

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

Tenth Monthly EM&A Report

11 September 2014

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Contract No. HY/2012/07





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Tenth Monthly EM&A Report

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Summary: This document presents the Tenth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.		Date: 11 September 2014			
		Approved by: 			
		Mr Craig Reid Partner			
		Certified by: 			
		Mr Jovy Tam ET Leader			
	Tenth Monthly EM&A Report	VAR	JT	CAR	11/09/14
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.: HYDZHMBEEM00_0_2225L.14

12 September 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 August 2014 (EP-354/2009/B)**

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (for August 2014) certified by the ET Leader (ET's ref.: "0215660_10th Monthly EM&A_20140910.doc" dated 11 September 2014) and provided to us via email on 11 September 2014.

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

	<i>EXECUTIVE SUMMARY</i>	<i>I</i>
<i>1</i>	<i>INTRODUCTION</i>	<i>1</i>
<i>1.1</i>	<i>BACKGROUND</i>	<i>1</i>
<i>1.2</i>	<i>SCOPE OF REPORT</i>	<i>2</i>
<i>1.3</i>	<i>ORGANIZATION STRUCTURE</i>	<i>2</i>
<i>1.4</i>	<i>SUMMARY OF CONSTRUCTION WORKS</i>	<i>2</i>
<i>2</i>	<i>EM&A RESULTS</i>	<i>4</i>
<i>2.1</i>	<i>AIR QUALITY</i>	<i>4</i>
<i>2.2</i>	<i>NOISE MONITORING</i>	<i>5</i>
<i>2.3</i>	<i>WATER QUALITY MONITORING</i>	<i>7</i>
<i>2.4</i>	<i>DOLPHIN MONITORING</i>	<i>9</i>
<i>2.5</i>	<i>CORAL MONITORING</i>	<i>13</i>
<i>2.6</i>	<i>EM&A SITE INSPECTION</i>	<i>13</i>
<i>2.7</i>	<i>WASTE MANAGEMENT STATUS</i>	<i>15</i>
<i>2.8</i>	<i>ENVIRONMENTAL LICENSES AND PERMITS</i>	<i>15</i>
<i>2.9</i>	<i>IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES</i>	<i>18</i>
<i>2.10</i>	<i>SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT</i>	<i>18</i>
<i>2.11</i>	<i>SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS</i>	<i>18</i>
<i>3</i>	<i>FUTURE KEY ISSUES</i>	<i>19</i>
<i>3.1</i>	<i>CONSTRUCTION PROGRAMME FOR THE COMING MONTHS</i>	<i>19</i>
<i>3.2</i>	<i>KEY ISSUES FOR THE COMING MONTH</i>	<i>19</i>
<i>3.3</i>	<i>MONITORING SCHEDULE FOR THE COMING MONTH</i>	<i>19</i>
<i>4</i>	<i>CONCLUSIONS AND RECOMMENDATIONS</i>	<i>20</i>
<i>4.1</i>	<i>CONCLUSIONS</i>	<i>20</i>

List of Tables

Table 1.1	Contact Information of Key Personnel
Table 2.1	Locations of Impact Air Quality Monitoring Stations
Table 2.2	Air Quality Monitoring Equipment
Table 2.3	Summary of 1-hour TSP Monitoring Results in the Reporting Period
Table 2.4	Summary of 24-hour TSP Monitoring Results in the Reporting Period
Table 2.5	Location of Impact Noise Monitoring Station
Table 2.6	Noise Monitoring Equipment
Table 2.7	Summary of Construction Noise Monitoring Results in the Reporting Period
Table 2.8	Locations of Impact Water Quality Monitoring Stations and its Corresponding Monitoring Requirements
Table 2.9	Water Quality Monitoring Equipment
Table 2.10	Dolphin Monitoring Equipment
Table 2.11	Impact Dolphin Monitoring Line Transect Co-ordinates
Table 2.12	Individual Survey Event Encounter Rates
Table 2.13	Monthly Average Encounter Rates
Table 2.14	Specific Observations Identified during the Weekly Site Inspections in this Reporting Month
Table 2.15	Quantities of Different Waste Generated in the Reporting Period
Table 2.16	Summary of Environmental Licensing and Permit Status

List of Figures

Figure 1.1	General Project Layout Plan of the Project
Figure 1.2	General Layout Plan of Contract No. HY/2012/07 - Viaducts A, B, C, D, E & F
Figure 1.3	Locations of Construction Activities in the Reporting Month
Figure 1.4	Environmental Sensitive Receivers in the Vicinity of Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Figure 2.1	Locations of Impact Air Quality Monitoring Stations
Figure 2.2	Locations of Impact Noise Monitoring Station
Figure 2.3	Locations of Impact Water Quality Stations
Figure 2.4	Line Transects for Impact Dolphin Monitoring Survey
Figure 2.5	Locations of Dolphin Sightings during Impact Dolphin Monitoring Survey
Figure 2.6	Environmental Complaint Handling Procedure

List of Appendices

- Appendix A Project Organization for Environmental Works
- Appendix B Three Month Rolling Construction Programmes
- Appendix C Implementation Schedule of Environmental Mitigation Measures (EMIS)
- Appendix D Summary of Action and Limit Levels
- Appendix E Calibration Certificates of Monitoring Equipment
- Appendix F EM&A Monitoring Schedules
- Appendix G Impact Air Quality Monitoring Results and Graphical Presentation
- Appendix H Meteorological Data for the Reporting Month
- Appendix I Impact Noise Monitoring Results and Graphical Presentation
- Appendix J Impact Water Quality Monitoring Results and Graphical Presentation
- Appendix K Impact Dolphin Monitoring Survey Results
- Appendix L Event Action Plan
- Appendix M Monthly Summary of Waste Flow Table
- Appendix N Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

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 Tenth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 August 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:

Marine-based Works

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

Land-based Works

- Construction of pile cap superstructure of Viaduct B;
- Fence installation and relocation of Area 2, Viaducts A, B, C & D;
- Land Piling at Viaduct B;
- Piling platform installation for Viaducts B, C, D and E;
- Additional land GI, trial pits & lab testing;
- Utility surveys; and
- Slope work of Slope 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

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

24-hour TSP monitoring	5 sessions
1-hour TSP monitoring	5 sessions
Noise monitoring	5 sessions
Impact Water Quality Monitoring	13 sessions
Impact Dolphin Monitoring	2 sessions
Joint Environmental site inspection	4 sessions

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Levels was recorded for construction air 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

Whilst two (2) Action Level exceedances and no Limit Level exceedance were observed for the quarterly dolphin monitoring data between June and August 2014, 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. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) was recorded in August 2014 during the exclusion zone monitoring.

Coral Monitoring

No Post-Translocation Coral Monitoring was conducted in the reporting month.

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 September 2014 include the following:

Marine Works

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

Land-based Works

- Construction of pile cap superstructure of Viaduct B;
- Fence installation and relocation of Works Area 2, Viaducts A, B, C & D;
- Land Piling at Viaduct B and Viaduct C;
- Piling platform installation for Viaducts B, C, D and E;
- Additional land GI, trial pits & lab testing;
- Utility surveys; and
- Slope work of Slope 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 September 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 & 1.2*.

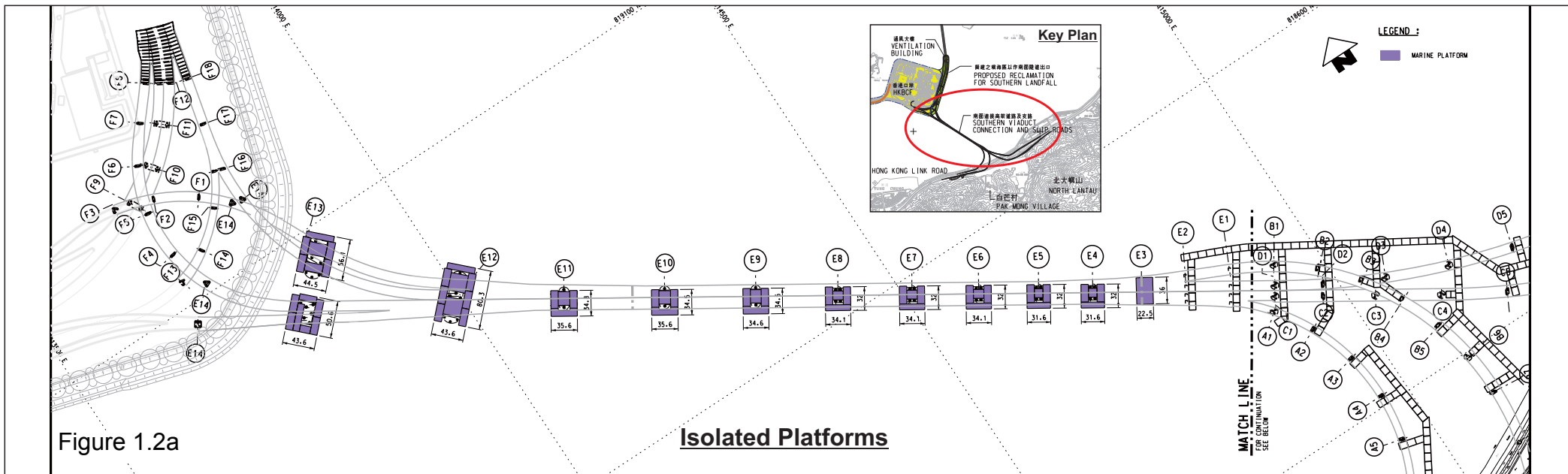


Figure 1.2a

Isolated Platforms

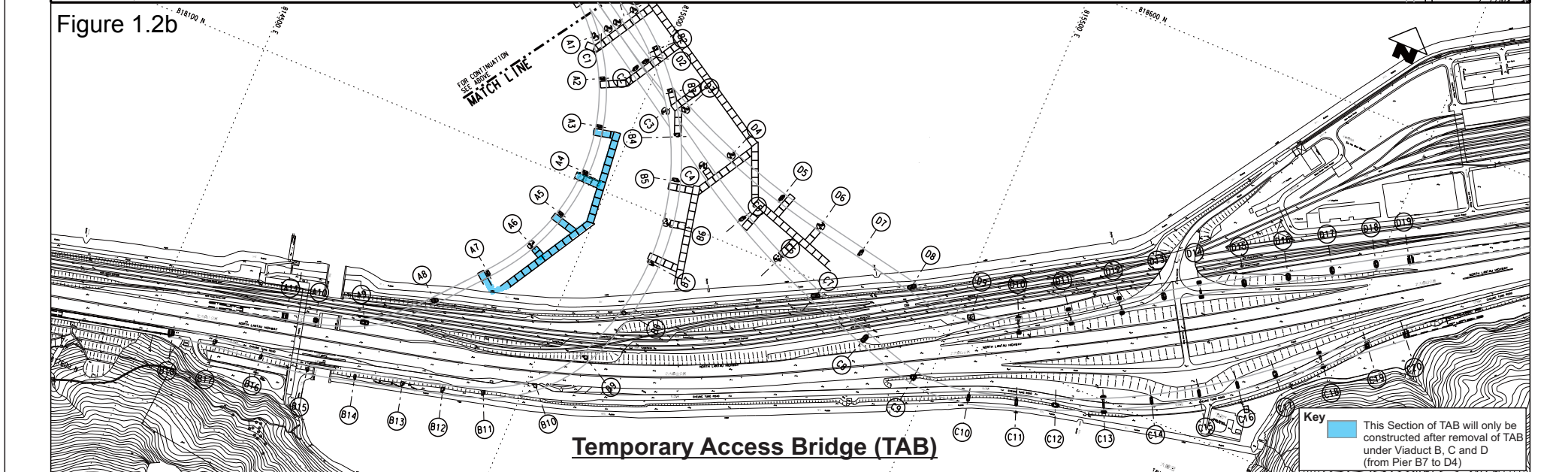


Figure 1.2b

Temporary Access Bridge (TAB)

Figure 1.2

General Layout Plan of Contract No. HY/2012/07 -
Viaducts A, B, C, D, E & F

1.2 SCOPE OF REPORT

This is the Tenth 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 August 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;
- Marine Piling at Viaducts B, D & E;
- Construction of rockfill platform at Viaduct D landing; and,
- Additional marine ground investigation (GI) and laboratory testing.

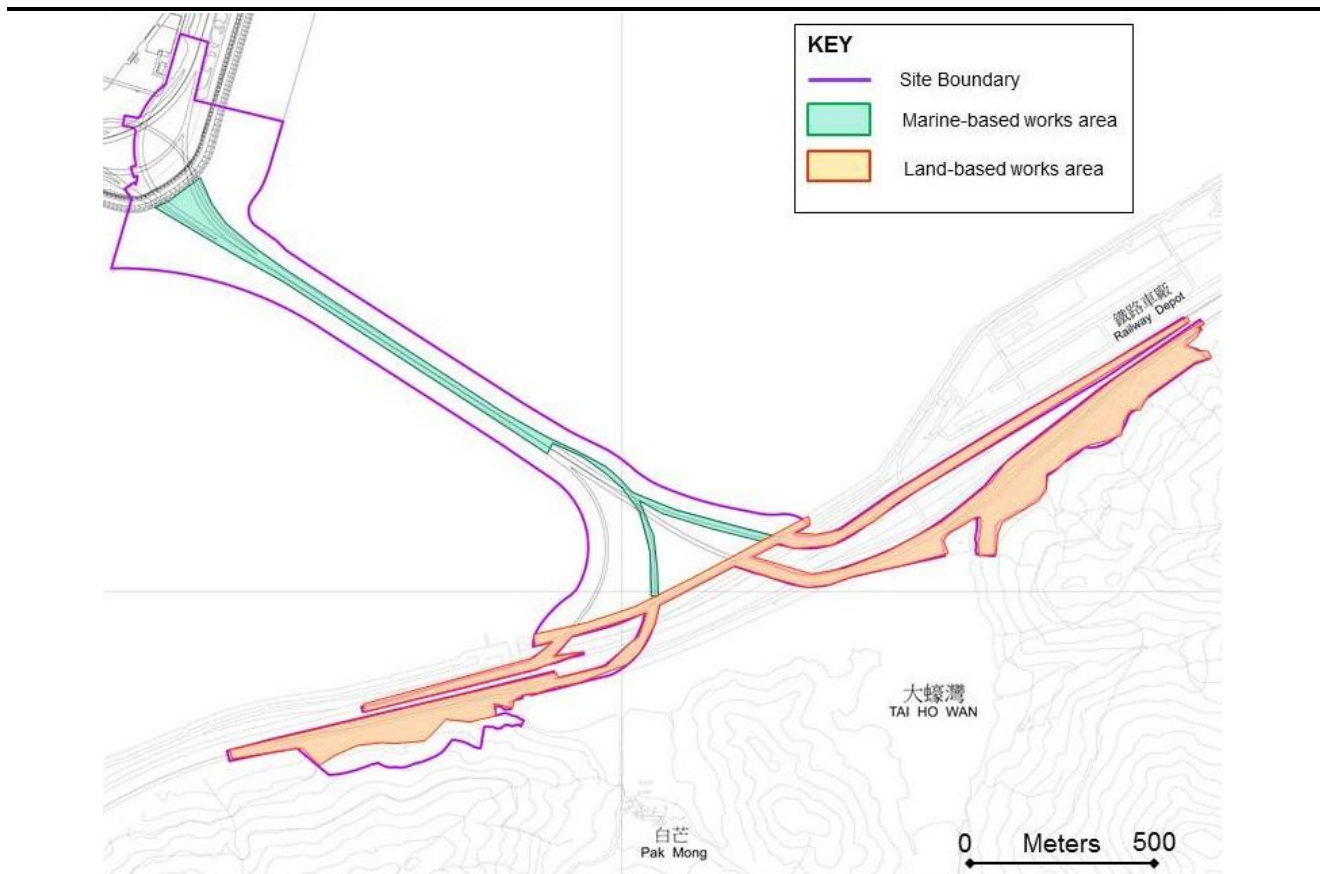
Land-based Works

- Construction of pile cap superstructure of Viaduct B;
- Fence installation and relocation of Area 2, Viaducts A, B, C & D;
- Land Piling at Viaduct B;
- Piling platform installation for Viaducts B, C, D and E;
- Additional land GI, trial pits & lab testing;
- Utility surveys; and
- Slope work of Slope 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

