.22	7.61	9.9	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	15:27	28.8	7.68	19.3	6.02	7.34	11.7	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	15:27	28.7	7.7	19.3	6.04	7.36	11	2014-10-03

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS8	Bottom	4	3	1	19:27	28.3	7.82	19.5	5.5	7.93	11.1	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS8	Bottom	4	3	2	19:27	28.2	7.83	19.6	5.46	8.01	11.2	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	19:46	28.5	7.81	19.2	5.65	7.89	10.3	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	19:46	28.4	7.82	19.3	5.61	7.96	9.6	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.6	2	1	19:46	28.4	7.84	19.4	5.57	8.4	10.1	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.6	2	2	19:46	28.4	7.85	19.5	5.55	8.36	10	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	8.2	3	1	19:46	28.1	7.88	19.8	5.03	8.85	12.4	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	8.2	3	2	19:46	28.1	7.88	19.9	5.07	8.78	12.3	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	20:10	28.5	7.83	19.1	5.64	7.69	11.5	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	20:10	28.4	7.84	19.1	5.69	7.74	12.4	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	20:10							2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	20:10							2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	1	20:10	28.4	7.88	19.3	5.38	7.98	12.8	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	2	20:10	28.4	7.89	19.4	5.44	8.05	10.5	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	18:20	28.3	7.79	19.2	5.93	7.42	11.4	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	12:52	28.3	7.8	19.1	5.97	7.37	10	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.7	2	1	12:52	28.2	7.83	19.4	5.78	7.99	9.5	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.7	2	2	12:52	28.2	7.83	19.5	5.81	8.04	12	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.4	3	1	12:52	28	7.84	19.9	5.66	8.89	11.4	2014-10-03
TMCLKL	HY/2012/07	2014-10-02	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.4	3	2	12:52	27.9	7.85	20	5.69	8.96	14.1	2014-10-03
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	14:46	28.7	7.92	19.4	6.3	7.1	10.7	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	14:46	28.8	7.93	19.5	6.27	7.15	10.7	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	CS(Mf)5	Middle	5.1	2	1	14:46	28.6	7.9	19.9	6.16	7.75	10.1	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	CS(Mf)5	Middle	5.1	2	2	14:46	28.5	7.91	20	6.13	7.82	10.2	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	CS(Mf)5	Bottom	9.2	3	1	14:46	28.1	7.94	21.3	5.99	8.95	12	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	CS(Mf)5	Bottom	9.2	3	2	14:46	28.2	7.95	21.4	5.94	9	12.4	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	15:06	28.8	7.87	19.4	6.01	7.25	10.9	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	15:06	28.7	7.88	19.5	5.94	7.2	10.1	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	SR4a	Middle		2	1	15:06							2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	SR4a	Middle		2	2	15:06							2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	SR4a	Bottom	4.4	3	1	15:06	28.5	7.91	19.8	5.64	7.92	10.3	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	SR4a	Bottom	4.4	3	2	15:06	28.6	7.92	19.7	5.6	7.87	10.2	2014-10-05

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	SR4	Surface	1	1	1	15:26	28.9	7.85	19.5	6.04	7.07	11.3	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	SR4	Surface	1	1	2	15:26	28.8	7.86	19.6	6.09	7.13	10.6	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	SR4	Middle		2	1	15:26							2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	SR4	Middle		2	2	15:26							2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	SR4	Bottom	4.4	3	1	15:26	28.6	7.9	20	5.5	7.76	12.4	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	SR4	Bottom	4.4	3	2	15:26	28.6	7.91	20.1	5.54	7.87	11.6	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS8	Surface	1	1	1	15:46	28.8	7.86	19.4	5.84	7.24	9.4	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS8	Surface	1	1	2	15:46	28.7	7.87	19.5	5.89	7.18	10.8	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS8	Middle		2	1	15:46							2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS8	Middle		2	2	15:46							2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS8	Bottom	4.6	3	1	15:46	28.5	7.91	19.9	5.47	7.86	11	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS8	Bottom	4.6	3	2	15:46	28.4	7.92	20	5.43	7.94	10.3	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	16:06	28.8	7.85	19.5	5.83	7.21	10.8	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	16:06	28.9	7.86	19.6	5.8	7.29	10.2	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.9	2	1	16:06	28.6	7.9	19.8	5.52	7.87	11.8	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.9	2	2	16:06	28.7	7.91	19.7	5.47	7.95	9.5	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS(Mf)16	Bottom	8.8	3	1	16:06	28.3	7.94	20.6	5.17	8.59	10.3	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS(Mf)16	Bottom	8.8	3	2	16:06	28.2	7.95	20.7	5.13	8.65	12.1	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	16:26	28.9	7.86	19.4	6	7.37	10.3	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	16:26	28.8	7.87	19.5	5.97	7.33	8.8	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	16:26							2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	16:26							2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.5	3	1	16:26	28.5	7.96	19.8	5.53	7.78	11.8	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.5	3	2	16:26	28.6	7.95	19.7	5.57	7.86	9.4	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	16:46	28.8	7.82	19.3	5.73	7.19	10.1	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	16:46	28.7	7.83	19.4	5.68	7.25	10.2	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.3	2	1	16:46	28.7	7.86	19.4	5.4	7.91	11.9	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.3	2	2	16:46	28.6	7.85	19.5	5.36	7.85	12.5	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.6	3	1	16:46	28.1	7.88	19.8	5.23	8.44	11.8	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.6	3	2	16:46	28	7.89	19.9	5.2	8.51	12.6	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	08:20	28.7	7.72	19.4	5.71	7.83	11	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	08:20	28.8	7.69	19.4	5.63	7.88	10.2	2014-10-05

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-04	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	3.8	3	1	08:40	28.4	7.73	19.9	4.96	8.63	11.2	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	3.8	3	2	08:40	28.4	7.8	20	5	8.8	10.6	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	10:20	28.7	7.72	19.4	5.92	8.32	11.6	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	10:20	28.8	7.76	19.4	6	8.82	10.8	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.8	2	1	10:20	28.4	7.8	20	5.77	9.11	12.9	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.8	2	2	10:20	28.3	7.78	20.1	5.7	9.2	12	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.6	3	1	10:20	28.1	7.86	21.4	5.21	9.88	12.8	2014-10-05
TMCLKL	HY/2012/07	2014-10-04	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.6	3	2	10:20	28.1	7.82	21.5	5.03	10	14	2014-10-05
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	16:34	28.9	7.81	19.5	6.21	6.95	9.7	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	16:34	28.8	7.85	19.4	6.18	7.01	9.8	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	CS(Mf)5	Middle	5.2	2	1	16:34	28.5	7.89	20	6.07	7.6	10.6	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	CS(Mf)5	Middle	5.2	2	2	16:34	28.4	7.87	19.9	6.04	7.67	10.7	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	CS(Mf)5	Bottom	9.4	3	1	16:34	28.2	7.95	21.4	5.9	8.8	11.4	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	CS(Mf)5	Bottom	9.4	3	2	16:34	28.3	7.91	21.3	5.88	8.85	14.2	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	SR4a	Surface	1	1	1	17:00	28.7	7.89	19.6	6.1	7.09	9.9	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	SR4a	Surface	1	1	2	17:00	28.8	7.9	19.5	6.03	7.05	11.3	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	SR4a	Middle		2	1	17:00							2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	SR4a	Middle		2	2	17:00							2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	SR4a	Bottom	4.6	3	1	17:00	28.5	7.93	19.9	5.73	7.77	11.7	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	SR4a	Bottom	4.6	3	2	17:00	28.4	7.94	19.8	5.69	7.72	12.4	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	SR4	Surface	1	1	1	17:26	29	7.91	19.7	6.1	6.98	9.1	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	SR4	Surface	1	1	2	17:26	28.9	7.92	19.6	6.15	7.04	10.6	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	SR4	Middle		2	1	17:26							2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	SR4	Middle		2	2	17:26							2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	SR4	Bottom	4.8	3	1	17:26	28.7	7.96	20.1	5.56	7.67	9.2	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	SR4	Bottom	4.8	3	2	17:26	28.6	7.97	20.2	5.6	7.78	11.7	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS8	Surface	1	1	1	17:52	28.8	7.92	19.5	5.9	7.09	9.2	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS8	Surface	1	1	2	17:52	28.8	7.93	19.6	5.95	7.03	9.1	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS8	Middle		2	1	17:52							2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS8	Middle		2	2	17:52							2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS8	Bottom	4.6	3	1	17:52	28.6	7.97	20	5.53	7.71	12.3	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS8	Bottom	4.6	3	2	17:52	28.5	7.98	20.1	5.49	7.78	10.9	2014-10-08

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water-Depth	Lev-Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	18:18	28.9	7.91	19.6	5.89	7.12	9.3	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	18:18	29	7.92	19.7	5.86	7.2	10.8	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS(Mf)16	Middle	5.1	2	1	18:18	28.7	7.96	19.8	5.58	7.78	11.7	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS(Mf)16	Middle	5.1	2	2	18:18	28.8	7.97	19.9	5.53	7.86	10.2	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS(Mf)16	Bottom	9.2	3	1	18:18	28.3	8	22.5	5.23	8.44	11	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS(Mf)16	Bottom	9.2	3	2	18:18	28.2	8.02	22.6	5.19	8.5	12.8	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	18:44	28.9	7.92	19.5	6.06	7.22	9.4	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	18:44	28.8	7.93	19.6	6.03	7.18	10.1	2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	18:44							2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	18:44							2014-10-08
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS(Mf)9	Bottom	4.4	3	1	18:44	28.4	8.02	19.9	5.59	7.63	11.4	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	IS(Mf)9	Bottom	4.4	3	2	18:44	28.5	8.01	19.8	5.53	7.71	10	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	19:12	28.9	7.88	19.4	5.79	7.1	10.7	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	19:12	29	7.89	19.5	5.74	7.16	10	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	CS(Mf)3	Middle	6.4	2	1	19:12	28.8	7.92	19.6	5.46	7.82	12.5	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	CS(Mf)3	Middle	6.4	2	2	19:12	28.7	7.91	19.7	5.42	7.76	9.3	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	CS(Mf)3	Bottom	11.8	3	1	19:12	28.2	7.94	20	5.29	8.29	10.8	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Flood	Fine	CS(Mf)3	Bottom	11.8	3	2	19:12	28.3	7.95	19.9	5.26	8.36	12.5	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	10:37	29	7.66	19.6	5.33	8.26	10.7	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	10:37	28.9	7.73	19.6	5.3	8.29	10.8	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	CS(Mf)3	Middle	6.1	2	1	10:37	28.5	7.77	20	5.02	9.03	12.6	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	CS(Mf)3	Middle	6.1	2	2	10:37	28.4	7.79	20	5.07	9.17	12.8	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	CS(Mf)3	Bottom	11.1	3	1	10:37	28	7.82	20.5	4.96	10.71	15	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	CS(Mf)3	Bottom	11.1	3	2	10:37	27.9	7.86	20.4	4.82	11	15.4	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	SR4a	Surface	1	1	1	12:50	28.9	7.83	19.6	5.66	8.88	11.5	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	SR4a	Surface	1	1	2	12:50	28.8	7.86	19.6	5.62	8.96	11.6	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	SR4a	Middle		2	1	12:50							2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	SR4a	Middle		2	2	12:50							2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	SR4a	Bottom	4	3	1	12:50	28.6	7.79	20.3	4.93	9.71	15.5	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	SR4a	Bottom	4	3	2	12:50	28.5	7.88	20.5	4.9	9.91	14.9	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	SR4	Surface	1	1	1	12:24	29	7.71	19.7	5.31	8.12	13	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	SR4	Surface	1	1	2	12:24	29	7.76	19.6	5.33	8	12	2014-10-07

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	SR4	Middle		2	1	12:24							2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	SR4	Middle		2	2	12:24							2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	SR4	Bottom	4.1	3	1	12:24	28.6	7.81	20.1	4.81	9.03	12.6	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	SR4	Bottom	4.1	3	2	12:24	28.5	7.83	20.3	4.77	9.17	12.8	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS8	Surface	1	1	1	11:58	29.1	7.67	19.7	5.21	8	12	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS8	Surface	1	1	2	11:58	29	7.77	19.7	5.19	7.93	10.3	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS8	Middle		2	1	11:58							2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS8	Middle		2	2	11:58							2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS8	Bottom	4	3	1	11:58	28.5	7.83	20.3	4.73	9.12	11.9	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS8	Bottom	4	3	2	11:58	28.6	7.88	20.3	4.71	9.23	13.8	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	11:32	28.9	7.72	19.6	5.2	8.62	11.2	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	11:32	29	7.77	19.8	5.23	8.63	11.2	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS(Mf)16	Middle	4.8	2	1	11:32	28.5	7.81	20.1	5	9.17	14.7	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS(Mf)16	Middle	4.8	2	2	11:32	28.4	7.88	20.2	5.03	9.23	12.9	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.6	3	1	11:32	28	7.89	21.2	4.71	10.47	13.6	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.6	3	2	11:32	27.9	7.93	21	4.76	11.02	17.6	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	11:06	29	7.69	19.5	5.24	8.12	9.7	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	11:06	29	7.77	19.5	5.27	8.17	9.8	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	11:06							2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	11:06							2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS(Mf)9	Bottom	3.8	3	1	11:06	28.5	7.81	19.9	4.81	9.62	14.4	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	IS(Mf)9	Bottom	3.8	3	2	11:06	28.4	7.81	20.1	4.83	9.93	15.9	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	13:16	28.9	7.81	19.5	5.71	8.32	12.8	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	13:16	29	7.81	19.5	5.68	8.96	10.8	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	CS(Mf)5	Middle	5	2	1	13:16	28.5	7.83	19.7	5.21	9.61	11.5	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	CS(Mf)5	Middle	5	2	2	13:16	28.5	7.88	19.8	5.17	9.73	13.6	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	CS(Mf)5	Bottom	9	3	1	13:16	28	7.91	21.6	4.83	10.06	12.1	2014-10-07
TMCLKL	HY/2012/07	2014-10-07	Mid-Ebb	Fine	CS(Mf)5	Bottom	9	3	2	13:16	28.1	7.85	21.4	4.86	10.31	12.4	2014-10-07
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	17:35	28.9	7.83	19.5	6.23	6.92	9.2	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	17:35	28.9	7.85	19.5	6.25	6.96	9.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	CS(Mf)5	Middle	5.2	2	1	17:35	28.5	7.92	20	6.09	7.64	10.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	CS(Mf)5	Middle	5.2	2	2	17:35	28.4	7.94	20.1	6.13	7.58	10	2014-10-10

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	CS(Mf)5	Bottom	9.3	3	1	17:35	28.2	7.98	21.5	5.94	8.77	12.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	CS(Mf)5	Bottom	9.3	3	2	17:35	28.2	7.99	21.4	5.9	8.71	12.2	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	SR4a	Surface	1	1	1	18:00	28.7	7.91	19.5	6.13	7.05	9.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	SR4a	Surface	1	1	2	18:00	28.6	7.9	19.4	6.07	7.01	9.2	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	SR4a	Middle		2	1	18:00							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	SR4a	Middle		2	2	18:00							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	SR4a	Bottom	4.8	3	1	18:00	28.4	7.96	19.8	5.78	7.73	10.3	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	SR4a	Bottom	4.8	3	2	18:00	28.5	7.92	19.8	5.8	7.71	10	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	SR4	Surface	1	1	1	18:21	29	7.9	19.7	6.08	6.93	9	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	SR4	Surface	1	1	2	18:21	28.9	7.89	19.7	6.05	6.99	9.2	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	SR4	Middle		2	1	18:21							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	SR4	Middle		2	2	18:21							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	SR4	Bottom	4.5	3	1	18:21	28.7	7.95	20.2	5.56	7.72	10.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	SR4	Bottom	4.5	3	2	18:21	28.7	7.93	20.1	5.5	7.63	10.2	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS8	Surface	1	1	1	18:42	28.7	7.93	19.5	5.86	7.11	9.5	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS8	Surface	1	1	2	18:42	28.6	7.9	19.4	5.81	7.15	9.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS8	Middle		2	1	18:42							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS8	Middle		2	2	18:42							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS8	Bottom	4.2	3	1	18:42	28.5	7.95	20	5.48	7.84	10.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS8	Bottom	4.2	3	2	18:42	28.4	7.94	19.9	5.4	7.77	10.2	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	19:02	29	7.9	19.6	5.95	7.18	9.3	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	19:02	28.9	7.88	19.6	5.93	7.1	9.2	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS(Mf)16	Middle	5.3	2	1	19:02	28.8	7.93	19.8	5.62	7.74	10.2	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS(Mf)16	Middle	5.3	2	2	19:02	28.7	7.95	19.7	5.66	7.79	10.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS(Mf)16	Bottom	9.5	3	1	19:02	28.4	8.04	20.5	5.28	8.39	11.2	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS(Mf)16	Bottom	9.5	3	2	19:02	28.3	8.03	20.4	5.24	8.33	11	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	19:27	28.8	7.94	19.4	6.11	7.16	9.5	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	19:27	28.7	7.95	19.5	6.07	7.13	9.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	19:27							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	19:27							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS(Mf)9	Bottom	4.8	3	1	19:27	28.4	8.03	19.8	5.63	7.67	10.3	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	IS(Mf)9	Bottom	4.8	3	2	19:27	28.3	8.05	19.8	5.6	7.58	10	2014-10-10

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	19:45	28.8	7.91	19.5	5.81	7.14	9.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	19:45	28.7	7.92	19.5	5.77	7.19	9.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	CS(Mf)3	Middle	6.6	2	1	19:45	28.7	7.93	19.5	5.49	7.8	10.3	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	CS(Mf)3	Middle	6.6	2	2	19:45	28.7	7.95	19.6	5.53	7.72	10.2	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	CS(Mf)3	Bottom	12.1	3	1	19:45	28.1	7.96	20.1	5.34	8.35	11.2	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Flood	Fine	CS(Mf)3	Bottom	12.1	3	2	19:45	28.2	7.94	20	5.36	8.41	11	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	12:06	28.9	7.72	19.5	5.73	7.36	9.8	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	12:06	29	7.7	19.6	5.7	7.34	9.8	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	CS(Mf)3	Middle	6.4	2	1	12:06	28.5	7.63	20	5.36	7.93	10.8	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	CS(Mf)3	Middle	6.4	2	2	12:06	28.5	7.65	20.1	5.38	7.91	10.6	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	CS(Mf)3	Bottom	11.8	3	1	12:06	28	7.83	21.5	5.22	8.02	10.8	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	CS(Mf)3	Bottom	11.8	3	2	12:06	28.1	7.85	21.5	5.24	8.04	11	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	SR4a	Surface	1	1	1	14:20	28.9	7.72	19.5	6.03	7.11	9.3	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	SR4a	Surface	1	1	2	14:20	28.8	7.74	19.5	6.05	7.13	9.5	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	SR4a	Middle		2	1	14:20							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	SR4a	Middle		2	2	14:20							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	SR4a	Bottom	4.5	3	1	14:20	28.5	7.66	19.9	5.62	7.8	10.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	SR4a	Bottom	4.5	3	2	14:20	28.5	7.68	20	5.64	7.82	10.6	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	SR4	Surface	1	1	1	13:54	29	7.76	19.5	5.93	6.99	9.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	SR4	Surface	1	1	2	13:54	29.1	7.78	19.6	5.95	7.02	9.5	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	SR4	Middle		2	1	13:54							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	SR4	Middle		2	2	13:54							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	SR4	Bottom	4.3	3	1	13:54	28.5	7.82	20	5.46	7.85	10.6	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	SR4	Bottom	4.3	3	2	13:54	28.6	7.84	20	5.48	7.88	10.4	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	IS8	Surface	1	1	1	13:28	29	7.63	19.5	5.73	7.22	9.7	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	IS8	Surface	1	1	2	13:28	28.9	7.61	19.4	5.75	7.2	9.6	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	IS8	Middle		2	1	13:28							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	IS8	Middle		2	2	13:28							2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	IS8	Bottom	3.9	3	1	13:28	28.5	7.82	19.9	5.36	7.92	10.8	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	IS8	Bottom	3.9	3	2	13:28	28.5	7.8	20	5.38	7.94	11	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	13:02	29	7.85	19.4	5.89	7.3	9.8	2014-10-10
TMCLKL	HY/2012/07	2014-10-09	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	13:02	29	7.87	19.4	5.91	7.32	9.8	2014-10-10

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	SR4	Bottom	4.6	3	1	08:59	28.4	7.88	20	5.52	7.91	9.5	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	SR4	Bottom	4.6	3	2	08:59	28.5	7.9	20.1	5.54	7.94	12.7	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS8	Surface	1	1	1	09:21	28.9	7.69	19.6	5.79	7.13	9.3	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS8	Surface	1	1	2	09:21	28.8	7.67	19.5	5.81	7.11	10	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS8	Middle		2	1	09:21							2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS8	Middle		2	2	09:21							2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS8	Bottom	4.2	3	1	09:21	28.4	7.88	20.1	5.42	7.83	12.5	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS8	Bottom	4.2	3	2	09:21	28.4	7.86	20	5.44	7.85	12.6	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	09:43	28.9	7.91	19.4	5.95	7.21	10.1	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	09:43	28.9	7.93	19.5	5.97	7.23	10.1	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS(Mf)16	Middle	5.2	2	1	09:43	28.5	7.75	20	5.6	7.79	10.9	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS(Mf)16	Middle	5.2	2	2	09:43	28.4	7.77	19.9	5.62	7.81	10.2	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS(Mf)16	Bottom	9.4	3	1	09:43	27.9	7.79	21.6	5.23	8.34	10.8	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS(Mf)16	Bottom	9.4	3	2	09:43	28	7.81	21.7	5.25	8.36	12.5	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	10:05	29	7.79	19.5	6.13	7.13	10.7	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	10:05	27.9	7.77	19.6	6.11	7.15	10	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	10:05							2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	10:05							2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS(Mf)9	Bottom	4.8	3	1	10:05	28.6	7.75	20.1	5.64	7.67	9.2	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	IS(Mf)9	Bottom	4.8	3	2	10:05	28.5	7.74	20.2	5.62	7.7	10	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	10:29	28.9	7.78	19.6	5.79	7.27	8.7	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	10:29	28.8	7.76	19.7	5.76	7.25	9.4	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	CS(Mf)3	Middle	6.6	2	1	10:29	28.3	7.69	20.1	5.42	7.84	12.5	
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	CS(Mf)3	Middle	6.6	2	2	10:29	28.4	7.71	20.2	5.44	7.82	11	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	CS(Mf)3	Bottom	12.2	3	1	10:29	28	7.89	21.5	5.28	7.93	10.3	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Flood	Fine	CS(Mf)3	Bottom	12.2	3	2	10:29	27.9	7.91	21.6	5.3	7.95	9.5	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	13:01	29	7.74	19.6	5.87	7.78	10.1	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	13:01	28.9	7.74	19.6	5.89	7.75	10.9	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	CS(Mf)3	Middle	6.2	2	1	13:01	28.5	7.76	20.2	5.72	8.12	11.4	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	CS(Mf)3	Middle	6.2	2	2	13:01	28.4	7.77	20.1	5.75	8.08	12.1	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	CS(Mf)3	Bottom	11.4	3	1	13:01	28.3	7.76	20.9	5.53	8.33	12.5	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	CS(Mf)3	Bottom	11.4	3	2	13:01	28.3	7.75	20.9	5.5	8.37	12.6	2014-10-13

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	SR4a	Surface	1	1	1	14:45	29	7.77	19.5	5.92	7.58	10.6	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	SR4a	Surface	1	1	2	14:45	29	7.78	19.5	5.95	7.55	10.6	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	SR4a	Middle		2	1	14:45							2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	SR4a	Middle		2	2	14:45							2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	1	14:45	28.5	7.79	20.7	5.48	8.11	10.5	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	2	14:45	28.4	7.78	20.7	5.53	8.06	11.3	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	SR4	Surface	1	1	1	14:25	29.1	7.76	19.5	5.73	7.27	9.5	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	SR4	Surface	1	1	2	14:25	29.1	7.77	19.5	5.7	7.24	11.6	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	SR4	Middle		2	1	14:25							2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	SR4	Middle		2	2	14:25							2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	SR4	Bottom	3.8	3	1	14:25	28.6	7.79	20.1	5.43	7.67	10.7	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	SR4	Bottom	3.8	3	2	14:25	28.5	7.79	20.2	5.4	7.61	9.1	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS8	Surface	1	1	1	14:10	29.1	7.76	19.4	5.89	7.43	10.4	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS8	Surface	21	1	2	14:10	29	7.76	19.4	5.85	7.4	11.1	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS8	Middle		2	1	14:10							2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS8	Middle		2	2	14:10							2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS8	Bottom	3.6	3	1	14:10	28.5	7.78	20.3	5.37	8.08	11.3	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS8	Bottom	3.6	3	2	14:10	28.4	7.78	20.3	5.35	8.05	12.9	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	13:55	29	7.75	19.4	5.75	7.14	10.7	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	13:55	29.1	7.76	19.5	5.71	7.1	9.2	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS(Mf)16	Middle	4.7	2	1	13:55	28.4	7.77	20.4	5.5	8.02	10.4	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS(Mf)16	Middle	4.7	2	2	13:55	28.4	7.77	20.4	5.54	8.06	11.3	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.4	3	1	13:55	28.3	7.78	20.8	5.41	8.19	13.1	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.4	3	2	13:55	28.3	7.78	20.7	5.45	8.17	9.8	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	13:35	29	7.75	19.5	5.94	7.44	9.7	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	13:35	29	7.75	19.5	5.97	7.4	8.9	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	13:35							2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	13:35							2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.2	3	1	13:35	28.3	7.76	20.2	5.69	8.09	12.9	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.2	3	2	13:35	28.3	7.75	20.2	5.65	8.07	11.3	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	15:10	29.1	7.78	19.6	5.89	7.07	9.9	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	15:10	29	7.78	19.6	5.86	7.02	8.4	2014-10-13

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	CS(Mf)5	Middle	4.8	2	1	15:10	28.4	7.78	20.4	5.66	7.74	12.4	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	CS(Mf)5	Middle	4.8	2	2	15:10	28.4	7.79	20.4	5.62	7.7	9.2	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.6	3	1	15:10	28.2	7.79	21	5.53	8.02	11.2	2014-10-13
TMCLKL	HY/2012/07	2014-10-11	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.6	3	2	15:10	28.1	7.8	21	5.5	8.06	9.7	2014-10-13
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	10:06	28.9	7.86	19.6	6.26	7.84	11.8	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	10:06	29	7.88	19.7	6.28	7.86	9.4	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	CS(Mf)5	Middle	5.3	2	1	10:06	28.5	7.75	20.1	6.06	8.54	11.1	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	CS(Mf)5	Middle	5.3	2	2	10:06	28.6	7.73	20.2	6.08	8.56	12.8	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	CS(Mf)5	Bottom	9.6	3	1	10:06	28.2	7.92	21.7	5.99	8.85	13.3	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	CS(Mf)5	Bottom	9.6	3	2	10:06	28.1	7.94	21.6	5.97	8.87	14.2	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	SR4a	Surface	1	1	1	10:32	28.9	7.84	19.6	6.15	7.93	11.1	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	SR4a	Surface	1	1	2	10:32	28.8	7.86	19.7	6.17	7.95	10.3	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	SR4a	Middle		2	1	10:32							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	SR4a	Middle		2	2	10:32							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	SR4a	Bottom	4.8	3	1	10:32	28.4	7.78	20.2	5.74	8.62	13.8	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	SR4a	Bottom	4.8	3	2	10:32	28.5	7.8	20.1	5.76	8.64	11.2	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	SR4	Surface	1	1	1	10:58	29.1	7.88	19.8	6.05	7.81	11.7	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	SR4	Surface	1	1	2	10:58	29	7.9	19.7	6.07	7.84	11.8	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	SR4	Middle		2	1	10:58							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	SR4	Middle		2	2	10:58							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	SR4	Bottom	4.8	3	1	10:58	28.5	7.94	20.1	5.58	8.82	10.6	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	SR4	Bottom	4.8	3	2	10:58	28.6	7.96	20.2	5.6	8.85	13.3	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS8	Surface	1	1	1	11:24	29	7.75	19.6	5.85	8.19	9.8	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS8	Surface	1	1	2	11:24	28.9	7.73	19.7	5.87	8.17	11.4	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS8	Middle		2	1	11:24							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS8	Middle		2	2	11:24							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS8	Bottom	4.4	3	1	11:24	28.5	7.94	20.2	5.48	8.89	11.6	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS8	Bottom	4.4	3	2	11:24	28.4	7.92	20.2	5.5	8.91	11.6	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	11:50	29	7.97	19.5	6.01	7.12	10	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	11:50	29	7.99	19.6	6.03	7.14	8.6	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS(Mf)16	Middle	5.4	2	1	11:50	28.5	7.81	20.1	5.66	7.85	10.2	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS(Mf)16	Middle	5.4	2	2	11:50	28.6	7.83	20	5.68	7.87	12.6	2014-10-15

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water-Depth	Lev-Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS(Mf)16	Bottom	9.8	3	1	11:50	28.1	7.85	21.7	5.29	8.4	11.8	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS(Mf)16	Bottom	9.8	3	2	11:50	28	7.87	21.8	5.31	8.42	10.9	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	12:16	29.1	7.85	19.7	6.19	8.19	11.5	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	12:16	29	7.83	19.6	6.17	8.21	11.5	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	12:16							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	12:16							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS(Mf)9	Bottom	4.2	3	1	12:16	28.7	7.81	20.2	5.7	8.73	10.5	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	IS(Mf)9	Bottom	4.2	3	2	12:16	28.6	7.8	20.3	5.68	8.76	12.3	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	12:46	29	7.84	19.7	5.85	8.18	10.6	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	12:46	28.9	7.82	19.8	5.82	8.16	11.4	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	CS(Mf)3	Middle	6.8	2	1	12:46	28.5	7.75	20.2	5.48	8.75	10.5	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	CS(Mf)3	Middle	6.8	2	2	12:46	28.4	7.77	20.3	5.5	8.73	11.3	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	CS(Mf)3	Bottom	12.6	3	1	12:46	28	7.95	21.7	5.34	8.99	11.7	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Flood	Fine	CS(Mf)3	Bottom	12.6	3	2	12:46	28.1	7.97	21.6	5.36	9.01	11.7	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	15:12	29.1	7.64	19.5	5.79	8.11	13	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	15:12	29.2	7.66	19.6	5.76	8.09	12.1	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	CS(Mf)3	Middle	6.7	2	1	15:12	28.7	7.75	20.2	5.35	8.63	10.4	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	CS(Mf)3	Middle	6.7	2	2	15:12	28.6	7.77	20.2	5.37	8.61	11.2	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	CS(Mf)3	Bottom	12.4	3	1	15:12	28.1	21.6	21.6	5.26	8.73	13.1	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	CS(Mf)3	Bottom	12.4	3	2	15:12	28.2	21.7	21.6	5.28	8.75	12.3	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	SR4a	Surface	1	1	1	17:22	28.9	7.74	19.5	6.07	8.02	9.6	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	SR4a	Surface	1	1	2	17:22	29	7.76	19.5	6.09	8.04	11.3	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	SR4a	Middle		2	1	17:22							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	SR4a	Middle		2	2	17:22							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	SR4a	Bottom	4.5	3	1	17:22	28.5	7.69	20	5.64	8.77	14	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	SR4a	Bottom	4.5	3	2	17:22	28.5	7.69	20.1	5.66	8.79	13.2	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	SR4	Surface	1	1	1	16:56	29	7.77	19.4	5.93	7.94	10.3	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	SR4	Surface	1	1	2	16:56	28.9	7.75	19.5	5.95	7.96	11.1	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	SR4	Middle		2	1	16:56							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	SR4	Middle		2	2	16:56							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	SR4	Bottom	4.5	3	1	16:56	28.6	7.83	20	5.43	8.99	11.7	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	SR4	Bottom	4.5	3	2	16:56	28.7	7.85	19.9	5.45	9.01	10.8	2014-10-15

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS8	Surface	1	1	1	16:30	29	7.65	19.5	5.76	8.24	13.2	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS8	Surface	1	1	2	16:30	29.1	7.67	19.6	5.78	8.26	9.9	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS8	Middle		2	1	16:30							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS8	Middle		2	2	16:30							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS8	Bottom	4.2	3	1	16:30	28.5	7.73	20	5.39	9.03	14.4	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS8	Bottom	4.2	3	2	16:30	28.6	7.75	20.1	5.37	9.05	11.8	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	16:04	29	7.88	19.6	5.98	7.63	9.9	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	16:04	29	7.86	19.6	5.96	7.65	11.5	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS(Mf)16	Middle	5.3	2	1	16:04	28.5	7.69	19.9	5.58	7.92	11.1	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS(Mf)16	Middle	5.3	2	2	16:04	28.6	7.71	20	5.56	7.94	9.5	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS(Mf)16	Bottom	9.6	3	1	16:04	28.1	7.65	21.5	5.17	8.55	11.1	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS(Mf)16	Bottom	9.6	3	2	16:04	28.2	7.67	21.6	5.15	8.57	13.7	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	15:38	29	7.73	19.5	6.09	8.03	11.2	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	15:38	28.9	7.75	19.4	6.07	8.05	12.1	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	15:38							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	15:38							2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS(Mf)9	Bottom	4	3	1	15:38	28.5	7.66	20	5.63	8.66	12.1	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	IS(Mf)9	Bottom	4	3	2	15:38	28.4	7.68	20	5.65	8.68	11.3	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	17:50	29	7.73	19.5	6.13	7.93	11.1	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	17:50	29.1	7.75	19.6	6.15	7.95	10.3	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	CS(Mf)5	Middle	5.2	2	1	17:50	28.6	7.69	20	5.93	8.66	13.9	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	CS(Mf)5	Middle	5.2	2	2	17:50	28.5	7.68	20.1	5.95	8.69	13	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	CS(Mf)5	Bottom	9.3	3	1	17:50	28	7.83	21.5	5.76	8.92	12.5	2014-10-15
TMCLKL	HY/2012/07	2014-10-14	Mid-Ebb	Fine	CS(Mf)5	Bottom	9.3	3	2	17:50	28.1	7.85	21.6	5.78	8.9	13.4	2014-10-15
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	17:17	28	7.66	20.1	6.24	7.84	11	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	17:17	27.9	7.68	20.2	6.26	7.82	9.4	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	CS(Mf)5	Middle	5.3	2	1	17:17	27.7	7.74	20.3	6.03	8.59	12	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	CS(Mf)5	Middle	5.3	2	2	17:17	27.6	7.76	20.4	6.05	8.57	10.3	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	CS(Mf)5	Bottom	9.6	3	1	17:17	27.5	7.83	20.5	5.88	8.66	13	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	CS(Mf)5	Bottom	9.6	3	2	17:17	27.4	7.85	20.5	5.9	8.69	13.9	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	SR4a	Surface	1	1	1	17:39	27.9	7.73	20.2	6.11	7.93	11.9	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	SR4a	Surface	1	1	2	17:39	27.8	7.75	20.2	6.13	7.91	11.1	2014-10-17