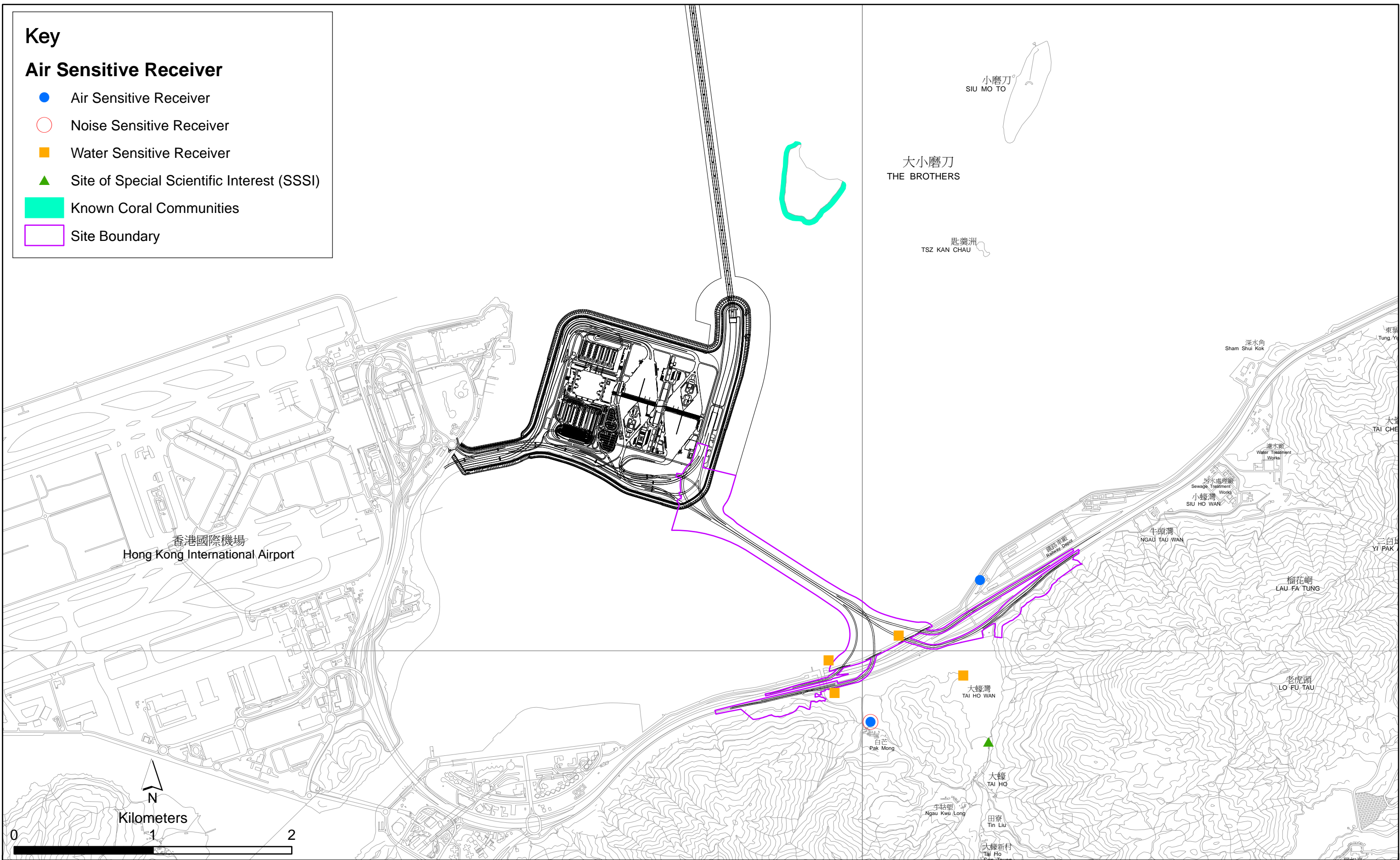


Figure 1.4

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

File: T:\GIS\CONTRACT\0215660\Mxd\0215660_Environmental_Sensitive_Receiver.mxd
Date: 7/8/2014

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	4, 8, 14, 20 and 26 August 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 4, 8, 14, 20 and 26 August 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)

2.1.2 *Monitoring Schedule for the Reporting Month*

The schedule for air quality monitoring in August 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	69	43 - 113	394	500
ASR 8	67	43 - 116	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	41	40 - 43	178	260
ASR 8	43	41 - 45	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 4, 8, 14, 20 and 26 August 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

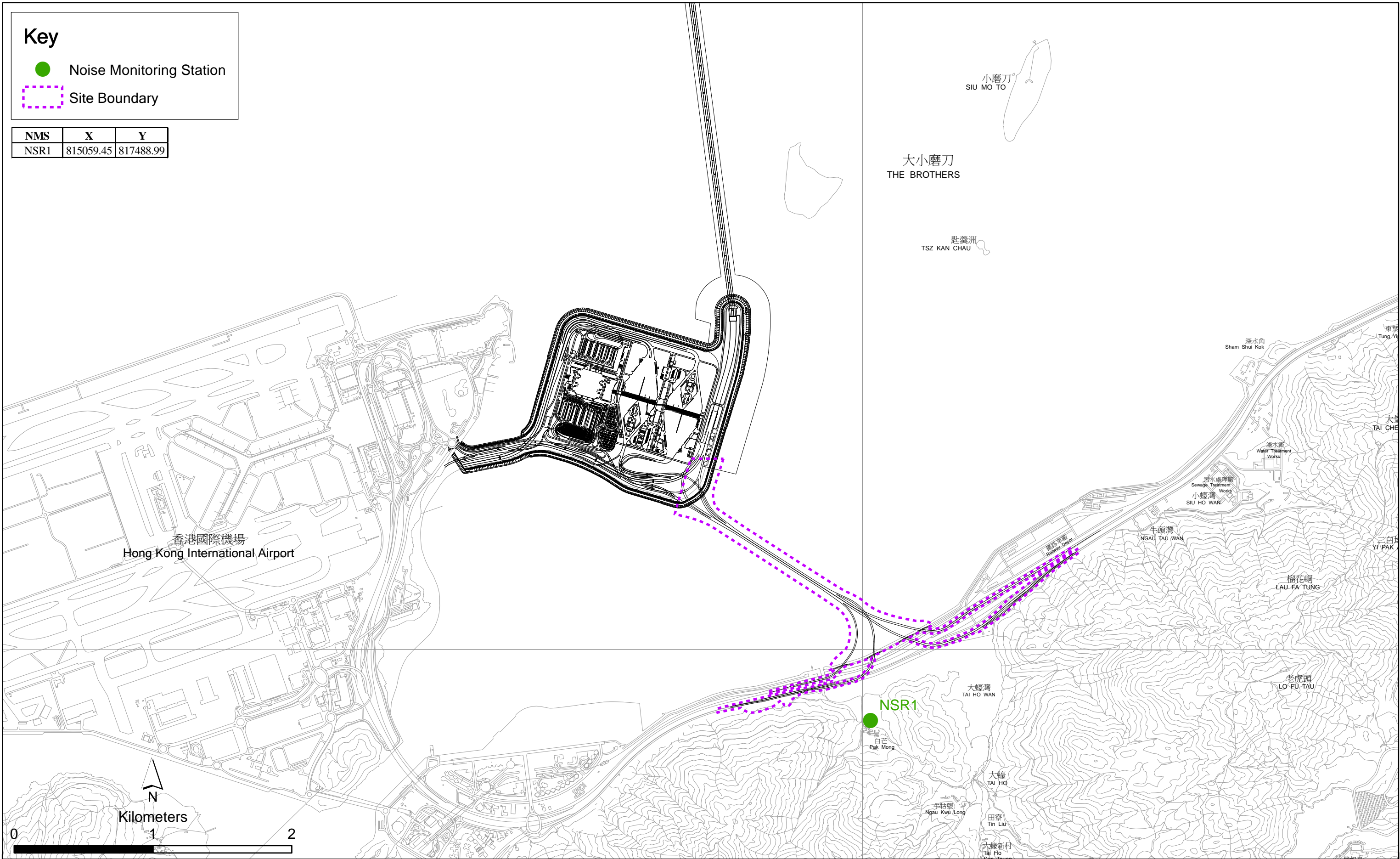


Figure 2.2

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	4, 8, 14, 20 and 26 August 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	56	54 - 57	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			

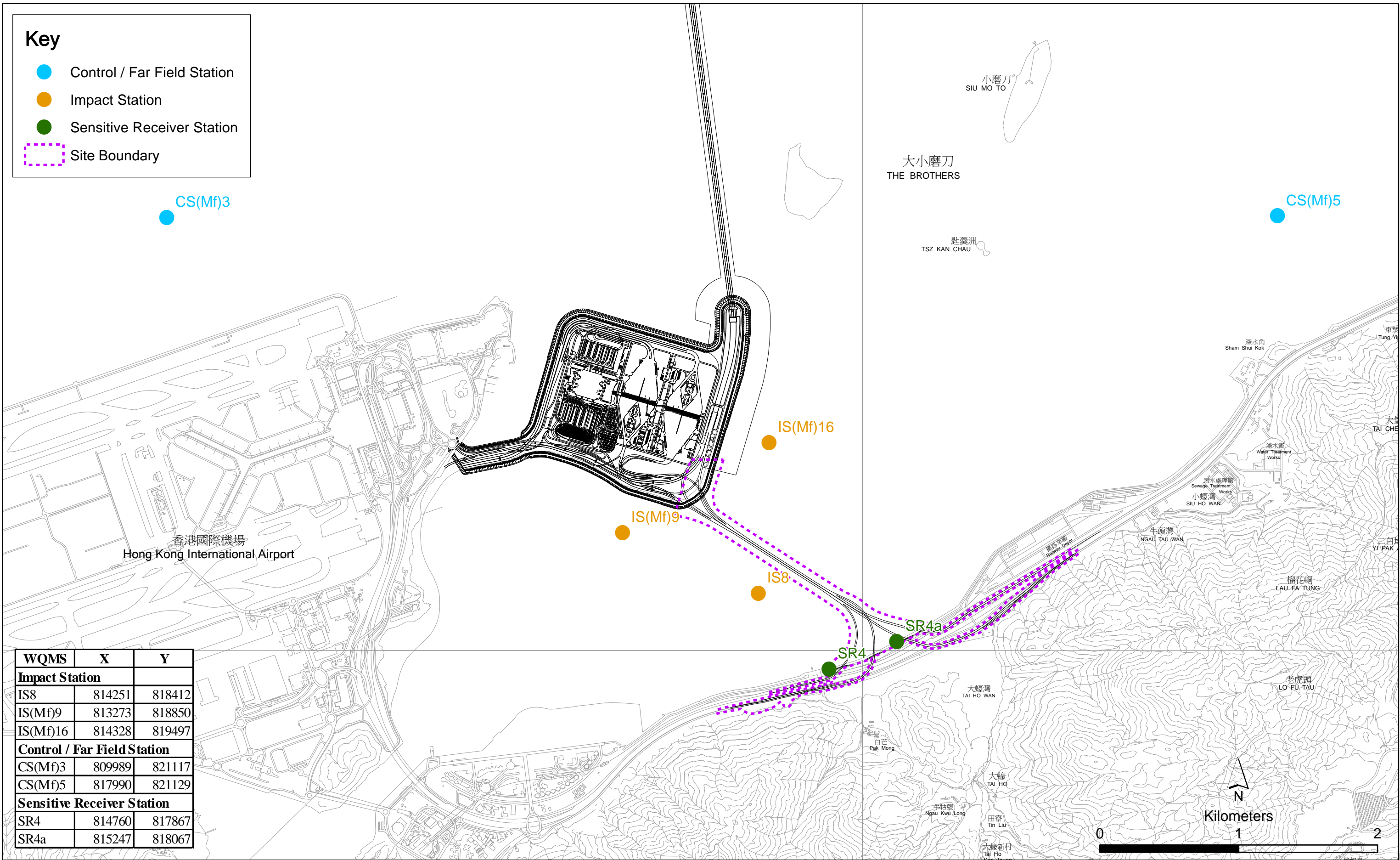
*Notes:

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 August 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 x 50 marine binocular with compass and reticules
Vessel for Monitoring	65 foot single engine motor vessel with viewing platform 4.5m above water level

2.4.3 Monitoring Parameter, Frequencies and Duration

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

2.4.4 Monitoring Location

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

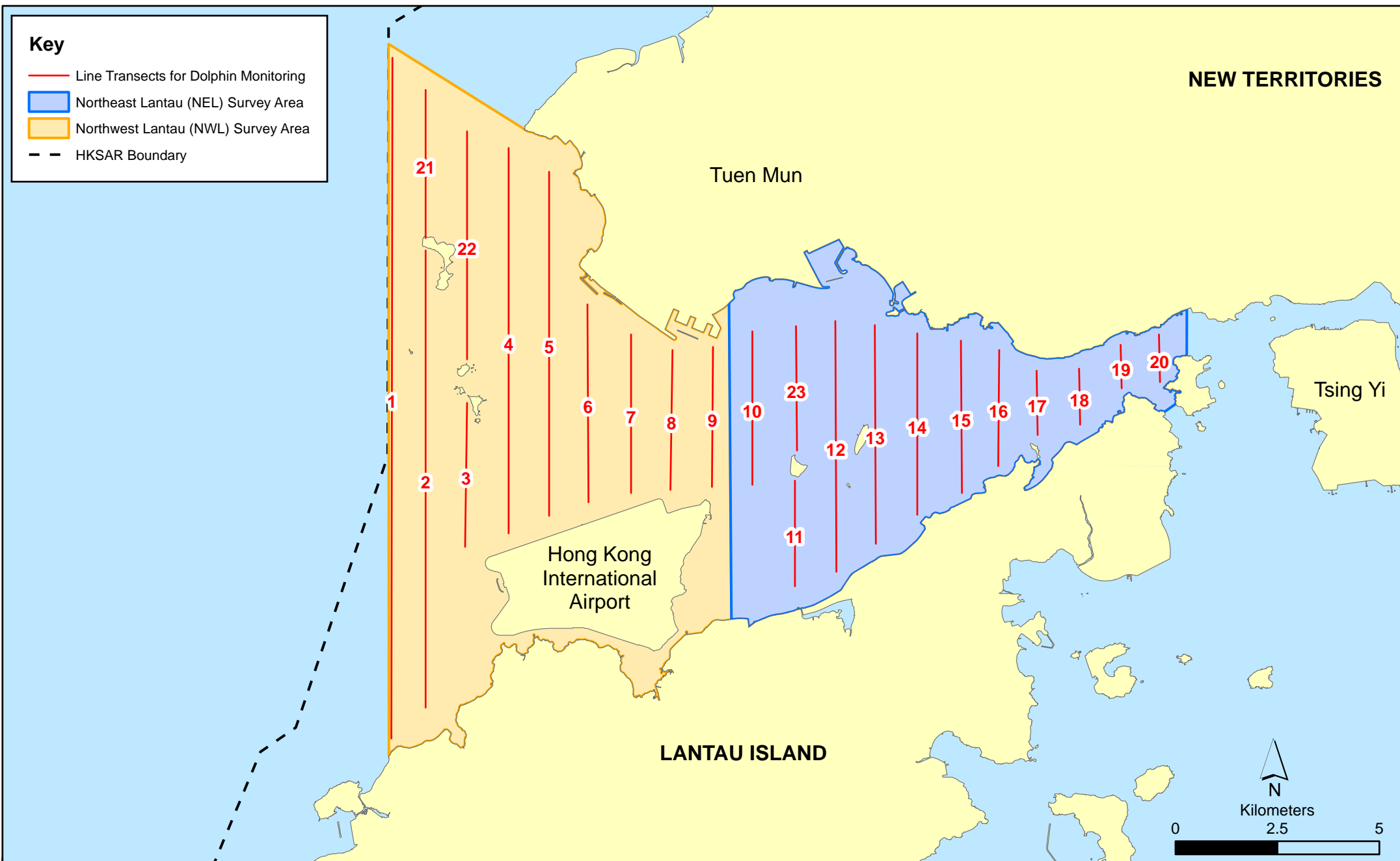


Figure 2.4

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

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 5, 6, 15 and 19 of August 2014 (*Appendix F*).

2.4.7 *Results and Observations*

A total of 297.42 km of survey effort was collected, with 94.1% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) during the surveys. Among the two areas, 115.50 km and 181.92 km of survey effort were collected from NEL and NWL survey areas respectively. The total survey effort conducted on primary and secondary lines were 213.22 km and 84.20 km respectively. The survey efforts are summarized in *Appendix K*.

A total of thirteen (13) groups of forty-eight (48) Chinese White Dolphins were sighted during the two sets of monitoring surveys in August 2014. All sightings were made in NWL during the two sets of surveys in August, while no dolphin was sighted at all in NEL. All except three (3) 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 August 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: Aug 5 th /6 th	0.0	0.0
	Set 2: Aug 15 th /19 th	0.0	0.0
NWL	Set 1: Aug 5 th /6 th	5.6	22.5
	Set 2: Aug 15 th /19 th	9.7	40.4

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

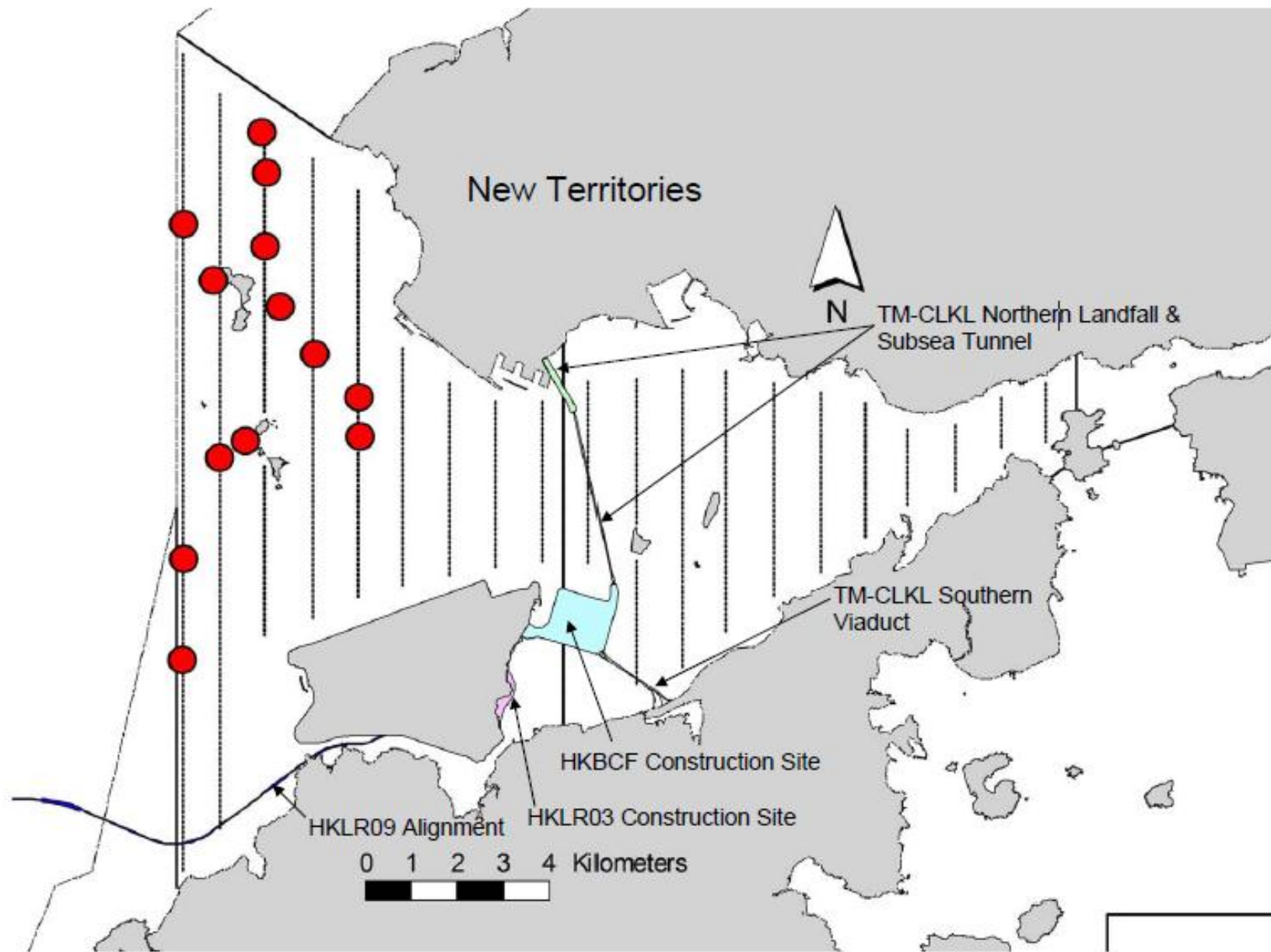


Figure 2.5

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 August 2014)

Date 04/09/2014

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	7.5	7.9	30.8	29.1

Note: Overall dolphin encounter rates (sightings per 100km of survey effort) from all four surveys are conducted in August 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 August 2014 was 3.69 individuals per group, which was similar to previous months of dolphin monitoring. Almost all dolphin groups were composed of one to five (1-5) animals, with only three (3) larger groups of six to eight (6-8) animals sighted near Lung Kwu Chau. Detailed results of dolphin monitoring in this reporting month are presented in *Appendix K*.

Whilst two (2) Action Level exceedances (one Action Level exceedance for Northeast Lantau cluster; one Action Level exceedance for Northwest Lantau social cluster) and no Limit Level exceedance were observed for the quarterly dolphin monitoring data between June and August 2014, 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.

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. No sighting of Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) were recorded in August 2014 during the exclusion zone monitoring.

2.5 *CORAL MONITORING*

No Post-Translocation Coral Monitoring Exercise was conducted in the reporting month.

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 6, 14, 21 and 27 August 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
6 August 2014	<p>Site Access 9A</p> <ul style="list-style-type: none"> Chemical containers were not placed in drip tray. A drip tray was found unplugged. <p>Slope next to NL1</p> <ul style="list-style-type: none"> Drainage was filled with trash. <p>Site Access 9B</p> <ul style="list-style-type: none"> Chemical containers were not placed in drip tray. <p>Slope BC8</p> <ul style="list-style-type: none"> Tarpaulin sheet for soil nail on unpaved slope was not cover properly. 	<p>Site Access 9A</p> <ul style="list-style-type: none"> Chemical Containers should be placed in drip tray. The contractor should provide stopper to the drip tray. <p>Slope next to NL1</p> <ul style="list-style-type: none"> The contractor was reminded to clean up the drainage regularly. <p>Site Access 9B</p> <ul style="list-style-type: none"> Chemical Containers should be placed in drip tray. <p>Slope BC8</p> <ul style="list-style-type: none"> Soil nail on unpaved slope should be well covered.
14 August 2014	<p>Pier B1</p> <ul style="list-style-type: none"> A drip tray was found unplugged. Stagnant water was found in a drip tray. <p>Pier A,C&D1</p> <ul style="list-style-type: none"> A drip tray of generator could not be covered well by screen. Stagnant water was found in a drip tray. A drip tray was found unplugged. <p>Pier E4</p> <ul style="list-style-type: none"> Muddy water was accumulated on the platform. A label of waste category label was missing. 	<p>Pier B1</p> <ul style="list-style-type: none"> The drip tray should be plugged. Stagnant water in drip tray should be cleared. <p>Pier A,C&D1</p> <ul style="list-style-type: none"> The screen was improved immediately and able to cover the drip tray of generator properly. Stagnant water in drip tray should be cleared. The drip tray should be plugged. <p>Pier E4</p> <ul style="list-style-type: none"> Muddy water should be cleared. Waste category label should be labelled properly.
21 August 2014	<p>Pier B1</p> <ul style="list-style-type: none"> Stagnant water was accumulated in a drip tray. <p>Pier E10</p> <ul style="list-style-type: none"> Chemical containers were not labelled properly. Soil and sand were accumulated on the platform <p>Slope BC9</p> <ul style="list-style-type: none"> Soil and mud was observed accumulating in drainage. 	<p>Pier B1</p> <ul style="list-style-type: none"> Stagnant water in a drip tray should be cleared. <p>Pier E10</p> <ul style="list-style-type: none"> Chemical containers should be labelled properly. Soil and sand on the platform were cleaned up immediately. <p>Slope BC9</p> <ul style="list-style-type: none"> Soil and mud in drainage should be cleared regularly.
27 August 2014	<p>Slope BC9</p> <ul style="list-style-type: none"> A chemical container was not placed in drip tray. An unpaved slope was not covered. Refuse was observed on the slope. A part of bund was missing at the path on slope. <p>Pier B15</p> <ul style="list-style-type: none"> A drip tray was found unplugged. 	<p>Slope BC9</p> <ul style="list-style-type: none"> The chemical container was removed intermediately. The unpaved slope should be covered by tarpaulin sheet. Refuse on the slope should be removed. The Contractor was reminded to implement precautionary measures for preventing soil and sand runoff from the slope. <p>Pier B15</p> <ul style="list-style-type: none"> The drip tray should be plugged.

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

2.7 WASTE MANAGEMENT STATUS

The Contractor had 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)
August 2014	6,580	288	1,412	98,220	22,281	0	0	164

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	Nil	Application in process	N/A	GCL	For Piling Works
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-RS0226-14	30 Mar 2014	29 Sep 2014	GCL	For loading & unloading on NLH near Viaduct D
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
Construction Noise Permit	GW-RW0123-14	27 Feb 2014	27 Aug 2014	GCL	For night works and works in general holiday at WA5
Dumping Permit/ Loading Permit (Type 1 – Open Sea Disposal)	(4) in EP/MD/14-075	25 Sep 2013	N/A	GCL	-

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
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	-
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
Marine Dumping Permit	EP/MD/15-065	1 Aug 2014	31 Aug 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.

Two Action Level exceedances and no Limit Level exceedances were recorded for the quarterly dolphin monitoring data between June 2014 and August 2014. The observed exceedances will be further investigated in the *Third Quarterly EM&A Report* for June 2014 to August 2014.

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*.

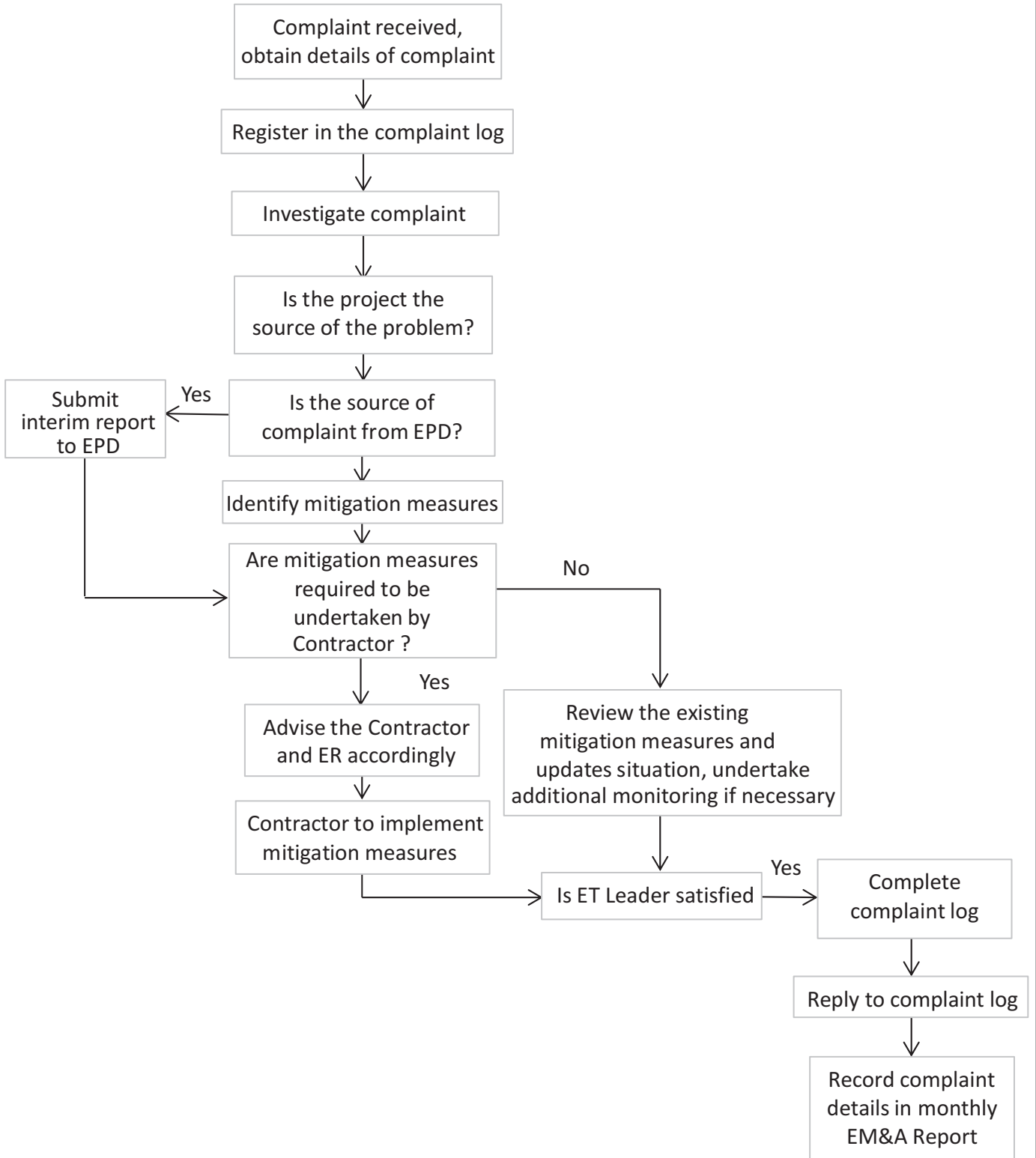


Figure 2.6

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 September 2014 will be:

Marine Works

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

Land-based Works

- Construction of pile cap superstructure of Viaduct B;
- Fence installation and relocation of Works Area 2, Viaducts A, B, C & D;
- Land Piling at Viaduct B and Viaduct C;
- Piling platform installation for Viaducts B, C, D and E;
- Additional land GI, trial pits & lab testing;
- Utility surveys; and
- Slope work of Slope 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 September 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 September 2014 is provided in *Appendix F*.

4.1 CONCLUSIONS

This Tenth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 August 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, 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 thirteen (13) groups of forty-eight (48) Chinese White Dolphins were sighted during the two sets of monitoring surveys in August 2014. All sightings were made in NWL during the two sets of surveys in August, while no dolphin was sighted at all in NEL. All except three (3) sightings were made on primary lines during on-effort search, and none of the dolphin groups was associated with operating fishing vessel. Whilst two Action Level exceedances and no Limit Level exceedances were observed for the quarterly dolphin monitoring data between June and August 2014, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations during the dolphin monitoring in this reporting month.

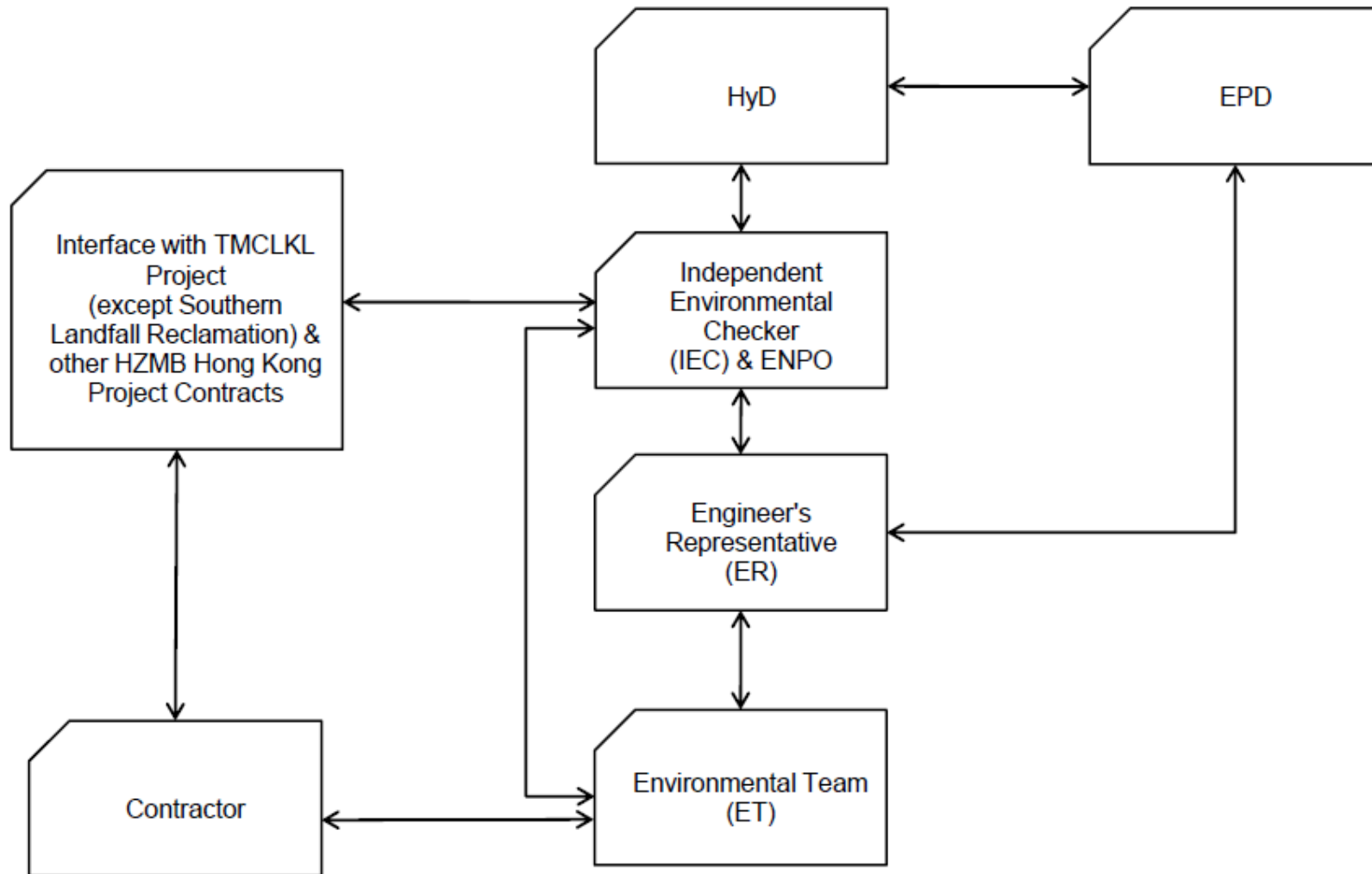
Environmental site inspection was carried out four (4) times in August 2014. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

No environmental complaint, notification of summons or prosecution were 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



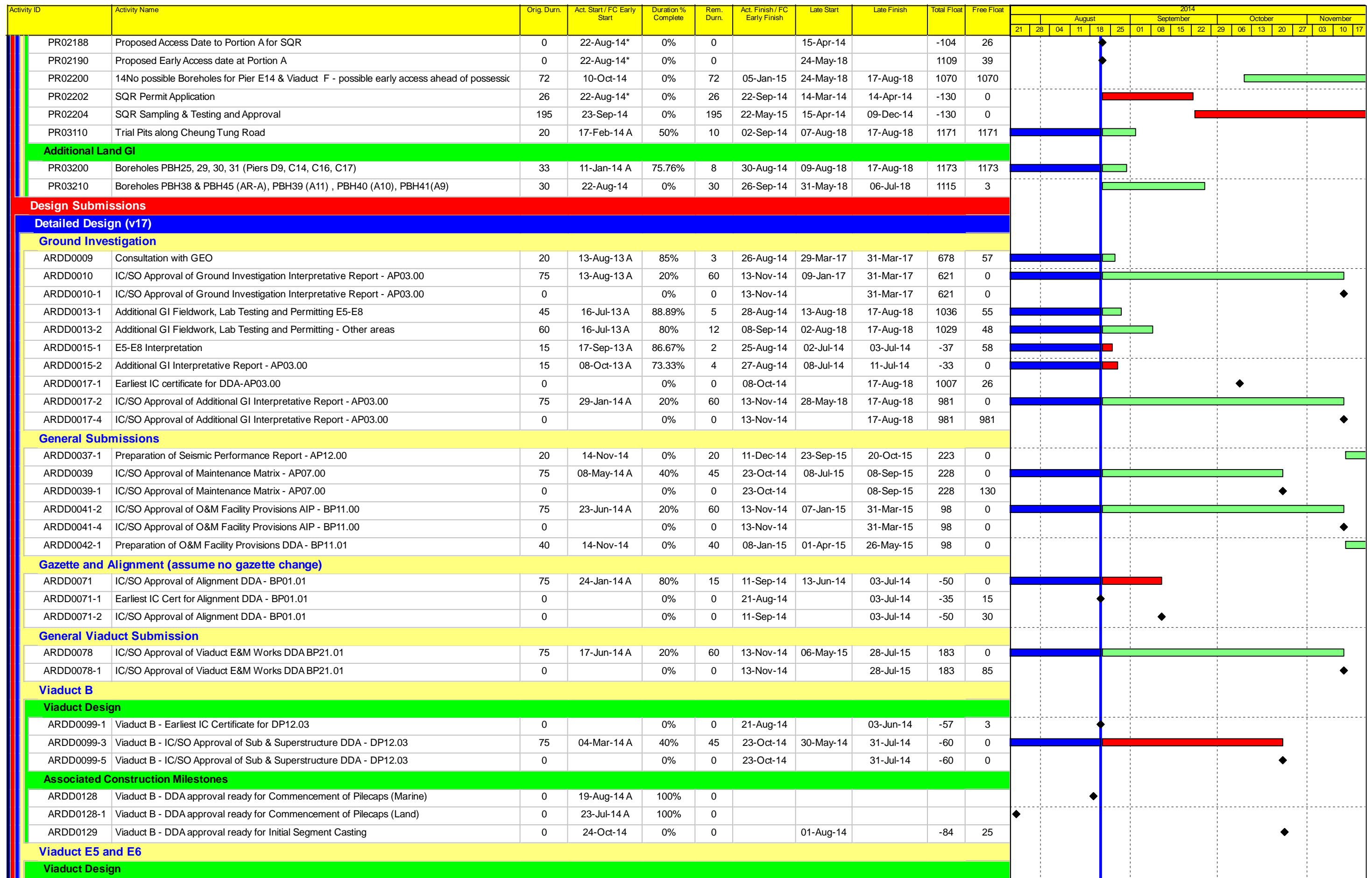
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Appendix B