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	SR4a	Middle		2	1	17:39							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	SR4a	Middle		2	2	17:39							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	SR4a	Bottom	4.7	3	1	17:39	27.6	7.62	20.3	5.77	8.45	13.5	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	SR4a	Bottom	4.7	3	2	17:39	27.5	7.64	20.4	5.75	8.47	12.7	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	SR4	Surface	1	1	1	18:01	27.9	7.74	20.1	6.04	7.72	11.6	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	SR4	Surface	1	1	2	18:01	27.9	7.76	20.2	6.06	7.7	12.3	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	SR4	Middle		2	1	18:01							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	SR4	Middle		2	2	18:01							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	SR4	Bottom	3.9	3	1	18:01	27.6	7.81	20.3	5.67	8.63	12.1	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	SR4	Bottom	3.9	3	2	18:01	27.5	7.83	20.3	5.69	8.65	12.1	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS8	Surface	1	1	1	18:31	28	7.65	20	5.89	8.03	12	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS8	Surface	1	1	2	18:31	28.1	7.63	20	5.91	8.05	12.1	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS8	Middle		2	1	18:31							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS8	Middle		2	2	18:31							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS8	Bottom	4.1	3	1	18:31	27.7	7.72	20.1	5.62	8.72	10.5	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS8	Bottom	4.1	3	2	18:31	27.8	7.74	20.2	5.6	8.74	13.1	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	18:51	28	7.73	20.1	6.15	7.43	11.9	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	18:51	27.9	7.75	20.2	6.17	7.4	9.6	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS(Mf)16	Middle	5	2	1	18:51	27.7	7.62	20.3	5.72	7.73	9.3	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS(Mf)16	Middle	5	2	2	18:51	27.6	7.64	20.3	5.75	7.71	11.6	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS(Mf)16	Bottom	8.9	3	1	18:51	27.5	7.85	20.5	5.23	8.43	11.8	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS(Mf)16	Bottom	8.9	3	2	18:51	27.5	7.87	20.4	5.25	8.4	11.8	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	19:11	28	7.73	20	6.15	7.92	9.5	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	19:11	27.9	7.75	20.1	6.17	7.94	10.3	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	19:11							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	19:11							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS(Mf)9	Bottom	4.3	3	1	19:11	28.7	7.66	20.2	5.71	8.43	12.6	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	IS(Mf)9	Bottom	4.3	3	2	19:11	28.6	7.68	20.3	5.73	8.45	11	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	19:37	27.9	7.68	20.1	5.82	8.02	12.8	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	19:37	27.8	7.7	20.2	5.84	8.04	12.9	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	CS(Mf)3	Middle	6.8	2	1	19:37	27.6	7.73	20.3	5.44	8.47	11.9	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	CS(Mf)3	Middle	6.8	2	2	19:37	27.7	7.75	20.3	5.46	8.49	11.9	2014-10-17

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	CS(Mf)3	Bottom	12.6	3	1	19:37	27.5	7.83	20.4	5.31	8.59	11.2	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Flood	Fine	CS(Mf)3	Bottom	12.6	3	2	19:37	27.5	7.85	20.5	5.33	8.57	13.7	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	05:32	27.8	7.71	20.1	5.93	7.39	11.1	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	05:32	27.9	7.69	20.2	5.9	7.46	10.4	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	CS(Mf)3	Middle	6.6	2	1	05:32	27.3	7.72	20.7	5.31	8.03	12.8	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	CS(Mf)3	Middle	6.6	2	2	05:32	27.4	7.71	20.8	5.21	8.13	12.2	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	CS(Mf)3	Bottom	12.1	3	1	05:32	27	7.81	21.1	4.96	9.14	12.8	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	CS(Mf)3	Bottom	12.1	3	2	05:32	26.9	7.79	21	4.9	9.19	12.9	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	SR4a	Surface	1	1	1	07:22	28	7.69	20	5.99	8.03	12	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	SR4a	Surface	1	1	2	07:22	28	7.7	20	5.98	7.99	9.6	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	SR4a	Middle		2	1	07:22							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	SR4a	Middle		2	2	07:22							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	SR4a	Bottom	4	3	1	07:22	27.4	7.73	20.6	5.02	8.73	11.3	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	SR4a	Bottom	4	3	2	07:22	27.5	7.73	20.5	5.11	8.77	10.5	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	SR4	Surface	1	1	1	07:00	28	7.66	20	5.99	7.72	12.4	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	SR4	Surface	1	1	2	07:00	27.9	7.69	20	5.93	7.69	10.8	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	SR4	Middle		2	1	07:00							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	SR4	Middle		2	2	07:00							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	SR4	Bottom	3.2	3	1	07:00	27.5	7.7	20.7	5.02	8.73	12.2	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	SR4	Bottom	3.2	3	2	07:00	27.5	7.71	20.6	5	8.88	11.5	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS8	Surface	1	1	1	06:38	28	7.65	20.1	5.86	7.69	10.8	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS8	Surface	1	1	2	06:38	27.9	7.7	20	5.89	7.5	9	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS8	Middle		2	1	06:38							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS8	Middle		2	2	06:38							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS8	Bottom	3.6	3	1	06:38	27.4	7.73	20.6	5.11	8.33	12.5	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS8	Bottom	3.6	3	2	06:38	27.5	7.71	20.6	5.03	8.52	11.1	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	06:16	27.9	7.7	20.1	5.88	7.76	10.9	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	06:16	27.8	7.72	20.1	5.82	8.04	10.5	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS(Mf)16	Middle	4.7	2	1	06:16	27.4	7.73	20.6	5.32	8.32	10.8	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS(Mf)16	Middle	4.7	2	2	06:16	27.3	7.72	20.5	5.3	8.55	12	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.3	3	1	06:16	27	7.8	20.9	5.06	9.06	11.8	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.3	3	2	06:16	27.1	7.79	21.1	4.96	9.77	11.7	2014-10-17

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water-Depth	Lev-Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	05:54	27.9	7.68	20	5.89	7.02	9.1	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	05:54	27.9	7.72	20.1	5.93	7.32	11.7	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	05:54							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	05:54							2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS(Mf)9	Bottom	3.9	3	1	05:54	27.4	7.7	20.7	5	7.93	9.5	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	IS(Mf)9	Bottom	3.9	3	2	05:54	27.4	7.77	20.6	4.96	8.26	13.2	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	07:45	28	7.66	20.1	5.96	7.86	11.8	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	07:45	28	7.69	20.2	5.93	8.02	12.8	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	CS(Mf)5	Middle	5.1	2	1	07:45	27.6	7.73	20.6	5.33	8.56	12	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	CS(Mf)5	Middle	5.1	2	2	07:45	27.5	7.72	20.7	5.32	8.96	12.5	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	CS(Mf)5	Bottom	9.1	3	1	07:45	27.3	7.79	20.8	5.06	9.37	15	2014-10-17
TMCLKL	HY/2012/07	2014-10-16	Mid-Ebb	Fine	CS(Mf)5	Bottom	9.1	3	2	07:45	27.2	7.78	20.8	4.96	9.33	12.1	2014-10-17
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	14:40	29.1	7.86	19.4	6.01	7.34	9.5	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	14:40	29.2	7.87	19.5	6.04	7.31	9.8	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	CS(Mf)5	Middle	5.1	2	1	14:40	28.7	7.88	22.5	5.83	7.89	10.4	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	CS(Mf)5	Middle	5.1	2	2	14:40	28.6	7.89	20.6	5.8	7.86	10.2	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	CS(Mf)5	Bottom	9.2	3	1	14:40	28.4	7.89	21.3	5.67	8.3	11	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	CS(Mf)5	Bottom	9.2	3	2	14:40	28.3	7.88	21.2	5.63	8.26	10.7	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	SR4a	Surface	1	1	1	15:06	29.2	7.88	19.4	5.89	7.58	10	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	SR4a	Surface	1	1	2	15:06	29.1	7.87	19.3	5.86	7.55	9.8	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	SR4a	Middle		2	1	15:06							2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	SR4a	Middle		2	2	15:06							2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	SR4a	Bottom	4.4	3	1	15:06	28.3	7.89	20.4	5.58	8.36	11.1	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	SR4a	Bottom	4.4	3	2	15:06	28.3	7.9	20.5	5.54	8.31	10.8	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	SR4	Surface	1	1	1	15:32	29.1	7.85	19.3	5.74	7.85	10.3	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	SR4	Surface	1	1	2	15:32	29.2	7.84	19.4	5.71	7.81	10.2	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	SR4	Middle		2	1	15:32							2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	SR4	Middle		2	2	15:32							2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	SR4	Bottom	3.8	3	1	15:32	28.8	7.85	20.1	5.59	8.18	10.9	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	SR4	Bottom	3.8	3	2	15:32	28.8	7.86	20.2	5.56	8.15	10.6	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	IS8	Surface	1	1	1	15:58	29	7.86	19.4	5.8	7.98	10.5	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Flood	Fine	IS8	Surface	1	1	2	15:58	28.9	7.87	19.3	5.76	7.95	10.3	2014-10-21

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	SR4a	Bottom	3.8	3	1	10:20	28.4	7.83	20.4	5.52	8.45	11.2	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	SR4a	Bottom	3.8	3	2	10:20	28.4	7.83	20.5	5.48	8.4	10.9	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	SR4	Surface	1	1	1	10:00	29	7.79	19.3	5.68	7.94	10.7	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	SR4	Surface	1	1	2	10:00	29.1	7.78	19.3	5.65	7.9	10.4	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	SR4	Middle		2	1	10:00							2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	SR4	Middle		2	2	10:00							2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	SR4	Bottom	3.6	3	1	10:00	28.7	7.79	20.1	5.53	8.27	10.9	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	SR4	Bottom	3.6	3	2	10:00	28.7	7.8	20.1	5.5	8.24	11.1	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS8	Surface	1	1	1	09:35	29	7.8	19.3	5.74	8.07	10.6	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS8	Surface	1	1	2	09:35	29	7.81	19.3	5.7	8.04	10.5	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS8	Middle		2	1	09:35							2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS8	Middle		2	2	09:35							2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS8	Bottom	3.8	3	1	09:35	28.4	7.8	20.2	5.62	8.58	11.4	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS8	Bottom	3.8	3	2	09:35	28.3	7.8	20.1	5.58	8.55	11.2	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	09:00	29	7.78	19.4	5.88	7.99	10.4	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	09:00	28.9	7.79	19.4	5.84	7.95	10.6	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS(Mf)16	Middle	4.95	2	1	09:00	28.4	7.8	20.4	5.75	8.63	11.5	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS(Mf)16	Middle	4.95	2	2	09:00	28.4	7.78	20.3	5.78	8.6	11.3	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.9	3	1	09:00	28.1	7.79	20.9	5.6	8.72	11.4	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.9	3	2	09:00	28.1	7.79	20.9	5.64	8.69	11.5	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	08:35	29	7.75	19.3	5.92	7.67	10	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	08:35	28.9	7.74	19.4	5.89	7.65	10.2	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	08:35							2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	08:35							2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS(Mf)9	Bottom	3.4	3	1	08:35	28.6	7.77	19.9	5.75	8.24	11	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	IS(Mf)9	Bottom	3.4	3	2	08:35	28.7	7.78	20	5.79	8.2	10.8	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	10:35	29.1	7.8	19.4	5.95	7.43	9.9	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	10:35	29.1	7.81	19.4	5.98	7.4	9.6	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	CS(Mf)5	Middle	4.9	2	1	10:35	28.6	7.82	20.5	5.77	7.98	10.6	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	CS(Mf)5	Middle	4.9	2	2	10:35	28.5	7.83	20.5	5.74	7.95	10.5	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.8	3	1	10:35	28.3	7.83	21.2	5.61	8.39	11.3	2014-10-21
TMCLKL	HY/2012/07	2014-10-18	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.8	3	2	10:35	28.2	7.82	21.2	5.57	7.35	10.8	2014-10-21

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	15:53	27.6	7.88	26.7	6.58	7.91	11.9	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	15:53	27.5	7.89	26.6	6.55	7.79	11.7	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	CS(Mf)5	Middle	4.9	2	1	15:53	27.6	7.92	26.7	6.5	7.52	9.8	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	CS(Mf)5	Middle	4.9	2	2	15:53	27.6	7.93	26.8	6.47	7.58	12.1	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	CS(Mf)5	Bottom	8.8	3	1	15:53	27.6	7.97	26.9	6.31	8.04	9.7	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	CS(Mf)5	Bottom	8.8	3	2	15:53	27.7	7.98	26.9	6.27	8.11	11.4	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	SR4a	Surface	1	1	1	16:23	27.7	7.89	26.7	6.53	7.38	11.1	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	SR4a	Surface	1	1	2	16:23	27.6	7.9	26.7	6.49	7.46	11.2	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	SR4a	Middle		2	1	16:23							2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	SR4a	Middle		2	2	16:23							2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	SR4a	Bottom	4	3	1	16:23	27.7	7.95	26.7	6.4	6.92	10.4	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	SR4a	Bottom	4	3	2	16:23	27.6	7.96	26.8	6.37	6.85	10.3	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	SR4	Surface	1	1	1	16:43	27.7	7.84	26.7	6.44	6.07	8.5	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	SR4	Surface	1	1	2	16:43	27.6	7.85	26.7	6.48	5.99	9	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	SR4	Middle		2	1	16:43							2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	SR4	Middle		2	2	16:43							2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	SR4	Bottom	3.8	3	1	16:43	27.7	7.88	26.7	6.53	6.24	9.4	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	SR4	Bottom	3.8	3	2	16:43	27.7	7.89	26.8	6.55	6.3	8.8	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS8	Surface	1	1	1	17:01	27.7	7.86	26.7	6.57	6.18	9.3	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS8	Surface	1	1	2	17:01	27.8	7.87	26.8	6.54	6.25	8.1	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS8	Middle		2	1	17:01							2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS8	Middle		2	2	17:01							2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS8	Bottom	4	3	1	17:01	27.7	7.87	26.8	6.59	6.53	9.1	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS8	Bottom	4	3	2	17:01	27.7	7.88	26.8	6.61	6.61	10.6	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	17:22	27.8	7.89	26.8	6.59	5.97	7.8	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	17:22	27.8	7.9	26.8	6.55	6.04	9.1	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS(Mf)16	Middle	4.7	2	1	17:22	27.8	7.84	26.8	6.5	5.88	7.1	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS(Mf)16	Middle	4.7	2	2	17:22	27.8	7.85	26.9	6.47	5.92	8.9	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS(Mf)16	Bottom	8.4	3	1	17:22	27.8	7.87	26.9	6.38	6.58	9.2	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS(Mf)16	Bottom	8.4	3	2	17:22	27.7	7.88	27	6.4	6.66	10	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	17:50	27.8	7.87	26.8	6.63	6.16	9.9	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	17:50	27.7	7.88	26.8	6.6	6.23	7.5	2014-10-22

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS8	Bottom	3.7	3	1	11:02	27.6	9.82	26.7	6.52	5.81	7.6	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS8	Bottom	3.7	3	2	11:02	27.6	9.8	26.7	6.54	5.77	9.2	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	10:37	27.6	7.85	26.7	6.51	6.04	6.1	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	10:37	27.7	7.84	26.7	6.48	6.11	7.3	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS(Mf)16	Middle	4.5	2	1	10:37	27.7	7.87	26.8	6.45	5.93	9.5	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS(Mf)16	Middle	4.5	2	2	10:37	27.7	7.86	26.7	6.41	6.02	7.2	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS(Mf)16	Bottom	8	3	1	10:37	27.7	7.9	26.9	6.33	6.71	9.4	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS(Mf)16	Bottom	8	3	2	10:37	27.6	7.89	26.8	6.35	6.77	9.5	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	10:12	27.7	7.84	26.7	6.56	6.27	10	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	10:12	27.6	7.85	26.6	6.53	6.35	8.3	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	10:12							2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	10:12							2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS(Mf)9	Bottom	3.8	3	1	10:12	27.6	7.84	26.7	6.5	6.63	8.6	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	IS(Mf)9	Bottom	3.8	3	2	10:12	27.5	7.84	26.6	6.46	6.74	8.1	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	12:18	27.4	7.85	26.6	6.49	7.84	9.1	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	12:18	27.5	7.85	26.5	6.53	7.96	9	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	CS(Mf)5	Middle	4.8	2	1	12:18	27.5	7.9	26.7	6.43	7.63	8.9	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	CS(Mf)5	Middle	4.8	2	2	12:18	27.5	7.89	26.6	6.4	7.72	11.1	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.6	3	1	12:18	27.6	7.95	26.8	6.26	8.17	9.1	2014-10-22
TMCLKL	HY/2012/07	2014-10-21	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.6	3	2	12:18	27.6	7.94	26.8	6.22	8.22	12.2	2014-10-22
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	16:42	27.9	7.68	21	6.29	7.48	10.5	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	16:42	27.9	7.69	20.9	6.27	7.5	12	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	CS(Mf)5	Middle	5.3	2	1	16:42	27.6	7.77	21.2	6.19	7.58	11.4	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	CS(Mf)5	Middle	5.3	2	2	16:42	27.7	7.79	21.2	6.17	7.6	11.4	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	CS(Mf)5	Bottom	9.6	3	1	16:42	27.5	7.55	21.4	6.04	7.74	11.6	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	CS(Mf)5	Bottom	9.6	3	2	16:42	27.5	7.58	21.5	6.02	7.77	10.9	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	SR4a	Surface	1	1	1	17:14	27.8	7.57	21	6.06	7.75	11.6	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	SR4a	Surface	1	1	2	17:14	27.7	7.59	21	6.09	7.73	10	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	SR4a	Middle		2	1	17:14							2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	SR4a	Middle		2	2	17:14							2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	SR4a	Bottom	4.8	3	1	17:14	27.5	7.68	21.2	5.78	7.86	9.4	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	SR4a	Bottom	4.8	3	2	17:14	27.5	7.65	21.2	5.76	7.88	10.2	2014-10-25

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	SR4	Surface	1	1	1	17:39	27.7	7.56	20.9	5.88	7.54	9	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	SR4	Surface	1	1	2	17:39	27.8	7.54	20.8	5.92	7.56	9.8	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	SR4	Middle		2	1	17:39							2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	SR4	Middle		2	2	17:39							2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	SR4	Bottom	3.8	3	1	17:39	27.5	7.69	21.1	5.68	7.79	10.1	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	SR4	Bottom	3.8	3	2	17:39	27.5	7.66	21.2	5.72	7.82	12.5	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS8	Surface	1	1	1	18:04	27.9	7.68	21.1	5.78	7.69	10	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS8	Surface	1	1	2	18:04	27.8	7.65	21.1	5.81	7.71	9.3	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS8	Middle		2	1	18:04							2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS8	Middle		2	2	18:04							2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS8	Bottom	4.2	3	1	18:04	27.6	7.57	21.2	5.62	7.9	10.3	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS8	Bottom	4.2	3	2	18:04	27.6	7.6	21.2	5.64	7.94	10.3	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	18:29	28	7.53	20.8	6.1	7.48	10.5	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	18:29	27.9	7.56	20.9	6.08	7.51	10.5	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS(Mf)16	Middle	4.9	2	1	18:29	27.8	7.71	21	5.99	7.58	9.1	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS(Mf)16	Middle	4.9	2	2	18:29	27.7	7.69	21	6.01	7.6	9.9	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS(Mf)16	Bottom	8.8	3	1	18:29	27.5	7.74	21.3	5.4	7.81	12.5	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS(Mf)16	Bottom	8.8	3	2	18:29	27.5	7.76	21.2	5.43	7.8	10.9	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	18:54	27.7	7.6	21	6.1	7.58	12.1	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	18:54	27.8	7.62	21.1	6.13	7.62	10.7	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	18:54							2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	18:54							2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS(Mf)9	Bottom	4.4	3	1	18:54	27.6	7.68	21.2	5.7	7.69	12.3	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	IS(Mf)9	Bottom	4.4	3	2	18:54	27.5	7.7	21.2	5.74	7.7	10	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	19:19	27.9	7.68	21	5.79	7.78	10.1	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	19:19	27.9	7.69	21	5.82	7.8	12.5	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	CS(Mf)3	Middle	6.8	2	1	19:19	27.7	7.74	21.1	5.72	7.87	9.4	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	CS(Mf)3	Middle	6.8	2	2	19:19	27.7	7.76	21.1	5.7	7.84	11.8	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	CS(Mf)3	Bottom	12.6	3	1	19:19	27.5	7.56	21.3	5.31	8	11.2	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Flood	Fine	CS(Mf)3	Bottom	12.6	3	2	19:19	27.5	7.58	21.3	5.34	7.97	10.4	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	10:51	28	7.74	21	5.71	7.84	12.5	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	10:51	28.1	7.76	21.1	5.73	7.86	10.2	2014-10-25

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-23	Mid-Ebb	Fine	IS(Mf)9	Bottom	4	3	1	11:18	27.7	7.75	21.3	5.63	7.74	11.6	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Ebb	Fine	IS(Mf)9	Bottom	4	3	2	11:18	27.6	7.77	21.4	5.65	7.76	12.4	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	13:36	28	7.74	21	6.21	7.53	9.8	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	13:36	27.9	7.76	21.1	6.19	7.56	9.8	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Ebb	Fine	CS(Mf)5	Middle	5.2	2	1	13:36	27.7	7.83	21.3	6.13	7.63	10.7	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Ebb	Fine	CS(Mf)5	Middle	5.2	2	2	13:36	27.8	7.85	21.4	6.11	7.65	10.7	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Ebb	Fine	CS(Mf)5	Bottom	9.3	3	1	13:36	27.6	7.62	21.5	5.96	7.8	10.9	2014-10-25
TMCLKL	HY/2012/07	2014-10-23	Mid-Ebb	Fine	CS(Mf)5	Bottom	9.3	3	2	13:36	27.5	7.63	21.6	5.94	7.82	11.7	2014-10-25
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	07:25	26.7	7.79	21.2	6.19	6.53	9.8	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	07:25	26.8	7.8	21.1	6.14	6.58	9.9	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	CS(Mf)5	Middle	5.5	2	1	07:25	26.5	7.87	21.3	6	7.69	10.8	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	CS(Mf)5	Middle	5.5	2	2	07:25	26.6	7.86	21.4	5.92	7.64	9.2	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	CS(Mf)5	Bottom	9.9	3	1	07:25	26.4	7.71	21.6	5.89	7.8	10.9	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	CS(Mf)5	Bottom	9.9	3	2	07:25	26.3	7.73	21.5	5.93	7.85	10.2	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	SR4a	Surface	1	1	1	07:45	26.8	7.7	21	5.93	6.85	8.9	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	SR4a	Surface	1	1	2	07:45	26.8	7.69	21.1	6.01	6.78	8.1	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	SR4a	Middle		2	1	07:45							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	SR4a	Middle		2	2	07:45							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	SR4a	Bottom	4.7	3	1	07:45	26.6	7.79	21.5	5.63	8	12.8	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	SR4a	Bottom	4.7	3	2	07:45	26.7	7.78	21.4	5.71	7.93	11.9	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	SR4	Surface	1	1	1	08:04	26.5	7.71	21.2	5.82	6.63	8.6	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	SR4	Surface	1	1	2	08:04	26.6	7.7	21.1	5.73	6.56	10.5	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	SR4	Middle		2	1	08:04							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	SR4	Middle		2	2	08:04							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	SR4	Bottom	4.2	3	1	08:04	26.4	7.77	21.5	5.56	7.9	11.9	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	SR4	Bottom	4.2	3	2	08:04	26.3	7.78	21.4	5.62	7.84	10.2	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS8	Surface	1	1	1	08:24	26.8	7.79	21.2	5.64	6.7	8.7	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS8	Surface	1	1	2	08:24	26.7	7.78	21.1	5.69	6.77	10.2	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS8	Middle		2	1	08:24							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS8	Middle		2	2	08:24							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS8	Bottom	4.3	3	1	08:24	26.5	7.72	21.4	5.56	8	11.2	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS8	Bottom	4.3	3	2	08:24	26.4	7.71	21.5	5.5	8.04	9.6	2014-10-27

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water-Depth	Lev-Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	08:47	26.9	7.69	21.3	6.03	6.6	8.6	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	08:47	26.9	7.68	21.2	5.92	6.53	10.4	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS(Mf)16	Middle	5	2	1	08:47	26.6	7.8	21.4	5.85	7.64	11.5	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS(Mf)16	Middle	5	2	2	08:47	26.5	7.79	21.4	5.96	7.69	10.8	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS(Mf)16	Bottom	8.9	3	1	08:47	26.3	7.84	21.6	5.33	7.9	11.9	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS(Mf)16	Bottom	8.9	3	2	08:47	26.3	7.83	21.5	5.28	7.85	9.4	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	09:07	26.9	7.75	21.4	5.99	6.62	9.3	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	09:07	27	7.74	21.3	6.07	6.68	8	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	09:07							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	09:07							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS(Mf)9	Bottom	4.6	3	1	09:07	26.6	7.83	21.7	5.64	7.79	11.7	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	IS(Mf)9	Bottom	4.6	3	2	09:07	26.6	7.84	21.8	5.58	7.71	11.6	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	09:26	26.9	7.79	21	5.71	6.82	9.5	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	09:26	26.8	7.8	21.1	5.64	6.87	8.2	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	CS(Mf)3	Middle	6.9	2	1	09:26	26.6	7.84	21.4	5.57	7.96	9.6	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	CS(Mf)3	Middle	6.9	2	2	09:26	26.7	7.85	21.3	5.63	7.92	12.7	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	CS(Mf)3	Bottom	12.7	3	1	09:26	26.3	7.82	21.6	5.22	8.03	11.2	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Flood	Fine	CS(Mf)3	Bottom	12.7	3	2	09:26	26.4	7.81	21.6	5.17	8.09	11.3	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	12:04	28	7.8	21.1	5.62	6.9	9.7	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	12:04	27.9	7.82	21.2	5.64	6.92	9	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	CS(Mf)3	Middle	6.6	2	1	12:04	27.6	7.86	21.3	5.57	7.99	12.8	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	CS(Mf)3	Middle	6.6	2	2	12:04	27.7	7.88	21.2	5.55	7.97	10.4	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	CS(Mf)3	Bottom	12.2	3	1	12:04	27.4	7.69	21.5	5.14	8.12	10.6	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	CS(Mf)3	Bottom	12.2	3	2	12:04	27.3	7.71	21.5	5.16	8.1	12.2	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	SR4a	Surface	1	1	1	14:14	27.8	7.69	21.2	5.9	6.88	10.3	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	SR4a	Surface	1	1	2	14:14	27.7	7.71	21.3	5.92	6.86	10.3	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	SR4a	Middle		2	1	14:14							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	SR4a	Middle		2	2	14:14							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	1	14:14	27.5	7.79	21.4	5.62	7.99	11.2	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	2	14:14	27.4	7.77	21.3	5.6	8.01	10.4	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	SR4	Surface	1	1	1	13:48	27.8	7.69	21	5.73	6.61	9.9	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	SR4	Surface	1	1	2	13:48	27.8	7.67	21.1	5.75	6.69	10.7	2014-10-27

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	SR4	Middle		2	1	13:48							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	SR4	Middle		2	2	13:48							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	SR4	Bottom	3.6	3	1	13:48	27.4	7.8	21.3	5.52	7.91	11.9	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	SR4	Bottom	3.6	3	2	13:48	27.5	7.78	21.4	5.54	7.93	10.3	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS8	Surface	1	1	1	13:22	27.9	7.8	21.2	5.62	6.8	10.9	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS8	Surface	1	1	2	13:22	27.8	7.78	21.3	5.64	6.82	9.5	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS8	Middle		2	1	13:22							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS8	Middle		2	2	13:22							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS8	Bottom	3.8	3	1	13:22	27.6	7.71	21.3	5.47	8.05	11.3	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS8	Bottom	3.8	3	2	13:22	27.7	7.73	21.4	5.49	8.07	10.5	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	12:56	28	7.66	21	5.94	6.61	8.6	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	12:56	27.9	7.68	21.1	5.92	6.63	8	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS(Mf)16	Middle	4.7	2	1	12:56	27.8	7.83	21.3	5.83	7.69	11.5	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS(Mf)16	Middle	4.7	2	2	12:56	27.7	7.81	21.2	5.85	7.71	11.6	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.4	3	1	12:56	27.6	7.86	21.4	5.24	7.94	11.9	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.4	3	2	12:56	27.5	7.88	21.5	5.26	7.92	11.1	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	12:30	27.8	7.72	21.2	5.95	6.72	10.8	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	12:30	27.7	7.74	21.3	5.97	6.74	8.8	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	12:30							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	12:30							2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.4	3	1	12:30	27.5	7.81	21.4	5.54	7.8	11.7	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.4	3	2	12:30	27.6	7.83	21.5	5.56	7.82	9.4	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	14:44	27.9	7.8	21.1	6.12	6.59	10.5	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	14:44	27.8	7.82	21.2	6.1	6.62	9.9	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	CS(Mf)5	Middle	5.2	2	1	14:44	27.7	7.89	21.5	6.04	7.69	10	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	CS(Mf)5	Middle	5.2	2	2	14:44	27.6	7.91	21.4	6.02	7.71	10	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	CS(Mf)5	Bottom	9.4	3	1	14:44	27.4	7.68	21.6	5.87	7.86	11.8	2014-10-27
TMCLKL	HY/2012/07	2014-10-25	Mid-Ebb	Fine	CS(Mf)5	Bottom	9.4	3	2	14:44	27.5	7.69	21.7	5.85	7.88	11	2014-10-27
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	09:11	27.1	7.94	26.4	5.67	7.24	10.2	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	09:11	27.2	7.95	26.5	5.69	7.3	10.3	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.9	2	1	09:11	27.2	7.91	26.6	5.64	7.01	9.8	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.9	2	2	09:11	27.2	7.9	26.7	5.62	7.07	9.5	2014-10-30

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.8	3	1	09:11	27.2	7.92	26.8	5.71	7.17	9.8	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.8	3	2	09:11	27.3	7.93	26.9	5.72	7.22	10.2	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	09:35	27.1	7.88	26.2	5.63	7.46	10.4	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	09:35	27.1	7.89	26.3	5.6	7.39	10	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	SR4a	Middle		2	1	09:35							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	SR4a	Middle		2	2	09:35							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	SR4a	Bottom	4.2	3	1	09:35	27.1	7.87	26.5	5.57	7.18	10	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	SR4a	Bottom	4.2	3	2	09:35	27.2	7.88	26.6	5.53	7.22	10.2	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	SR4	Surface	1	1	1	09:51	27.1	7.84	26.3	5.58	7.53	10.5	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	SR4	Surface	1	1	2	09:51	27.2	7.85	26.4	5.55	7.47	10.4	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	SR4	Middle		2	1	09:51							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	SR4	Middle		2	2	09:51							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	SR4	Bottom	4.4	3	1	09:51	27.2	7.86	26.5	5.24	7.26	9.9	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	SR4	Bottom	4.4	3	2	09:51	27.2	7.87	26.5	5.29	7.31	10.2	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS8	Surface	1	1	1	10:09	27.2	7.81	26.4	5.48	7.71	11	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS8	Surface	1	1	2	10:09	27.2	7.82	26.4	5.52	7.66	10.6	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS8	Middle		2	1	10:09							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS8	Middle		2	2	10:09							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS8	Bottom	4.2	3	1	10:09	27.2	7.84	26.5	5.21	7.38	10	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS8	Bottom	4.2	3	2	10:09	27.2	7.85	26.6	5.18	7.44	10.3	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	10:28	27.2	7.82	26.4	5.74	7.96	10.8	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	10:28	27.3	7.83	26.5	5.71	7.88	11.2	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.7	2	1	10:28	27.2	7.81	26.5	5.68	7.98	11.5	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.7	2	2	10:28	27.2	7.82	26.5	5.66	8.04	11.3	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS(Mf)16	Bottom	8.4	3	1	10:28	27.2	7.85	26.7	5.4	7.69	10.8	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS(Mf)16	Bottom	8.4	3	2	10:28	27.3	7.86	26.8	5.43	7.75	11.2	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	10:51	27.2	7.87	26.4	5.64	8.04	11.6	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	10:51	27.2	7.88	26.5	5.61	7.97	11.3	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	10:51							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	10:51							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.2	3	1	10:51	27.2	7.89	26.5	5.53	8.21	11.6	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.2	3	2	10:51	27.2	7.9	26.6	5.5	8.18	12	2014-10-30