Three-Month Rolling Construction Programme

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	2014																			
											August				September				October				November							
											21	28	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17		
HY/2012/07 - TM-CLK Link-SC [DWP rD1] - Status Update 21-08-2014																														
Contract Key Dates																														
Possession Dates / Access Period																														
POS02	Portion A (Commencement of Works+499 days)	0	03-Nov-14*	0%	0		03-Nov-14		0	0																				
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		0%	0	01-Sep-14*		02-Apr-17	944	381																				
MS2.008	Accept ground investigation reports by the Supervising Officer	0		0%	0	13-Nov-14		02-Apr-17	871	308																				
MS2.014	Approve AIP for Structure F1, exd Structure F1 between Pier F1c and Pier F1d, by the S.O.	0		0%	0	29-Sep-14		02-Apr-17	916	190																				
MS2.015	Submit DDA for Structure F1, excluding Structure F1 between Pier F1c and Pier F1d	0		0%	0	18-Nov-14		02-Apr-17	866	140																				
MS2.018	Approve AIP for Structure F1 between Pier F1c and Pier F1d by the Supervising Officer	0		0%	0	29-Sep-14		02-Apr-17	916	190																				
MS2.019	Submit DDA for Structure F1 between Pier F1c and Pier F1d	0		0%	0	18-Nov-14		02-Apr-17	866	140																				
MS2.030	Approve AIP for Structure F3 betw Pier F3c and Pier F3d by Supervising Officer	0		0%	0	29-Sep-14		02-Apr-17	916	190																				
MS2.031	Submit DDA for Structure F3 between Pier F3c and Pier F3d	0		0%	0	18-Nov-14		02-Apr-17	866	140																				
MS2.038	Approve AIP for Structure F5, exd Structure F5 betw Pier F5c & Pier F5d, by S.O.	0		0%	0	29-Sep-14		02-Apr-17	916	192																				
MS2.039	Submit DDA for Structure F5, excluding Structure F5 between Pier F5c and Pier F5d	0		0%	0	18-Nov-14		02-Apr-17	866	142																				
MS2.042	Approve AIP for Structure F5 betw Pier F5c and Pier F5d by the Supervising Officer	0		0%	0	29-Sep-14		02-Apr-17	916	192																				
MS2.043	Submit DDA for Structure F5 between Pier F5c and Pier F5d	0		0%	0	18-Nov-14		02-Apr-17	866	142																				
MS2.047	Submit DDA for Structure E1	0		100%	0	30-Jul-14 A																								
MS2.052	Approve DDA for Structure E2 by the Supervising Officer	0		0%	0	18-Nov-14		02-Apr-17	866	303																				
MS2.056	Approve DDA for Structure E5, exd Structure E5 betw Pier E5c & Pier E5d, by S.O.	0		0%	0	13-Nov-14		02-Apr-17	871	308																				
MS2.060	Approve DDA for Structure E5 betw Pier E5c & Pier E5d by Supervising Officer	0		0%	0	13-Nov-14		02-Apr-17	871	308																				
MS2.064	Approve DDA for Structure E6 by the Supervising Officer	0		0%	0	13-Nov-14		02-Apr-17	871	308																				
MS2.068	Approve DDA for Structure E7 by the Supervising Officer	0		0%	0	13-Nov-14		02-Apr-17	871	308																				
MS2.072	Approve DDA for Structure E8 by the Supervising Officer	0		0%	0	13-Nov-14		02-Apr-17	871	308																				
MS2.074	Approve AIP for Structure A by the Supervising Officer	0		0%	0	06-Nov-14		02-Apr-17	879	162																				
MS2.080	Approve DDA for Structure B by the Supervising Officer	0		0%	0	23-Oct-14		02-Apr-17	892	329																				
MS2.082	Approve AIP for Structure C by the Supervising Officer	0		100%	0	18-Aug-14 A																								
MS2.083	Submit DDA for Structure C	0		0%	0	29-Oct-14		02-Apr-17	886	105																				
MS2.087	Submit DDA for Structure D	0		0%	0	10-Sep-14		02-Apr-17	935	105																				
MS2.090	Approve AIP for At grade Roadworks and Other Works along NLH by the S.O.	0		0%	0	29-Sep-14		02-Apr-17	916	115																				
MS2.091	Submit DDA for At grade Roadworks and Other Works along NLH	0		0%	0	09-Oct-14		02-Apr-17	906	105																				
MS2.094	Approve AIP for At grade Roadworks & Other Works along Cheung Tung Road by S.O.	0		0%	0	29-Sep-14		02-Apr-17	916	115																				
MS2.095	Submit DDA for At grade Roadworks and Other Works along Cheung Tung Road	0		0%	0	09-Oct-14		02-Apr-17	906	105																				
MS2.097	Submit AIP for At grade Roadworks and Other Works at Southern Landfall	0		0%	0	21-Aug-14		02-Apr-17	955	39																				
MS2.098	Approve AIP for At grade Roadwrks & Other Wrks at Southern Landfall by S.O.	0		0%	0	29-Sep-14		02-Apr-17	916	45																				
MS2.099	Submit DDA for At grade Roadworks and Other Works at Southern Landfall	0		0%	0	21-Aug-14		02-Apr-17	955	84																				
MS2.100	Approve DDA for At grade Roadwrks & Other Wrks at Southern Landfall by S.O.	0		0%	0	13-Nov-14		02-Apr-17	871	308																				
MS2.102	Approve AIP for Watermains & All Assoc Wrks frm Tung Chung to South Landfall by S.O.	0		0%	0	29-Sep-14		02-Apr-17	916	45																				
MS2.103	Submit DDA for Watermains & All Assoc Wrks frm Tung Chung to South Landfall	0		100%	0	23-Jul-14 A																								
MS2.104	Approve DDA for Watermains & All Assoc Wrks frm Tung Chung to South Landfall by S.O.	0		0%	0	13-Nov-14		02-Apr-17	871	308																				
MS2.106	Approve AIP for Irrigation System for Soft Landscape Works by the Supervising Officer	0		100%	0	13-Aug-14 A																								
MS2.107	Submit DDA for Irrigation System for Soft Landscape Works	0		0%	0	08-Oct-14		02-Apr-17	907	105																				
MS2.108-3	Submit DDA for Fac Prov for TCSS Wrks for At grade Rds at Southern Landfall	0		0%	0	17-Sep-14		02-Apr-17	928	105																				
MS2.111	Submit DDA for Facilities Provision for TCSS Works for Viaducts	0		0%	0	17-Sep-14		02-Apr-17	928	105																				

<ul style="list-style-type: none"> Actual Work Planned Bar Critical Bar Milestone 	Project ID: J3518DWP rD1-M15 Layout: J3518-DWP-3MRP Submission - M15 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 34 Pages) (Progress as of 21-Aug-14)	<table border="1"> <thead> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> </thead> <tbody> <tr> <td>28-Jun-14</td> <td></td> <td>FZ</td> <td></td> </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> </tbody> </table>	Date	Revision	Checked	Approved	28-Jun-14		FZ		29-Jul-14		FZ		29-Aug-14		FZ		DWG. No.: J3518/GCL/PGM/3MRP-M15
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	Project ID: J3518DWPrD1-M15	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 5 of 34 Pages) (Progress as of 21-Aug-14)	Date	Revision	Checked	Approved	DWG. No.:	
	Layout: J3518-DWP-3MRP Submission - M15		28-Jun-14		FZ			J3518/GCL/PGM/3MRP-M15
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	29-Aug-14		FZ					

Activity ID	Activity Name	Orig. Dur.	Act. Start / FC Early Start	Duration % Complete	Rem. Dur.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	2014															
											August				September				October				November			
											21	28	04	11	18	25	01	08	15	22	29	06	13	20	27	03
ARDD0150-1	Viaduct E5 & E6 - Earliest IC certificate for DDA for Viaduct E5 & E6 - DP15.09	0		0%	0	21-Aug-14		22-May-14	-65	30	◆															
ARDD0150-3	Viaduct E5 & E6 - IC/SO Approval of Pile Cap Precast Shells DDA DP15.05	75	15-Apr-14 A	40%	45	23-Oct-14	02-May-14	03-Jul-14	-80	0	◆															
ARDD0150-4	Viaduct E5 & E6 - IC/SO Approval (late) of Sub & Superstructure DDA DP15.09	75	09-Jul-14 A	20%	60	13-Nov-14	11-Apr-14	03-Jul-14	-95	0	◆															
ARDD0150-6	Viaduct E5 & E6 - IC/SO Approval of Pile Cap Precast Shells DDA DP15.05	0		0%	0	23-Oct-14		03-Jul-14	-80	15	◆															
ARDD0150-8	Viaduct E5 & E6 - IC/SO Approval (late) of Sub & Superstructure DDA DP15.09	0		0%	0	13-Nov-14		03-Jul-14	-95	0	◆															
Associated Construction Milestones																										
ARDD0175	Viaduct E5 & E6 - DDA approval ready for Initial Segment Casting	0	14-Nov-14	0%	0		09-Sep-14		-66	42	◆															
Viaduct E7 & E8																										
Viaduct Design																										
ARDD0195-1	Viaduct E7 & E8 - Earliest IC certificate for Pilecap Precast Shells DDA - DP15.08	0		0%	0	21-Aug-14		06-May-14	-77	18	◆															
ARDD0195-3	Viaduct E7 & E8 - IC/SO Approval of Pilecap Precast Shells DDA - DP15.08	75	15-Apr-14 A	40%	45	23-Oct-14	02-May-14	03-Jul-14	-80	0	◆															
ARDD0195-4	Viaduct E7 & E8 - IC/SO Approval of Sub & Superstructure DDA - DP15.09	75	09-Jul-14 A	20%	60	13-Nov-14	11-Apr-14	03-Jul-14	-95	0	◆															
ARDD0195-5	Viaduct E7 & E8 - IC/SO Approval of Sub & Superstructure DDA - DP15.09	0		0%	0	13-Nov-14		03-Jul-14	-95	0	◆															
ARDD0195-6	Viaduct E7 & E8 - IC/SO Approval of Pilecap Precast Shells DDA - DP15.08	0		0%	0	23-Oct-14		03-Jul-14	-80	15	◆															
Associated Construction Milestones																										
ARDD0220	Viaduct E7 & E8 - DDA approval ready for Initial Segment Casting	0	14-Nov-14	0%	0		10-Sep-14		-65	43	◆															
Viaduct E2																										
Viaduct Design																										
ARDD0241-1	Viaduct E2 - Earliest IC certificate for Pilecap Precast Shells DDA - DP15.05	0		0%	0	21-Aug-14		17-Jun-14	-47	21	◆															
ARDD0241-3	Viaduct E2 - IC/SO Approval (Late) of Sub & Superstructure DDA - DP15.06	75	04-Jul-14 A	20%	60	18-Nov-14	23-May-14	14-Aug-14	-68	0	◆															
ARDD0241-4	Viaduct E2 - IC/SO Approval Pilecap Precast Shells DDA - DP15.05	75	15-Apr-14 A	40%	45	23-Oct-14	24-Mar-14	23-May-14	-109	0	◆															
ARDD0241-5	Viaduct E2 - IC/SO Approval Pilecap Precast Shells DDA - DP15.05	0		0%	0	23-Oct-14		23-May-14	-109	0	◆															
ARDD0241-6	Viaduct E2 - IC/SO Approval (Late) of Sub & Superstructure DDA - DP15.06	0		0%	0	18-Nov-14		14-Aug-14	-68	0	◆															
Associated Construction Milestones																										
ARDD0265	Viaduct E2 - DDA approval ready for Commencement of Pilecaps	0	15-Nov-14	0%	0		31-Jul-14		-106	0	◆															
ARDD0266	Viaduct E2 - DDA approval ready for Initial Segment Casting	0	19-Nov-14	0%	0		15-Aug-14		-96	37	◆															
ARDD0266-1	Viaduct E2 - DDA approval ready for Pile Cap Shell Casting	0	24-Oct-14	0%	0		25-May-14		-151	0	◆															
Viaduct E1																										
Viaduct Design																										
ARDD0284	Viaduct E1 - Preparation of Substructure DDA -DP15.03	50	07-Apr-14 A	100%	0	29-Jul-14 A					◆															
ARDD0285	Viaduct E1 - Preparation of Superstructure DDA -DP15.03	70	07-Apr-14 A	100%	0	29-Jul-14 A					◆															
ARDD0286	Viaduct E1 - Submission of Sub & Superstructure DDA - DP15.03	0		100%	0	29-Jul-14 A					◆															
ARDD0287-1	Viaduct E1 - Earliest IC Certificate for DDA - DP15.02	0		0%	0	21-Aug-14		05-Aug-14	-12	15	◆															
ARDD0287-3	Viaduct E1 - IC/SO Approval (Late) of Sub & Superstructure DDA DP15.03	75	30-Jul-14 A	0%	75	04-Dec-14	16-Jul-14	28-Oct-14	-27	0	◆															
ARDD0287-5	Viaduct E1 - IC/SO Approval of Pilecap Precast Shells DDA DP15.02	75	20-May-14 A	40%	45	23-Oct-14	27-May-14	28-Jul-14	-63	0	◆															
ARDD0287-6	Viaduct E1 - IC/SO Approval of Pilecap Precast Shells DDA DP15.02	0		0%	0	23-Oct-14		28-Jul-14	-63	0	◆															
Information to Contractor																										
ARDD0295	Viaduct E1 - Typical Pilecap Reinforcement - Stainless Steel Rebar	0	29-Jul-14 A	100%	0						◆															
ARDD0296	Viaduct E1 - Typical Pilecap Reinforcement - Regular Rebar	0		100%	0	29-Jul-14 A					◆															
ARDD0297	Viaduct E1 - Final Pilecap Reinforcement	0		100%	0	29-Jul-14 A					◆															
ARDD0299	Viaduct E1 - Final Pier Shapes and Reinforcement	0		100%	0	29-Jul-14 A					◆															
ARDD0300	Viaduct E1 - Typical Segment Shapes for Moulds	0		100%	0	29-Jul-14 A					◆															
ARDD0301	Viaduct E1 - Typical Segment Reinforcement	0		100%	0	29-Jul-14 A					◆															
ARDD0302	Viaduct E1 - Final Segment Types and Reinforcement	0		100%	0	29-Jul-14 A					◆															
ARDD0304	Viaduct E1 - Final Anchorage and PT Requirements	0		100%	0	29-Jul-14 A					◆															
ARDD0308	Viaduct E1 - Final Movement Joint (MJ) Schedule	0		100%	0	29-Jul-14 A					◆															
Associated Construction Milestones																										

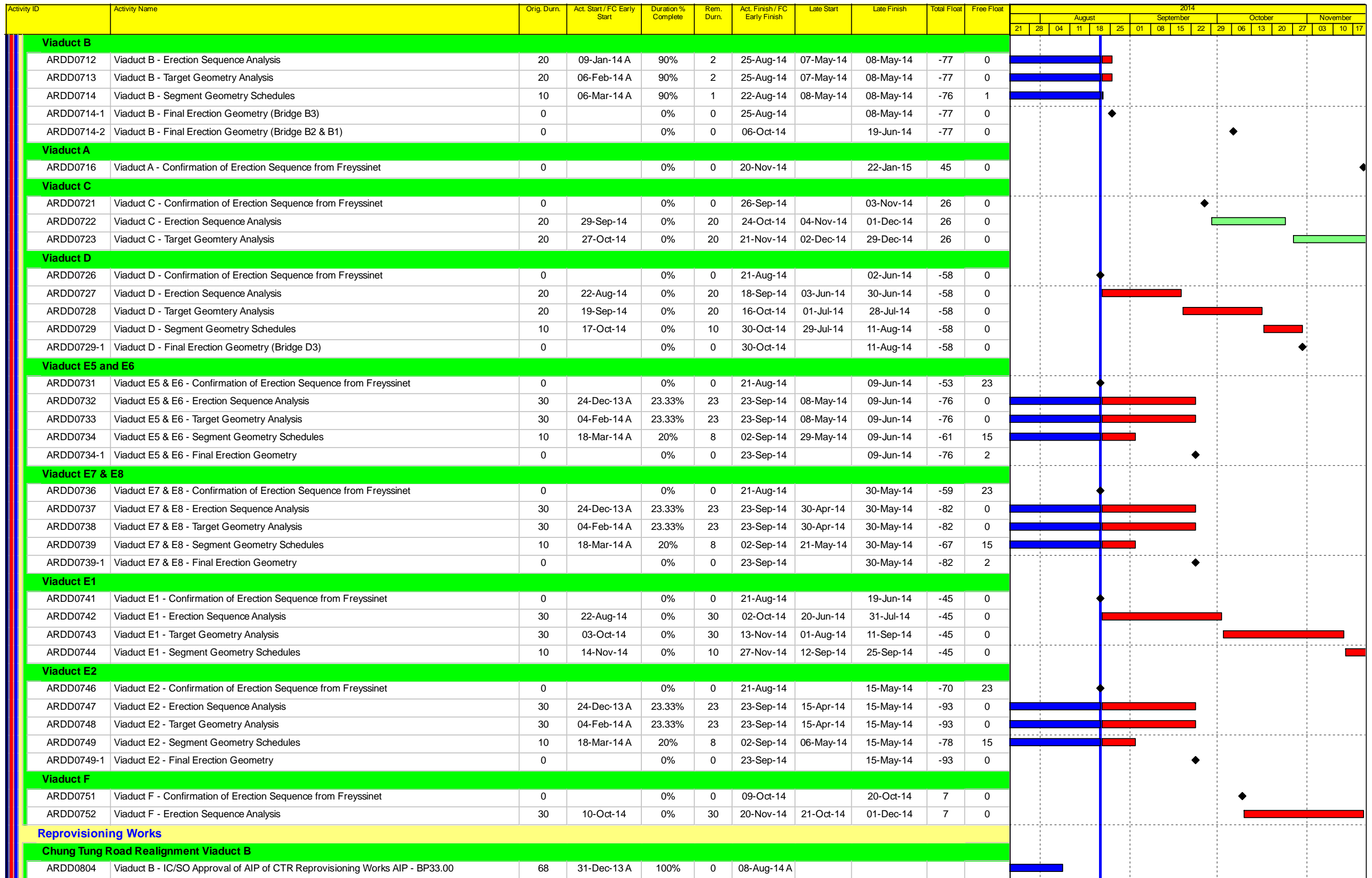
■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

Project ID: J3518DWPPrD1-M15
 Layout: J3518-DWP-3MRP Submission - M15
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Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 6 of 34 Pages)
(Progress as of 21-Aug-14)

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DWG. No.:
J3518/GCL/PGM/3MRP-M15



■ Actual Work
■ Planned Bar
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Tuen Mun - Chek Lap Kok Link - Southern Connection
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DWG. No.:
J3518/GCL/PGM/3MRP-M15

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	2014												
											August			September			October			November			
											21	28	04	11	18	25	01	08	15	22	29	06	13
ARDD0804-1	Viaduct B - IC/SO Approval of AIP of CTR Reprovisioning Works AIP - BP33.00	0		100%	0	08-Aug-14 A																	
ARDD0807	Viaduct B - IC/SO Approval of CTR Reprovisioning Works DDA - BP33.01	75	11-Jun-14 A	20%	60	13-Nov-14	04-Aug-14	24-Oct-14	-14	0													
ARDD0807-1	Viaduct B - IC/SO Approval of CTR Reprovisioning Works DDA - BP33.01	0		0%	0	13-Nov-14		24-Oct-14	-14	50													
Chung Tung Road Realignment Viaduct C																							
ARDD0881	Viaduct C - IC/SO Approval of AIP of CTR Reprovisioning Works AIP - BP34.00	68	04-Apr-14 A	60.29%	27	29-Sep-14	29-May-14	04-Jul-14	-61	0													
ARDD0881-1	Viaduct C - IC/SO Approval of AIP of CTR Reprovisioning Works AIP - BP34.00	0		0%	0	29-Sep-14		04-Jul-14	-61	0													
ARDD0887	Viaduct C - IC/SO Approval of CTR Reprovisioning Works DDA - BP34.01	75	20-Jun-14 A	20%	60	13-Nov-14	14-Apr-14	04-Jul-14	-94	0													
ARDD0887-1	Viaduct C - IC/SO Approval of CTR Reprovisioning Works DDA - BP34.01	0		0%	0	13-Nov-14		04-Jul-14	-94	6													
Remaining Reprovisioning Works (Viaduct A&D)																							
ARDD0813	Viaduct A&D - IC/SO Approval of AIP for Remaining Reprovisioning Works V-A&D BP35.00	68	30-Apr-14 A	100%	0	12-Aug-14 A																	
ARDD0813-1	Viaduct A&D - IC/SO Approval of AIP for Remaining Reprovisioning Works V-A&D BP35.00	0		100%	0	12-Aug-14 A																	
ARDD0815	Viaduct A&D - IC/SO Approval of DDA of Remaining Reprovisioning Works BP35.01	75	26-Jun-14 A	20%	60	13-Nov-14	30-Jun-15	21-Sep-15	222	0													
ARDD0815-1	Viaduct A&D - IC/SO Approval of DDA of Remaining Reprovisioning Works BP35.01	0		0%	0	13-Nov-14		21-Sep-15	222	50													
CEDD Access Track																							
ARDD0808	Preparation of Combined AIP/DDA for CEDD Access Track - BP32.01	30	09-Sep-13 A	80%	6	29-Aug-14	19-Feb-16	26-Feb-16	390	0													
ARDD0809	IC/SO Approval of Combined AIP/DDA for CEDD Access Track - BP32.01	75	01-Sep-14	0%	75	12-Dec-14	29-Feb-16	10-Jun-16	390	0													
Construction Traffic Impact Assessment																							
ARDD0811	IC/SO Approval of CTIA - AP05.00	75	25-Feb-14 A	90.67%	7	01-Sep-14	23-Mar-17	31-Mar-17	674	0													
ARDD0816	IC/SO Approval of CTIA - AP05.00	0		0%	0	01-Sep-14		31-Mar-17	674	0													
Other Design																							
Marine Permanent Navigation Aids																							
BMT0135	Preparation of MPNA DDA - BP36.01	46	11-Jun-14 A	10.87%	41	17-Oct-14	20-Feb-15	17-Apr-15	130	0													
BMT0140	IC/SO Approval of MPNA DDA BP36.01	75	20-Oct-14	0%	75	30-Jan-15	20-Apr-15	31-Jul-15	130	0													
Major Procurement																							
Marine Permanent Navigation Aids																							
PR65011	Design & Approvals for Marine Navigation Aids	150	16-Dec-13 A	52%	72	30-Jan-15	06-May-15	31-Jul-15	145	0													
Tower Cranes																							
PR66010	Procure Tower Crane Supplier	96	23-Jun-14 A	53.13%	45	16-Oct-14	08-Aug-14	30-Sep-14	-12	0													
PR66011	Procure & Deliver Tower Cranes	325	17-Oct-14	0%	325	19-Nov-15	03-Oct-14	05-Nov-15	-12	0													
PR66012	Erect & Commission Tower Crane @ E3	24	17-Oct-14	0%	24	13-Nov-14	18-Dec-14	17-Jan-15	53	136													
PR66013	Erect & Commission Tower Crane @ E4	24	17-Oct-14	0%	24	13-Nov-14	03-Oct-14	01-Nov-14	-10	106													
PR66018	Erect & Commission Tower Crane @ E9	24	17-Oct-14	0%	24	13-Nov-14	10-Jun-15	27-Jul-15	176	108													
PR66019	Erect & Commission Tower Crane @ E10	24	23-Oct-14	0%	24	19-Nov-14	16-Jan-15	12-Feb-15	70	101													
PR66020	Erect & Commission Tower Crane @ E11	24	17-Nov-14	0%	24	13-Dec-14	17-Nov-14	13-Dec-14	0	122													
Equipment Platforms for Tower Cranes																							
PR66025	Inst.Temp.Eqpt.Platform (piles & deck) @ E3	18	22-Aug-14	0%	18	16-Sep-14	27-Nov-14	17-Dec-14	73	20													
PR66026	Inst.Temp.Eqpt.Platform (piles & deck) @ E4	18	23-Aug-14	0%	18	18-Sep-14	05-Sep-14	30-Sep-14	9	19													
PR66031	Inst.Temp.Eqpt.Platform (piles & deck) @ E9	18	11-Sep-14	0%	18	06-Oct-14	11-May-15	08-Jun-15	183	7													
PR66032	Inst.Temp.Eqpt.Platform (piles & deck) @ E10	18	27-Sep-14	0%	18	22-Oct-14	23-Dec-14	15-Jan-15	70	0													
PR66033	Inst.Temp.Eqpt.Platform (piles & deck) @ E11	18	27-Oct-14	0%	18	15-Nov-14	27-Oct-14	15-Nov-14	0	0													
Deck Segment Installation Equipment																							
Launching Gantry 1																							
PR67040	Launching Gantry Design	95	05-Feb-14 A	94.74%	5	27-Aug-14	30-Aug-14	04-Sep-14	7	5													
PR67041	Launching Gantry 1 Fabrication	95	15-May-14 A	89.47%	10	02-Sep-14	25-Aug-14	04-Sep-14	2	0													
PR67042	Launching Gantry 1 Delivery	20	03-Sep-14	0%	20	26-Sep-14	05-Sep-14	29-Sep-14	2	80													
Launching Gantry 2																							
PR67043	Launching Gantry 2 Fabrication	105	16-Jun-14 A	20%	84	01-Dec-14	03-Oct-14	12-Jan-15	33	56													

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- ◆ Milestone

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Tuen Mun - Chek Lap Kok Link - Southern Connection
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											August				September				October				November				
											21	28	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10
Lifting Frames																											
Lifting Frames 1 & 2																											
PR68011	Lifting Frame 1&2 Design	70	02-Jun-14 A	50%	35	04-Oct-14	13-Aug-14	23-Sep-14	-8	0																	
PR68012	Lifting Frame 1&2 Approval	60	28-Aug-14	0%	60	08-Nov-14	05-Sep-14	17-Nov-14	7	15																	
PR68013	Lifting Frame 1&2 Fabrication	140	22-Aug-14	0%	140	07-Feb-15	13-Aug-14	29-Jan-15	-8	0																	
Lifting Frames 3 & 4																											
PR68015	Lifting Frame 3&4 Design	70	02-Jun-14 A	60%	28	24-Sep-14	26-Jul-14	27-Aug-14	-23	2																	
PR68016	Lifting Frame 3&4 Approval	60	22-Aug-14	0%	60	03-Nov-14	19-Aug-14	30-Oct-14	-3	20																	
PR68017	Lifting Frame 3&4 Fabrication	140	22-Aug-14	0%	140	07-Feb-15	26-Jul-14	12-Jan-15	-23	0																	
Lifting Frames 5 & 6																											
PR68019	Lifting Frame 5&6 Design	70	22-Aug-14	0%	70	14-Nov-14	08-Nov-14	31-Jan-15	64	0																	
PR68020	Lifting Frame 5&6 Approval	60	04-Nov-14	0%	60	15-Jan-15	13-Feb-15	02-May-15	84	20																	
PR68021	Lifting Frame 5&6 Fabrication	140	04-Nov-14	0%	140	27-Apr-15	21-Jan-15	15-Jul-15	64	0																	
Unloading Frames																											
Type 1																											
PR69100	Unloading Frame Type 1 Design	50	05-May-14 A	40%	30	26-Sep-14	10-Oct-14	13-Nov-14	39	17																	
PR69110	Unloading Frame Type 1 Fabrication	95	22-Aug-14	0%	95	13-Dec-14	10-Oct-14	31-Jan-15	39	0																	
Type 2																											
PR69170	Unloading Frame Type 2 Design	50	05-May-14 A	40%	30	26-Sep-14	18-May-15	23-Jun-15	216	17																	
PR69180	Unloading Frame Type 2 Fabrication	95	22-Aug-14	0%	95	13-Dec-14	18-May-15	08-Sep-15	216	0																	
Type 3																											
PR69220	Unloading Frame Type 3 Design	50	05-May-14 A	100%	0	15-Aug-14 A																					
PR69230	Unloading Frame Type 3 (Lantau) Fabrication	95	16-Jun-14 A	60%	38	14-Oct-14	30-Jun-14	13-Aug-14	-50	0																	
PR69240	Unloading Frame Type 3 Delivery	24	15-Oct-14	0%	24	11-Nov-14	14-Aug-14	11-Sep-14	-50	0																	
Type 4																											
PR69250	Unloading Frame Type 4 Design	50	05-May-14 A	40%	30	26-Sep-14	29-Oct-14	02-Dec-14	55	17																	
PR69260	Unloading Frame Type 4 (BCF) Fabrication	95	22-Aug-14	0%	95	13-Dec-14	29-Oct-14	23-Feb-15	55	0																	
Deck Segments & Precast Pile Cap Shells																											
Preliminaries																											
MBBE0010	Set Up Precast Segment Casting Yard & Beds etc	176	15-Oct-13 A	100%	0	31-Jul-14 A																					
MBBE0012	Precast Segment Mould Design (Viaduct B)	42	15-Oct-13 A	90.48%	4	26-Aug-14	14-Aug-18	17-Aug-18	1177	1177																	
MBBE0014	Precast Segment Mould Fabrication & Assembly (Viaduct B)	52	04-Mar-14 A	80.77%	10	02-Sep-14	27-May-14	07-Jun-14	-73	0																	
MBBE0016	Trial Precast Segments (in pair) and Approval	45	03-Sep-14	0%	45	28-Oct-14	09-Jun-14	31-Jul-14	-73	0																	
MBBE0018	Precast Segment Mould Design (Viaduct E5, E6, E7 & E8)	42	15-Oct-13 A	59.52%	17	11-Sep-14	19-Jun-14	09-Jul-14	-54	0																	
MBBE0020	Precast Segment Mould Fabrication & Assembly (Viaduct E5, E6, E7 & E8)	52	12-Sep-14	0%	52	13-Nov-14	10-Jul-14	08-Sep-14	-54	35																	
MBBE0024	Precast Segment Mould Design (Viaduct E2)	42	15-Oct-13 A	59.52%	17	11-Sep-14	26-May-14	14-Jun-14	-74	0																	
MBBE0026	Precast Segment Mould Fabrication & Assembly (Viaduct E2)	52	12-Sep-14	0%	52	13-Nov-14	16-Jun-14	15-Aug-14	-74	35																	
MBBE0030	Precast Segment Mould Design (Viaduct E1)	42	30-Jul-14 A	0%	42	13-Oct-14	09-Jul-14	26-Aug-14	-38	0																	
MBBE0032	Precast Segment Mould Fabrication & Assembly (Viaduct E1)	52	14-Oct-14	0%	52	12-Dec-14	27-Aug-14	29-Oct-14	-38	14																	
MBBE0036	Precast Segment Mould Design (Viaduct D)	42	11-Sep-14	0%	42	31-Oct-14	07-Jul-14	23-Aug-14	-56	0																	
MBBE0038	Precast Segment Mould Fabrication & Assembly (Viaduct D)	52	01-Nov-14	0%	52	03-Jan-15	25-Aug-14	27-Oct-14	-56	21																	
MBBE0042	Precast Segment Mould Design (Viaduct C)	42	30-Aug-14	0%	42	21-Oct-14	06-Dec-14	27-Jan-15	81	0																	
MBBE0044	Precast Segment Mould Fabrication & Assembly (Viaduct C)	52	22-Oct-14	0%	52	20-Dec-14	28-Jan-15	01-Apr-15	81	44																	
MBBE0048	Precast Segment Mould Design (Viaduct A)	42	24-Oct-14	0%	42	11-Dec-14	23-Jul-15	09-Sep-15	219	0																	
MBBE0054	Precast Segment Mould Design (Viaduct F1 to F5)	42	12-Sep-14	0%	42	01-Nov-14	16-Jan-15	09-Mar-15	103	0																	
MBBE0056	Precast Segment Mould Fabrication & Erection (Viaduct F1 to F5)	52	03-Nov-14	0%	52	05-Jan-15	10-Mar-15	14-May-15	103	95																	
Viaduct B																											

Actual Work
 Planned Bar
 Critical Bar
 Milestone

Project ID: J3518DWP-rD1-M15
 Layout: J3518-DWP-3MRP Submission - M15
 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 14 of 34 Pages)
(Progress as of 21-Aug-14)