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	11:15	27.2	7.89	26.5	5.78	8.17	11.8	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	11:15	27.3	7.9	26.6	5.81	8.24	11.5	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.1	2	1	11:15	27.3	7.84	26.6	5.7	8.1	11.2	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.1	2	2	11:15	27.3	7.85	26.7	5.67	8.04	11	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.2	3	1	11:15	27.3	7.88	26.8	5.58	8.37	11.5	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.2	3	2	11:15	27.4	7.89	26.9	5.6	8.44	11.6	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	14:15	27.4	7.71	26.3	5.61	7.64	11.2	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	14:15	27.3	7.73	26.3	5.63	7.66	10.8	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	CS(Mf)3	Middle	5.9	2	1	14:15	27.3	7.64	26.4	5.54	8.13	11.2	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	CS(Mf)3	Middle	5.9	2	2	14:15	27.3	7.66	26.3	5.56	8.15	11.5	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.8	3	1	14:15	27.2	7.81	26.5	5.43	8.49	12	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.8	3	2	14:15	27.3	7.83	26.4	5.41	8.51	12.2	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	SR4a	Surface	1	1	1	16:20	27.1	7.62	26.3	5.47	7.54	10.2	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	SR4a	Surface	1	1	2	16:20	27.2	7.64	26.3	5.49	7.56	10.4	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	SR4a	Middle		2	1	16:20							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	SR4a	Middle		2	2	16:20							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	SR4a	Bottom	4	3	1	16:20	27.3	7.71	26.4	5.33	7.63	11	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	SR4a	Bottom	4	3	2	16:20	27.3	7.73	26.5	5.36	7.64	10.8	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	SR4	Surface	1	1	1	15:42	27.2	7.74	26.2	5.51	7.46	10.4	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	SR4	Surface	1	1	2	15:42	27.1	7.76	26.3	5.53	7.48	10.8	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	SR4	Middle		2	1	15:42							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	SR4	Middle		2	2	15:42							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	SR4	Bottom	4.2	3	1	15:42	27.3	7.63	26.4	5.14	7.39	10	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	SR4	Bottom	4.2	3	2	15:42	27.3	7.61	26.3	5.16	7.41	10.3	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	IS8	Surface	1	1	1	15:21	27.2	7.68	26.2	5.39	7.69	11.2	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	IS8	Surface	1	1	2	15:21	27.3	7.7	26.1	5.41	7.73	10.9	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	IS8	Middle		2	1	15:21							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	IS8	Middle		2	2	15:21							2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	IS8	Bottom	4	3	1	15:21	27.5	7.73	26.3	5.11	7.55	10.9	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	IS8	Bottom	4	3	2	15:21	27.4	7.75	26.3	5.13	7.53	10.6	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	15:00	27.3	7.88	26.2	5.67	8.02	11.2	2014-10-30
TMCLKL	HY/2012/07	2014-10-28	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	15:00	27.3	7.86	26.2	5.65	8.04	11	2014-10-30

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	SR4	Bottom	4.1	3	1	12:19	26.3	7.73	21.4	5.22	7.83	10.2	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	SR4	Bottom	4.1	3	2	12:19	26.4	7.75	21.3	5.19	7.94	10.3	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS8	Surface	1	1	1	12:45	26.7	7.7	21	5.77	6.85	9.6	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS8	Surface	1	1	2	12:45	26.7	7.71	21	5.87	6.77	10.2	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS8	Middle		2	1	12:45							2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS8	Middle		2	2	12:45							2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS8	Bottom	4.2	3	1	12:45	26.3	7.76	21.3	5.26	8.04	12.9	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS8	Bottom	4.2	3	2	12:45	26.3	7.7	21.3	5.3	7.93	11.1	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	13:11	26.6	7.71	21	5.76	7	10.5	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	13:11	26.7	7.7	21.1	5.73	7.12	10.7	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS(Mf)16	Middle	5	2	1	13:11	26.4	7.81	21.4	5.22	7.93	11.9	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS(Mf)16	Middle	5	2	2	13:11	26.3	7.88	21.4	5.3	8.04	12.9	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS(Mf)16	Bottom	9	3	1	13:11	26	7.79	21.7	5.03	8.46	11	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS(Mf)16	Bottom	9	3	2	13:11	26.1	7.86	21.6	5	8.5	11.1	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	13:37	26.6	7.71	21	5.83	7.01	9.1	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	13:37	26.6	7.74	21.1	5.82	7	10.5	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	13:37							2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	13:37							2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS(Mf)9	Bottom	4.4	3	1	13:37	26.4	7.8	21.4	5.41	8.43	11	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	IS(Mf)9	Bottom	4.4	3	2	13:37	26.3	7.82	21.4	5.3	8.31	11.6	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	14:03	26.6	7.69	21.1	5.88	6.88	8.9	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	14:03	26.7	7.74	21.1	5.81	6.8	9.5	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	CS(Mf)3	Middle	7	2	1	14:03	26.3	7.8	21.5	5.21	7.61	12.2	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	CS(Mf)3	Middle	7	2	2	14:03	26.3	7.76	21.4	5.11	7.64	11.5	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	CS(Mf)3	Bottom	13	3	1	14:03	25.9	7.81	21.7	4.9	8.97	12.6	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Flood	Fine	CS(Mf)3	Bottom	13	3	2	14:03	26	7.81	21.8	4.94	9.02	13.5	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	16:30	26.5	7.78	21.6	5.89	7.03	9.1	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	16:30	26.6	7.8	21.7	5.93	6.96	8.4	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	CS(Mf)3	Middle	6.8	2	1	16:30	26.5	7.82	21.6	5.34	7.53	12	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	CS(Mf)3	Middle	6.8	2	2	16:30	26.4	7.83	21.6	5.37	7.6	9.9	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	CS(Mf)3	Bottom	12.6	3	1	16:30	26.2	7.88	21.8	5.16	8.67	11.3	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	CS(Mf)3	Bottom	12.6	3	2	16:30	26.1	7.89	21.9	5.11	8.74	11.4	2014-10-31

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	SR4a	Surface	1	1	1	18:20	26.6	7.84	21.4	6.14	6.78	8.1	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	SR4a	Surface	1	1	2	18:20	26.7	7.85	21.5	6.11	6.72	9.4	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	SR4a	Middle		2	1	18:20							2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	SR4a	Middle		2	2	18:20							2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	SR4a	Bottom	4.4	3	1	18:20	26.5	7.87	21.5	5.43	7.64	10.7	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	SR4a	Bottom	4.4	3	2	18:20	26.5	7.88	21.6	5.49	7.73	11.6	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	SR4	Surface	1	1	1	18:00	26.6	7.87	21.5	5.96	6.93	9	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	SR4	Surface	1	1	2	18:00	26.6	7.88	21.6	5.93	6.87	8.2	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	SR4	Middle		2	1	18:00							2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	SR4	Middle		2	2	18:00							2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	SR4	Bottom	3.8	3	1	18:00	26.6	7.89	21.6	5.54	7.92	11.1	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	SR4	Bottom	3.8	3	2	18:00	26.6	7.89	21.7	5.6	7.86	11.8	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS8	Surface	1	1	1	17:41	26.6	7.89	21.5	5.89	7.06	9.2	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS8	Surface	1	1	2	17:41	26.6	7.9	21.5	5.91	7.12	10	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS8	Middle		2	1	17:41							2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS8	Middle		2	2	17:41							2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS8	Bottom	4	3	1	17:41	26.6	7.87	21.6	5.48	7.48	11.2	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS8	Bottom	4	3	2	17:41	26.6	7.88	21.6	5.51	7.56	9.8	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	17:18	26.6	7.84	21.4	5.82	7.24	10.9	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	17:18	26.5	7.85	21.5	5.83	7.31	9.5	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS(Mf)16	Middle	4.9	2	1	17:18	26.6	7.86	21.6	5.46	7.84	10.2	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS(Mf)16	Middle	4.9	2	2	17:18	26.6	7.86	21.6	5.42	7.92	11.1	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.8	3	1	17:18	26.6	7.88	21.7	5.16	8.34	10.8	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.8	3	2	17:18	26.7	7.89	21.7	5.19	8.41	10.1	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	16:57	26.6	7.79	21.4	5.95	7.43	11.1	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	16:57	26.7	7.8	21.5	5.98	7.5	9	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	16:57							2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	16:57							2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS(Mf)9	Bottom	4	3	1	16:57	26.6	7.83	21.5	5.67	7.98	11.2	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	IS(Mf)9	Bottom	4	3	2	16:57	26.5	7.84	21.6	5.7	8.05	12.1	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	18:42	26.5	7.81	21.3	6.06	6.84	8.2	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	18:42	26.6	7.83	21.4	6.03	6.9	9	2014-10-31

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	CS(Mf)5	Middle	5.3	2	1	18:42	26.5	7.84	21.4	5.87	7.38	9.6	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	CS(Mf)5	Middle	5.3	2	2	18:42	26.4	7.85	21.5	5.89	7.46	10.4	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	CS(Mf)5	Bottom	9.6	3	1	18:42	26.4	7.83	21.7	5.37	8.05	9.7	2014-10-31
TMCLKL	HY/2012/07	2014-10-30	Mid-Ebb	Fine	CS(Mf)5	Bottom	9.6	3	2	18:42	26.3	7.84	21.8	5.41	8.09	10.5	2014-10-31

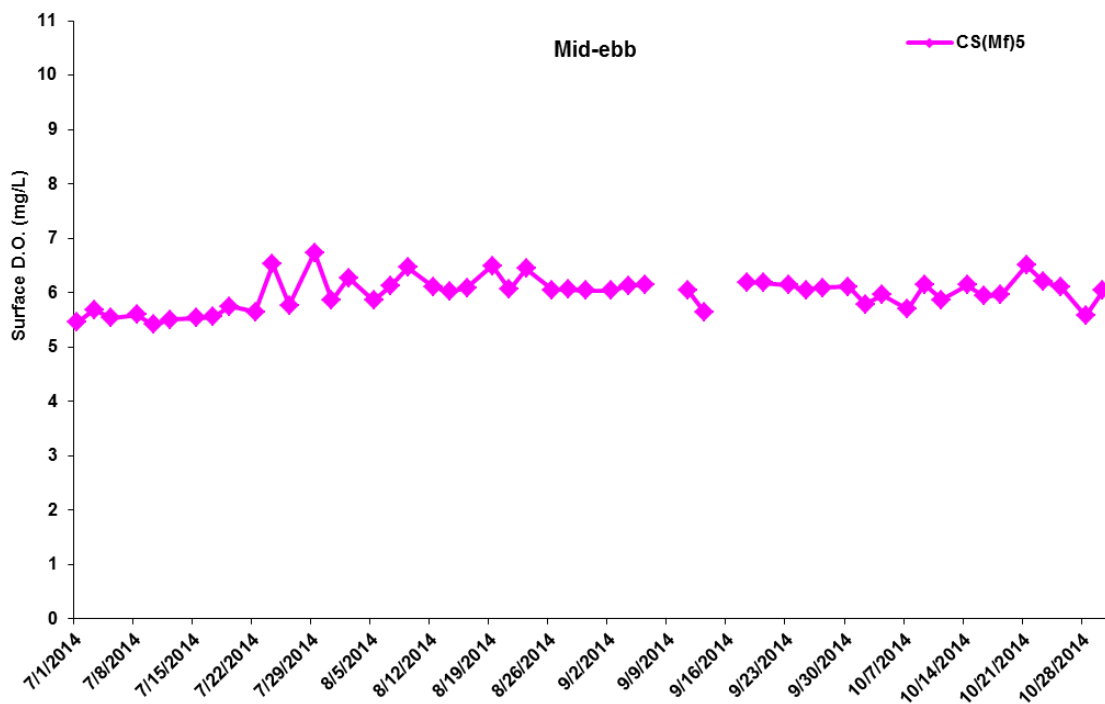
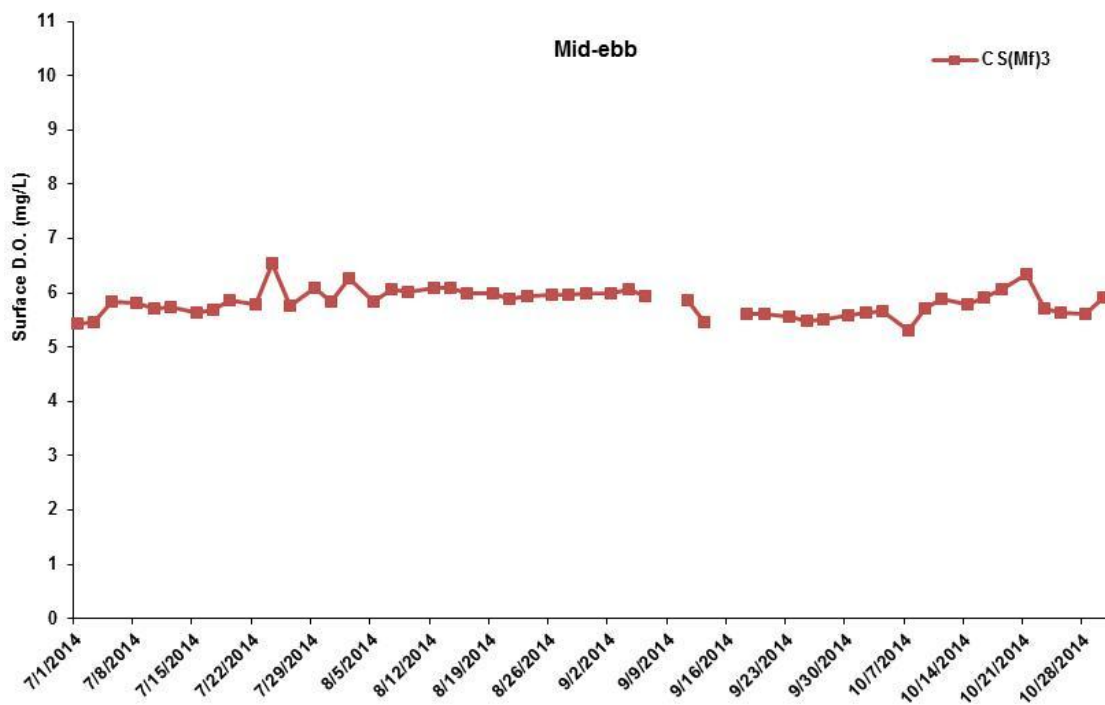


Figure J1 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 July and 31 October 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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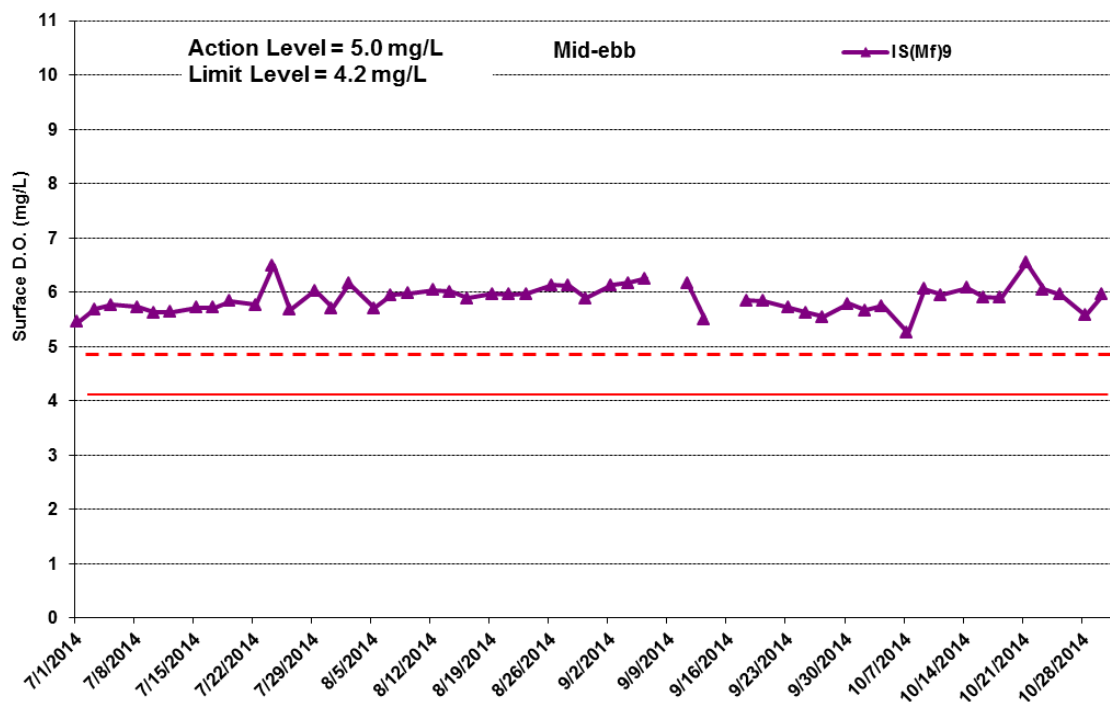
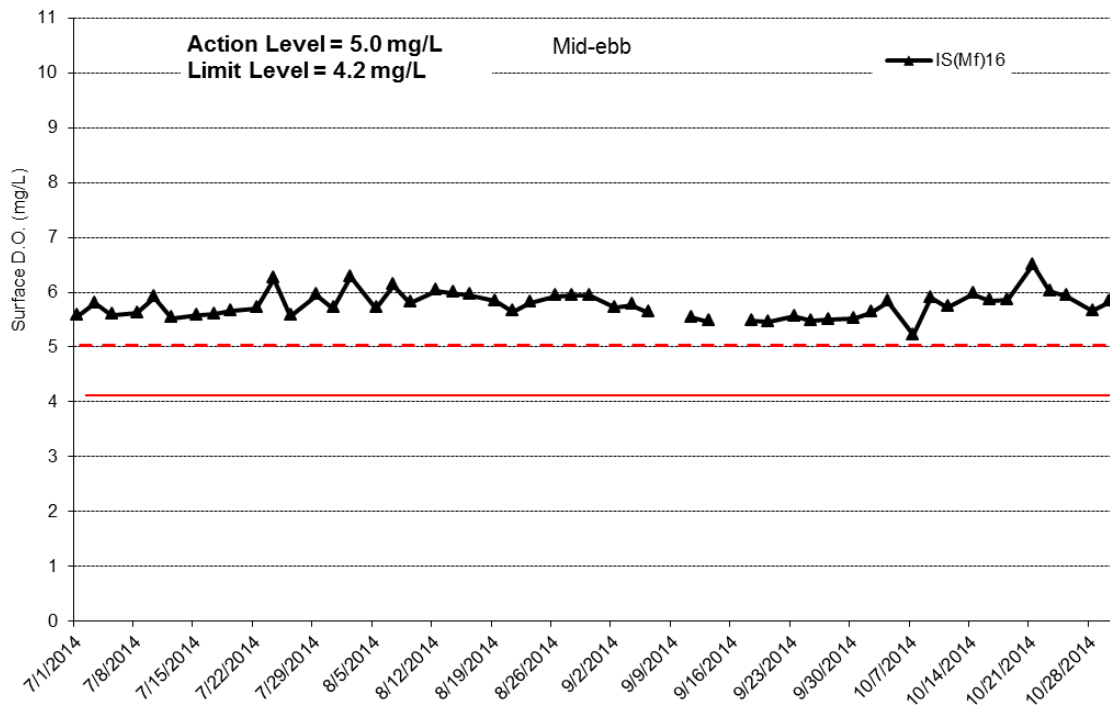


Figure J2 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 July and 31 October 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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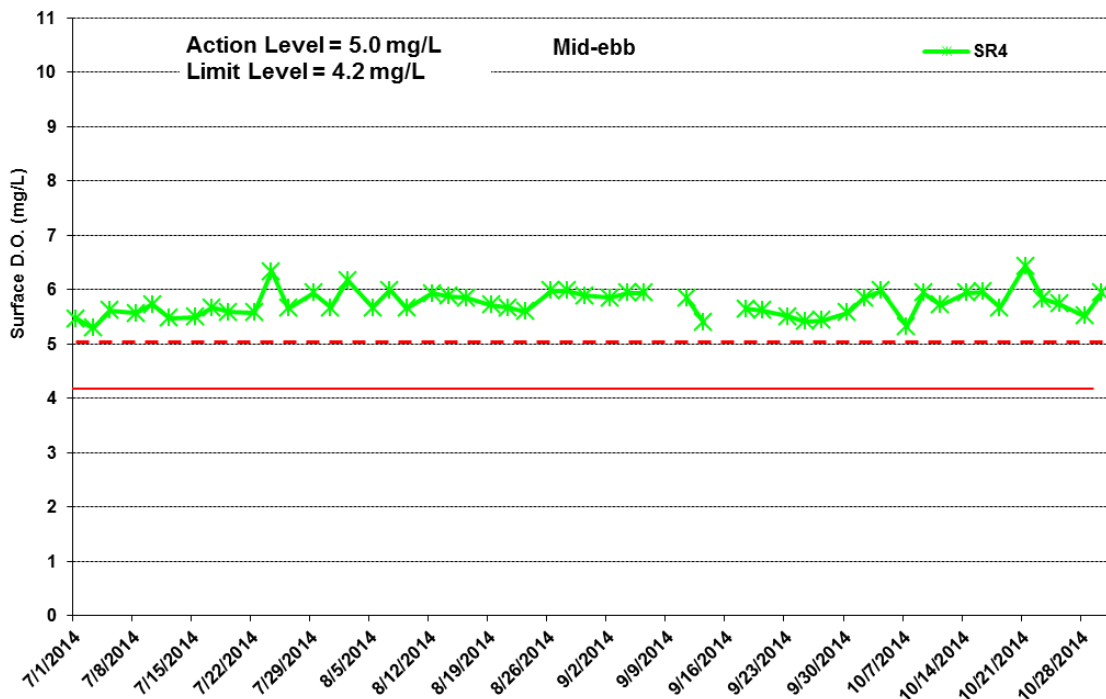
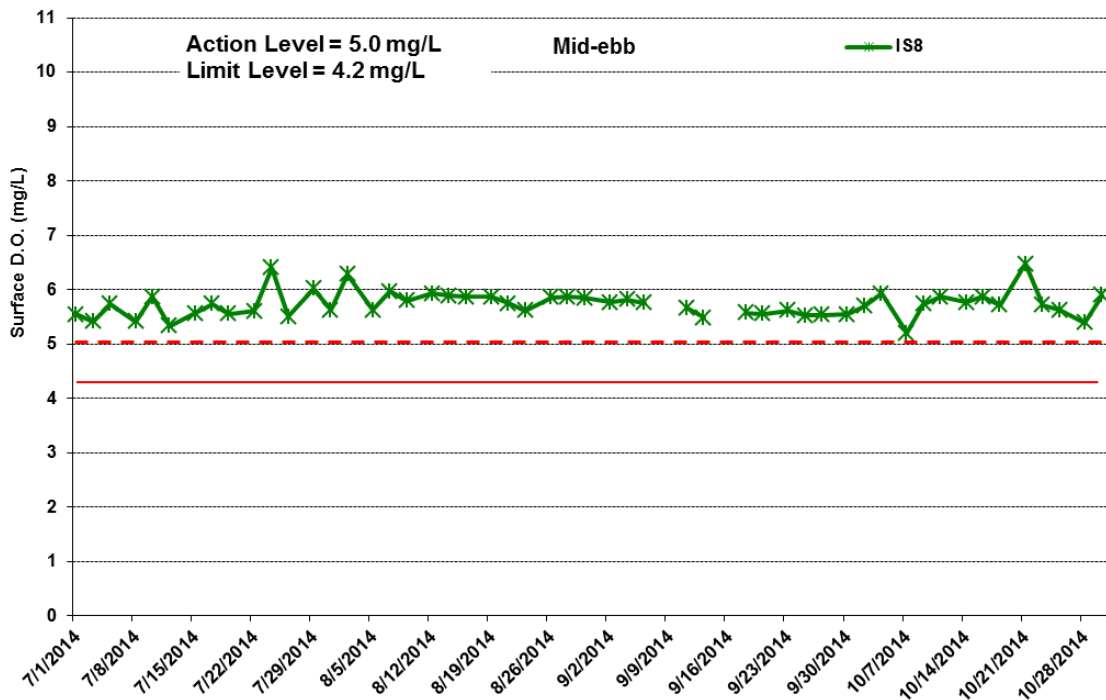


Figure J3 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 July and 31 October 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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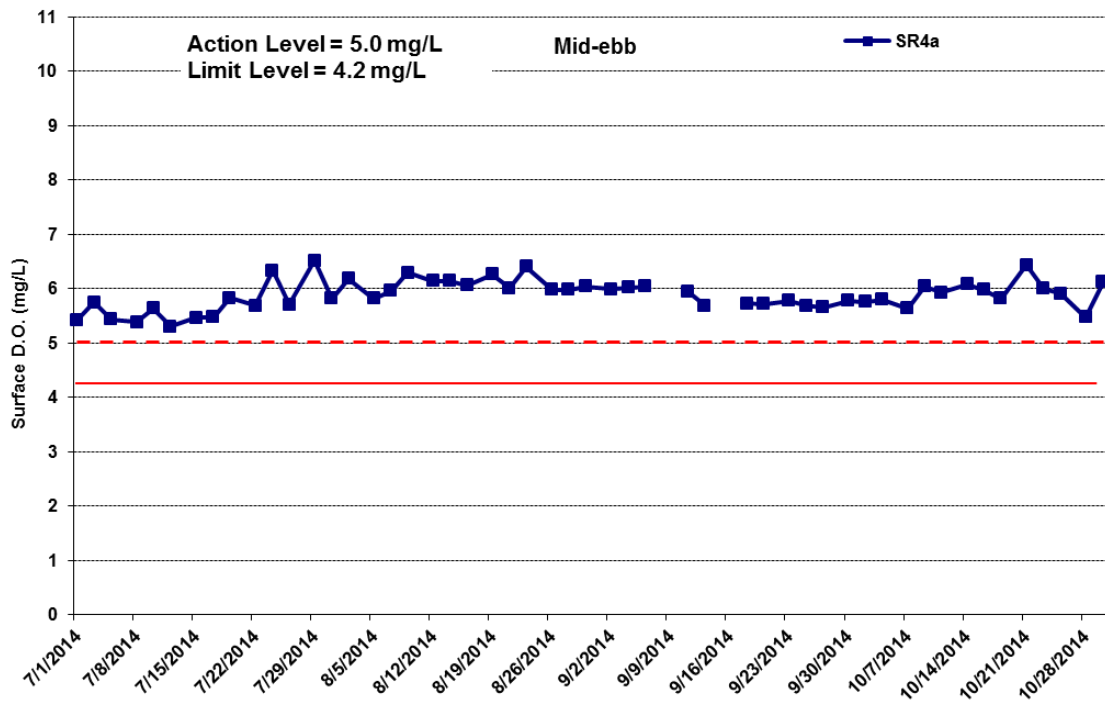


Figure J4 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 July and 31 October 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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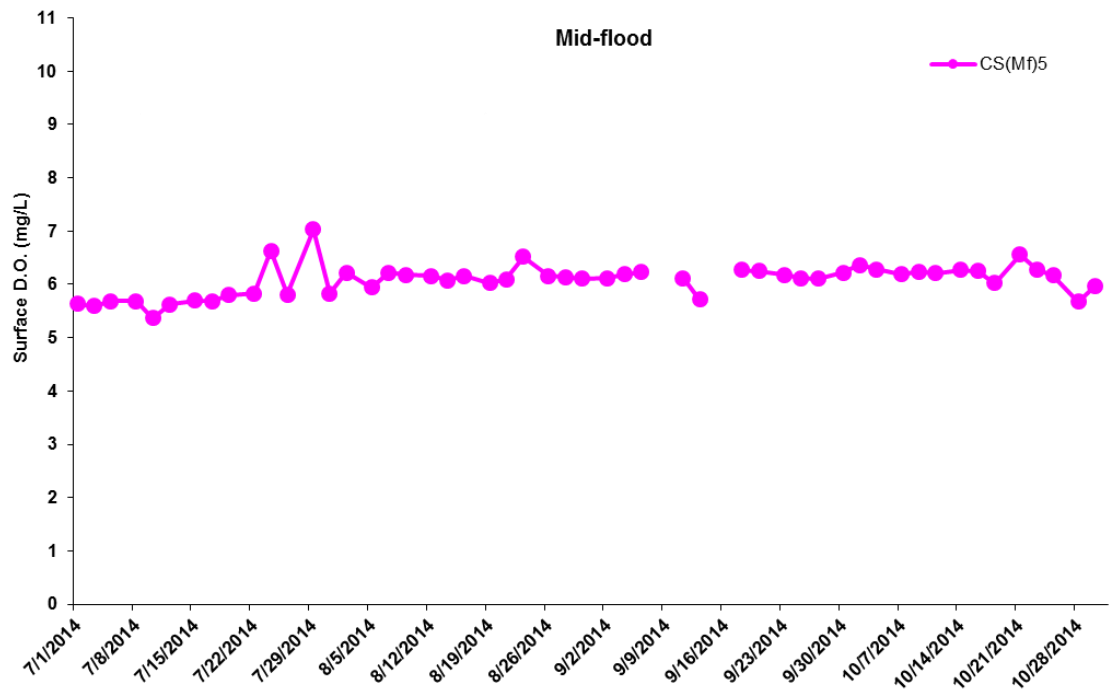
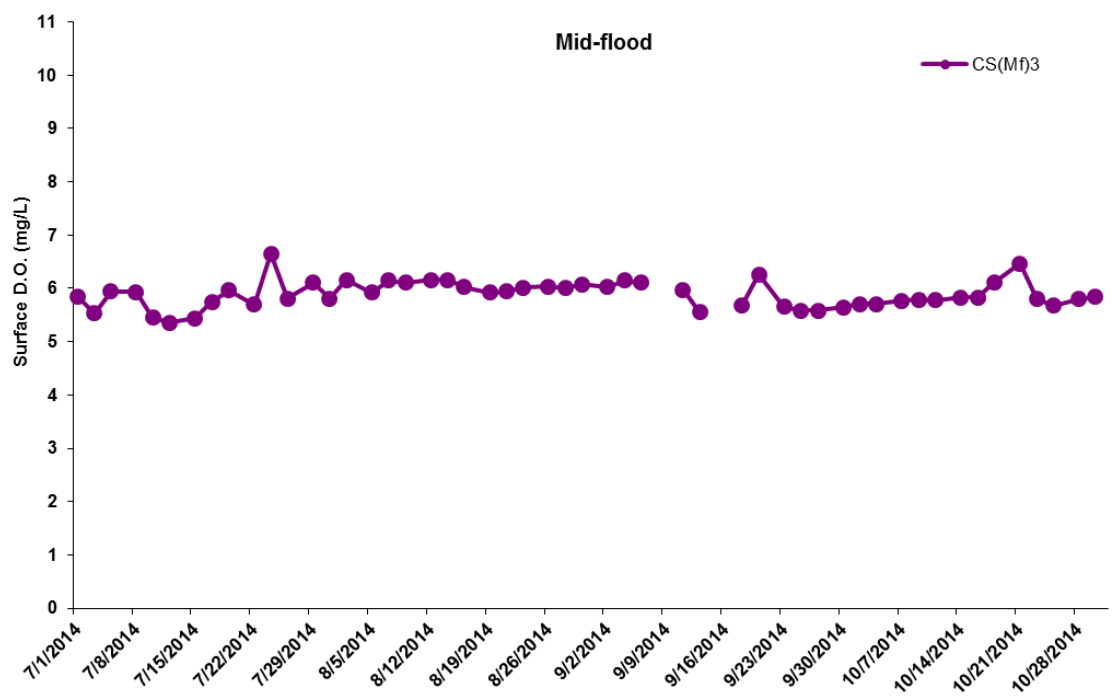


Figure J5 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 July and 31 October 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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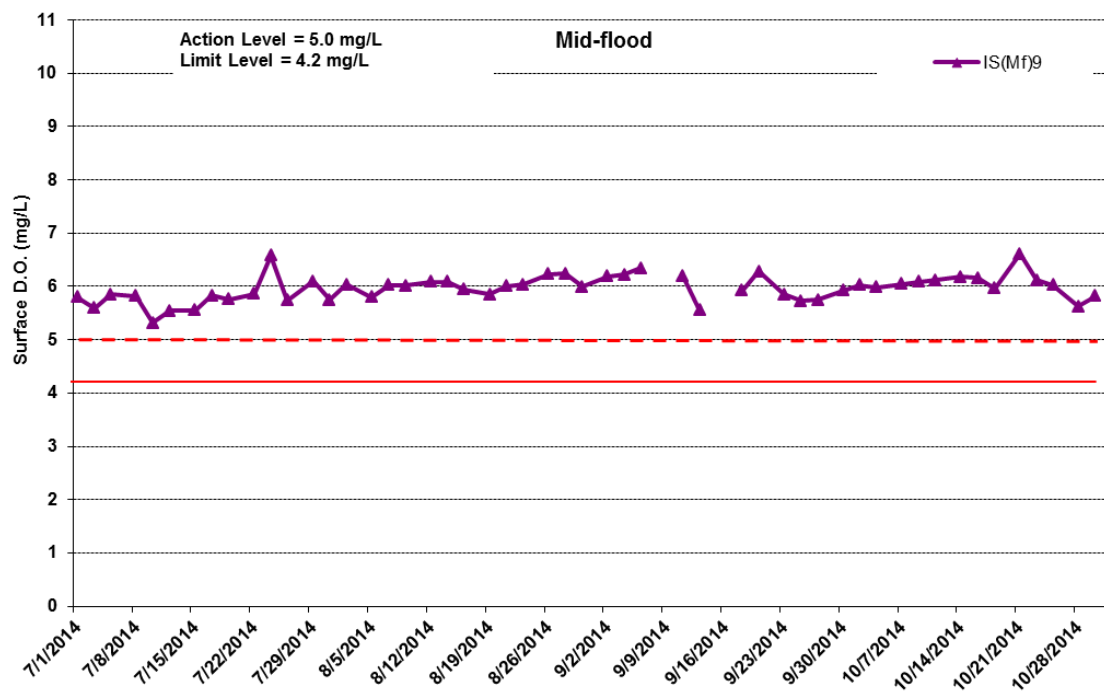
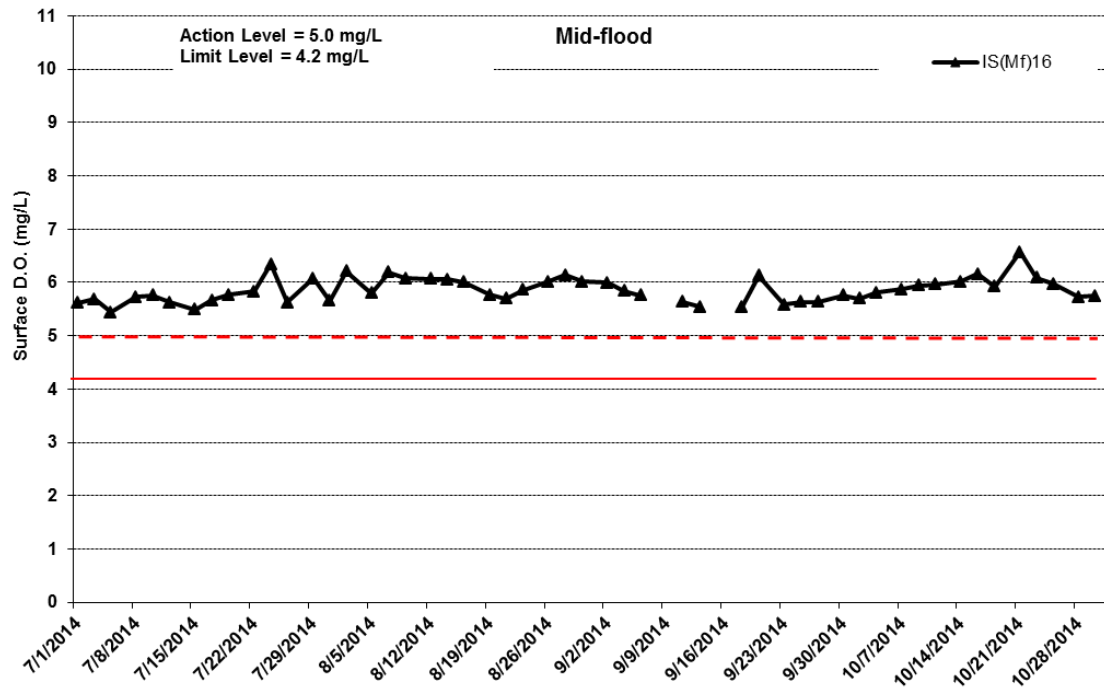