Date	Revision	Checked	Approved
28-Jun-14		FZ	
29-Jul-14		FZ	
29-Aug-14		FZ	

DWG. No.:
J3518/GCL/PGM/3MRP-M15

Activity ID	Activity Name	Orig. Dur.	Act. Start / FC Early Start	Duration % Complete	Rem. Dur.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	2014																																	
											August				September				October				November																					
											21	28	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17																
Precast Pile Caps																																												
MBBC0130-1	B: Progressive Pile Cap Shell Manufacture & Delivery remaining shells (6/7 Nr in total)	81	05-Jul-14 A	19.75%	65	08-Nov-14	17-Jul-14	04-Oct-14	-31	1116																																		
Precast Deck Segments																																												
MBBE0120	B: Commence Segment Casting on Approval of DDA	0	18-Nov-14	0%	0		01-Aug-14		-90	0																																		
PP1032-1	Viaduct B - Pier Head Segment Casting	0	29-Oct-14	0%	0		01-Aug-14		-73	17																																		
Viaduct E																																												
Precast Pile Caps																																												
Viaduct E2																																												
MBEC0120-3	E2: Commence Pile Cap Shell Casting on Approval of DDA	0	17-Nov-14	0%	0		18-Jun-14		-125	0																																		
PP7260	Production of Viaduct E2 Marine Precast Pile Cap Shells	80	17-Nov-14	0%	80	24-Feb-15	08-Aug-14	12-Nov-14	-83	0																																		
Precast Deck Segments																																												
MBE00014	Viaduct E2 - Pier Head Segment Casting	0	19-Nov-14	0%	0		16-Aug-14		-78	31																																		
Viaduct D																																												
Precast Pile Caps																																												
MBDC0120	D: Commence Pile Cap Shell Casting on Approval of DDA	0	11-Sep-14	0%	0		16-Aug-14		-21	0																																		
MBDC0130	D: Commence Pile Cap Shell Delivery	0	24-Oct-14	0%	0		27-Sep-14		-21	0																																		
MBDC0130-8	D: Progressive Pile Cap Shell Manufacture & Delivery remaining shells	90	24-Oct-14	0%	90	09-Feb-15	27-Sep-14	15-Jan-15	-21	40																																		
PP7410	Production of initial Viaduct D Marine Precast Pile Cap Shells	35	11-Sep-14	0%	35	23-Oct-14	16-Aug-14	26-Sep-14	-21	0																																		
Viaduct C																																												
Precast Pile Caps																																												
MBCC0120	C: Commence Pile Cap Shell Casting on Approval of DDA	0	14-Nov-14	0%	0		27-Nov-14		11	79																																		
Parapets																																												
PP6010	Procure Sub-Contractor for Precast Parapets/Barriers	40	20-Oct-14	0%	40	04-Dec-14	07-Oct-14	21-Nov-14	-11	21																																		
Materials																																												
H-Piles																																												
PP7390	Procurement of Viaduct D Socketted H-Piles	70	21-Feb-14 A	100%	0	21-Jul-14 A																																						
PP7470	Procurement of Viaduct C Socketted H-Piles	70	21-Jul-14 A	40%	42	13-Oct-14	20-Sep-14	10-Nov-14	24	27																																		
PP7550	Procurement of Viaduct A Socketted H-Piles	70	26-Sep-14	0%	70	18-Dec-14	11-Feb-15	12-May-15	113	0																																		
Reinforcement																																												
Bored Piles																																												
PP7020	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct B Piles	24	28-Feb-14 A	100%	0	11-Aug-14 A																																						
PP7100	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E5 & E6 Piles	185	24-Sep-14	0%	185	12-May-15	19-Feb-14	04-Oct-14	-177	0																																		
PP7170	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E7 & E8 Piles	185	24-Sep-14	0%	185	12-May-15	28-Apr-14	06-Dec-14	-123	0																																		
PP7240	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E2 Piles	106	15-Apr-14 A	19.81%	85	02-Dec-14	30-Apr-14	11-Aug-14	-94	100																																		
PP7310	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E1 Piles	36	09-Jul-14 A	77.78%	8	30-Aug-14	30-Sep-14	10-Oct-14	32	1																																		
PP7380	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct D Piles	25	08-Aug-14 A	4%	24	19-Sep-14	01-Aug-14	28-Aug-14	-18	19																																		
PP7460	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct C Piles	35	18-Aug-14 A	5.71%	33	30-Sep-14	01-Nov-14	09-Dec-14	58	35																																		
PP7540	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct A Piles	21	12-Aug-14 A	4.76%	20	15-Sep-14	18-Apr-15	12-May-15	192	79																																		
PP7620	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct F1 & F3 Piles	61	19-Sep-14	0%	61	01-Dec-14	27-Sep-14	09-Dec-14	7	0																																		
PP7690	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct F2, F4 & F5 Piles	73	19-Sep-14	0%	73	15-Dec-14	04-Dec-14	06-Mar-15	63	0																																		
Marine Pile Caps																																												
PP7040	Rebar - Cut, Bend & Fabricate for Viaduct B Marine Pile Caps	36	30-Jun-14 A	100%	0	11-Aug-14 A																																						
PP7110	Rebar - Cut, Bend & Fabricate for Viaduct E5 & E6 Pile Caps	245	24-Oct-14	0%	245	21-Aug-15	19-Mar-14	14-Jan-15	-177	0																																		
PP7180	Rebar - Cut, Bend & Fabricate for Viaduct E7 & E8 Pile Caps	102	24-Oct-14	0%	102	26-Feb-15	28-May-14	26-Sep-14	-123	0																																		
PP7250	Rebar - Cut, Bend & Fabricate for Viaduct E2 Pile Caps	185	22-Aug-14	0%	185	09-Apr-15	30-Apr-14	09-Dec-14	-94	0																																		
PP7320	Rebar - Cut, Bend & Fabricate for Viaduct E1 Pile Caps	67	02-Sep-14	0%	67	21-Nov-14	11-Oct-14	30-Dec-14	31	0																																		
PP7400	Rebar - Cut, Bend & Fabricate for Viaduct D Marine Pile Caps	47	15-Oct-14	0%	47	08-Dec-14	29-Aug-14	25-Oct-14	-37	14																																		

<p>Actual Work</p> <p>Planned Bar</p> <p>Critical Bar</p> <p>Milestone</p>	<p>Project ID: J3518DWPPrD1-M15</p> <p>Layout: J3518-DWP-3MRP Submission - M15</p> <p>Filter: TASK filters: 3-Month Lookahead, No Level of Effort.</p>	<p>Tuen Mun - Chek Lap Kok Link - Southern Connection</p> <p>3-Month Rolling Programme (Page 15 of 34 Pages)</p> <p>(Progress as of 21-Aug-14)</p>	<p>Date</p> <p>Revision</p> <p>Checked</p> <p>Approved</p>	<p>DWG. No.:</p> <p>J3518/GCL/PGM/3MRP-M15</p>
			<p>28-Jun-14</p> <p>29-Jul-14</p> <p>29-Aug-14</p>	<p>FZ</p> <p>FZ</p> <p>FZ</p>

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	2014															
											August				September				October				November			
											21	28	04	11	18	25	01	08	15	22	29	06	13	20	27	03
GFXX144	A1 (A2e) - Bored Piles (1.80m dia. x 3 nos)	88	12-Aug-14 A	5.68%	83	29-Nov-14	24-Apr-15	03-Aug-15	197	0																
Bridge A1																										
Pier A8 (A1d)																										
Preliminary Works for Land Piling																										
PA080020	A08 (A1d) - Erect MTR protective fence / Remove existing fence	12	14-Nov-14	0%	12	27-Nov-14	19-Sep-14	04-Oct-14	-44	0																
PA080030	A08 (A1d) - Install Geo. Instru. & Baseline Monitoring	36	14-Nov-14	0%	36	27-Dec-14	19-Sep-14	01-Nov-14	-46	0																
Pier A9 (A1c)																										
Preliminary Works for Land Piling																										
PA090010	A9 (A1c) - Implement TTMS along north side of NLH E/B	2	14-Nov-14	0%	2	15-Nov-14	24-Oct-14	25-Oct-14	-18	0																
PA090020	A9 (A1c) - Erect boundary fence, site clearance & set up site ingress	4	17-Nov-14	0%	4	20-Nov-14	27-Oct-14	30-Oct-14	-18	6																
Pier A10 (A1b)																										
Preliminary Works for Land Piling																										
PA100010	A10 (A1b) - Implement TTMS along north side of NLH E/B	2	14-Nov-14	0%	2	15-Nov-14	05-Nov-14	06-Nov-14	-8	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	14-Nov-14	0%	2	15-Nov-14	05-Nov-14	06-Nov-14	-8	0																
PA110020	A11 (A1a) to Approach Ramp A - Erect boundary fence / water filled barrier & set up site ingri	14	17-Nov-14	0%	14	02-Dec-14	07-Nov-14	22-Nov-14	-8	0																
Viaduct B																										
Milestones - Marine Foundation																										
GFXX155-1	B7 (B2f) - Completion of piling works	0		0%	0	10-Sep-14		08-Sep-14	-1	7																
GFXX160-1	B6 (B3a) - Completion of piling works	0		0%	0	10-Sep-14		13-Sep-14	3	8																
GFXX165-1	B5 (B3b) - Completion of piling works	0		100%	0	21-Jul-14 A																				
GFXX170-1	B4 (B3c) - Completion of piling works	0		0%	0	10-Sep-14		01-Sep-14	-7	8																
GFXX175-1	B3 (B3d) - Completion of piling works	0		0%	0	24-Oct-14		02-Sep-14	-42	7																
Milestones - Land Foundation																										
ZB00101	B14 (B1f) - Completion of piling works	0		0%	0	05-Sep-14		27-Sep-14	18	0																
ZB00111	B13 (B1g) - Completion of piling works	0		0%	0	11-Sep-14		14-Nov-14	53	0																
ZB00140	B10 (B2c) - Start date for piling	0	14-Oct-14	0%	0		26-Sep-14		-13	0																
ZB00150	B9 (B2d) - Start date for piling	0	22-Jul-14 A	100%	0																					
ZB00151	B9 (B2d) - Completion of piling works	0		0%	0	13-Sep-14		16-Oct-14	26	0																
ZB00161	B8 (B2e) - Completion of piling works	0		0%	0	23-Aug-14		25-Jul-14	-25	9																
Bridge B3																										
Pier B1 (B3f)																										
Pile Cap Works																										
SB3F0070	B1 (B3f) - Marine Pile Cap M2 - Inst.Floating Seal & Casing Head Steelwork	7	24-Jul-14 A	100%	0	11-Aug-14 A																				
SB3F0080	B1 (B3f) - Marine Pile Cap M2 - Install precast shell in position	1	12-Aug-14 A	100%	0	12-Aug-14 A																				
SB3F0090	B1 (B3f) - Marine Pile Cap M2 - Inst.Access & make Watertight	3	13-Aug-14 A	100%	0	14-Aug-14 A																				
SB3F0100	B1 (B3f) - Marine Pile Cap M2 - Weld Fin plates/Plug Rebar & Concrete	9	15-Aug-14 A	100%	0	21-Aug-14 A																				
SB3F0110	B1 (B3f) - Marine Pile Cap M2 - Dewater precast shell / Remove Lifting Frame	2	22-Aug-14	0%	2	23-Aug-14	17-Jul-14	18-Jul-14	-23	0																
SB3F0120	B1 (B3f) - Marine Pile Cap M2 - Pile cut down	12	25-Aug-14	0%	12	11-Sep-14	19-Jul-14	05-Aug-14	-23	0																
SB3F0130	B1 (B3f) - Marine Pile Cap M2 - Rebar fixing, inst.inserts etc	12	12-Sep-14	0%	12	27-Sep-14	07-Aug-14	25-Aug-14	-23	0																
SB3F0140	B1 (B3f) - Marine Pile Cap M2 - Concreting	1	29-Sep-14	0%	1	29-Sep-14	26-Aug-14	26-Aug-14	-23	0																
SB3F0164	B1 (B3f) - Marine Pile Cap M2 - Curing incl. CJ preparation	6	30-Sep-14	0%	6	09-Oct-14	28-Aug-14	04-Sep-14	-23	0																
Pier Works																										
SB3F0170	B1 (B3f) - Type 4B-MJ Pier Temp. Support Platform	6	30-Sep-14	0%	6	09-Oct-14	28-Aug-14	04-Sep-14	-23	0																
SB3F0172	B1 (B3f) - Type 4B-MJ Pier Scaffolding (1st Lift)	4	10-Oct-14	0%	4	14-Oct-14	05-Sep-14	11-Sep-14	-23	0																
SB3F0180	B1 (B3f) - Type 4B-MJ Pier Rebarwork (1st Lift)	4	16-Oct-14	0%	4	20-Oct-14	12-Sep-14	16-Sep-14	-23	0																

Actual Work
 Planned Bar
 Critical Bar
 Milestone

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DWG. No.:
J3518/GCL/PGM/3MRP-M15

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											August				September				October				November																												
											21	28	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17																							
Pile Cap Works																																																			
SB2F0070	B7 (B2f) - Marine Pile Cap M1 - Inst.Floating Seal & Casing Head Steelwork	6	11-Sep-14	0%	6	18-Sep-14	01-Sep-14	08-Sep-14	-6	11																																									
SB2F0080	B7 (B2f) - Marine Pile Cap M1 - Install precast shell in position	1	06-Oct-14	0%	1	06-Oct-14	11-Sep-14	11-Sep-14	-17	0																																									
SB2F0090	B7 (B2f) - Marine Pile Cap M1 - Inst.Access & make Watertight	3	07-Oct-14	0%	3	10-Oct-14	12-Sep-14	15-Sep-14	-17	0																																									
SB2F0100	B7 (B2f) - Marine Pile Cap M1 - Weld Fin plates/Plug Rebar & Concrete	9	11-Oct-14	0%	9	22-Oct-14	16-Sep-14	27-Sep-14	-17	0																																									
SB2F0120	B7 (B2f) - Marine Pile Cap M1 - Dewater precast shell / Remove Lifting Frame	2	23-Oct-14	0%	2	24-Oct-14	29-Sep-14	30-Sep-14	-17	0																																									
SB2F0130	B7 (B2f) - Marine Pile Cap M1 - Pile cut down	6	25-Oct-14	0%	6	31-Oct-14	03-Oct-14	10-Oct-14	-17	0																																									
SB2F0140	B7 (B2f) - Marine Pile Cap M1 - Rebar fixing, inst.inserts etc	10	01-Nov-14	0%	10	12-Nov-14	11-Oct-14	23-Oct-14	-17	0																																									
SB2F0150	B7 (B2f) - Marine Pile Cap M1 - Concreting	1	13-Nov-14	0%	1	13-Nov-14	24-Oct-14	24-Oct-14	-17	0																																									
SB2F0160	B7 (B2f) - Marine Pile Cap M1 - Curing incl. CJ Preparation	6	14-Nov-14	0%	6	20-Nov-14	25-Oct-14	31-Oct-14	-17	0																																									
Pier Works																																																			
SB2F0170	B7 (B2f) - Type 4B Pier Temp. Support Platform	6	14-Nov-14	0%	6	20-Nov-14	25-Oct-14	31-Oct-14	-17	0																																									
Pier B8 (B2e)																																																			
Socketted H-Pile Installation																																																			
GFXX353	B8 (B2e) - Install SH Pile (14 nr)	60	25-Jun-14 A	96.67%	2	23-Aug-14	18-Jun-14	19-Jun-14	-55	0																																									
Pile Cap Works																																																			
SB2E0088	B8 (B2e) - Pile cap - Pipe Pile Wall for ELS	24	04-Sep-14	0%	24	06-Oct-14	26-Jul-14	30-Aug-14	-26	0																																									
SB2E0090	B8 (B2e) - Pile cap Excavation / ELS	38	07-Oct-14	0%	38	21-Nov-14	01-Sep-14	22-Oct-14	-26	0																																									
Pier B9 (B2d)																																																			
Socketted H-Pile Installation																																																			
GFXX347-1	B9 (B2d) - Confirm Rockhead Levels	8	07-Jun-14 A	100%	0	21-Jul-14 A																																													
GFXX348	B9 (B2d) - Install SH Pile (14 nr)	71	22-Jul-14 A	73.24%	19	13-Sep-14	29-Jul-14	19-Aug-14	-21	0																																									
Pile Cap Works																																																			
SB2D0090	B9 (B2d) - ELS / Pile cap Excavation	24	15-Sep-14	0%	24	16-Oct-14	17-Oct-14	13-Nov-14	24	0																																									
SB2D0092	B9 (B2d) - Pile Breakdown to cut-off etc.	4	17-Oct-14	0%	4	21-Oct-14	14-Nov-14	18-Nov-14	24	0																																									
SB2D0100	B9 (B2d) - Pile cap Blinding	1	22-Oct-14	0%	1	22-Oct-14	19-Nov-14	19-Nov-14	24	0																																									
SB2D0110	B9 (B2d) - Pile cap Formwork	3	23-Oct-14	0%	3	25-Oct-14	20-Nov-14	22-Nov-14	24	0																																									
SB2D0120	B9 (B2d) - Pile cap Rebarwork	4	27-Oct-14	0%	4	30-Oct-14	24-Nov-14	27-Nov-14	24	0																																									
SB2D0122	B9 (B2d) - Pile cap Kicker Formwork	2	31-Oct-14	0%	2	01-Nov-14	28-Nov-14	29-Nov-14	24	0																																									
SB2D0130	B9 (B2d) - Pile cap Concreting	1	03-Nov-14	0%	1	03-Nov-14	01-Dec-14	01-Dec-14	24	0																																									
SB2D0140	B9 (B2d) - Pile cap Curing & Striking of Forms incl. CJ prep	6	04-Nov-14	0%	6	10-Nov-14	02-Dec-14	08-Dec-14	24	0																																									
Pier Works																																																			
SB2D0150	B9 (B2d) - Type 5B Pier Scaffolding (1st Lift)	4	11-Nov-14	0%	4	14-Nov-14	09-Dec-14	13-Dec-14	25	0																																									
SB2D0160	B9 (B2d) - Type 5B Pier Rebarwork (1st Lift)	4	15-Nov-14	0%	4	19-Nov-14	15-Dec-14	18-Dec-14	25	0																																									
SB2D0170	B9 (B2d) - Type 5B Pier Formwork & Prep for Concreting (1st Lift)	4	20-Nov-14	0%	4	24-Nov-14	19-Dec-14	23-Dec-14	25	0																																									
Pier B10 (B2c)																																																			
Preliminary Works for Land Piling																																																			
PB100070	B10 (B2c) - Construct new Gate G8	20	23-Jun-14 A	75%	5	28-Aug-14	26-Apr-14	03-May-14	-73	0																																									
PB100080	B10 (B2c) - Construct new Gate G9	20	23-Jun-14 A	75%	5	28-Aug-14	26-Apr-14	03-May-14	-73	0																																									
PB100100	B10 (B2c) - Remove original gates G8 & G9	6	29-Aug-14	0%	6	05-Sep-14	08-May-14	15-May-14	-73	0																																									
PB100110	B10 (B2c) - Fence existing openings of orig.gates & convert area to construction site	10	29-Aug-14	0%	10	12-Sep-14	08-May-14	20-May-14	-73	0																																									
PB100120	B10 (B2c) - Complete Civil Preparation Works for piling to commence	0		0%	0	12-Sep-14		20-May-14	-73	0																																									
Socketted H-Pile Installation																																																			
GFXX340	B10 (B2c) - Predrilling (2 nos)	16	13-Sep-14*	0%	16	03-Oct-14	22-May-14	10-Jun-14	-95	0																																									
GFXX340-1	B10 (B2c) - Confirm Rockhead Levels	8	04-Oct-14	0%	8	13-Oct-14	11-Jun-14	19-Jun-14	-95	0																																									
GFXX341	B10 (B2c) - Install SH Pile (14 nr)	36	14-Oct-14	0%	36	24-Nov-14	20-Jun-14	01-Aug-14	-95	0																																									
Pier B11 (B2b)																																																			

<ul style="list-style-type: none"> ■ Actual Work ■ Planned Bar ■ Critical Bar ◆ Milestone 	Project ID: J3518DWPPrD1-M15 Layout: J3518-DWP-3MRP Submission - M15 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 34 Pages) (Progress as of 21-Aug-14)	<table border="1"> <tr><th>Date</th><th>Revision</th><th>Checked</th><th>Approved</th></tr> <tr><td>28-Jun-14</td><td></td><td>FZ</td><td></td></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> </table>	Date	Revision	Checked	Approved	28-Jun-14		FZ		29-Jul-14		FZ		29-Aug-14		FZ		DWG. No.: J3518/GCL/PGM/3MRP-M15
Date	Revision	Checked	Approved																	
28-Jun-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	2014																										
											August				September				October				November														
											21	28	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17									
Pile Cap Works																																					
SB2B0090	B11 (B2b) - Utility diversion & Cut Slope	36	10-Jul-14 A	100%	0	22-Jul-14 A																															
SB2B0091	B11 (B2b) - Pile cap Excavation / ELS	24	19-Jul-14 A	75%	6	29-Aug-14	09-Jan-15	15-Jan-15	109	0																											
SB2B0092	B11 (B2b) - Pile Breakdown to cut-off etc.	4	30-Aug-14	0%	4	04-Sep-14	16-Jan-15	20-Jan-15	109	0																											
SB2B0100	B11 (B2b) - Pile cap Blinding	1	05-Sep-14	0%	1	05-Sep-14	21-Jan-15	21-Jan-15	109	0																											
SB2B0110	B11 (B2b) - Pile cap Formwork	3	06-Sep-14	0%	3	11-Sep-14	22-Jan-15	24-Jan-15	109	0																											
SB2B0120	B11 (B2b) - Pile cap Rebarwork	4	12-Sep-14	0%	4	16-Sep-14	26-Jan-15	29-Jan-15	109	0																											
SB2B0122	B11 (B2b) - Pile cap Kicker Formwork	2	17-Sep-14	0%	2	18-Sep-14	30-Jan-15	31-Jan-15	109	0																											
SB2B0130	B11 (B2b) - Pile cap Concreting	1	19-Sep-14	0%	1	19-Sep-14	02-Feb-15	02-Feb-15	109	0																											
SB2B0140	B11 (B2b) - Pile cap Curing & Striking of Forms incl. CJ prep	6	20-Sep-14	0%	6	26-Sep-14	03-Feb-15	09-Feb-15	109	0																											
Pier Works																																					
SB2B0150	B11 (B2b) - Type 5B-B Pier Scaffolding (1st Lift)	4	27-Sep-14	0%	4	03-Oct-14	10-Feb-15	13-Feb-15	109	0																											
SB2B0160	B11 (B2b) - Type 5B-B Pier Rebarwork (1st Lift)	4	04-Oct-14	0%	4	09-Oct-14	14-Feb-15	18-Feb-15	109	0																											
SB2B0170	B11 (B2b) - Type 5B-B Pier Formwork & Prep for Concreting (1st Lift)	4	10-Oct-14	0%	4	14-Oct-14	23-Feb-15	26-Feb-15	109	0																											
SB2B0180	B11 (B2b) - Type 5B-B Pier Concreting (1st Lift)	1	16-Oct-14	0%	1	16-Oct-14	27-Feb-15	27-Feb-15	109	0																											
SB2B0182	B11 (B2b) - Type 5B-B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	17-Oct-14	0%	2	18-Oct-14	28-Feb-15	02-Mar-15	109	0																											
SB2B0190	B11 (B2b) - Type 5B-B Pier Scaffolding (2nd Lift)	4	20-Oct-14	0%	4	23-Oct-14	03-Mar-15	07-Mar-15	110	0																											
SB2B0200	B11 (B2b) - Type 5B-B Pier Rebarwork (2nd Lift)	4	24-Oct-14	0%	4	28-Oct-14	09-Mar-15	12-Mar-15	110	0																											
SB2B0210	B11 (B2b) - Type 5B-B Pier Formwork & Prep for Concreting (2nd Lift)	4	29-Oct-14	0%	4	01-Nov-14	13-Mar-15	17-Mar-15	110	0																											
SB2B0220	B11 (B2b) - Type 5B-B Pier Concreting (2nd Lift)	1	03-Nov-14	0%	1	03-Nov-14	18-Mar-15	18-Mar-15	110	0																											
SB2B0222	B11 (B2b) - Type 5B-B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift)	2	04-Nov-14	0%	2	05-Nov-14	19-Mar-15	20-Mar-15	110	0																											
SB2B0230	B11 (B2b) - Type 5B-B Pier Head Scaffolding	4	06-Nov-14	0%	4	10-Nov-14	21-Mar-15	25-Mar-15	110	0																											
SB2B0240	B11 (B2b) - Type 5B-B Pier Head Rebarwork	4	11-Nov-14	0%	4	14-Nov-14	26-Mar-15	30-Mar-15	110	0																											
SB2B0250	B11 (B2b) - Type 5B-B Pier Head Formwork & Prep for Concreting	4	15-Nov-14	0%	4	19-Nov-14	31-Mar-15	10-Apr-15	110	0																											
SB2B0260	B11 (B2b) - Type 5B-B Pier Head Concreting	1	20-Nov-14	0%	1	20-Nov-14	11-Apr-15	11-Apr-15	110	0																											
Pier B12 (B2a)																																					
Socketted H-Pile Installation																																					
GFXX354-5	B12 (B2a) - Selection of pile for loading test	24	03-Jul-14 A	58.33%	10	02-Sep-14	25-Jun-18	06-Jul-18	1135	0																											
GFXX354-7	B12 (B2a) - Loading Test for pre-bored H-pile	36	03-Sep-14	0%	36	17-Oct-14	07-Jul-18	17-Aug-18	1135	1135																											
Pile Cap Works																																					
SB2A0090	B12 (B2a) - Utility diversion & Cut Slope	36	15-Jul-14 A	100%	0	21-Jul-14 A																															
SB2A0091	B12 (B2a) - Pile cap Excavation / ELS (incl. sheet piling)	24	13-Aug-14 A	50%	12	06-Sep-14	03-Jan-15	16-Jan-15	104	0																											
SB2A0092	B12 (B2a) - Pile Breakdown to cut-off etc.	4	08-Sep-14	0%	4	13-Sep-14	17-Jan-15	21-Jan-15	104	0																											
SB2A0100	B12 (B2a) - Pile cap Blinding	1	15-Sep-14	0%	1	15-Sep-14	22-Jan-15	22-Jan-15	104	0																											
SB2A0110	B12 (B2a) - Pile cap Formwork	3	16-Sep-14	0%	3	18-Sep-14	23-Jan-15	27-Jan-15	105	0																											
SB2A0120	B12 (B2a) - Pile cap Rebarwork	4	19-Sep-14	0%	4	23-Sep-14	28-Jan-15	31-Jan-15	105	0																											
SB2A0122	B12 (B2a) - Pile cap Kicker Formwork	2	24-Sep-14	0%	2	25-Sep-14	02-Feb-15	03-Feb-15	105	0																											
SB2A0130	B12 (B2a) - Pile cap Concreting	1	26-Sep-14	0%	1	26-Sep-14	04-Feb-15	04-Feb-15	105	0																											
SB2A0140	B12 (B2a) - Pile cap Curing & Striking of Forms incl. CJ prep	6	27-Sep-14	0%	6	06-Oct-14	05-Feb-15	11-Feb-15	105	0																											
Pier Works																																					
SB2A0150	B12 (B2a) - Type 5B-MJ Pier Scaffolding (1st Lift)	4	07-Oct-14	0%	4	11-Oct-14	12-Feb-15	16-Feb-15	105	0																											
SB2A0160	B12 (B2a) - Type 5B-MJ Pier Rebarwork (1st Lift)	4	13-Oct-14	0%	4	17-Oct-14	17-Feb-15	24-Feb-15	105	0																											
SB2A0170	B12 (B2a) - Type 5B-MJ Pier Formwork & Prep for Concreting (1st Lift)	4	18-Oct-14	0%	4	22-Oct-14	25-Feb-15	28-Feb-15	105	0																											
SB2A0180	B12 (B2a) - Type 5B-MJ Pier Concreting (1st Lift)	1	23-Oct-14	0%	1	23-Oct-14	02-Mar-15	02-Mar-15	105	0																											
SB2A0182	B12 (B2a) - Type 5B-MJ Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	24-Oct-14	0%	2	25-Oct-14	03-Mar-15	04-Mar-15	105	0																											
SB2A0190	B12 (B2a) - Type 5B-MJ Pier Scaffolding (2nd Lift)	4	27-Oct-14	0%	4	30-Oct-14	05-Mar-15	10-Mar-15	106	0																											
SB2A0200	B12 (B2a) - Type 5B-MJ Pier Rebarwork (2nd Lift)	4	31-Oct-14	0%	4	04-Nov-14	11-Mar-15	14-Mar-15	106	0																											

<ul style="list-style-type: none"> █ Actual Work █ Planned Bar █ Critical Bar ◆ Milestone 	Project ID: J3518DWPPrD1-M15 Layout: J3518-DWP-3MRP Submission - M15 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 22 of 34 Pages) (Progress as of 21-Aug-14)	<table border="1"> <tr><th>Date</th><th>Revision</th><th>Checked</th><th>Approved</th></tr> <tr><td>28-Jun-14</td><td></td><td>FZ</td><td></td></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> </table>	Date	Revision	Checked	Approved	28-Jun-14		FZ		29-Jul-14		FZ		29-Aug-14		FZ		DWG. No.: J3518/GCL/PGM/3MRP-M15
Date	Revision	Checked	Approved																	
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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	2014												
											August			September			October			November			
											21	28	04	11	18	25	01	08	15	22	29	06	13
PC080060	C8 (C3d) - Set up piling platform	36	22-Aug-14	0%	36	10-Oct-14	23-May-18	13-Jul-18	1001	0	[Gantt bar: 23-May-18 to 13-Jul-18]												
PC080070	C8 (C3d) - Complete Civil Preparation Works for piling to commence	0		0%	0	14-Nov-14		17-Aug-18	1000	1000	[Milestone: 17-Aug-18]												
Socketted H-Pile Installation																							
GFXX392	C8 (C3d) - Predrilling	17	14-Aug-14 A	100%	0	19-Aug-14 A					[Gantt bar: 14-Aug-14 to 19-Aug-14]												
GFXX392-1	C8 (C3d) - Confirm Rockhead Levels	8	20-Aug-14 A	0%	8	30-Aug-14	31-Jan-15	09-Feb-15	133	61	[Gantt bar: 20-Aug-14 to 30-Aug-14]												
GFXX393	C8 (C3d) - Install SH Pile (16 no.)	108	14-Nov-14	0%	108	26-Mar-15	10-Feb-15	26-Jun-15	72	0	[Gantt bar: 14-Nov-14 to 26-Mar-15]												
Pier C9 (C3c)																							
Preliminary Works for Land Piling																							
PC090010	C9 (C3c) - Install Geo. Instru. & Baseline Monitoring	36	08-Sep-14	0%	36	22-Oct-14	22-Sep-14	04-Nov-14	11	0	[Gantt bar: 08-Sep-14 to 22-Oct-14]												
Pier C10 (C3b)																							
Preliminary Works for Land Piling																							
PC100010	C10 (C3c) - Install Geo. Instru. & Baseline Monitoring	36	08-Sep-14	0%	36	22-Oct-14	31-Oct-14	11-Dec-14	43	0	[Gantt bar: 08-Sep-14 to 22-Oct-14]												
Pier C11 (C3a)																							
Preliminary Works for Land Piling																							
PC110010	C11 (C3a) - Install Geo. Instru. & Baseline Monitoring	36	12-Sep-14	0%	36	25-Oct-14	26-Nov-14	09-Jan-15	62	0	[Gantt bar: 12-Sep-14 to 25-Oct-14]												
Bridge C2																							
Pier C12 (C2f)																							
Preliminary Works for Land Piling																							
PC120010	C12 (C2f) - Install Geo. Instru. & Baseline Monitoring	36	19-Sep-14	0%	36	01-Nov-14	02-Mar-15	16-Apr-15	132	0	[Gantt bar: 19-Sep-14 to 01-Nov-14]												
PC120020	C12 (C2f) - Erect fencing, site clearance & form piling platform	8	15-Jul-14 A	100%	0	15-Aug-14 A					[Gantt bar: 15-Jul-14 to 15-Aug-14]												
PC120030	C12 (C2f) - Complete civil preparation works for piling to commence	0		100%	0	15-Aug-14 A					[Milestone: 15-Aug-14]												
Foundation Works																							
GFXX410	C12 (C2f) - Predrilling (2 nos)	13	19-Aug-14 A	46.15%	7	29-Aug-14	02-Apr-15	14-Apr-15	182	0	[Gantt bar: 19-Aug-14 to 29-Aug-14]												
GFXX411	C12 (C2f) - Confirm Rockhead Levels	8	30-Aug-14	0%	8	08-Sep-14	17-Apr-15	25-Apr-15	184	118	[Gantt bar: 30-Aug-14 to 08-Sep-14]												
Pier C13 (C2e) Portal																							
Preliminary Works for Land Piling																							
PC130010	C13 (C2e) - Install Geo. Instru. & Baseline Monitoring	36	03-Nov-14	0%	36	13-Dec-14	17-Apr-15	30-May-15	132	0	[Gantt bar: 03-Nov-14 to 13-Dec-14]												
PC130020	C13 (C2e) - Erect fencing, site clearance & form piling platform	10	15-Jul-14 A	100%	0	09-Aug-14 A					[Gantt bar: 15-Jul-14 to 09-Aug-14]												
PC130030	C13 (C2e) - Complete Civil Preparation Works for piling to commence	0		100%	0	09-Aug-14 A					[Milestone: 09-Aug-14]												
Socketted H-Pile Installation																							
GFXX387	C13 (C2e) - Predrilling (2 Nr)	14	11-Aug-14 A	50%	7	29-Aug-14	27-Apr-15	05-May-15	199	0	[Gantt bar: 11-Aug-14 to 29-Aug-14]												
GFXX387-1	C13 (C2e) - Confirm Rockhead Levels	8	30-Aug-14	0%	8	08-Sep-14	06-May-15	14-May-15	199	64	[Gantt bar: 30-Aug-14 to 08-Sep-14]												
Pier C15 (C2c)																							
Preliminary Works for Land Piling																							
PC150010	C15 (C2c) - Install Geo. Instru. & Baseline Monitoring	36	16-Aug-14 A	0%	36	06-Oct-14	23-Jun-15	04-Aug-15	245	41	[Gantt bar: 16-Aug-14 to 06-Oct-14]												
Pier C16 (C2b)																							
Preliminary Works for Land Piling																							
PC160010	C16 (C2b) - Install Geo. Instru. & Baseline Monitoring	36	08-Sep-14	0%	36	22-Oct-14	22-Jan-15	07-Mar-15	111	0	[Gantt bar: 08-Sep-14 to 22-Oct-14]												
Bridge C1																							
Pier C17 (C2a)																							
Preliminary Works for Land Piling																							
PC170010	C17 (C2a) - Install Geo. Instru. & Baseline Monitoring	36	16-Sep-14	0%	36	29-Oct-14	29-Jan-15	14-Mar-15	111	0	[Gantt bar: 16-Sep-14 to 29-Oct-14]												
Pier C18 (C3d) Portal																							
Preliminary Works for Land Piling																							
PC180010	C18 (C1e) - Install Geo. Instru. & Baseline Monitoring	36	23-Sep-14	0%	36	05-Nov-14	16-May-18	28-Jun-18	1077	0	[Gantt bar: 23-Sep-14 to 05-Nov-14]												
PC180020	C18 (C1e) - Erect fencing, site clearance & form piling platform	10	10-Jul-14 A	100%	0	06-Aug-14 A					[Gantt bar: 10-Jul-14 to 06-Aug-14]												
PC180030	C18 (C1e) - Complete Civil Preparation Works	0		100%	0	06-Aug-14 A					[Milestone: 06-Aug-14]												

█ Actual Work
█ Planned Bar
█ Critical Bar
◆ Milestone

Project ID: J3518DWPPrD1-M15
 Layout: J3518-DWP-3MRP Submission - M15
 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 25 of 34 Pages)
(Progress as of 21-Aug-14)

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28-Jun-14		FZ	
29-Jul-14		FZ	
29-Aug-14		FZ	