Figure J6 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 July and 31 October 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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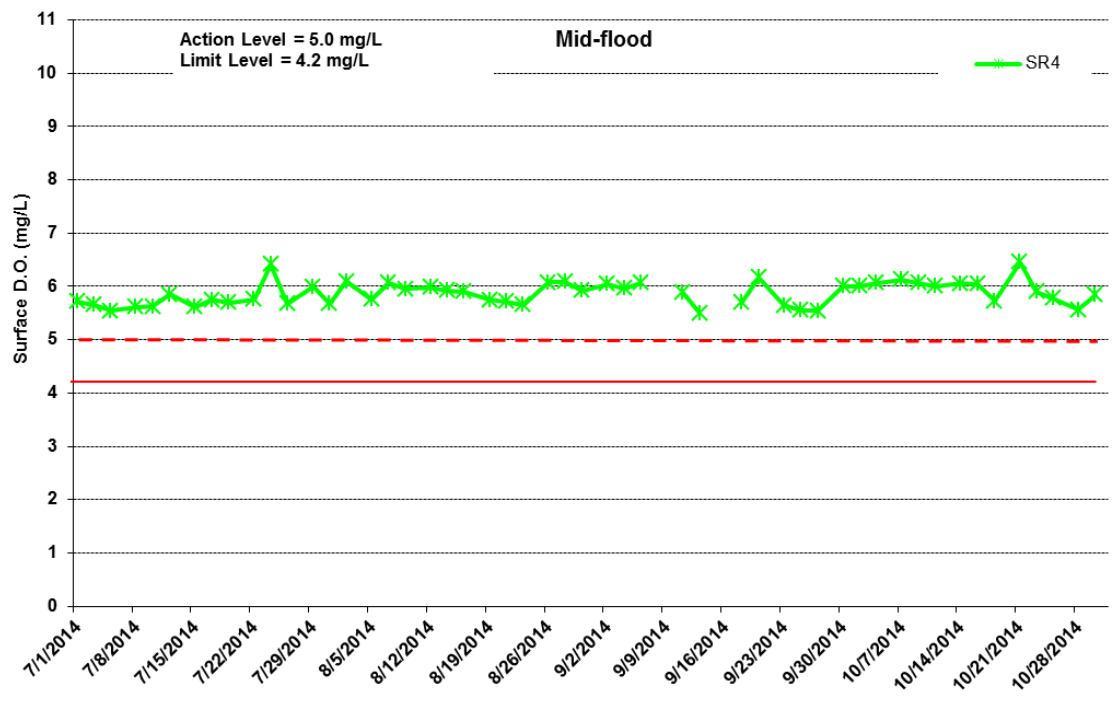
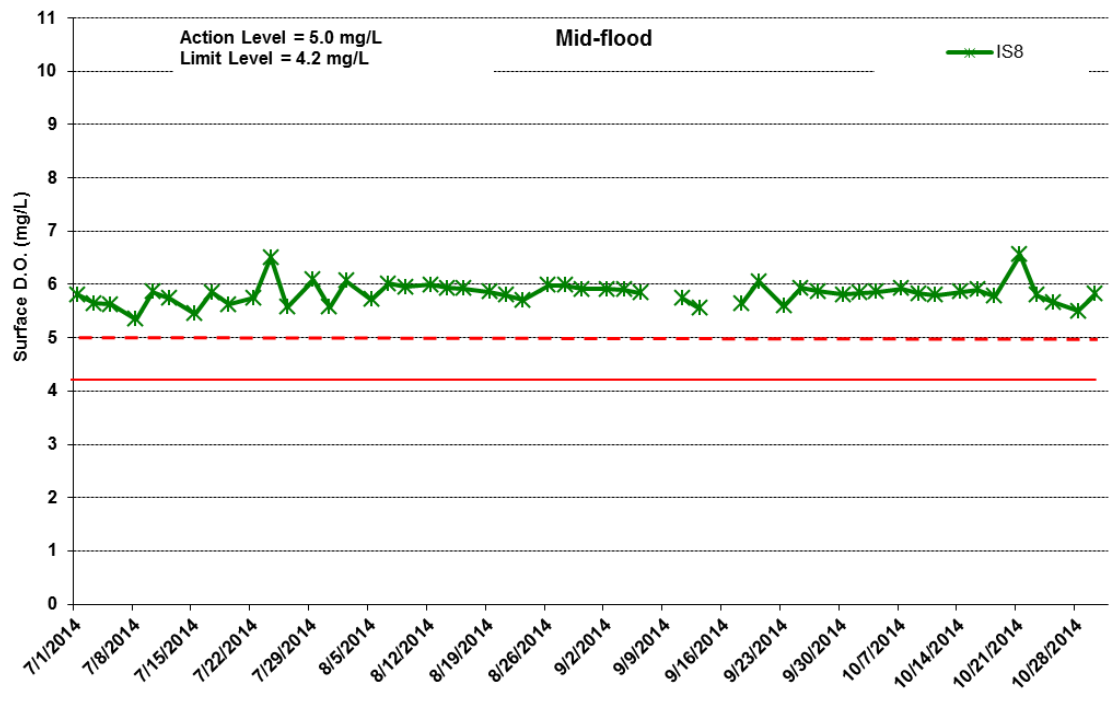


Figure J7 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 July and 31 October 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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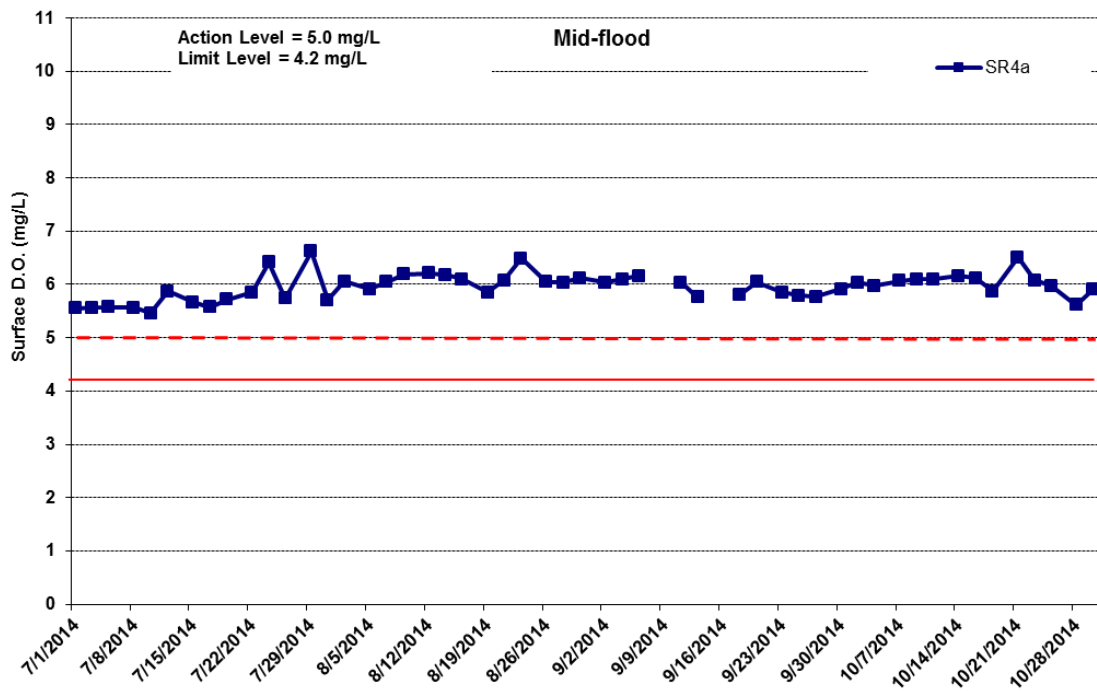


Figure J8 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 July and 31 October 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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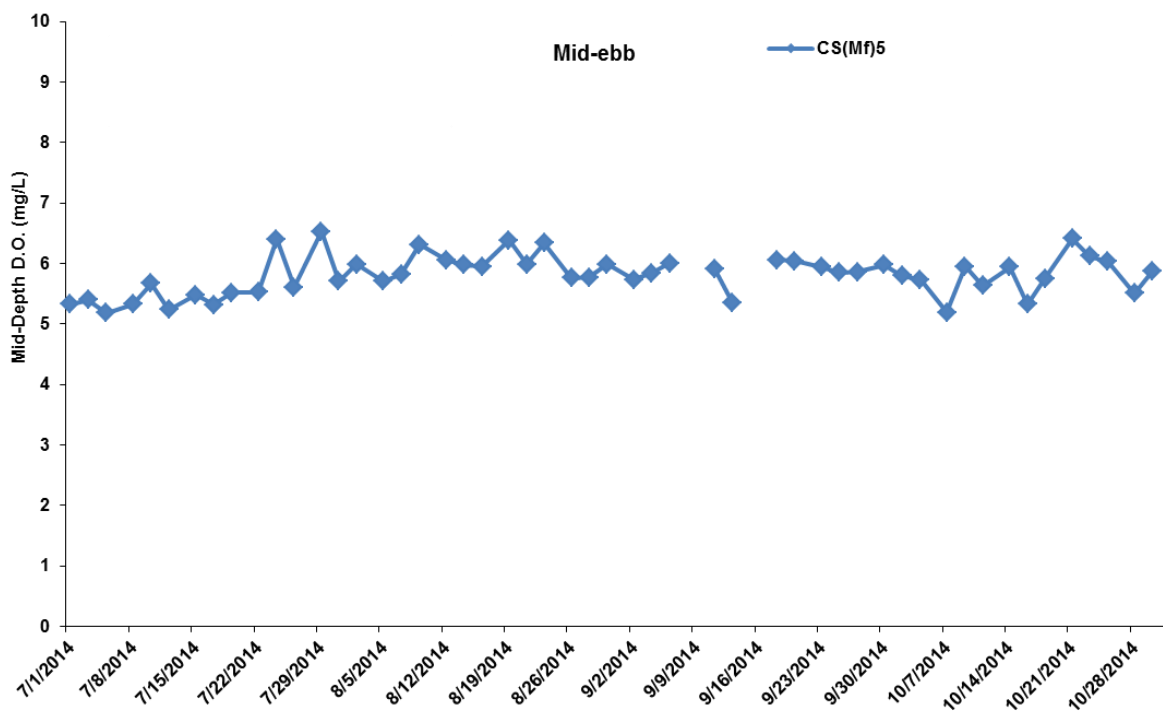
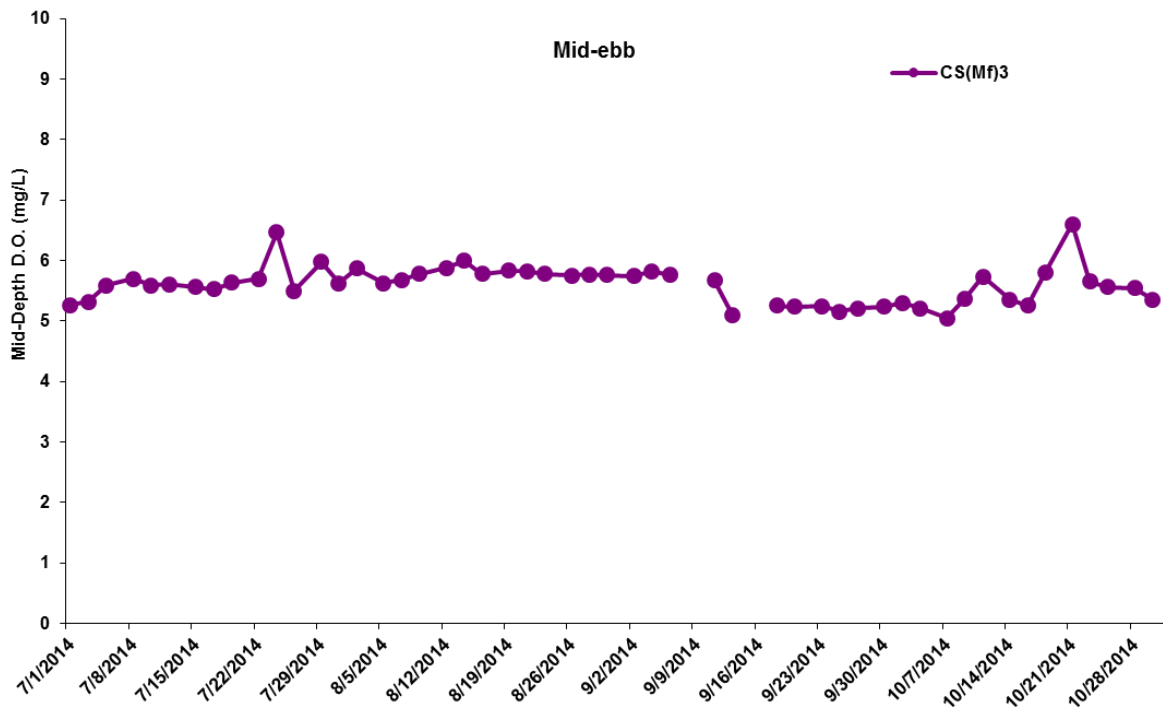


Figure J9 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 July and 31 October 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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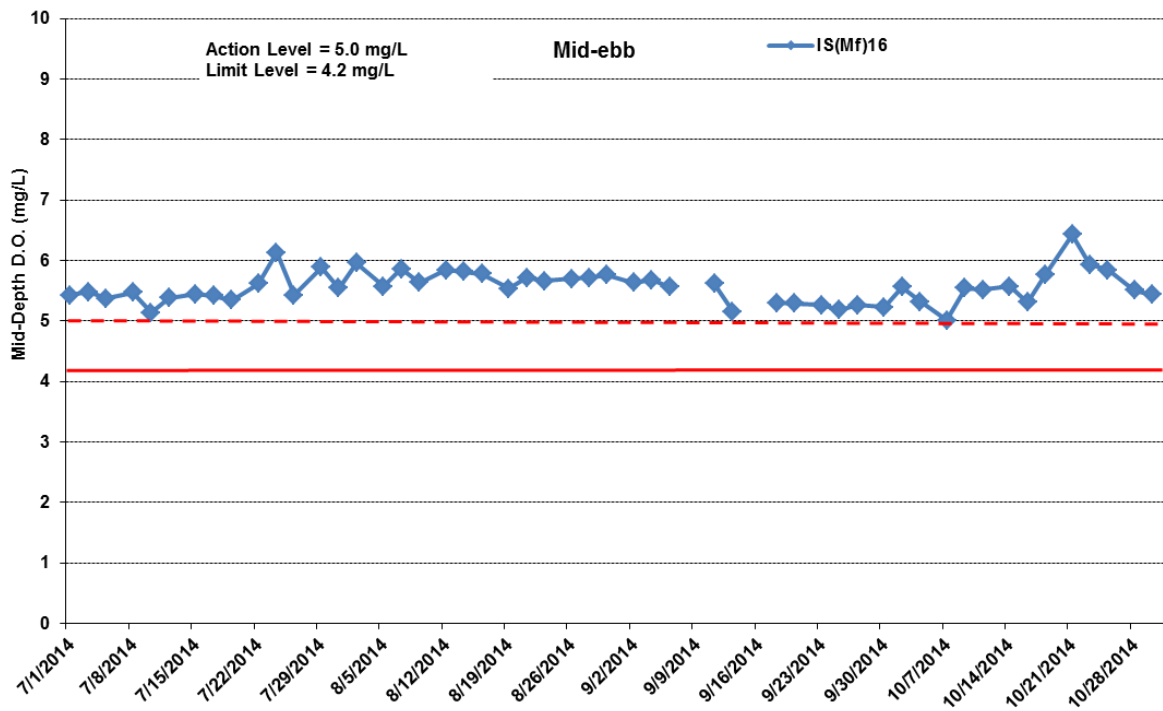


Figure J10 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 July and 31 October 2014 at IS(Mf)16.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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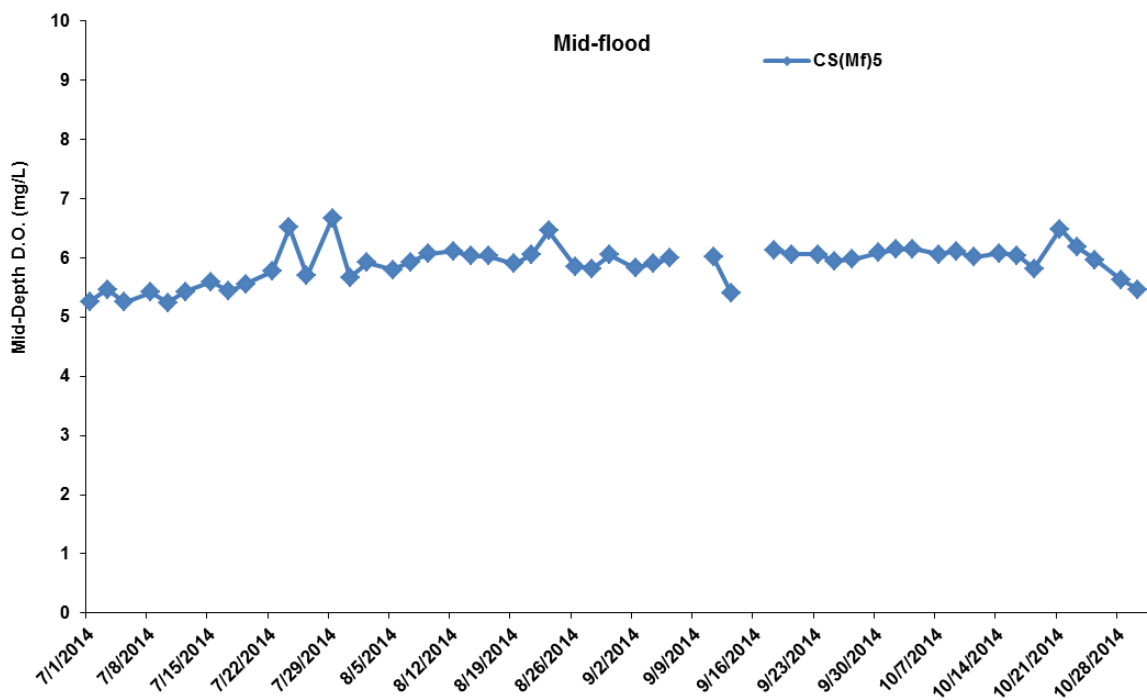
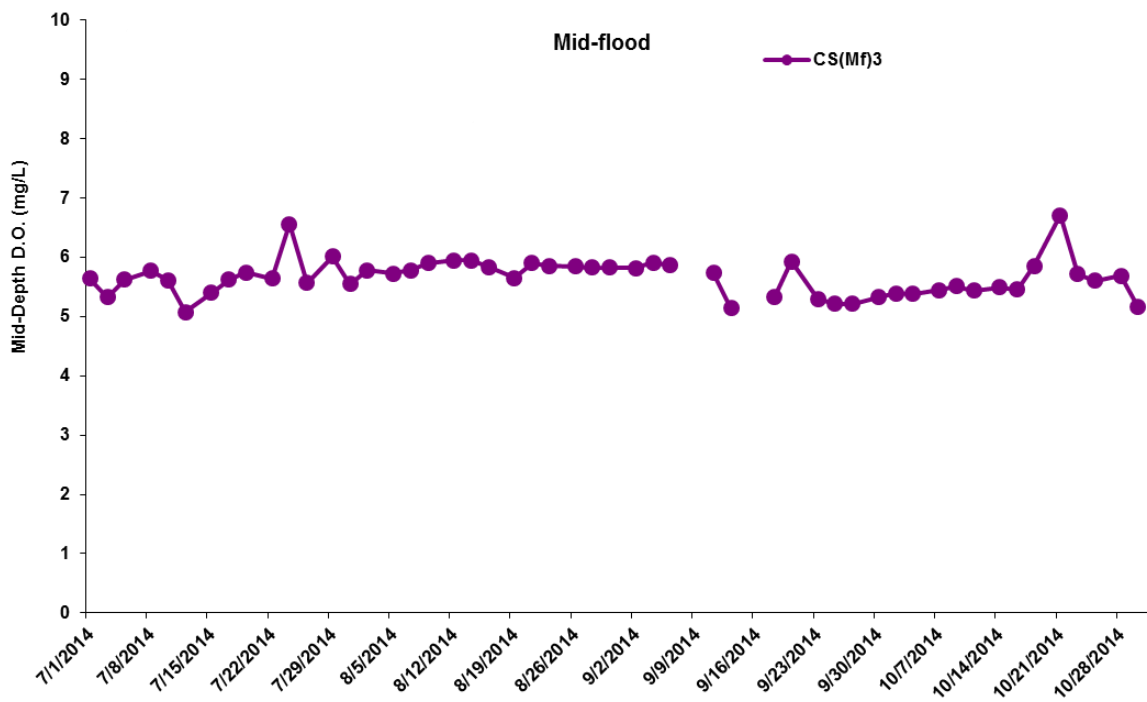


Figure J11 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 July and 31 October 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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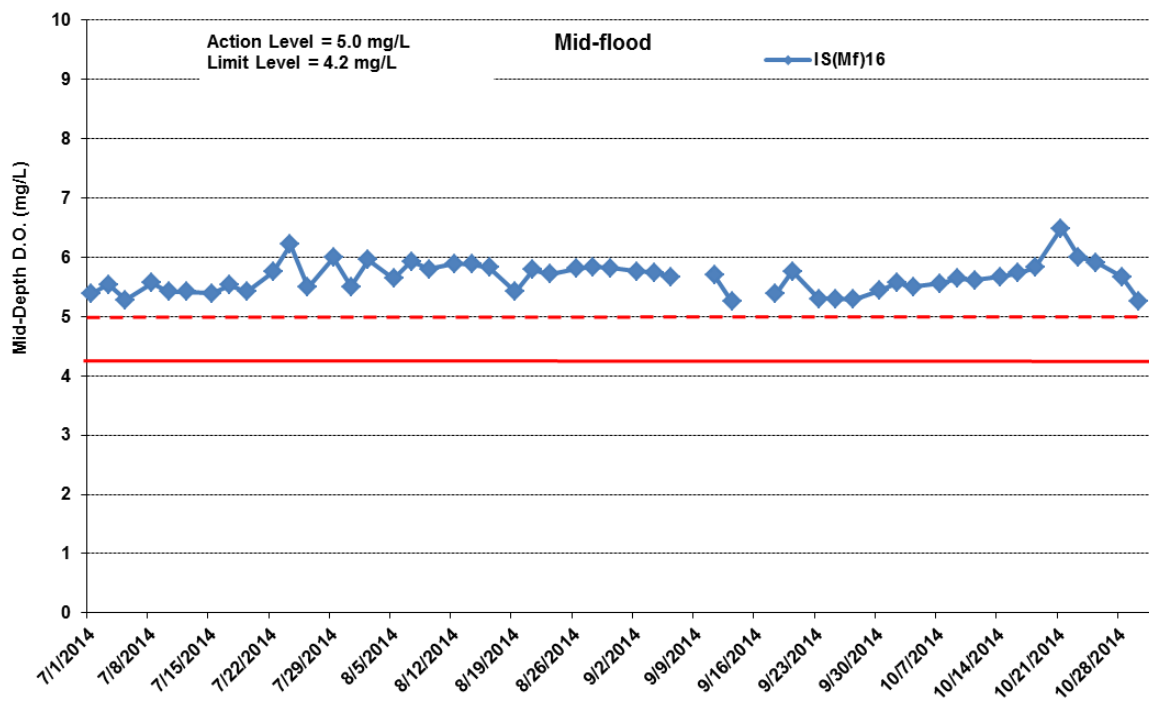


Figure J12 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 July and 31 October 2014 at IS(Mf)16.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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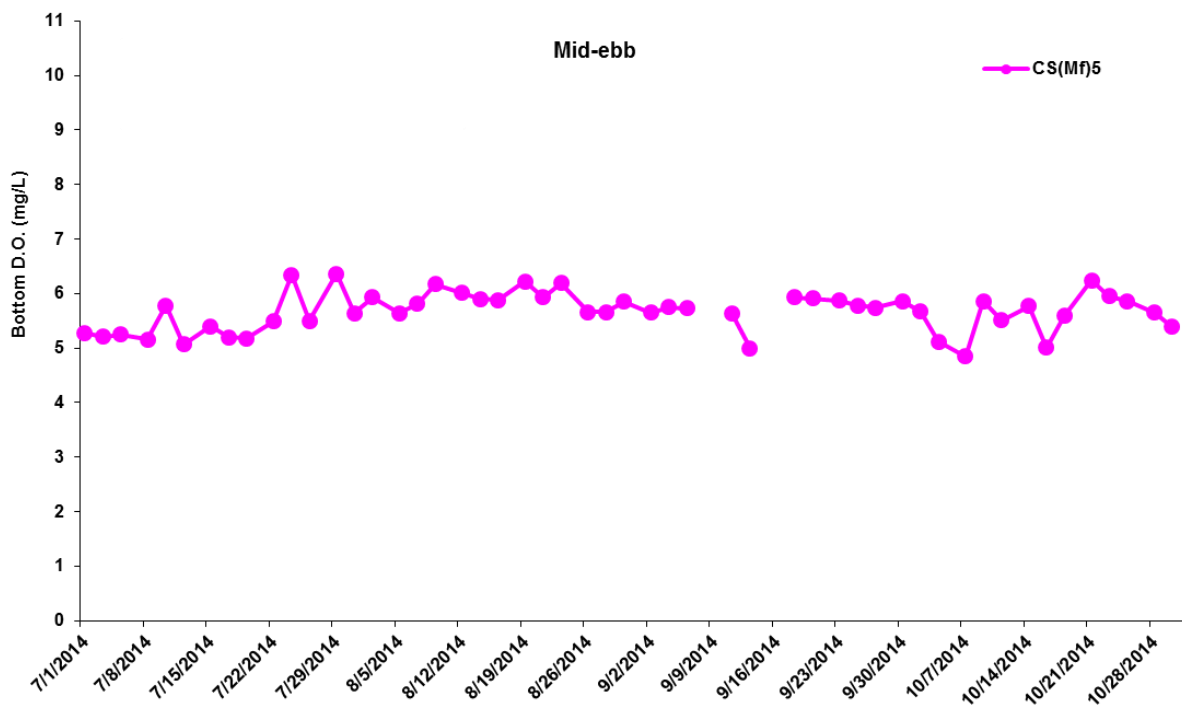
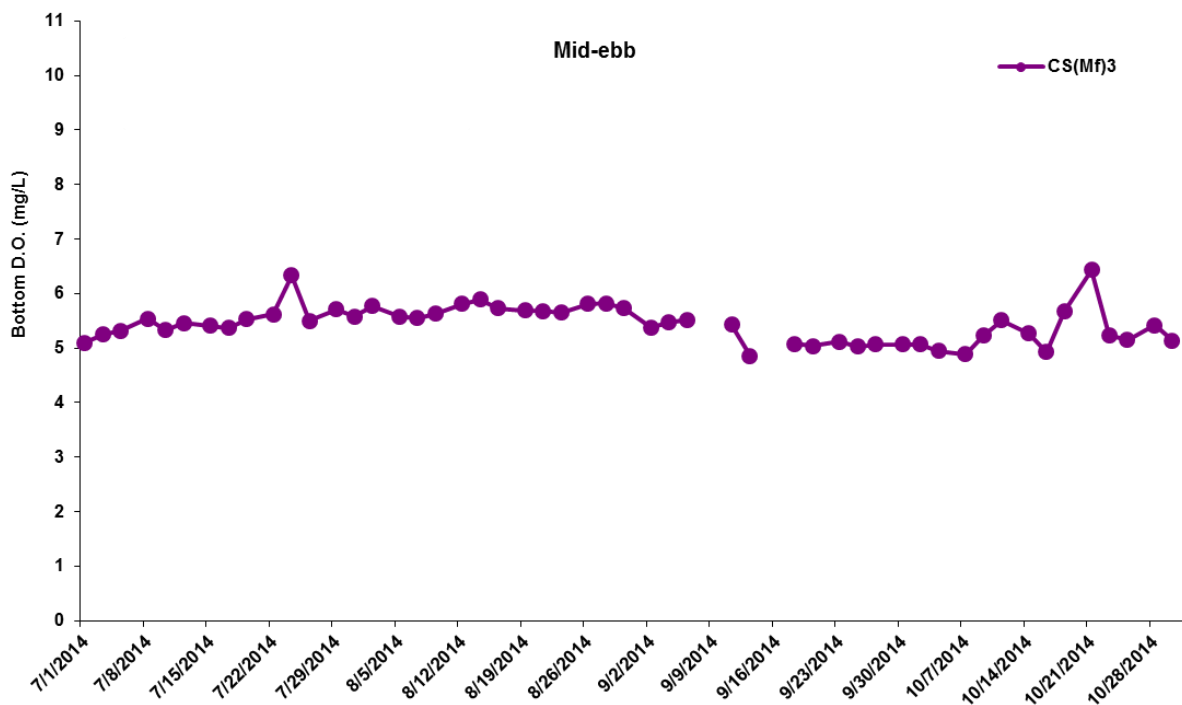
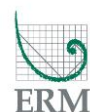


Figure J13 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 July and 31 October 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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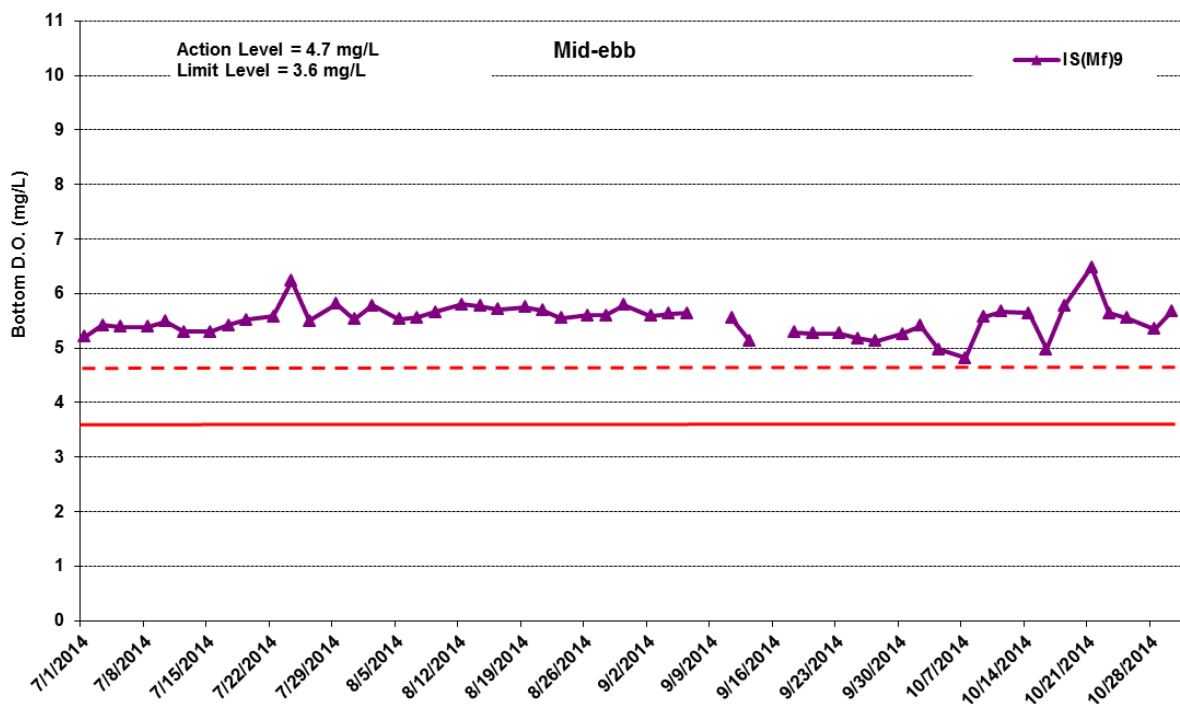
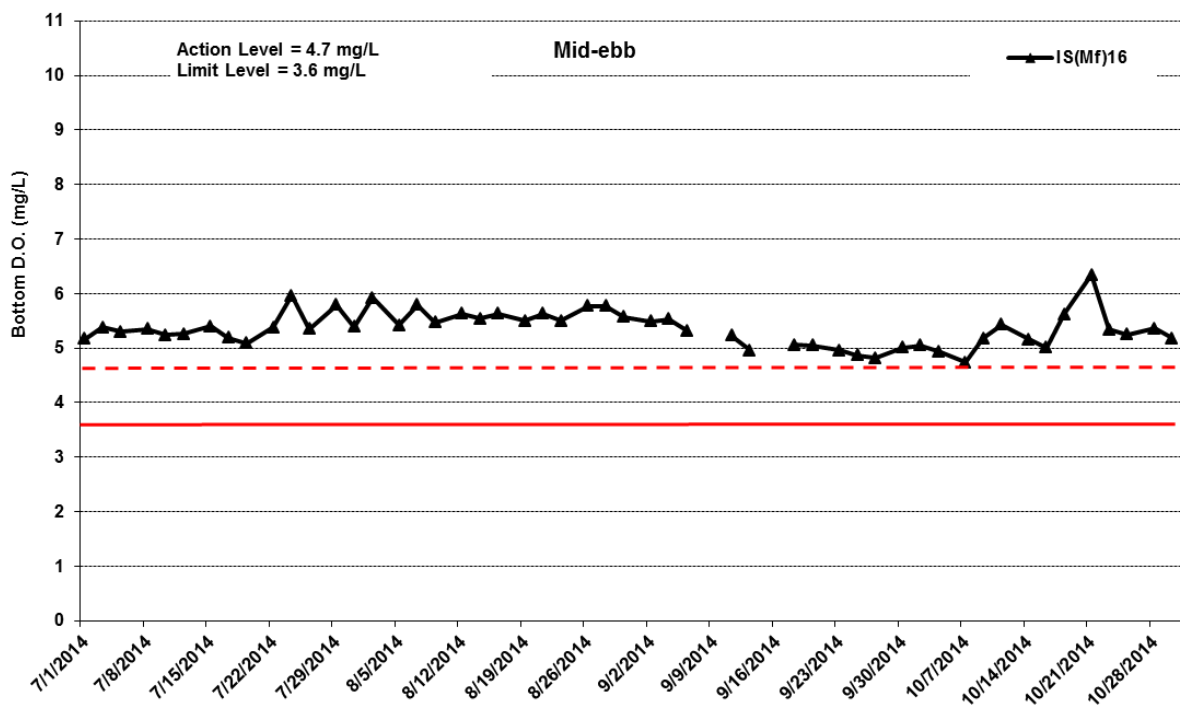


Figure J14 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 July and 31 October 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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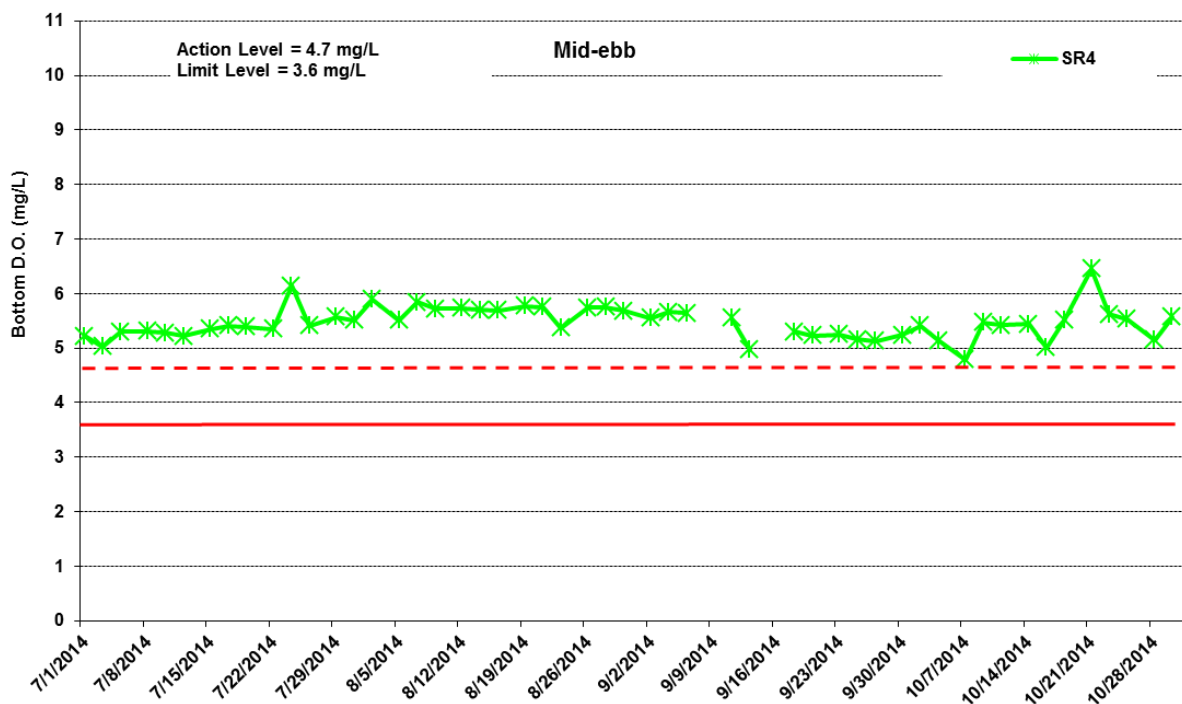
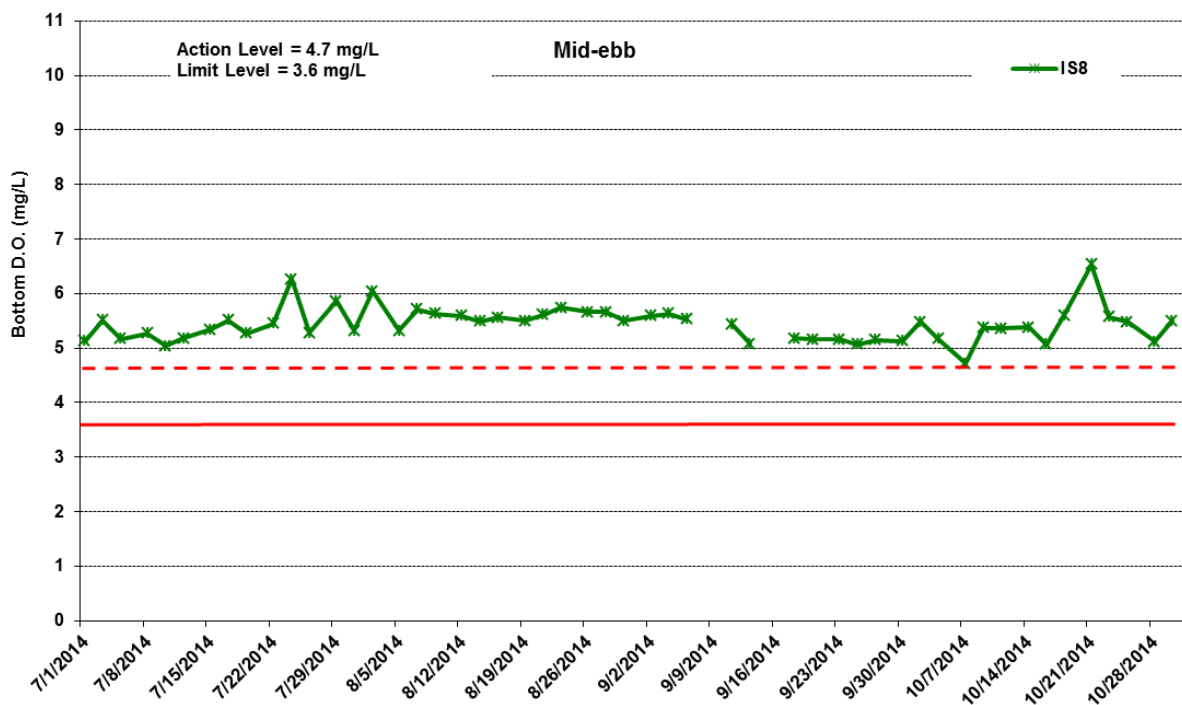


Figure J15 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 July and 31 October 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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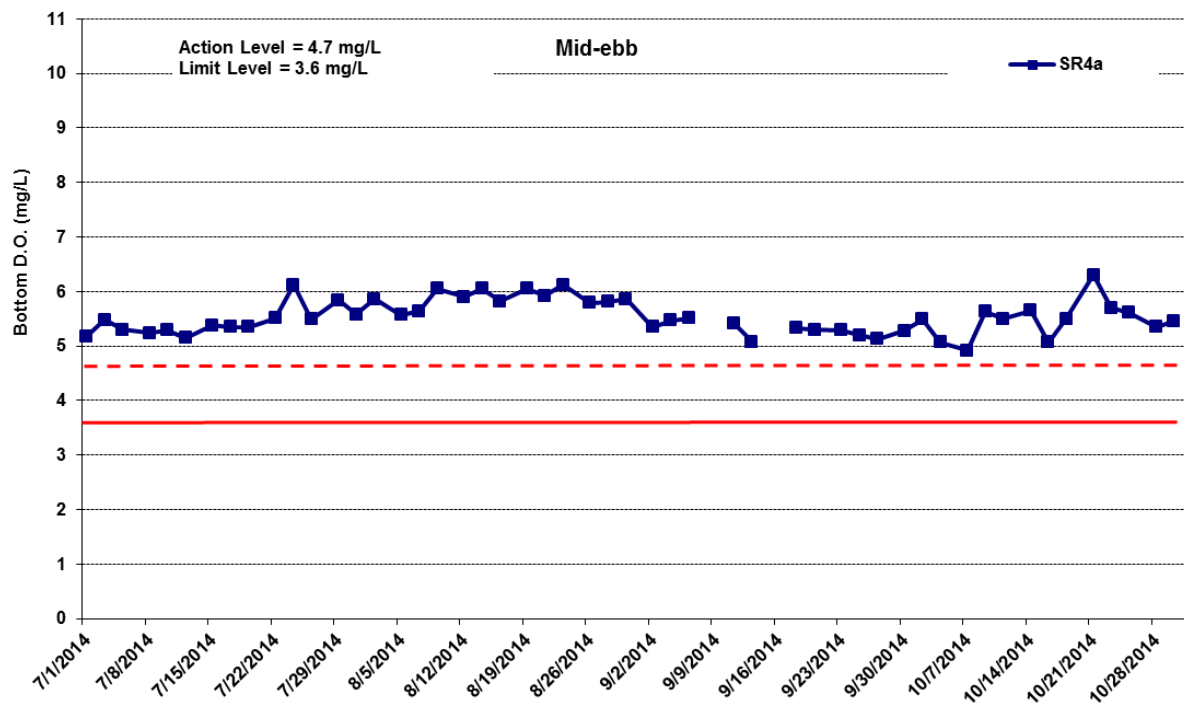


Figure J16 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 July and 31 October 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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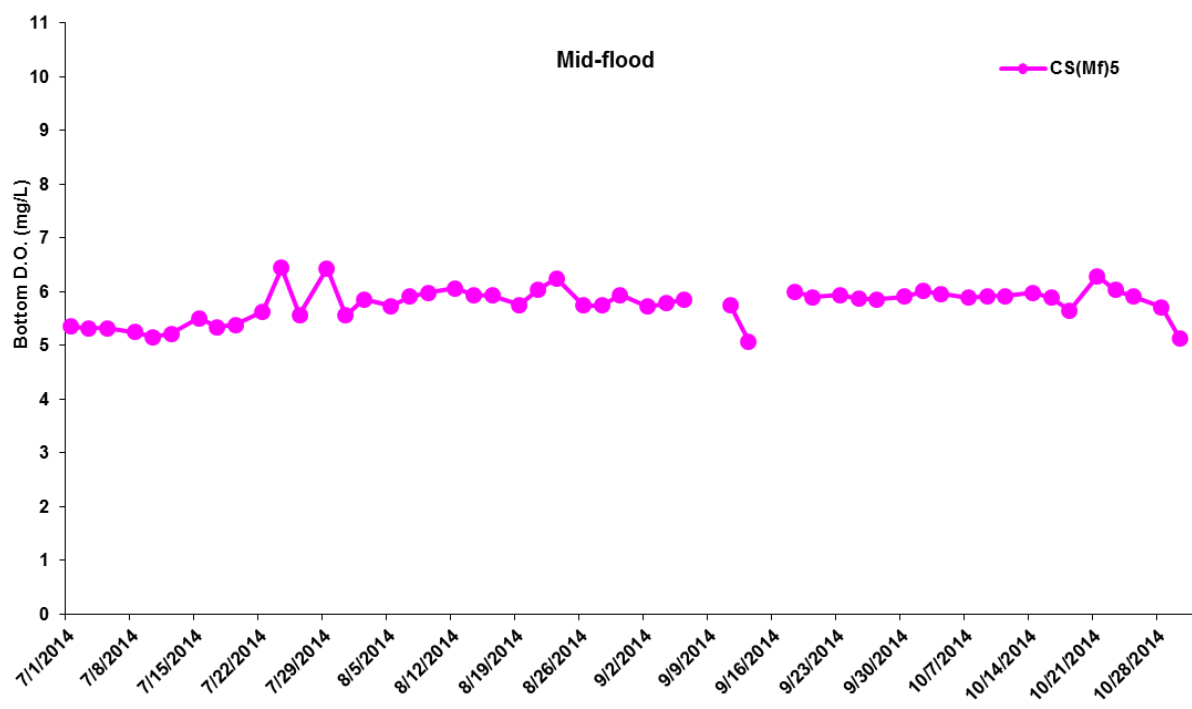
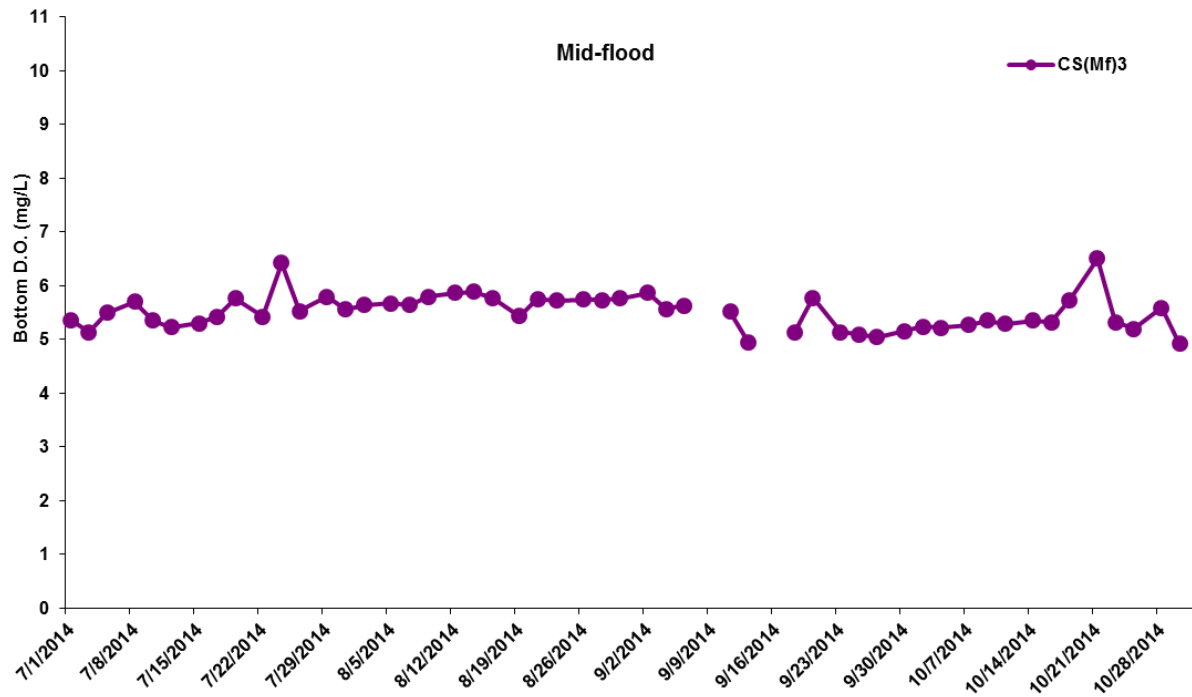


Figure J17 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 July and 31 October 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

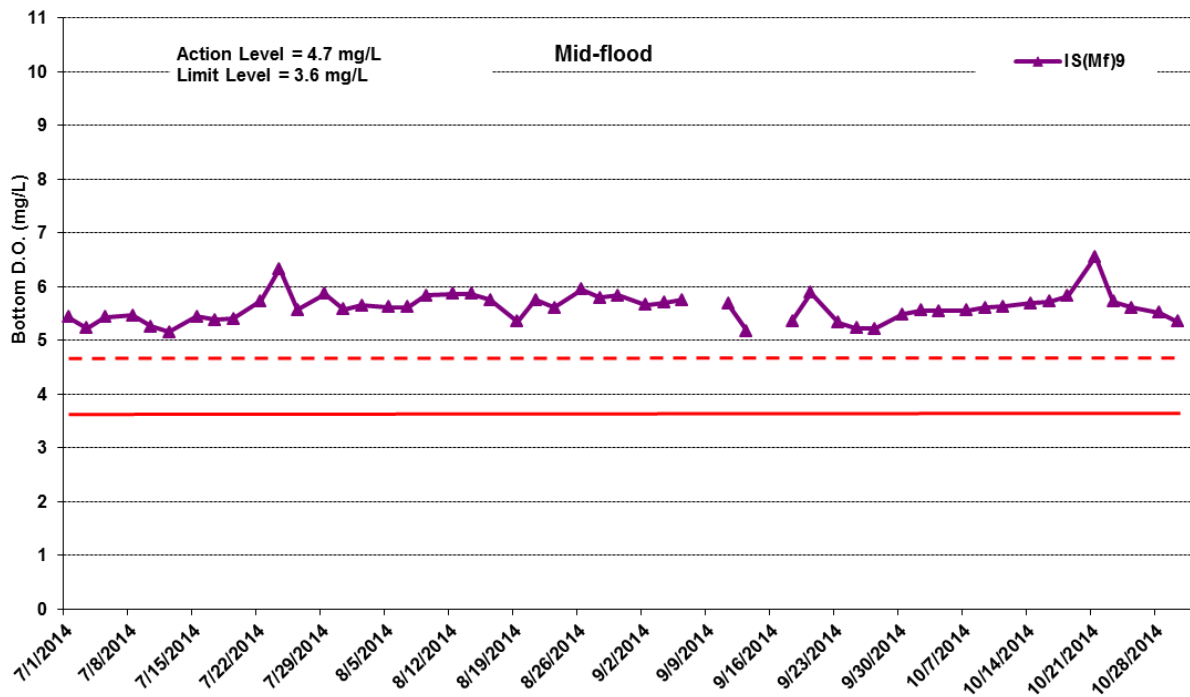
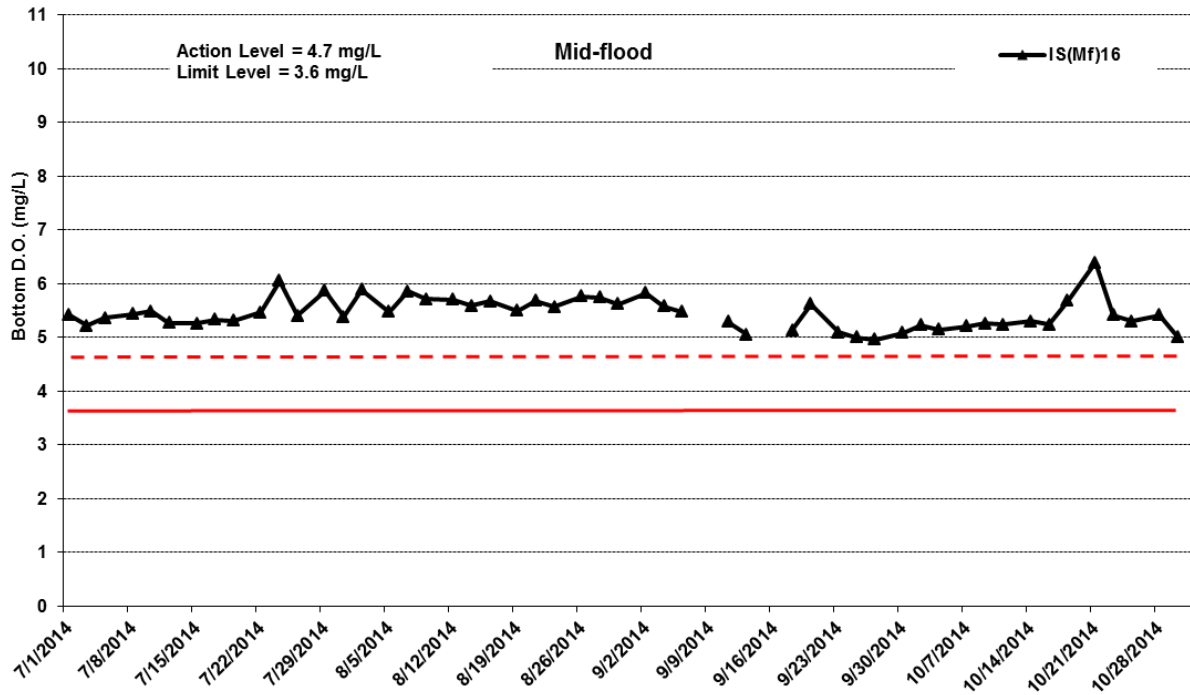


Figure J18 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 July and 31 October 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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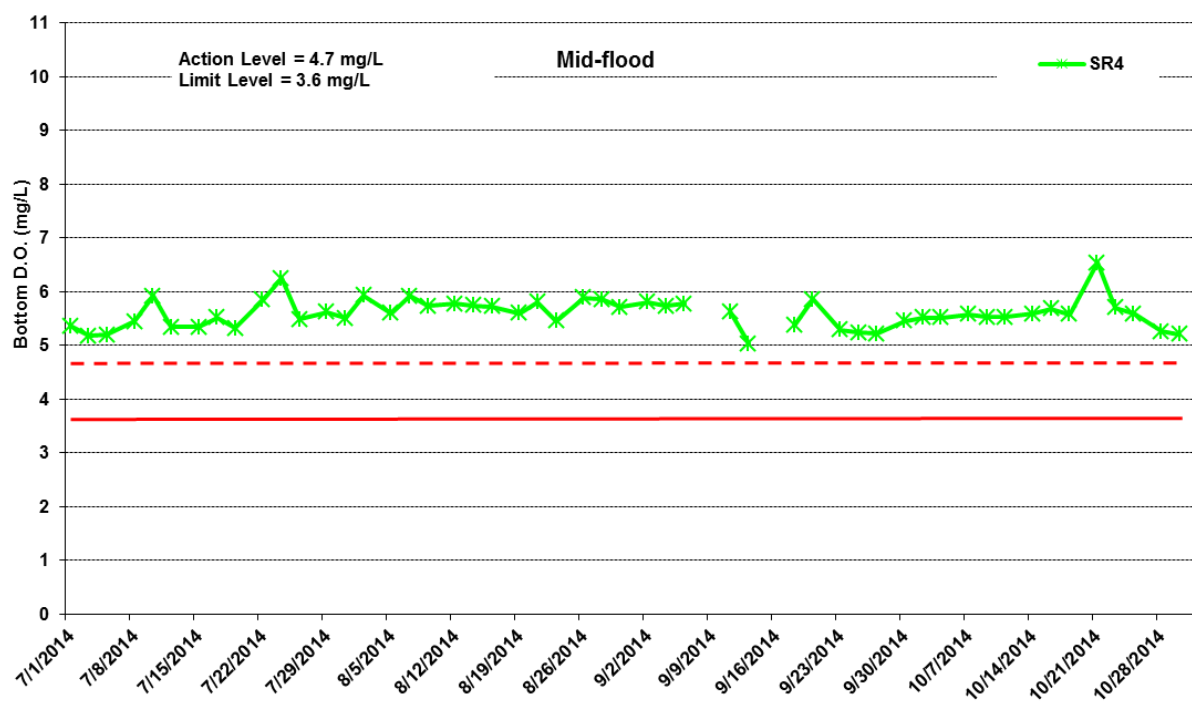
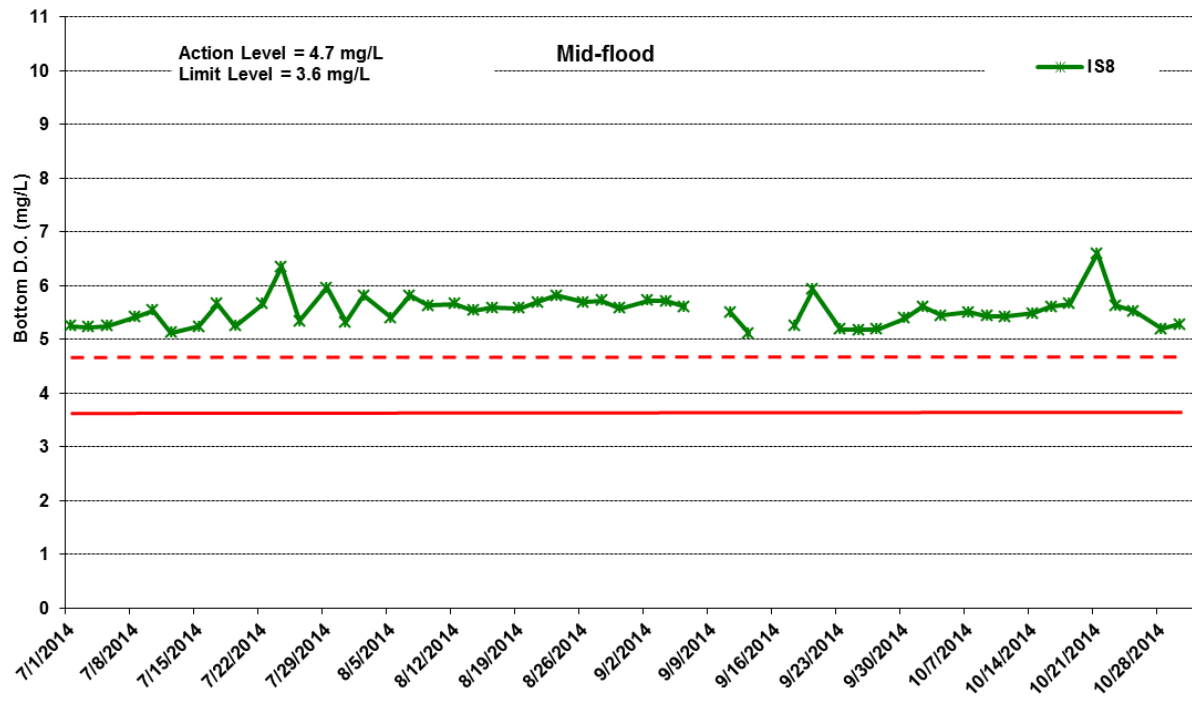


Figure J19 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 July and 31 October 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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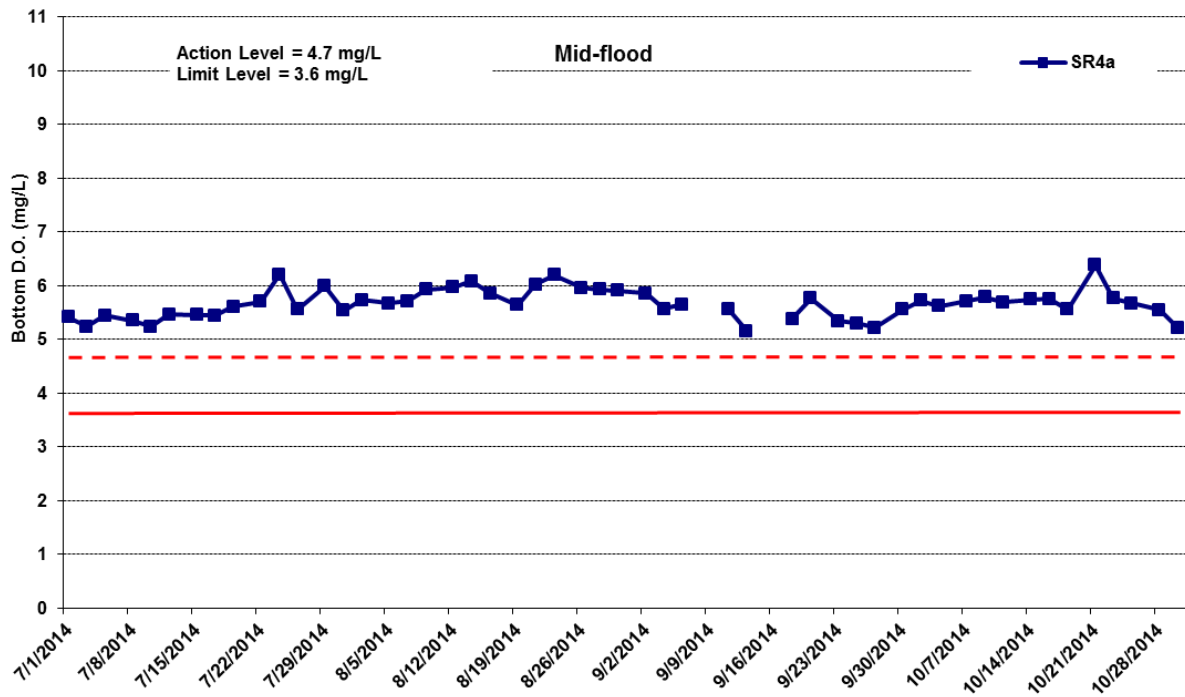


Figure J20 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 July and 31 October 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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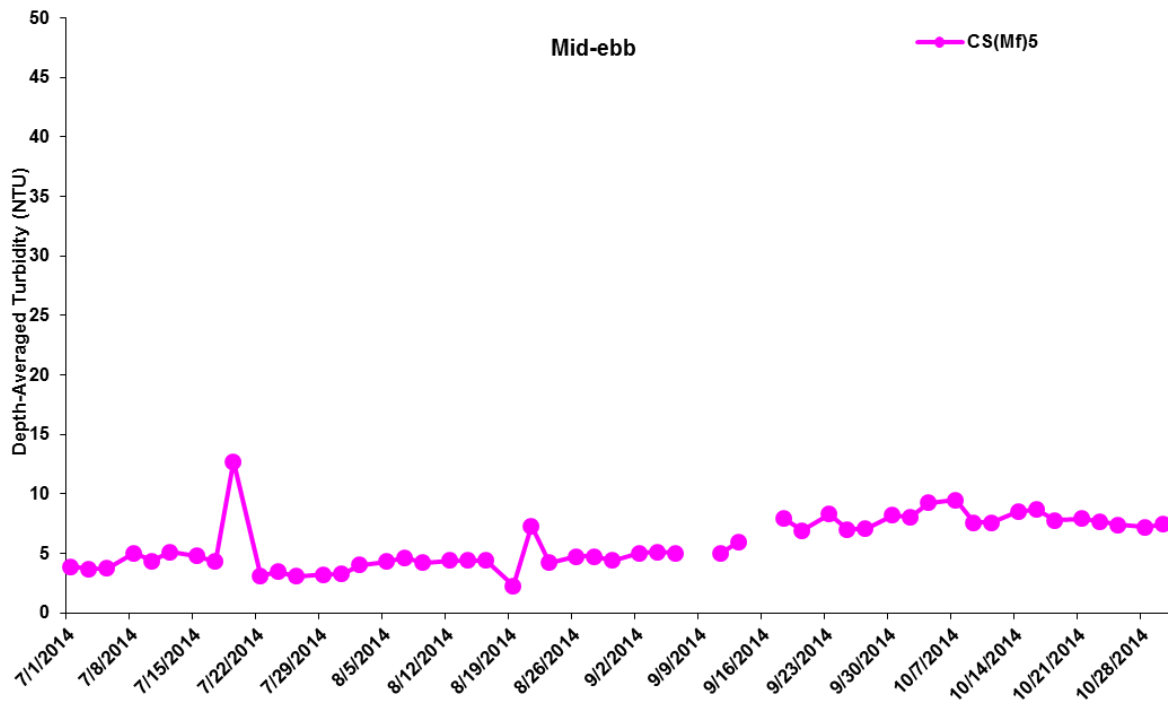
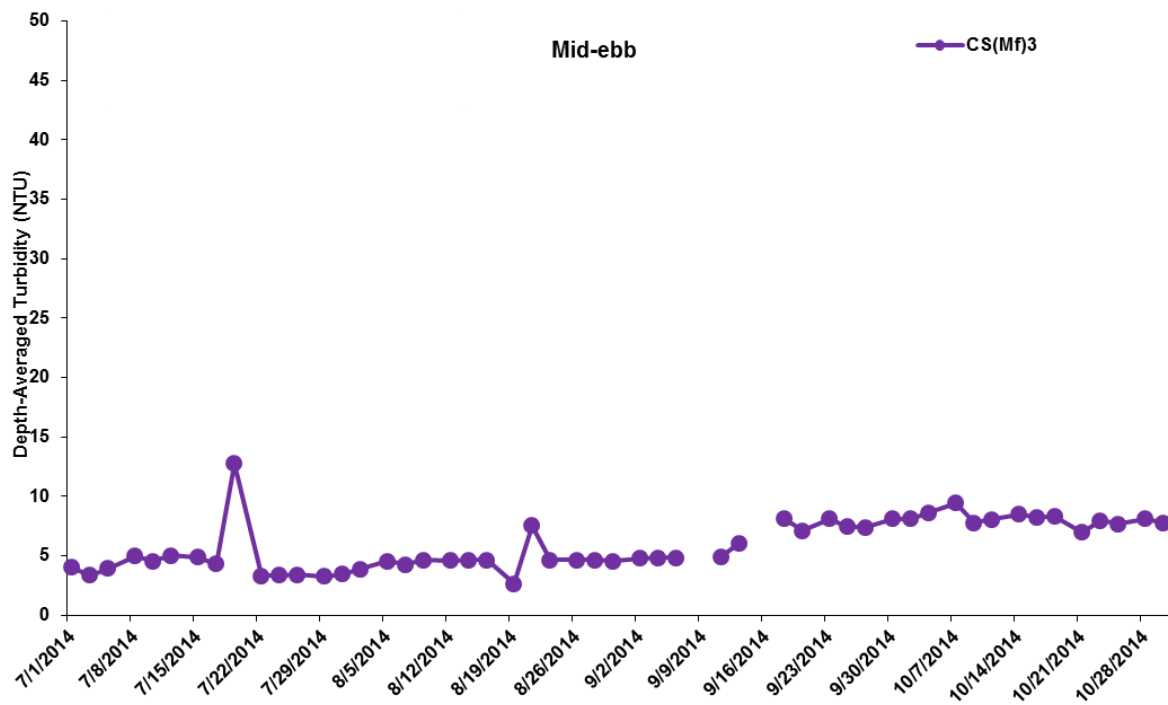


Figure J21 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 July and 31 October 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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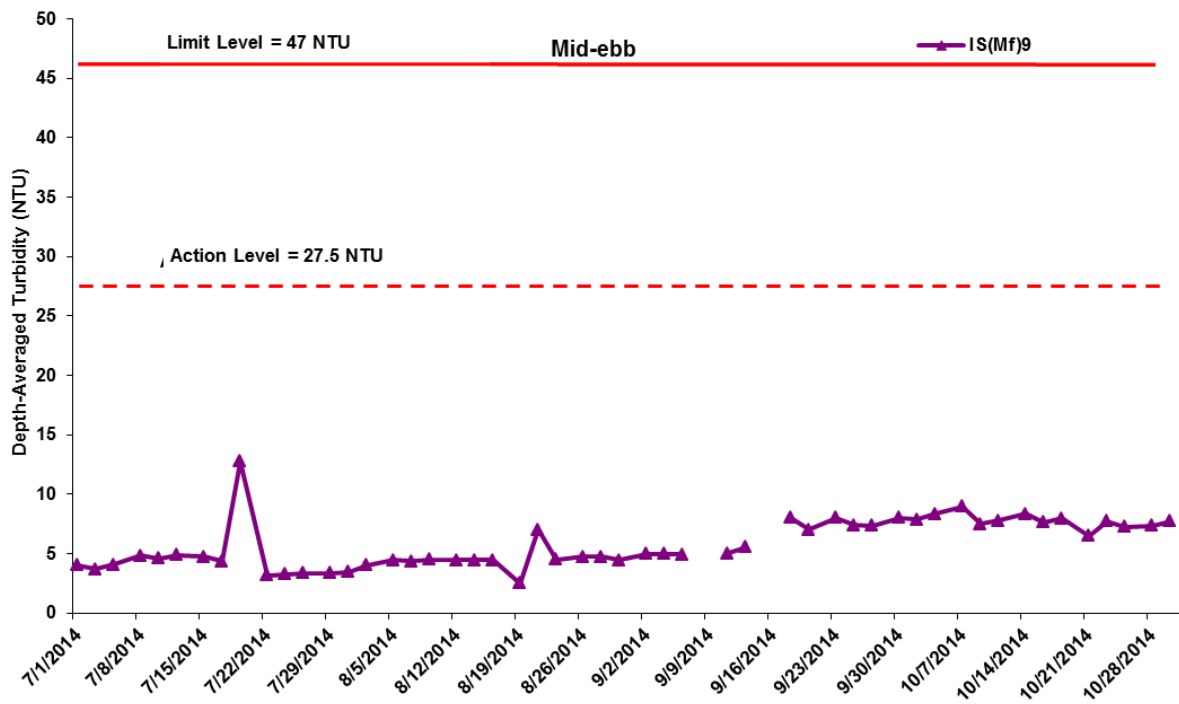
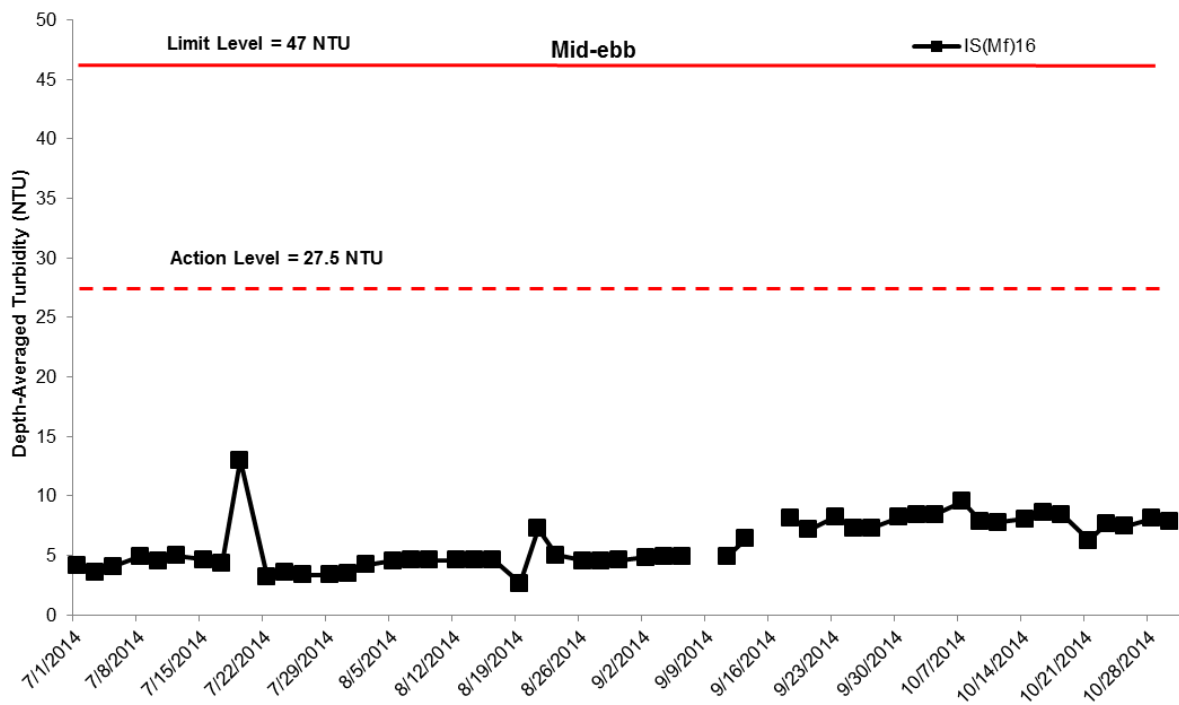
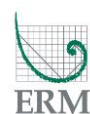


Figure J22 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 July and 31 October 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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Resources
Management**



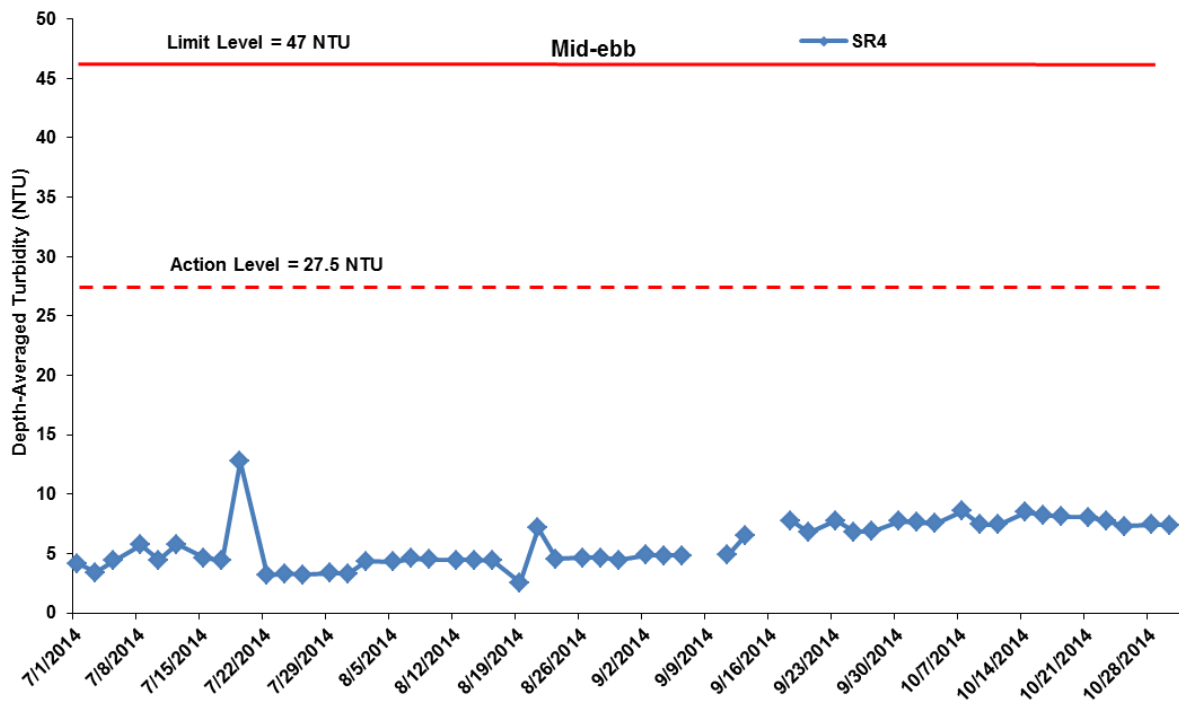
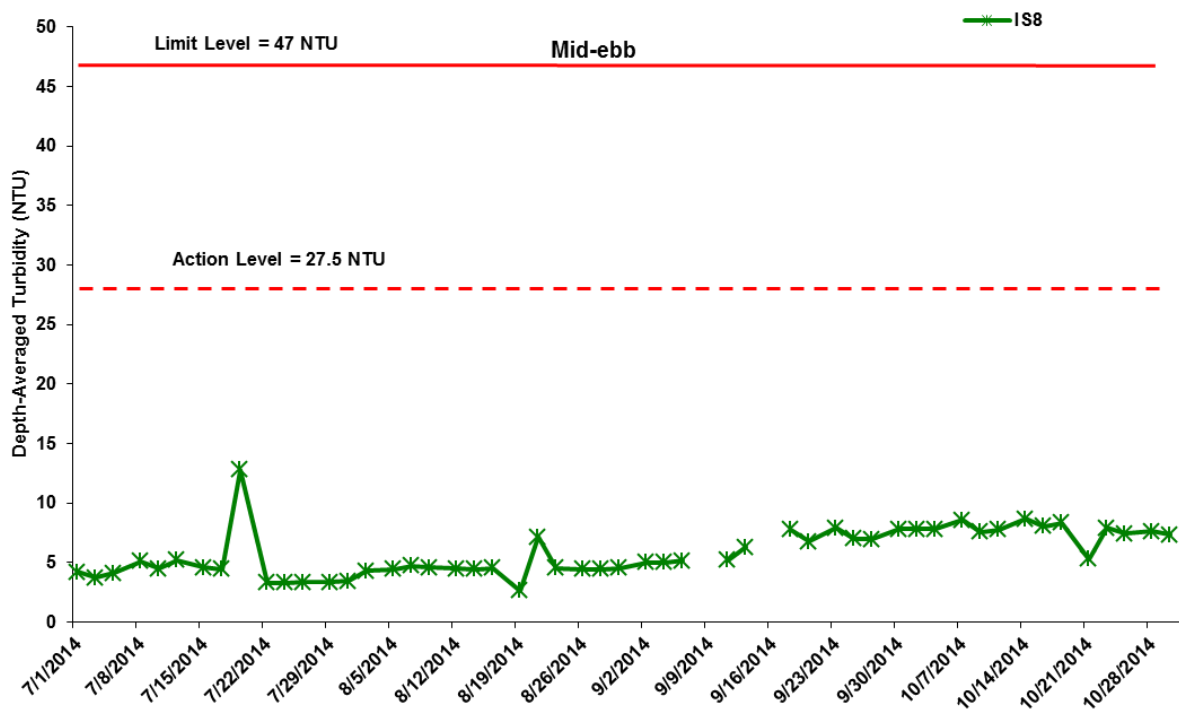


Figure J23 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 July and 31 October 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



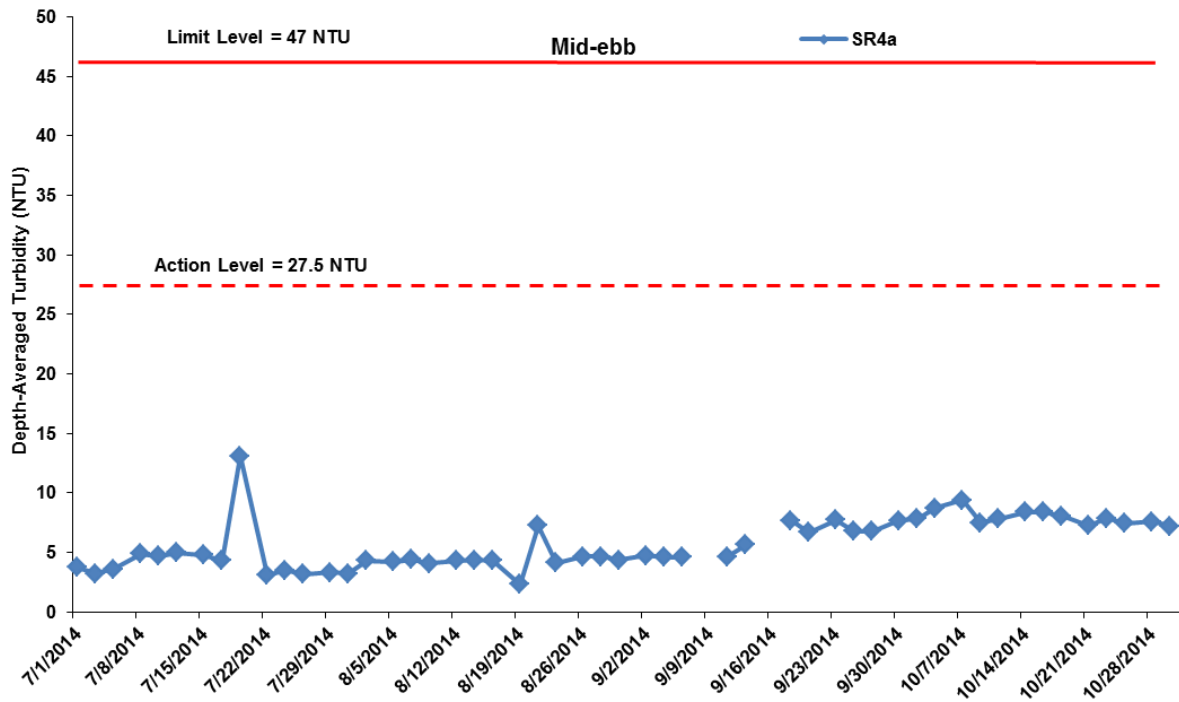


Figure J24 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 July and 31 October 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



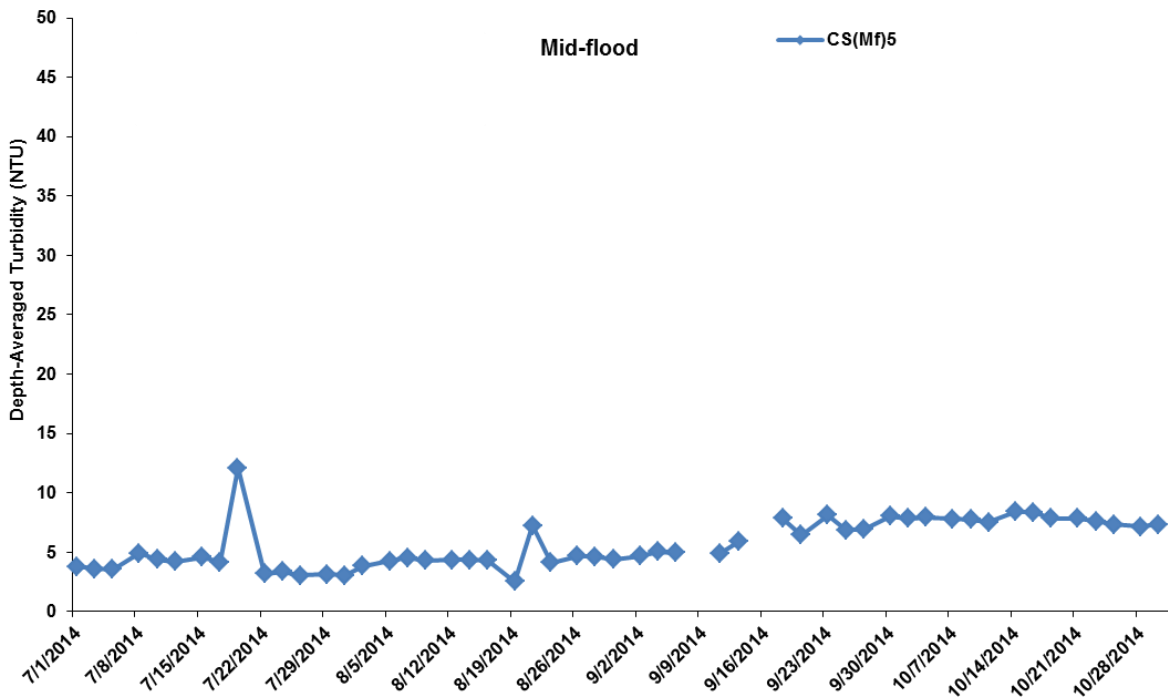
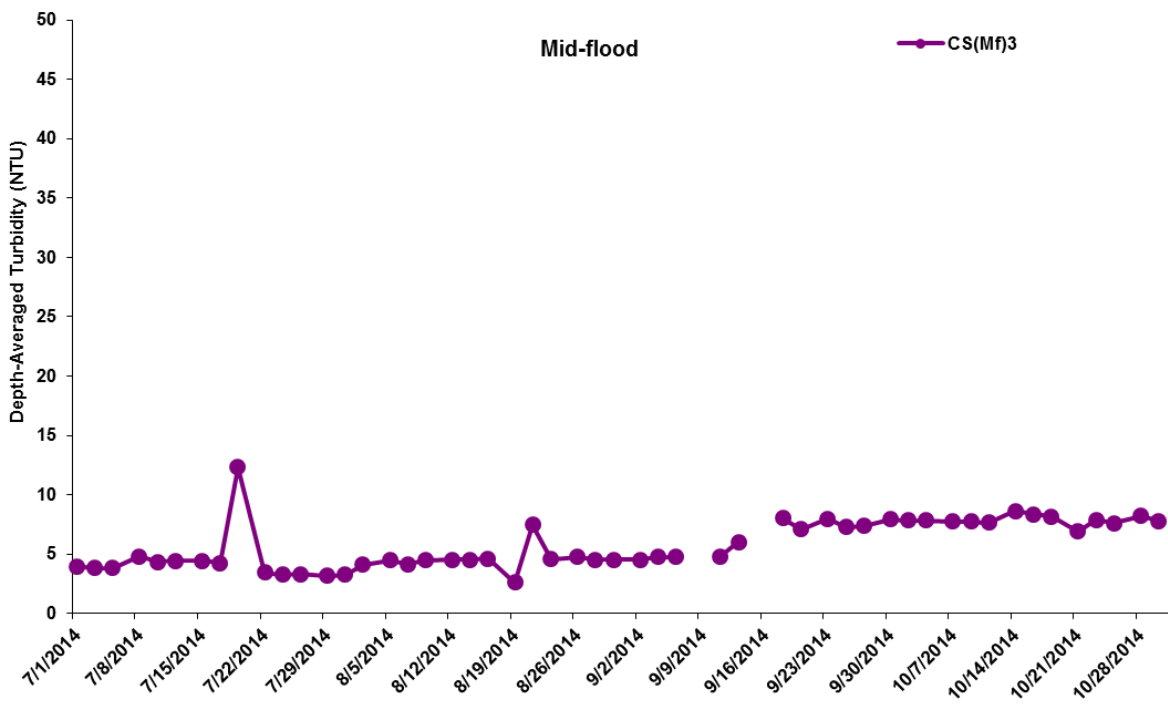


Figure J25 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 July and 31 October 2014 at CS(Mf)3 and CS(MF)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



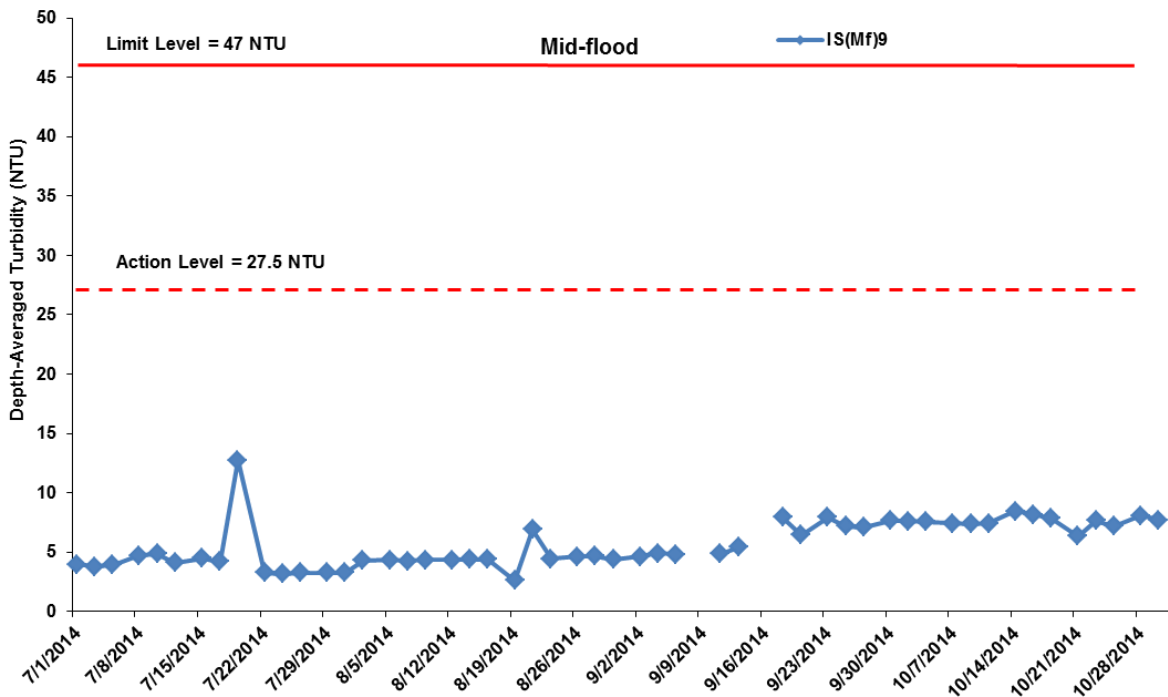
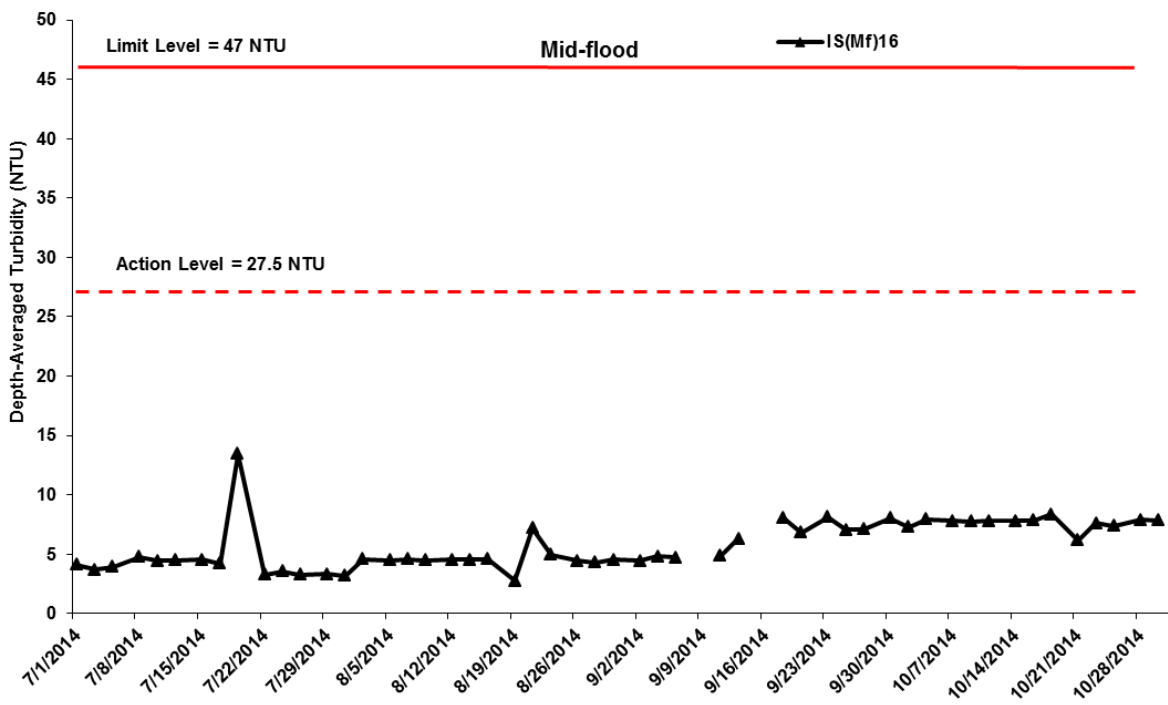


Figure J26 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 July and 31 October 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



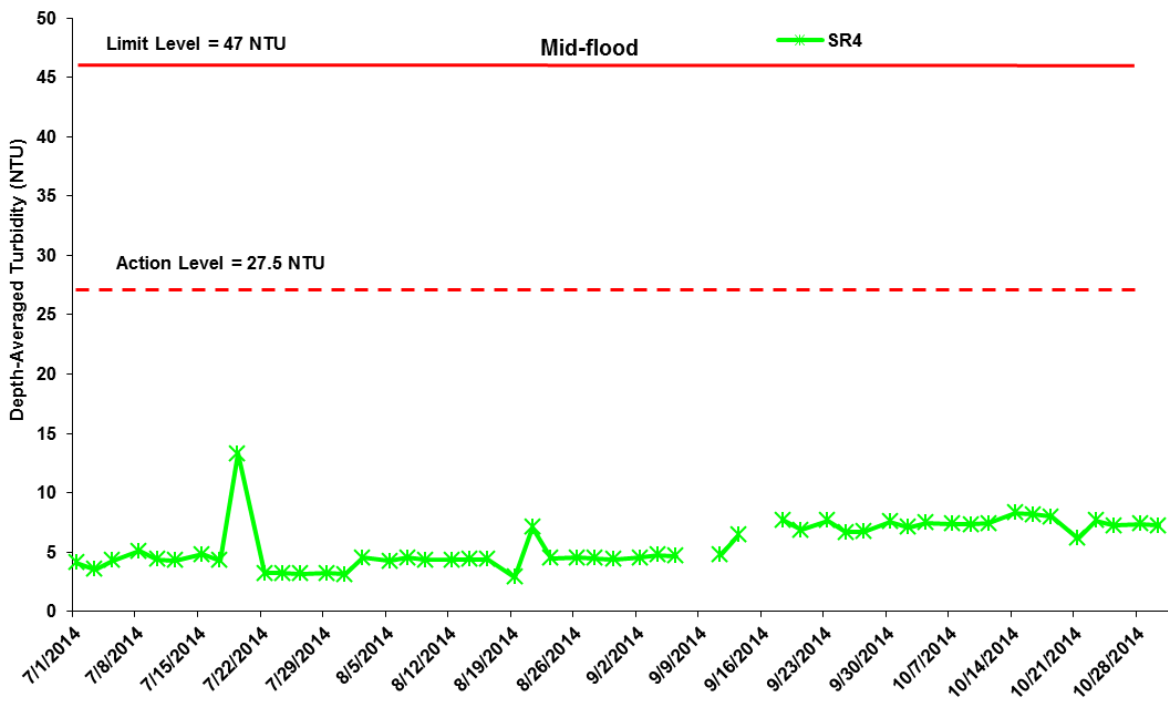
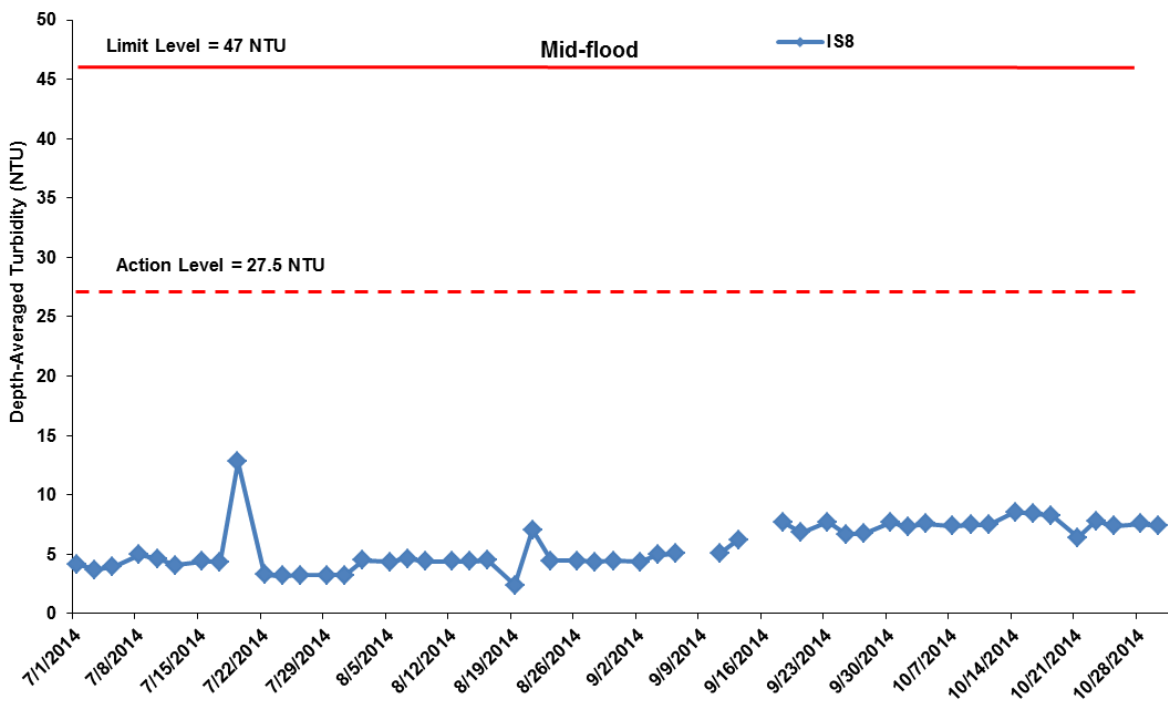


Figure J27 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 July and 31 October 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

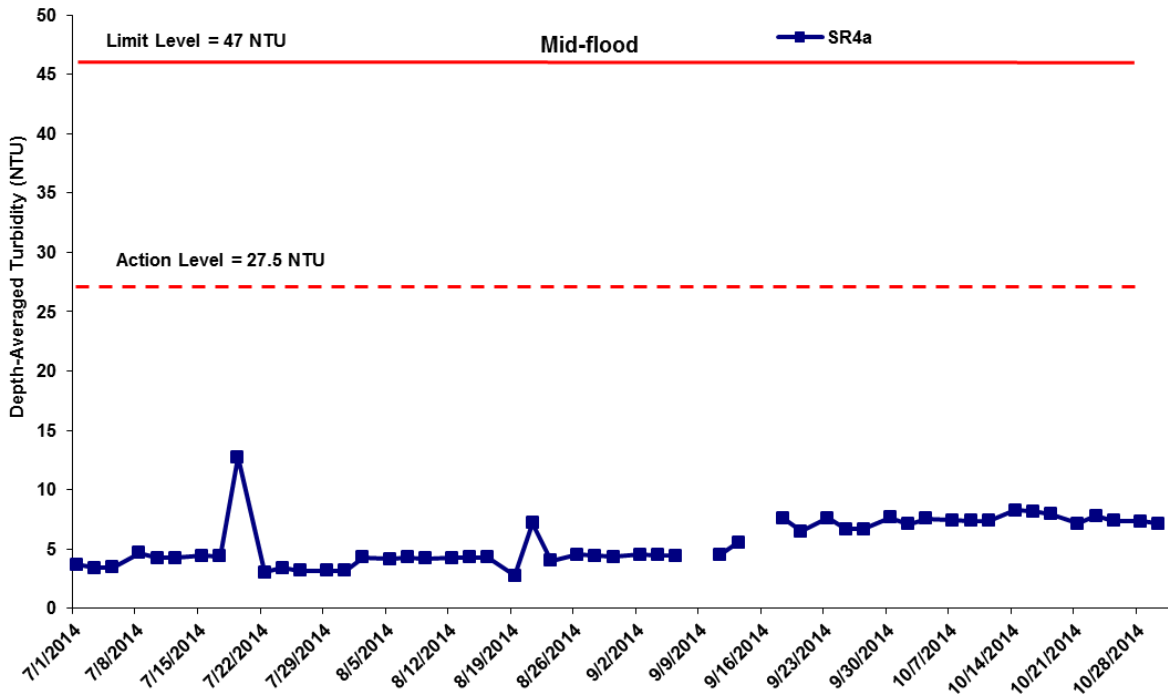


Figure J28 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 July and 31 October 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



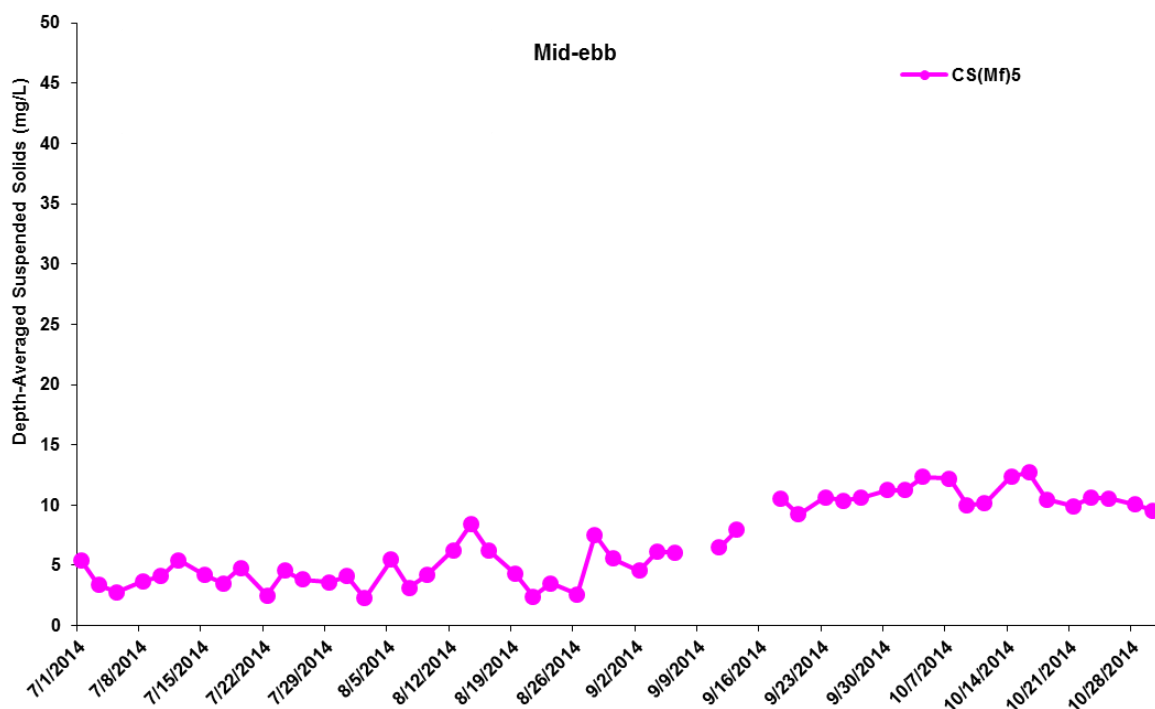
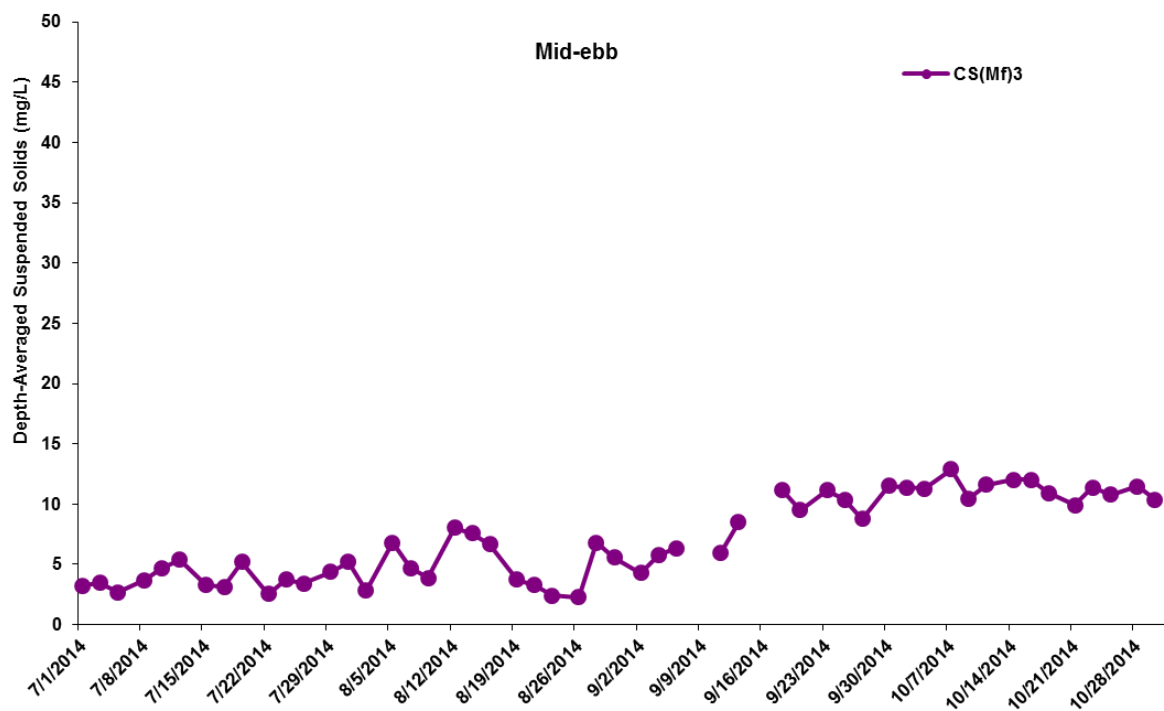


Figure J29 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 July and 31 October 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



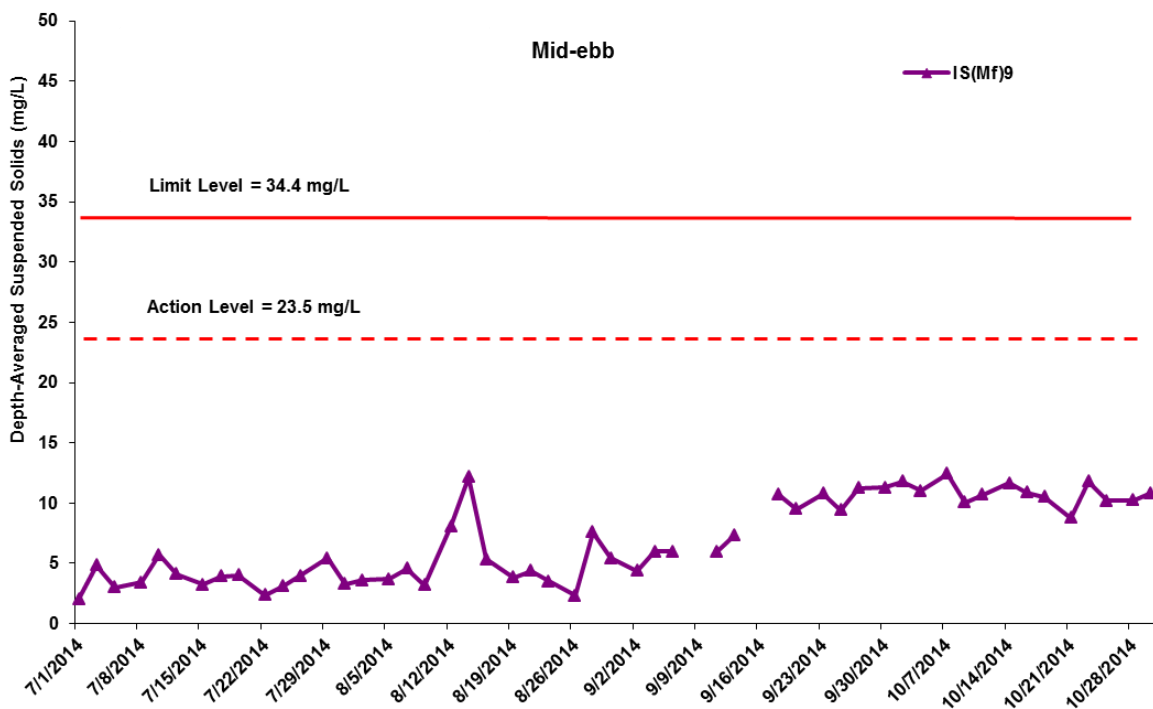
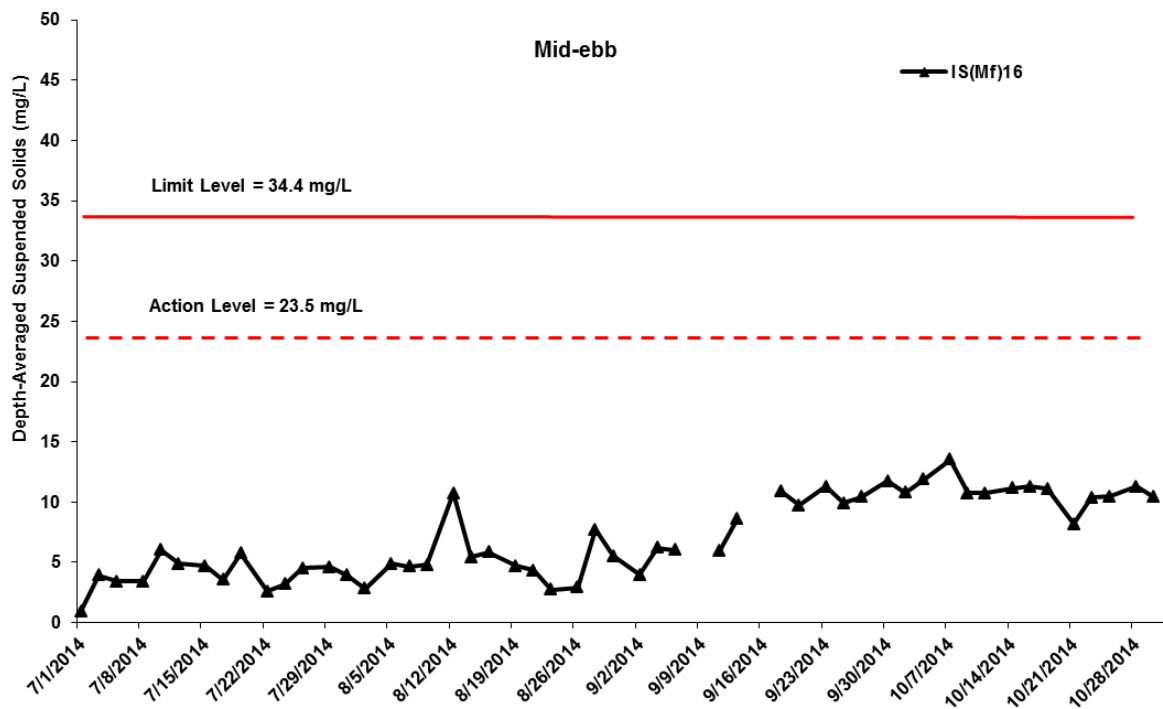


Figure J30 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 July and 31 October 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



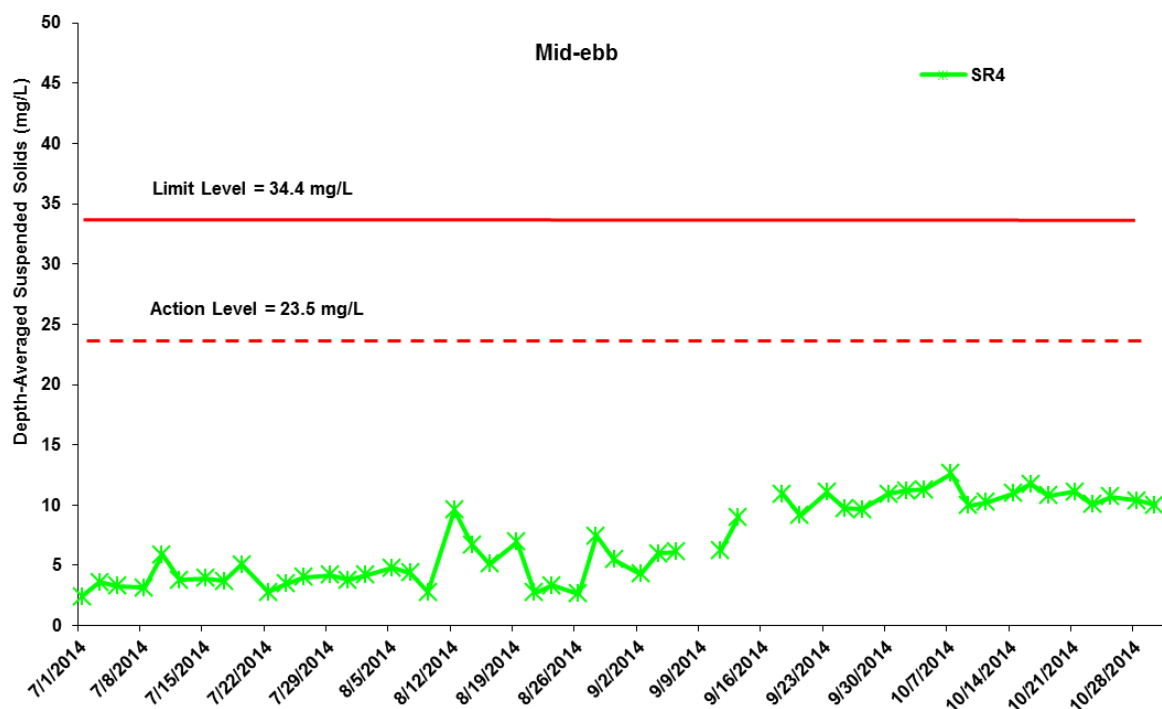
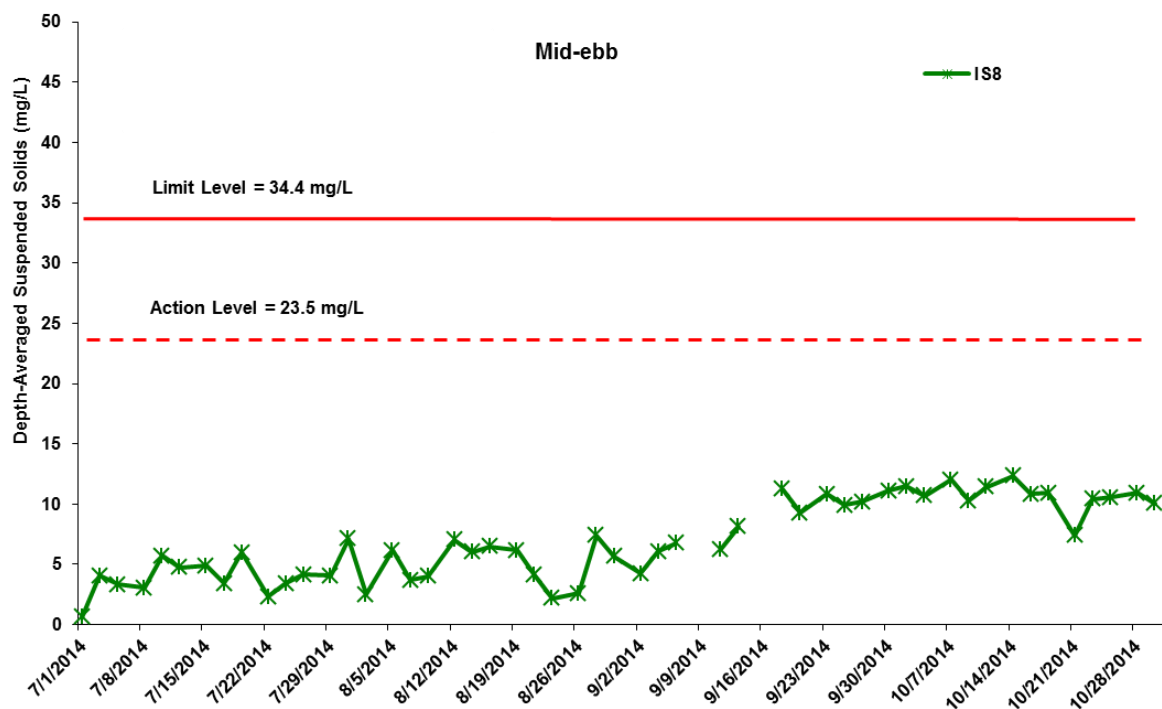


Figure J31 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 July and 31 October 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



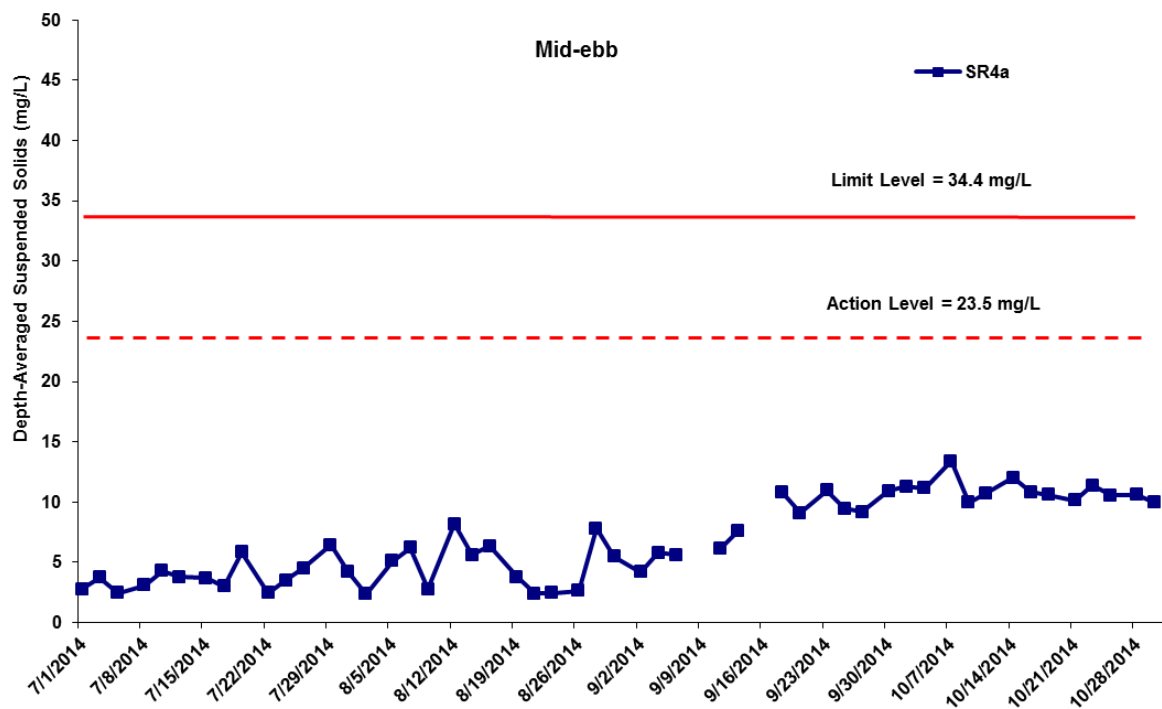


Figure J32 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 July and 31 October 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



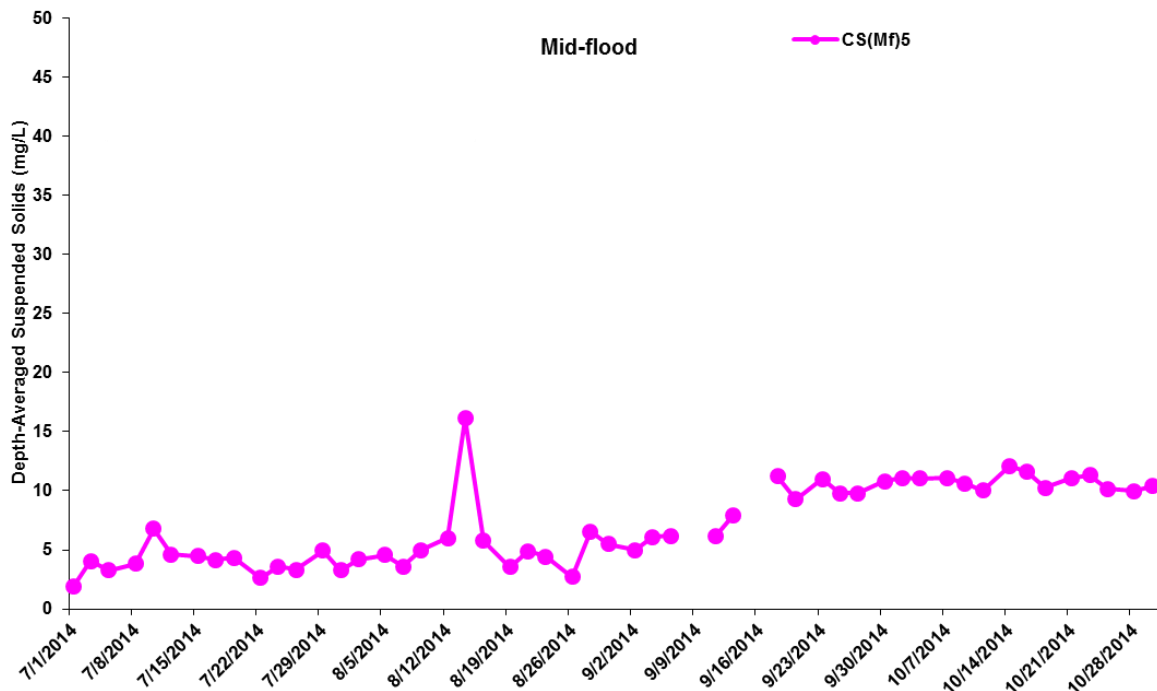
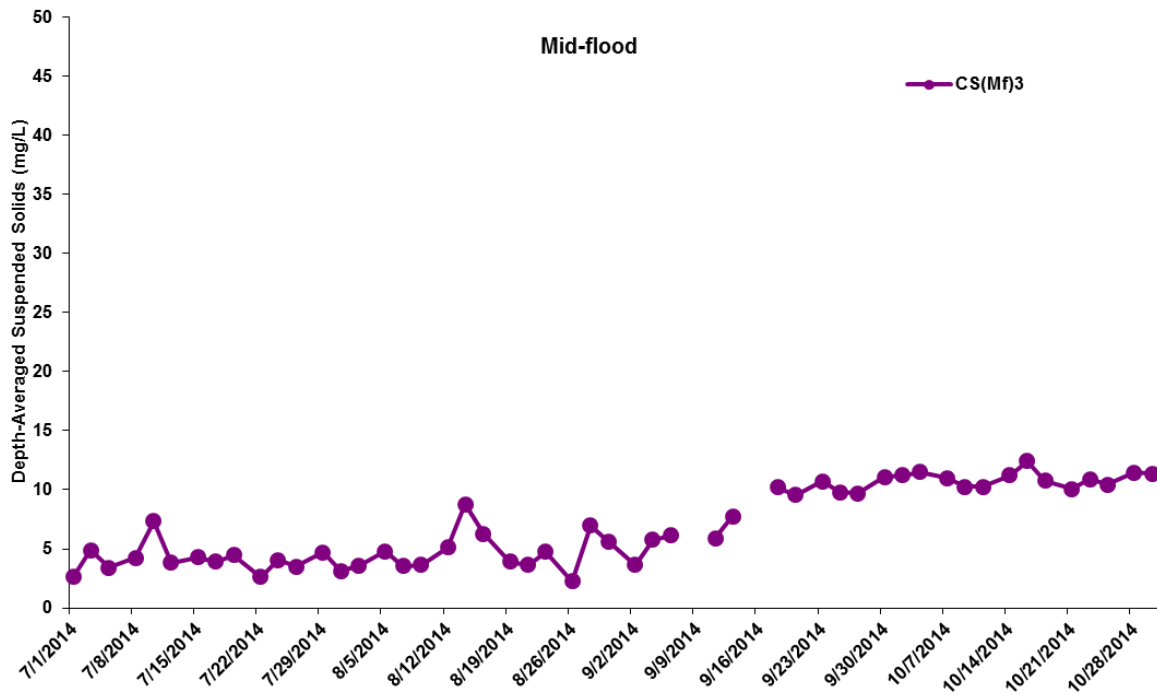


Figure J33 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 July and 31 October 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



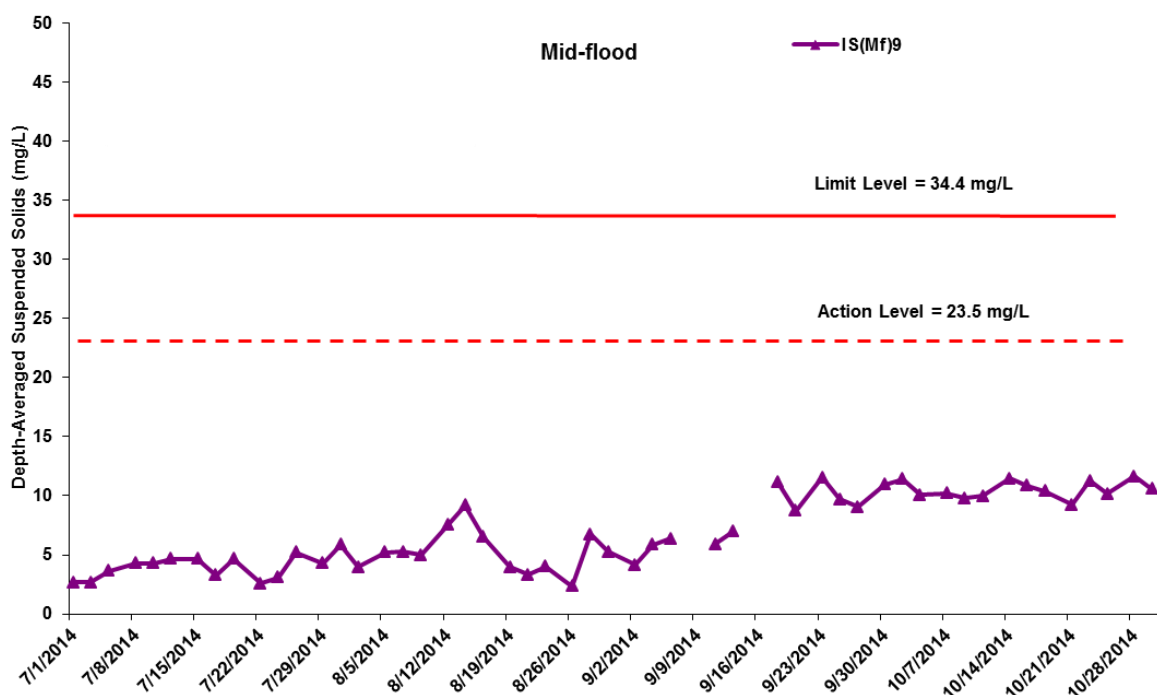
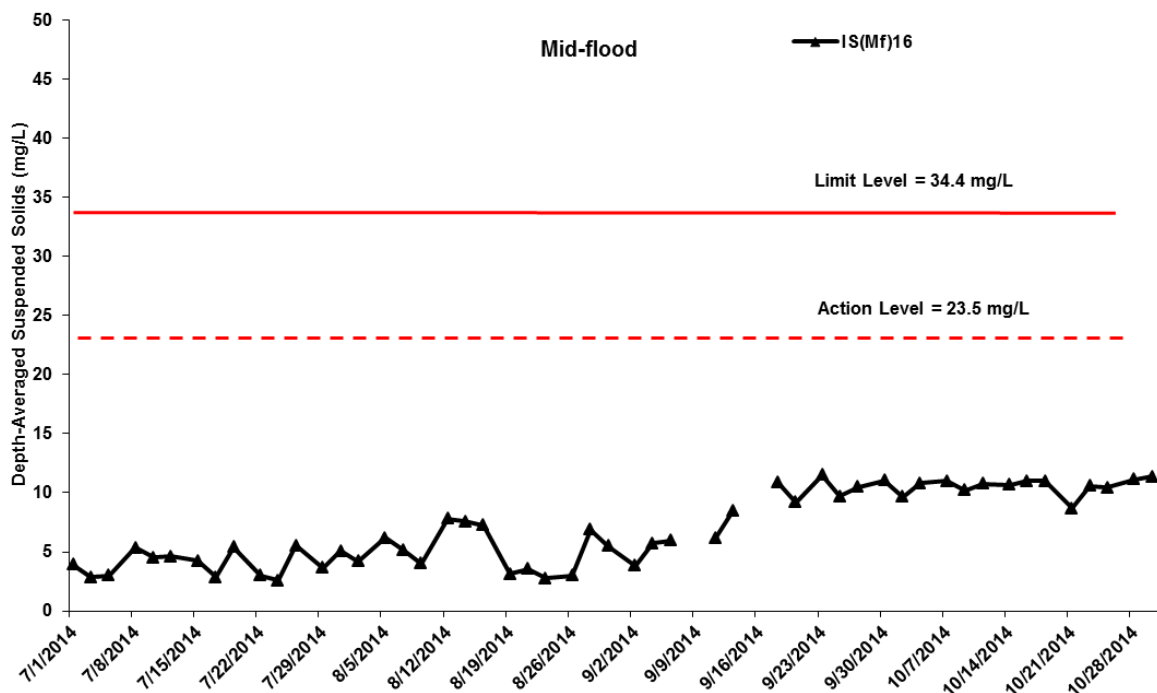


Figure J34 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 July and 31 October 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



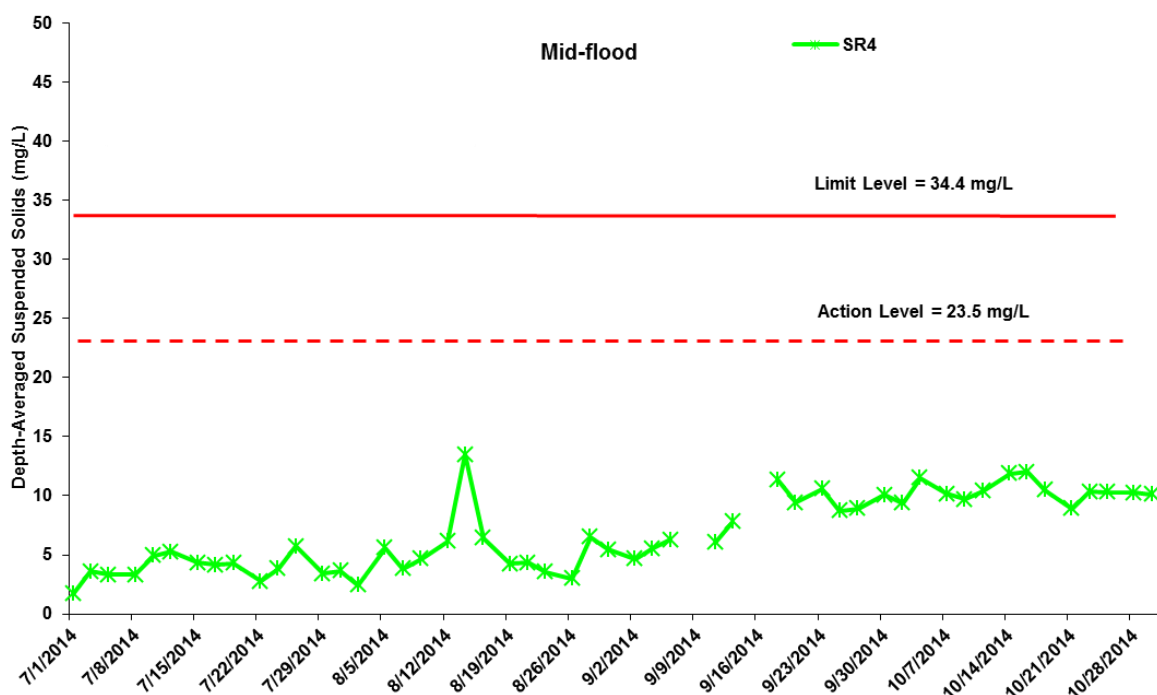
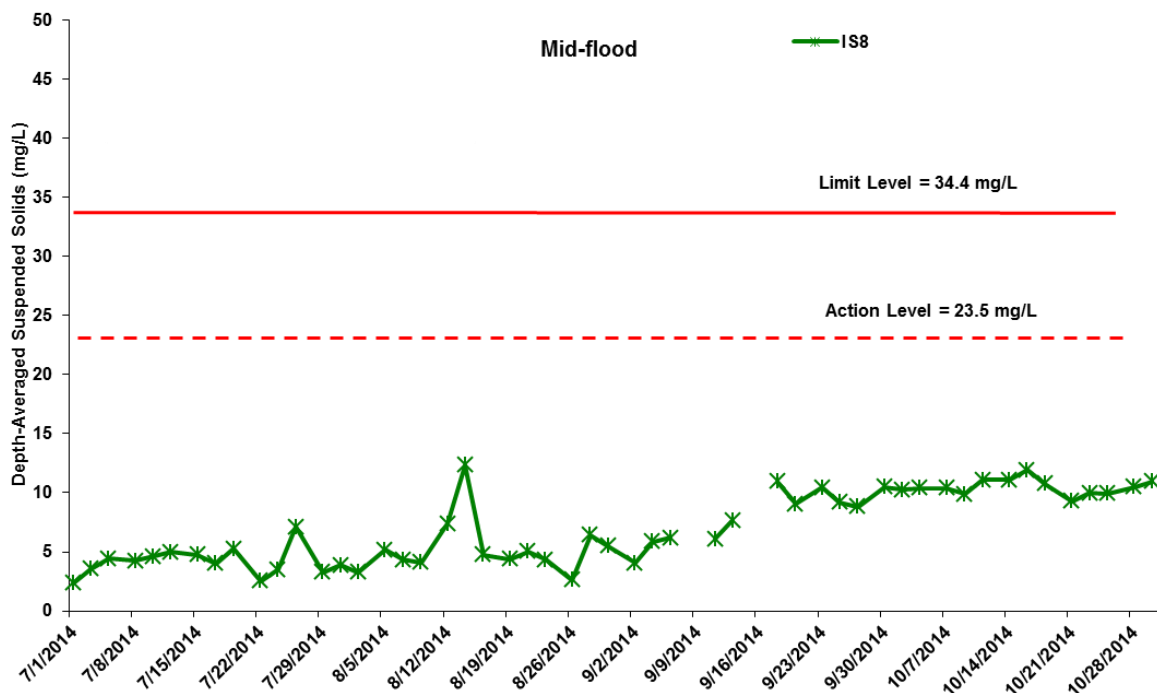


Figure J35 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 July and 31 October 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



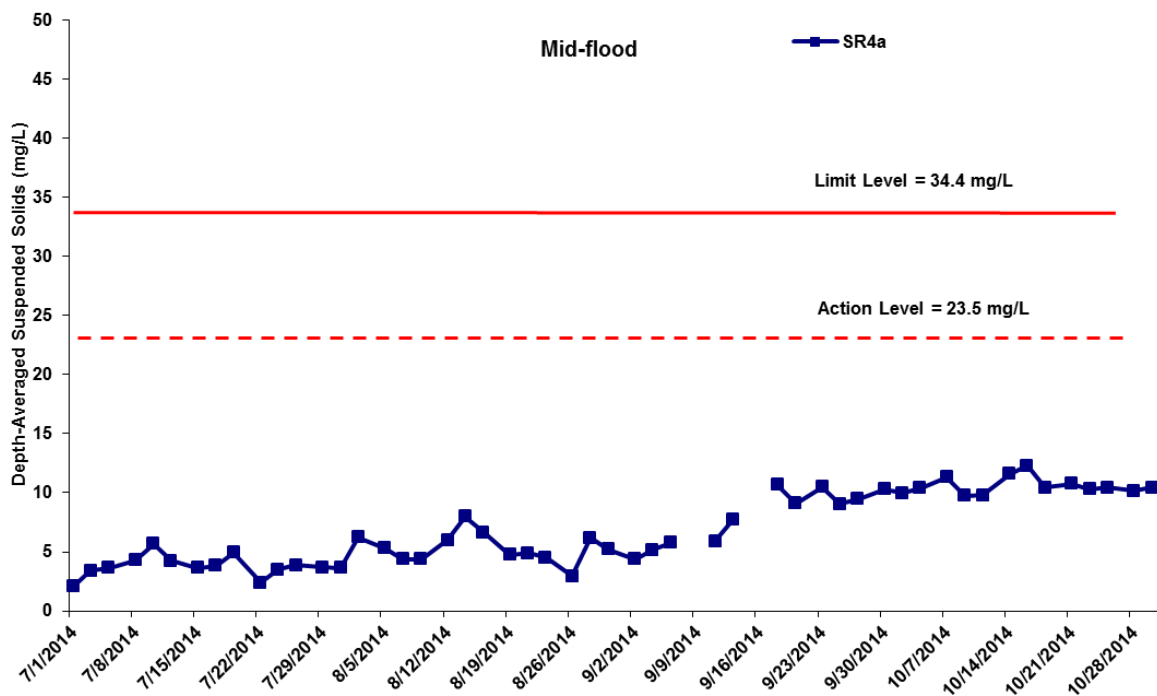
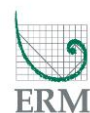


Figure J36 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 July and 31 October 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



Appendix K

Impact Dolphin Monitoring Survey Results

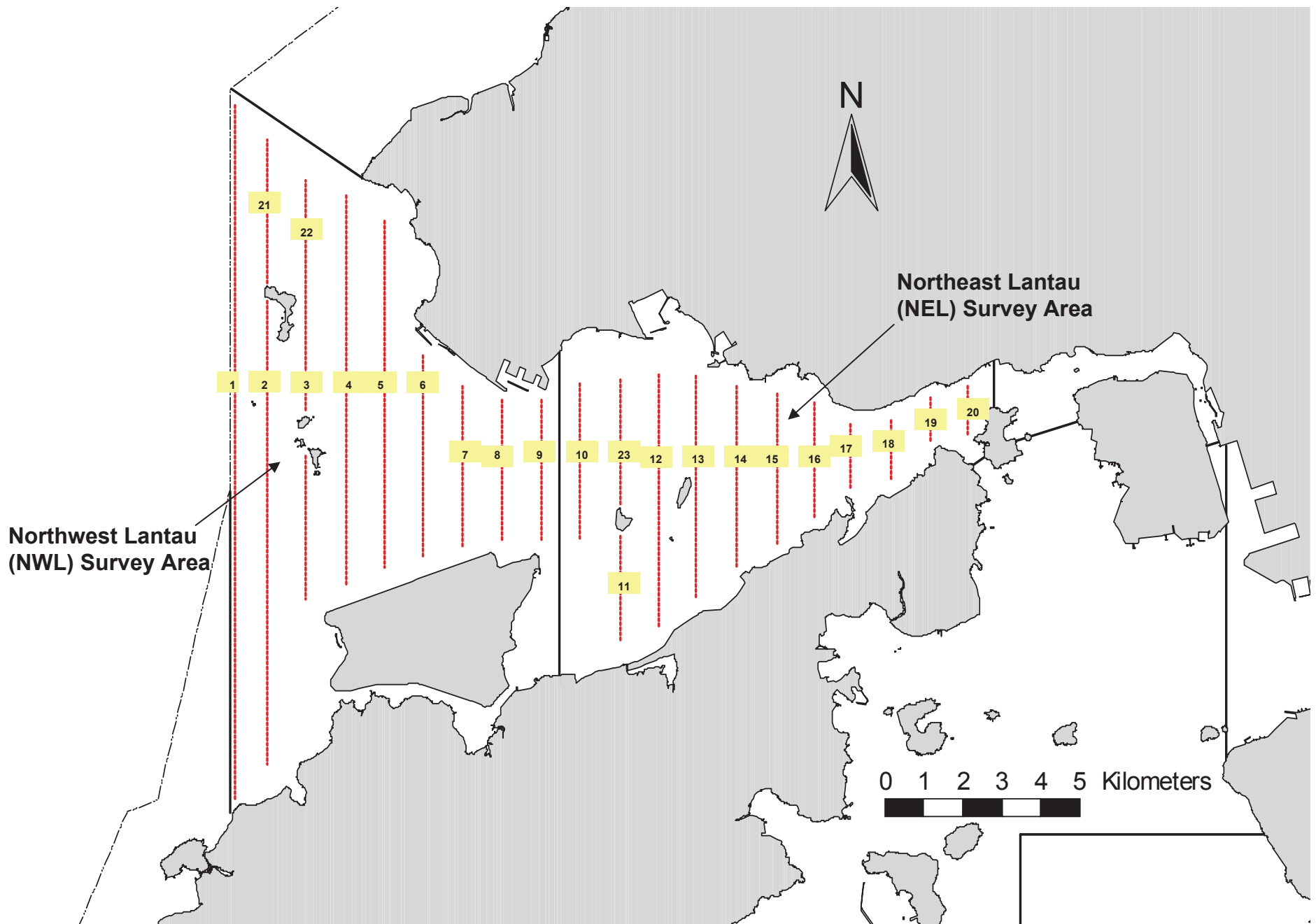


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas (from HKLR03 project)

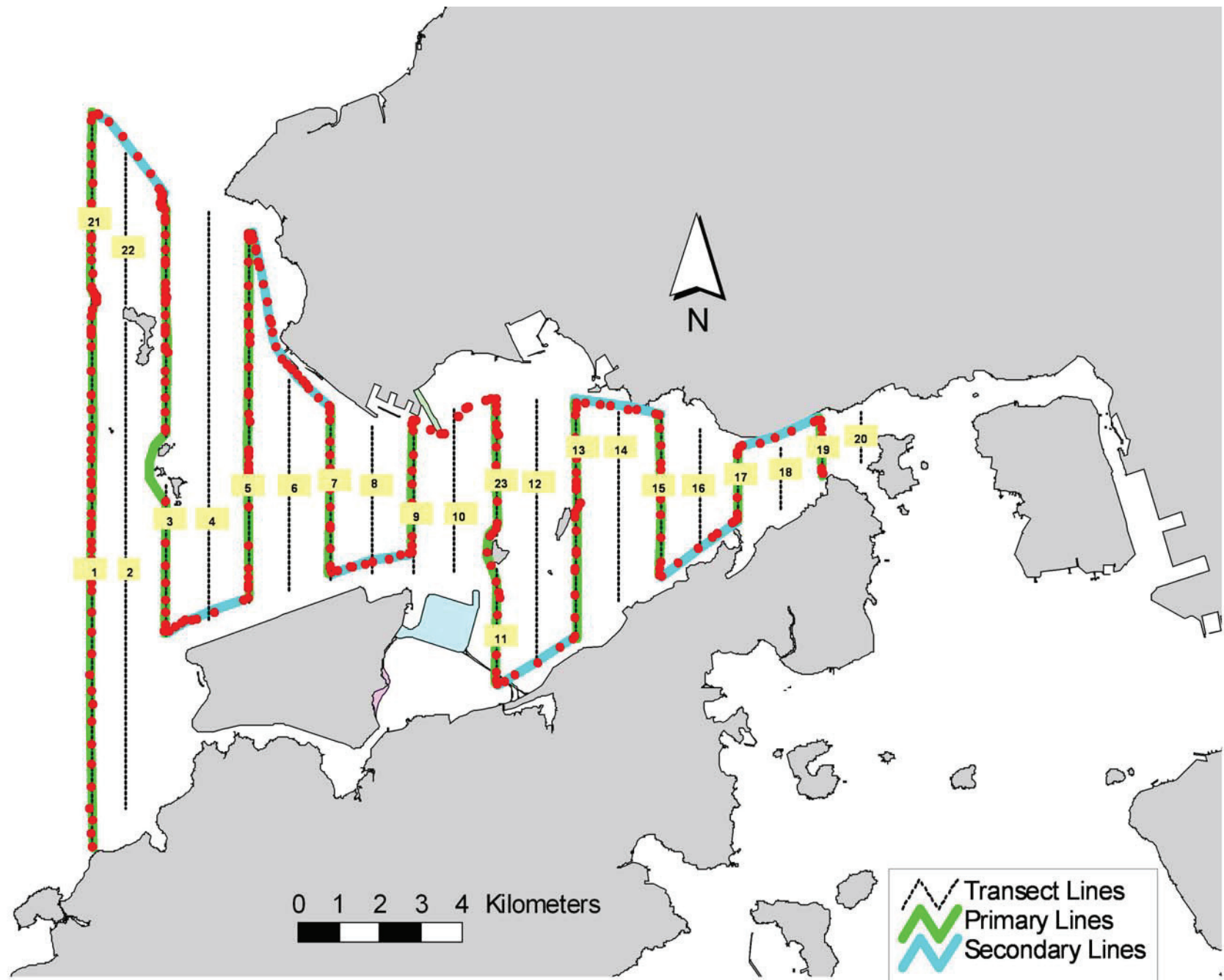


Figure 2. Survey Route on October 7th, 2014 (from HKLR03 project)

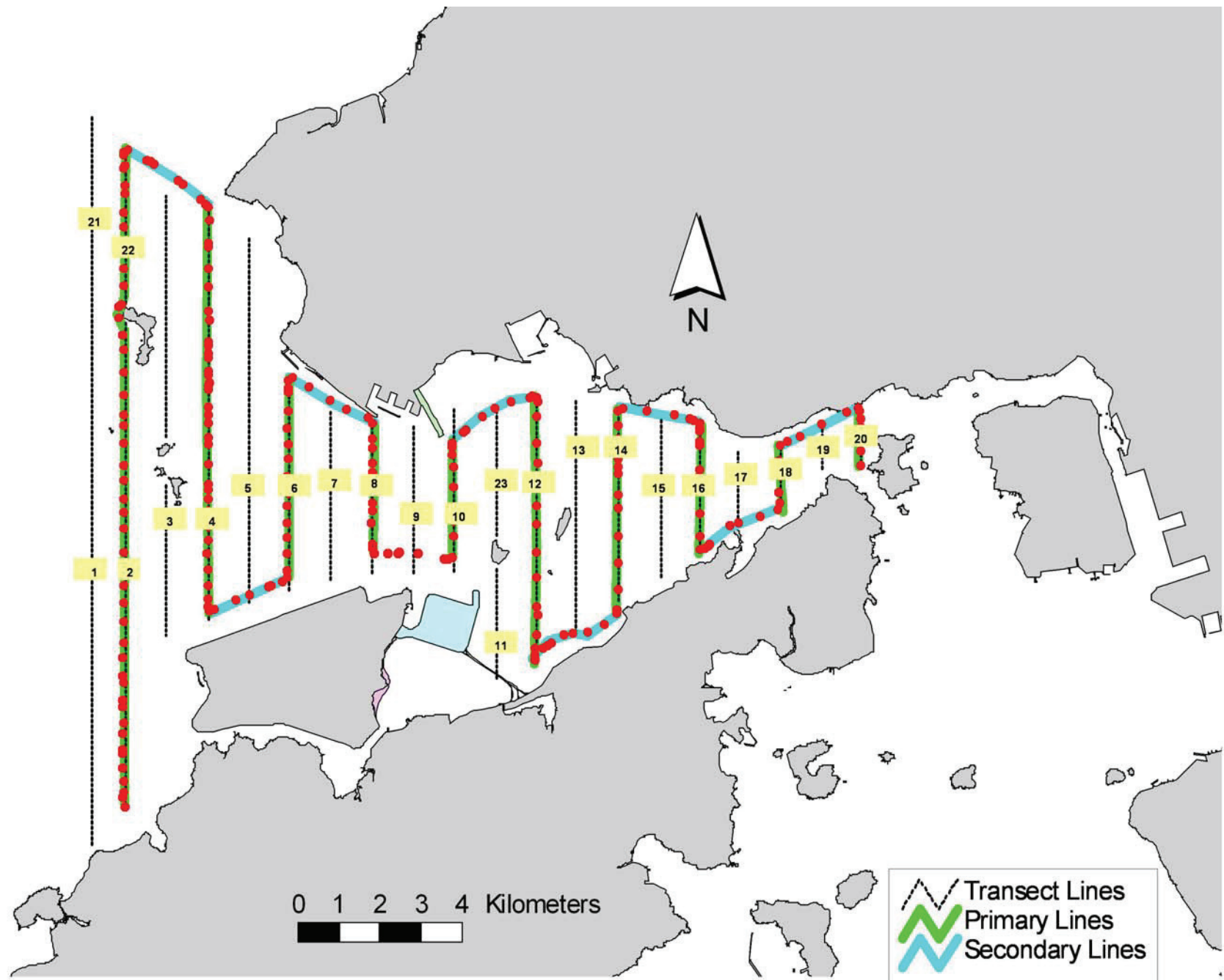


Figure 3. Survey Route on October 13th, 2014 (from HKLR03 project)

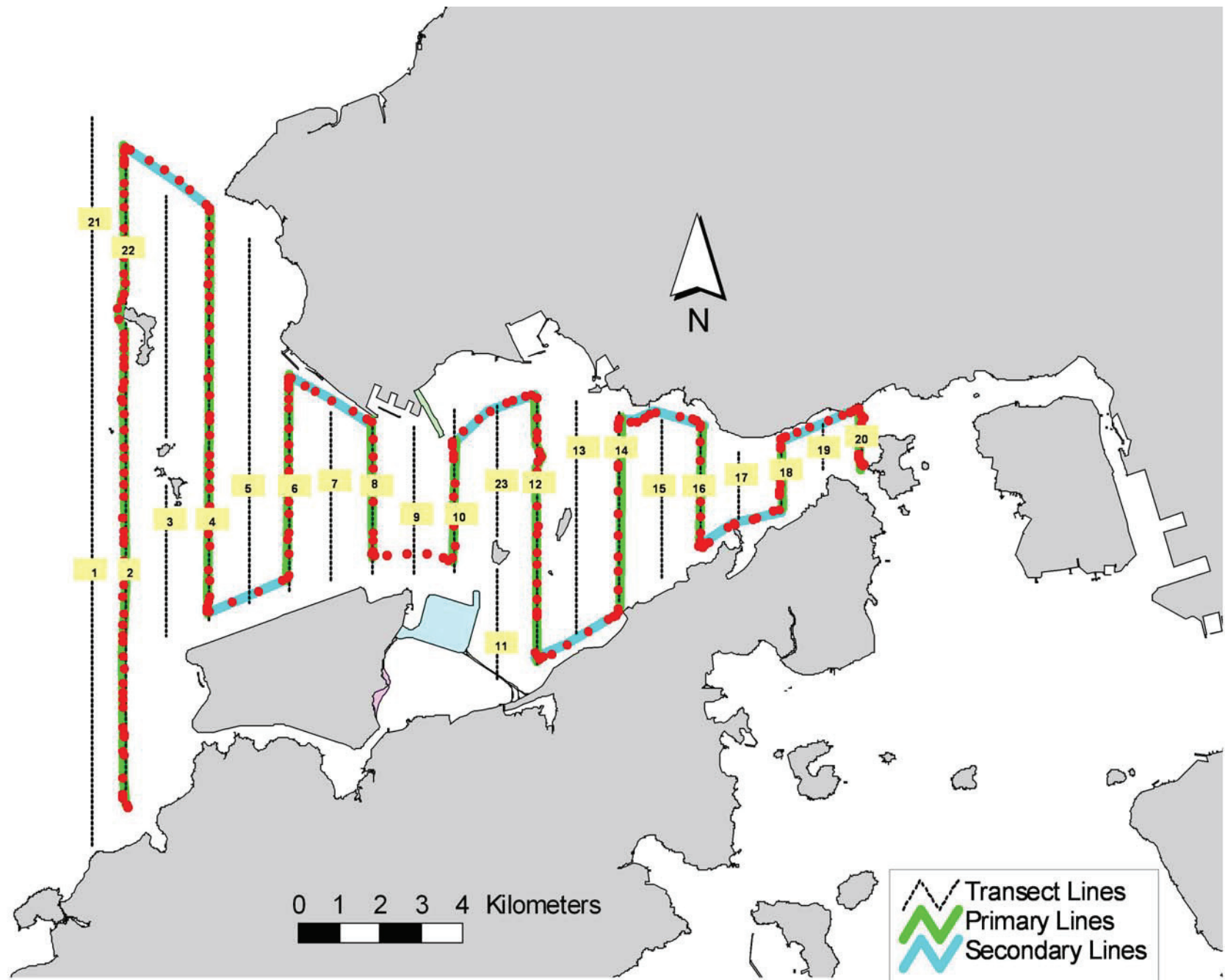


Figure 4. Survey Route on October 16th, 2014 (from HKLR03 project)

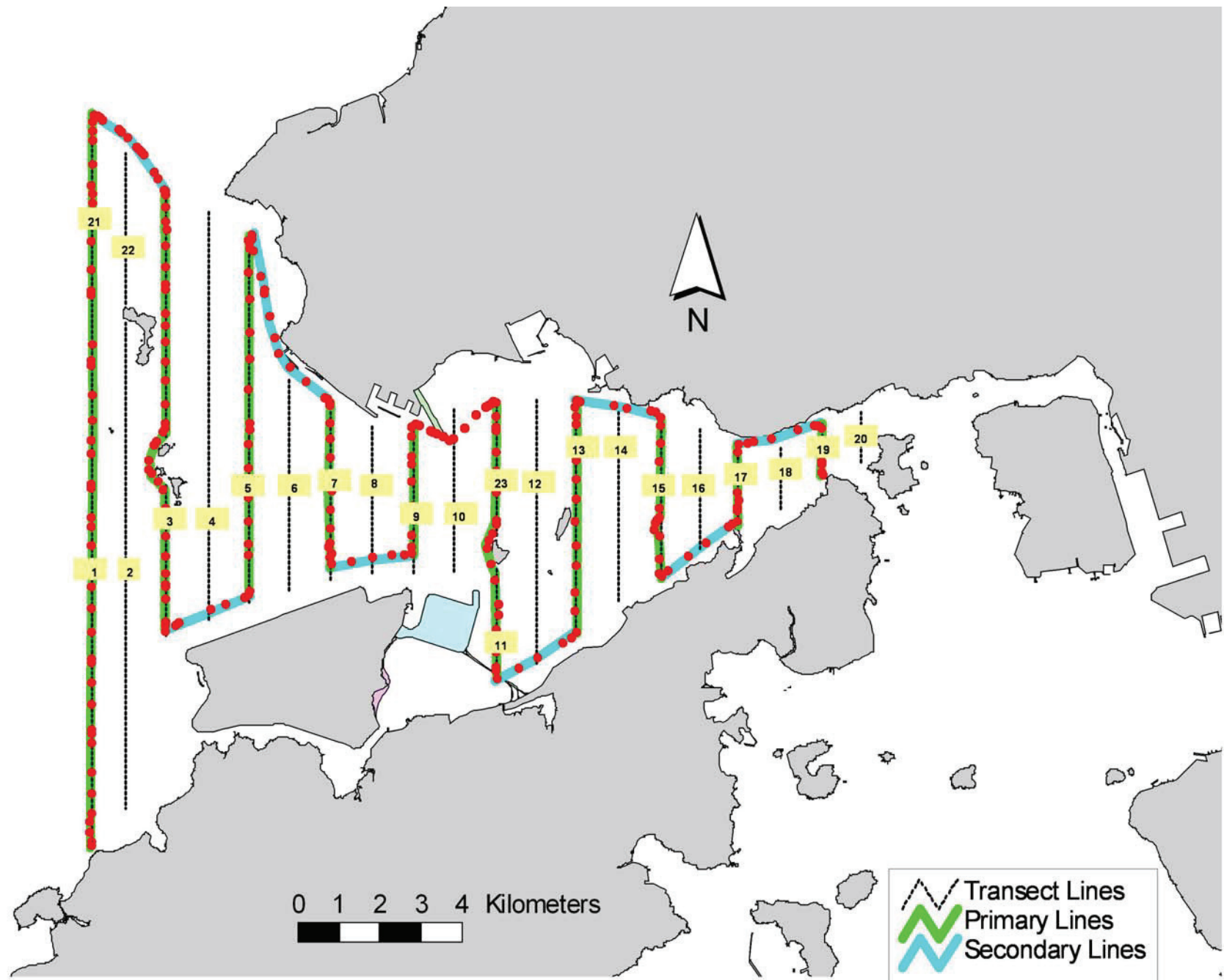


Figure 5. Survey Route on October 23rd, 2014 (from HKLR03 project)

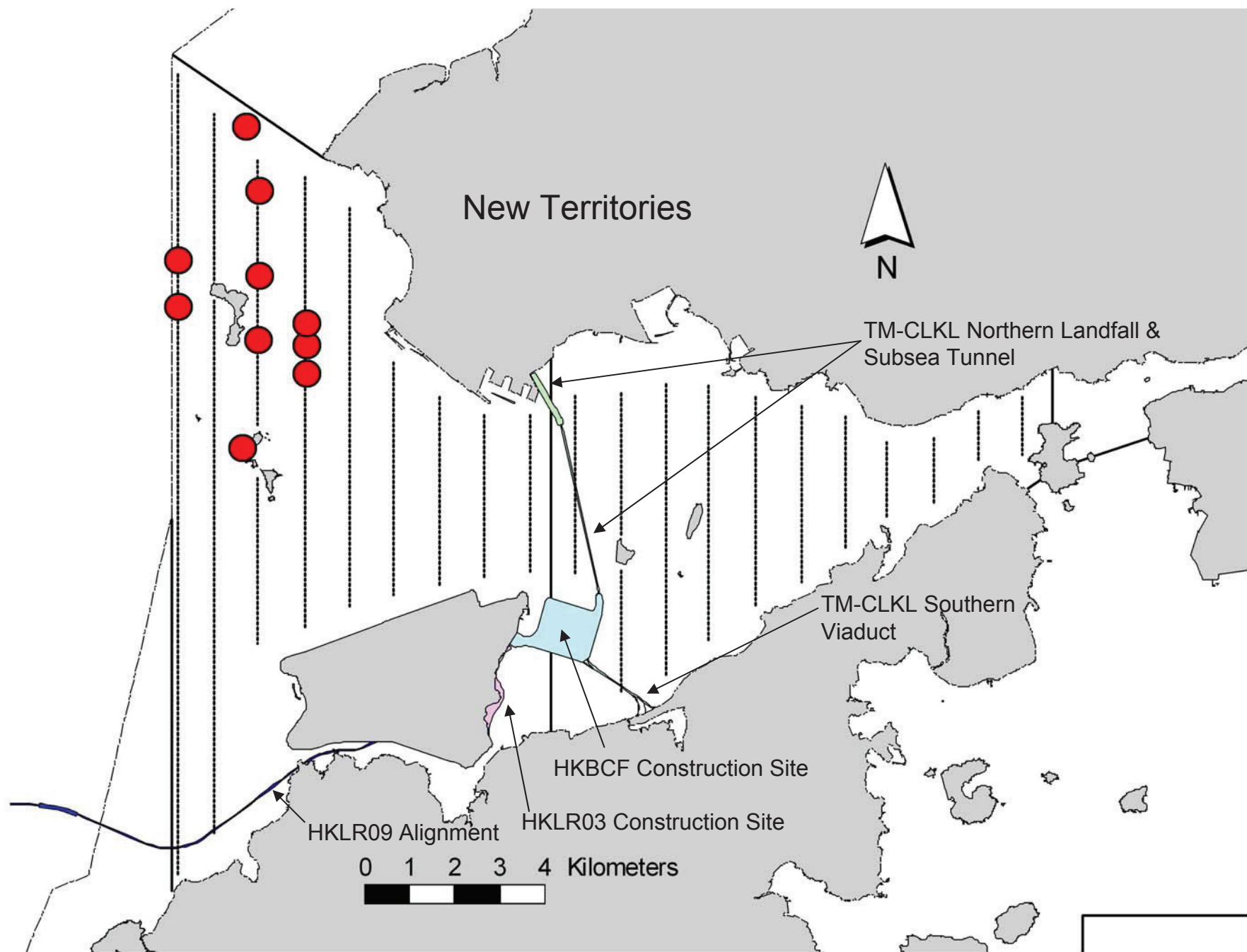


Figure 6. Distribution of Chinese White Dolphin Sightings During October 2014 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (October 2014)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
7-Oct-14	NE LANTAU	2	11.15	AUTUMN	STANDARD 31516	HKLR	P
7-Oct-14	NE LANTAU	3	6.75	AUTUMN	STANDARD 31516	HKLR	P
7-Oct-14	NE LANTAU	2	8.44	AUTUMN	STANDARD 31516	HKLR	S
7-Oct-14	NE LANTAU	3	1.46	AUTUMN	STANDARD 31516	HKLR	S
7-Oct-14	NW LANTAU	1	1.90	AUTUMN	STANDARD 31516	HKLR	P
7-Oct-14	NW LANTAU	2	25.80	AUTUMN	STANDARD 31516	HKLR	P
7-Oct-14	NW LANTAU	3	11.94	AUTUMN	STANDARD 31516	HKLR	P
7-Oct-14	NW LANTAU	2	9.13	AUTUMN	STANDARD 31516	HKLR	S
7-Oct-14	NW LANTAU	3	3.26	AUTUMN	STANDARD 31516	HKLR	S
13-Oct-14	NE LANTAU	2	10.59	AUTUMN	STANDARD 31516	HKLR	P
13-Oct-14	NE LANTAU	3	8.72	AUTUMN	STANDARD 31516	HKLR	P
13-Oct-14	NE LANTAU	2	7.91	AUTUMN	STANDARD 31516	HKLR	S
13-Oct-14	NE LANTAU	3	2.38	AUTUMN	STANDARD 31516	HKLR	S
13-Oct-14	NW LANTAU	2	4.96	AUTUMN	STANDARD 31516	HKLR	P
13-Oct-14	NW LANTAU	3	16.34	AUTUMN	STANDARD 31516	HKLR	P
13-Oct-14	NW LANTAU	4	4.95	AUTUMN	STANDARD 31516	HKLR	P
13-Oct-14	NW LANTAU	2	3.81	AUTUMN	STANDARD 31516	HKLR	S
13-Oct-14	NW LANTAU	3	7.23	AUTUMN	STANDARD 31516	HKLR	S
13-Oct-14	NW LANTAU	4	1.20	AUTUMN	STANDARD 31516	HKLR	S
16-Oct-14	NE LANTAU	2	12.51	AUTUMN	STANDARD 31516	HKLR	P
16-Oct-14	NE LANTAU	3	6.72	AUTUMN	STANDARD 31516	HKLR	P
16-Oct-14	NE LANTAU	2	8.04	AUTUMN	STANDARD 31516	HKLR	S
16-Oct-14	NE LANTAU	3	2.53	AUTUMN	STANDARD 31516	HKLR	S
16-Oct-14	NW LANTAU	2	3.81	AUTUMN	STANDARD 31516	HKLR	P
16-Oct-14	NW LANTAU	3	21.23	AUTUMN	STANDARD 31516	HKLR	P
16-Oct-14	NW LANTAU	4	6.50	AUTUMN	STANDARD 31516	HKLR	P
16-Oct-14	NW LANTAU	2	4.30	AUTUMN	STANDARD 31516	HKLR	S
16-Oct-14	NW LANTAU	3	3.56	AUTUMN	STANDARD 31516	HKLR	S
23-Oct-14	NE LANTAU	2	15.42	AUTUMN	STANDARD 31516	HKLR	P
23-Oct-14	NE LANTAU	3	1.90	AUTUMN	STANDARD 31516	HKLR	P
23-Oct-14	NE LANTAU	2	9.28	AUTUMN	STANDARD 31516	HKLR	S
23-Oct-14	NE LANTAU	3	0.70	AUTUMN	STANDARD 31516	HKLR	S
23-Oct-14	NW LANTAU	2	30.11	AUTUMN	STANDARD 31516	HKLR	P
23-Oct-14	NW LANTAU	3	10.91	AUTUMN	STANDARD 31516	HKLR	P
23-Oct-14	NW LANTAU	1	1.60	AUTUMN	STANDARD 31516	HKLR	S
23-Oct-14	NW LANTAU	2	9.19	AUTUMN	STANDARD 31516	HKLR	S
23-Oct-14	NW LANTAU	3	1.99	AUTUMN	STANDARD 31516	HKLR	S

Appendix II. HKLR03 Chinese White Dolphin Sighting Database (October 2014)

(Abbreviations: 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 Line\$)

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
7-Oct-14	1	1403	3	NW LANTAU	2	284	ON	HKLR	823528	806089	AUTUMN	NONE	S
7-Oct-14	2	1423	4	NW LANTAU	2	130	ON	HKLR	825820	806454	AUTUMN	NONE	P
7-Oct-14	3	1445	4	NW LANTAU	2	75	ON	HKLR	827149	806457	AUTUMN	NONE	P
7-Oct-14	4	1515	6	NW LANTAU	2	125	ON	HKLR	828943	806471	AUTUMN	NONE	P
7-Oct-14	5	1556	1	NW LANTAU	2	300	ON	HKLR	827474	804666	AUTUMN	NONE	P
7-Oct-14	6	1603	2	NW LANTAU	2	707	ON	HKLR	826499	804664	AUTUMN	NONE	P
13-Oct-14	1	1207	4	NW LANTAU	3	116	ON	HKLR	825098	807514	AUTUMN	NONE	P
13-Oct-14	2	1220	2	NW LANTAU	3	252	ON	HKLR	825707	807525	AUTUMN	NONE	P
13-Oct-14	3	1232	3	NW LANTAU	3	335	ON	HKLR	826161	807516	AUTUMN	NONE	P
13-Oct-14	4	1258	1	NW LANTAU	2	311	ON	HKLR	830272	806185	AUTUMN	NONE	S

Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in October 2014

ID#	DATE	STG#	AREA
CH34	13/10/14	4	NW LANTAU
NL48	13/10/14	1	NW LANTAU
NL136	07/10/14	1	NW LANTAU
	13/10/14	1	NW LANTAU
NL182	07/10/14	1	NW LANTAU
	13/10/14	2	NW LANTAU
NL213	13/10/14	1	NW LANTAU
NL214	07/10/14	3	NW LANTAU
	13/10/14	2	NW LANTAU
NL233	07/10/14	2	NW LANTAU
NL256	07/10/14	3	NW LANTAU
NL259	13/10/14	1	NW LANTAU
NL278	07/10/14	2	NW LANTAU
NL295	07/10/14	1	NW LANTAU
NL300	07/10/14	5	NW LANTAU



Appendix IV. Photographs of Identified Individual Dolphins in October 2014 (HKLR03)



Appendix IV. (cont'd)

Appendix L

Event Action Plan

Appendix L1 Event/ Action Plan for Air Quality

EVENT	ET ⁽¹⁾	ACTION		
		IEC ⁽¹⁾	SOR ⁽¹⁾	Contractor
Action Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify the source. 2. Inform the IEC and the SOR. 3. Repeat measurement to confirm finding. 4. Increase monitoring frequency to daily. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET. 2. Check Contractor's working method. 	<ol style="list-style-type: none"> 1. Notify Contractor. 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice 2. Amend working methods if appropriate
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Submit proposals for remedial actions to IEC within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate

EVENT	ET ⁽¹⁾	ACTION		
		IEC ⁽¹⁾	SOR ⁽¹⁾	Contractor
Limit Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC 2. Implement noise mitigation proposals 	
Limit Level	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> Repeat in situ measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor and SOR; Check monitoring data, all plant, equipment and Contractor's working methods. 	<ol style="list-style-type: none"> Check monitoring data submitted by ET and Contractor's working methods. 	<ol style="list-style-type: none"> Confirm receipt of notification of non-compliance in writing; Notify Contractor. 	<ol style="list-style-type: none"> Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, SOR and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SOR and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Action level; 	<ol style="list-style-type: none"> Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly; Supervise the implementation of mitigation measures. 	<ol style="list-style-type: none"> Discuss with IEC on the proposed mitigation measures; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Inform the Supervising Officer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of additional mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR; Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> Repeat measurement on next day of exceedance to confirm findings; 	<ol style="list-style-type: none"> Check monitoring data submitted by ET and Contractor's working method; 	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing; 	<ol style="list-style-type: none"> Inform the SOR and confirm notification of the non-compliance in writing;

Event	ET Leader	IEC	SOR	Contractor
	2. Identify source(s) of impact;		2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;	2. Rectify unacceptable practice;
	3. Inform IEC, contractor, SOR and EPD;	2. Discuss with ET and Contractor on possible remedial actions;		3. Check all plant and equipment and consider changes of working methods;
	4. Check monitoring data, all plant, equipment and Contractor's working methods;	3. Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly.	3. Request Contractor to review the working methods.	4. Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR.
	5. Discuss mitigation measures with IEC, SOR and Contractor;			
Limit level being exceeded by two or more consecutive sampling days	1. Repeat measurement on next day of exceedance to confirm findings;	1. Check monitoring data submitted by ET and Contractor's working method;	1. Discuss with IEC, ET and Contractor on the proposed mitigation measures;	1. Take immediate action to avoid further exceedance;
	2. Identify source(s) of impact;	2. Discuss with ET and Contractor on possible remedial actions;	2. Request Contractor to critically review the working methods;	2. Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR;
	3. Inform IEC, contractor, SOR and EPD;	3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the SOR accordingly;	3. Make agreement on the mitigation measures to be implemented;	3. Implement the agreed mitigation measures;
	4. Check monitoring data, all plant, equipment and Contractor's working methods;	4. Supervise the implementation of mitigation measures.	4.	4. Resubmit proposals of mitigation measures if problem still not under control;
	5. Discuss mitigation measures with IEC, SOR and Contractor;		5. Ensure mitigation measures are properly implemented;	
	6. Ensure mitigation measures are implemented;		6.	
	7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days;		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.	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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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
<p><u>Action Level</u></p> <p>With the numerical values presented in <i>Table 5.7 of Baseline Monitoring Report</i>, 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 <i>Table 5.8 of Baseline Monitoring Report</i>), 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</p>	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring with the ET and the Contractor; 	<ol style="list-style-type: none"> 1. Discuss with the IEC the repeat monitoring and any other measures proposed by the ET; 2. Make agreement on measures to be implemented. 	<ol style="list-style-type: none"> 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
<p><u>Limit Level</u></p> <p>With the numerical values presented in Table 5.7 of <i>Baseline Monitoring Report</i>, 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 <i>Baseline Monitoring Report</i>), 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</p>	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Discuss with the IEC the repeat monitoring and any other measures proposed by the ET; 2. Make agreement on measures to be implemented. 	<ol style="list-style-type: none"> 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 2014 (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	Chemical Waste	General Refuse	Metals	Felled trees	Paper/ cardboard packaging	Plastics
	sub-total	sub-total	sub-total	sub-total	sub-total	sub-total								7kg/bag	5kg/number
Location															
Density (ton/m³)															
ID no.										(web record)					
Unit	('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	0.033	0.011	0.003	-	0.030	-	-	-	-	22.380	-	10.240	-	-	-
Feb	4.716	0.010	0.031	-	0.010	4.674	-	-	-	10.670	-	0.780	-	-	-
Mar	2.559	0.009	0.240	-	0.221	2.098	-	-	0.275	12.390	-	46.050	-	-	-
Apr	1.051	0.000	0.020	-	0.118	0.914	-	-	-	87.650	-	15.760	-	-	-
May	2.008	-	0.010	-	1.546	0.451	0.386	0.267	0.055	98.030	-	8.460	0.126	-	-
Jun	5.318	0.025	0.030	2.473	0.357	2.457	0.338	-	-	77.290	-	25.340	0.140	-	-
SUB-TOTAL	15.685	0.055	0.334	2.473	2.283	10.595	0.724	0.267	0.055	0.275	308.410	-	106.630	0.266	-
Jul	6.303	0.129	0.020	-	4.654	1.629	0.847	0.252	0.051	87.810	-	27.370	0.126	-	-
Aug	4.824	0.003	0.265	1.829	2.441	0.288	0.391	0.131	0.033	98.220	-	21.680	0.126	0.475	-
Sep	8.037	0.213	0.175	-	7.722	0.140	0.400	0.073	0.060	238.01	-	34.190	0.161	-	-
Oct	14.912	0.075	0.943	-	13.860	0.109	0.441	0.118	0.104	268.18	-	-	0.105	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	49.761	0.475	1.736	4.303	30.961	12.761	2.803	0.841	0.303	0.275	1,000.630	-	189.870	0.784	0.475

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	1
	Limit	0	0
Impact Dolphin Monitoring	Action	0	5
	Limit	0	0

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 2014)	0	0	0
Total No. received since project commencement	2	0	0