DWG. No.:
J3518/GCL/PGM/3MRP-M15

Activity ID	Activity Name	Orig. Dur.	Act. Start / FC Early Start	Duration % Complete	Rem. Dur.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	2014														
											August				September				October				November		
											21	28	04	11	18	25	01	08	15	22	29	06	13	20	27
Socketted H-Pile Installation																									
GFXX368-1	C18 (C1e) - Predrilling (2 Nr)	18	07-Aug-14 A	50%	9	01-Sep-14	27-Mar-15	10-Apr-15	177	0															
GFXX368-4	C18 (C1e) - Confirm Rockhead Levels	8	02-Sep-14	0%	8	11-Sep-14	11-Apr-15	20-Apr-15	177	52															
GFXX374	C18 (C1e) - Install SH Pile (10 nr)	56	14-Nov-14	0%	56	21-Jan-15	21-Apr-15	27-Jun-15	125	0															
Pier C19 (C1d)																									
Preliminary Works for Land Piling																									
PC190010	C19 (C1d) - Install Geo. Instru. & Baseline Monitoring	36	06-Nov-14	0%	36	17-Dec-14	29-Jun-18	10-Aug-18	1077	0															
PC190020	C19 (C1d) - Erect fencing, site clearance & form piling platform	8	10-Jul-14 A	100%	0	02-Aug-14 A																			
PC190030	C19 (C1d) - Complete Civil Preparation Works	0		100%	0	02-Aug-14 A																			
Socketted H-Pile Installation																									
GFXX368-2	C19 (C1d) - Predrilling	18	04-Aug-14 A	100%	0	07-Aug-14 A																			
GFXX368-5	C19 (C1d) - Confirm Rockhead Levels	8	08-Aug-14 A	0%	8	30-Aug-14	16-Apr-15	24-Apr-15	190	61															
GFXX369-2	C19 (C1d) - Install SH Pile (9 nr)	56	14-Nov-14	0%	56	21-Jan-15	25-Apr-15	03-Jul-15	129	0															
Pier C20 (C1c) & Abutment C																									
Preliminary Works for Land Piling																									
PC200010	C20 (C1c) - Install Geo. Instru. & Baseline Monitoring	36	13-Nov-14	0%	36	24-Dec-14	07-Jul-18	17-Aug-18	1077	1077															
PC200020	C20 (C1c) - Erect fencing, site clearance & form piling platform	8	10-Jul-14 A	100%	0	09-Aug-14 A																			
PC200030	C20 (C1c) - Complete Civil Preparation Works	0		100%	0	09-Aug-14 A																			
Socketted H-Pile Installation																									
GFXX368-3	C20 (C1c) - Predrilling	18	11-Aug-14 A	100%	0	13-Aug-14 A																			
GFXX368-6	C20 (C1c) - Confirm Rockhead Levels	8	14-Aug-14 A	0%	8	30-Aug-14	28-Feb-15	09-Mar-15	154	61															
GFXX369-3	C20 (C1c) - Install SH Pile (6 nr)	56	14-Nov-14	0%	56	21-Jan-15	10-Mar-15	19-May-15	93	0															
Viaduct D																									
Milestones - Marine Foundation																									
GFXX228	Viaduct D - ARUP issues Pile Spacing & Diameter for Temporary Platform Design	0		0%	0	21-Aug-14		10-Jun-14	-61	0															
GFXX235-1	Pier D6 (D4a) - Start date for piling	0	14-Nov-14	0%	0		08-Oct-14		-32	0															
GFXX240-1	Pier D5 (D4b) - Start date for piling	0	24-Sep-14	0%	0		13-Sep-14		-9	0															
GFXX245-1	Pier D4 (D4c) - Start date for piling	0	22-Sep-14	0%	0		26-Aug-14		-22	0															
GFXX250-1	Pier D3 (D4d) - Start date for piling	0	30-Sep-14	0%	0		19-Jul-14		-61	0															
GFXX255-1	Pier D2 (D4e) - Start date for piling	0	05-Sep-14	0%	0		20-May-15		206	0															
GFXX260-1	Pier D1 (D4f) - Start date for piling	0	08-Aug-14 A	100%	0																				
GFXX263-1	Pier D1 (D4f) - Completion of Piling Works	0		0%	0	10-Nov-14		22-Jan-15	60	38															
ZD00010	Viaduct D - Approval of Foundation DDA	0		0%	0	21-Aug-14		11-Feb-15	124	6															
Milestones - Land Foundation																									
GFXX438-4	D18 (D1c) - Start date for piling	0	22-Aug-14	0%	0		07-Nov-14		63	0															
GFXX438-4A	D18 (D1c) - Completion of piling works	0		0%	0	31-Oct-14		30-Jan-15	75	12															
GFXX438-5	D19 (D1b) - Start date for piling	0	22-Aug-14	0%	0		18-Nov-14		72	61															
GFXX438-5A	D19 (D1b) - Completion of piling works	0		0%	0	09-Oct-14		10-Feb-15	103	92															
GFXX439A	D17 (D1d) - Start date for piling	0	22-Aug-14	0%	0		04-Dec-14		86	34															
GFXX439A1	D17 (D1d) - Completion of piling works	0		0%	0	31-Oct-14		02-Mar-15	98	46															
GFXX446A1	D14 (D2c) - Start date for piling	0	01-Sep-14	0%	0		17-Jul-14		-39	0															
GFXX446C	D16 (D2a) - Start date for piling	0	01-Sep-14	0%	0		15-Jul-14		-41	0															
GFXX454A	D13 (D2d) - Start date for piling	0	01-Sep-14	0%	0		23-Mar-15		165	0															
GFXX461A	D10 (D3b) - Start date for piling	0	11-Sep-14	0%	0		31-Jul-14		-36	0															
GFXX461B	D11 (D3a) - Start date for piling	0	08-Oct-14	0%	0		18-Jun-14		-92	1															
GFXX461C	D12 (D2e) - Start date for piling	0	08-Oct-14	0%	0		16-Sep-14		-17	99															
GFXX471-1	D8 (D3d) - Start date for piling	0	15-Sep-14	0%	0		20-Aug-14		-21	0															

<ul style="list-style-type: none"> ■ Actual Work ■ Planned Bar ■ Critical Bar ◆ Milestone 	Project ID: J3518DWP-D1-M15 Layout: J3518-DWP-3MRP Submission - M15 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.	<p align="center">Tuen Mun - Chek Lap Kok Link - Southern Connection</p> <p align="center">3-Month Rolling Programme (Page 26 of 34 Pages)</p> <p align="center">(Progress as of 21-Aug-14)</p>	<table border="1"> <thead> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> </thead> <tbody> <tr> <td>28-Jun-14</td> <td></td> <td>FZ</td> <td></td> </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> </tbody> </table>	Date	Revision	Checked	Approved	28-Jun-14		FZ		29-Jul-14		FZ		29-Aug-14		FZ		DWG. No.: <p align="center">J3518/GCL/PGM/3MRP-M15</p>
Date	Revision	Checked	Approved																	
28-Jun-14		FZ																		
29-Jul-14		FZ																		
29-Aug-14		FZ																		

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	2014															
											August				September				October				November			
											21	28	04	11	18	25	01	08	15	22	29	06	13	20	27	03
General - Preliminary Works for Land Piling																										
ZD20010	Viaduct D works area between MTR and NLH - Setup TTMS	4	22-Aug-14	0%	4	26-Aug-14	30-Jul-18	02-Aug-18	1049	0																
Bridge D3																										
Pier D1 (D4f)																										
Foundation Works																										
GFXX260	D1 (D4f) - Predrilling for Piles (3 nos)	14	22-Jul-14 A	100%	0	02-Aug-14 A					[Actual Work Bar]															
GFXX260-2	D1 (D4f) - Confirm Rockhead Levels	8	03-Aug-14 A	100%	0	07-Aug-14 A					[Actual Work Bar]															
GFXX261	D1 (D4f) - Bored Piles (1.80m dia. x 3 nos)	58	08-Aug-14 A	15.52%	49	21-Oct-14	26-Jun-14	22-Aug-14	-48	0	[Critical Bar]															
GFXX262	D1 (D4f) - Sonic & Interface Coring	12	22-Oct-14	0%	12	04-Nov-14	03-Jan-15	16-Jan-15	60	0	[Planned Bar]															
GFXX263	D1 (D4f) - Dismantle removable panels of temp. platform	5	05-Nov-14	0%	5	10-Nov-14	17-Jan-15	22-Jan-15	60	0	[Planned Bar]															
Pier D2 (D4e)																										
Foundation Works																										
GFXX254	D2 (D4e) - Inst.Temp.Working Platform	12	23-Jul-14 A	100%	0	20-Aug-14 A					[Actual Work Bar]															
GFXX255	D2 (D4e) - Predrilling (2 nos)	12	22-Aug-14	0%	12	04-Sep-14	16-Jun-14	28-Jun-14	-57	0	[Critical Bar]															
GFXX255-2	D2 (D4e) - Confirm Rockhead Levels	8	05-Sep-14	0%	8	15-Sep-14	30-Jun-14	09-Jul-14	-57	0	[Critical Bar]															
GFXX256	D2 (D4e) - Bored Piles (2.35m dia. x 2 nos)	63	05-Sep-14	0%	63	20-Nov-14	30-Jun-14	12-Sep-14	-57	0	[Critical Bar]															
Pier D3 (D4d)																										
Foundation Works																										
GFXX249	D3 (D4d) - Inst.Temp.Working Platform	20	22-Aug-14	0%	20	15-Sep-14	11-Jun-14	04-Jul-14	-61	0	[Critical Bar]															
GFXX250	D3 (D4d) - Predrilling for Piles (3 nos)	12	16-Sep-14	0%	12	29-Sep-14	05-Jul-14	18-Jul-14	-61	0	[Critical Bar]															
GFXX250-2	D3 (D4d) - Confirm Rockhead Levels	8	30-Sep-14	0%	8	10-Oct-14	19-Jul-14	28-Jul-14	-61	0	[Critical Bar]															
GFXX251	D3 (D4d) - Bored Piles (2.00m dia. x 3 nos)	65	30-Sep-14	0%	65	16-Dec-14	19-Jul-14	06-Oct-14	-61	0	[Critical Bar]															
Pier D4 (D4c)																										
Foundation Works																										
GFXX244	D4 (D4c) - Inst.Temp.Working Platform	14	22-Aug-14	0%	14	06-Sep-14	28-Jul-14	12-Aug-14	-22	0	[Critical Bar]															
GFXX245	D4 (D4c) - Predrilling (3 nos)	11	08-Sep-14	0%	11	20-Sep-14	13-Aug-14	25-Aug-14	-22	0	[Critical Bar]															
GFXX245-2	D4 (D4c) - Confirm Rockhead Levels	8	22-Sep-14	0%	8	30-Sep-14	26-Aug-14	03-Sep-14	-22	0	[Critical Bar]															
GFXX246	D4 (D4c) - Bored Piles (2.00m dia. x 3 nos)	70	22-Sep-14	0%	70	13-Dec-14	26-Aug-14	18-Nov-14	-22	0	[Critical Bar]															
Pier D5 (D4b)																										
Foundation Works																										
GFXX239	D5 (D4b) - Inst.Temp.Working Platform	15	22-Aug-14	0%	15	08-Sep-14	25-Jul-14	11-Aug-14	-24	0	[Critical Bar]															
GFXX240	D5 (D4b) - Predrilling (2 nos)	12	10-Sep-14	0%	12	23-Sep-14	12-Aug-14	25-Aug-14	-24	0	[Critical Bar]															
GFXX240-2	D5 (D4b) - Confirm Rockhead Levels	8	24-Sep-14	0%	8	04-Oct-14	26-Aug-14	03-Sep-14	-24	0	[Critical Bar]															
GFXX241	D5 (D4b) - Bored Piles (2.35m dia. x 2 nos)	78	24-Sep-14	0%	78	27-Dec-14	26-Aug-14	27-Nov-14	-24	0	[Critical Bar]															
Pier D6 (D4a)																										
Foundation Works																										
GFXX234	D6 (D4a) - Inst.Temp.Working Platform	10	22-Oct-14	0%	10	01-Nov-14	23-Aug-14	03-Sep-14	-48	0	[Critical Bar]															
GFXX235	D6 (D4a) - Predrilling (3 nos)	10	03-Nov-14	0%	10	13-Nov-14	04-Sep-14	16-Sep-14	-48	0	[Critical Bar]															
GFXX235-2	D6 (D4a) - Confirm Rockhead Levels	8	14-Nov-14	0%	8	22-Nov-14	17-Sep-14	25-Sep-14	-48	0	[Critical Bar]															
GFXX236	D6 (D4a) - Bored Piles (2.00m dia. x 3 nos)	62	14-Nov-14	0%	62	28-Jan-15	17-Sep-14	29-Nov-14	-48	0	[Critical Bar]															
Bridge D2																										
Pier D8 (D3d)																										
Preliminary Works for Land Piling																										
GFXX432	D8 (D3d) - Set up for Pregrouting	5	21-Oct-14	0%	5	25-Oct-14	09-Jul-18	13-Jul-18	1098	0	[Planned Bar]															
GFXX433-1	D8 (D3d) - Pregrouting Works	30	27-Oct-14	0%	30	29-Nov-14	14-Jul-18	17-Aug-18	1098	0	[Planned Bar]															
PD080030	D8 (D3d) - Erect MTR protective fence / remove existing fence	12	07-Aug-14 A	16.67%	10	04-Sep-14	08-Jun-18	22-Jun-18	1013	23	[Actual Work Bar]															
PD080032	D8 (D3d) - Install Geo. Instru. & Baseline Monitoring	36	22-Aug-14	0%	36	06-Oct-14	10-May-18	22-Jun-18	1098	0	[Planned Bar]															

<ul style="list-style-type: none"> Actual Work Planned Bar Critical Bar Milestone 	Project ID: J3518DWPrD1-M15 Layout: J3518-DWP-3MRP Submission - M15 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 34 Pages) (Progress as of 21-Aug-14)				Date	Revision	Checked	Approved	DWG. No.: J3518/GCL/PGM/3MRP-M15
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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	2014																
											August				September				October				November				
											21	28	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10
PD080040	D8 (D3d) - Set up piling platform	10	07-Oct-14	0%	10	20-Oct-14	23-Jun-18	07-Jul-18	990	0	[Gantt Bar]																
Socketted H-Pile Installation																											
GFXX470	D8 (D3d) - Predrilling (2 Nr)	17	25-Jul-14 A	47.06%	9	01-Sep-14	31-Jul-14	09-Aug-14	-19	0	[Gantt Bar]																
GFXX470-1	D8 (D3d) - Confirm Rockhead Levels	8	02-Sep-14	0%	8	11-Sep-14	11-Aug-14	19-Aug-14	-19	2	[Gantt Bar]																
GFXX471	D8 (D3d) - Installation of SH Pile (16 nr)	122	15-Sep-14	0%	122	09-Feb-15	20-Aug-14	15-Jan-15	-21	0	[Gantt Bar]																
Pier D9 (D3c)																											
Preliminary Works for Land Piling																											
GFXX433-2	D9 (D3c) - Pregroutting Works	30	23-Jul-14 A	100%	0	23-Jul-14 A					[Gantt Bar]																
PD090010	D9 (D3c) - Erect MTR boundary fence / remove existing fence	12	28-Aug-14	0%	12	13-Sep-14	03-Aug-18	17-Aug-18	1049	1049	[Gantt Bar]																
PD090012	D9 (D3c) - Install Geo. Instru. & Baseline Monitoring	36	10-Jul-14 A	100%	0	22-Jul-14 A					[Gantt Bar]																
PD090020	D9 (D3c) - Set up piling platform	10	10-Jul-14 A	100%	0	22-Jul-14 A					[Gantt Bar]																
PD090030	D9 (D3c) - Complete Civil Preparation Works for piling to commence	0		100%	0	23-Jul-14 A					[Gantt Bar]																
Socketted H-Pile Installation																											
GFXX465	D9 (D3c) - Predrilling	18	08-Aug-14 A	100%	0	12-Aug-14 A					[Gantt Bar]																
GFXX465-1	D9 (D3c) - Confirm Rockhead Levels	8	22-Aug-14	0%	8	30-Aug-14	24-Jul-14	01-Aug-14	-25	70	[Gantt Bar]																
Pier D10 (D3b)																											
Preliminary Works for Land Piling																											
PD100012	D10 (D3b) - Install Geo. Instru. & Baseline Monitoring	36	10-Jul-14 A	100%	0	22-Jul-14 A					[Gantt Bar]																
PD100020	D10 (D3b) - Set up piling platform	10	23-Jul-14 A	0%	10	04-Sep-14	06-Aug-18	17-Aug-18	1055	0	[Gantt Bar]																
PD100030	D10 (D3b) - Complete Civil Preparation Works for piling to commence	0		0%	0	04-Sep-14		17-Aug-18	1055	1055	[Gantt Bar]																
Socketted H-Pile Installation																											
GFXX460-1	D10 (D3b) - Predrilling (2 Nr)	17	14-Aug-14 A	50%	9	01-Sep-14	19-May-14	28-May-14	-80	0	[Gantt Bar]																
GFXX460-4	D10 (D3b) - Confirm Rockhead Levels	8	01-Sep-14	0%	8	11-Sep-14	22-Jul-14	30-Jul-14	-36	0	[Gantt Bar]																
GFXX461-1	D10 (D3b) - Installation of SH Pile (12 nr)	153	11-Sep-14	0%	153	18-Mar-15	31-Jul-14	31-Jan-15	-36	0	[Gantt Bar]																
Pier D11 (D3a)																											
Preliminary Works for Land Piling																											
PD110012	D11 (D3a) - Install Geo. Instru. & Baseline Monitoring	36	10-Jul-14 A	100%	0	22-Jul-14 A					[Gantt Bar]																
PD110020	D11 (D3a) - Set up piling platform	10	23-Jul-14 A	0%	10	04-Sep-14	02-May-14	17-May-14	-70	0	[Gantt Bar]																
PD110030	D11 (D3a) - Complete Civil Preparation Works for piling to commence	0		0%	0	04-Sep-14		17-May-14	-70	0	[Gantt Bar]																
Socketted H-Pile Installation																											
GFXX460-2	D11 (D3a) - Predrilling	17	05-Sep-14	0%	17	25-Sep-14	19-May-14	07-Jun-14	-92	0	[Gantt Bar]																
GFXX460-5	D11 (D3a) - Confirm Rockhead Levels	8	26-Sep-14	0%	8	07-Oct-14	09-Jun-14	17-Jun-14	-92	0	[Gantt Bar]																
GFXX461-2	D11 (D3a) - Installation of SH Pile (14 nr)	153	08-Oct-14	0%	153	15-Apr-15	18-Jun-14	17-Dec-14	-92	0	[Gantt Bar]																
Pier D12 (D2e)																											
Preliminary Works for Land Piling																											
PD120010	D12 (D2e) - Erect boundary fence / water filled barrier / remove existing fence	10	04-Jun-14 A	100%	0	10-Aug-14 A					[Gantt Bar]																
PD120012	D12 (D2e) - Install Geo. Instru. & Baseline Monitoring	36	22-Aug-14	0%	36	06-Oct-14	07-Jul-18	17-Aug-18	1145	1145	[Gantt Bar]																
PD120020	D12 (D2e) - Set up piling platform	10	11-Aug-14 A	100%	0	14-Aug-14 A					[Gantt Bar]																
PD120030	D12 (D2e) - Complete Civil Preparation Works for piling to commence	0		0%	0	21-Aug-14		15-Aug-14	-4	10	[Gantt Bar]																
Socketted H-Pile Installation																											
GFXX460-3	D12 (D2e) - Predrilling	17	05-Sep-14	0%	17	25-Sep-14	16-Aug-14	04-Sep-14	-17	0	[Gantt Bar]																
GFXX460-6	D12 (D2e) - Confirm Rockhead Levels	8	26-Sep-14	0%	8	07-Oct-14	05-Sep-14	15-Sep-14	-17	0	[Gantt Bar]																
GFXX461-3	D12 (D2e) - Installation of SH Pile (16 nr)	153	08-Oct-14	0%	153	15-Apr-15	16-Sep-14	21-Mar-15	-17	0	[Gantt Bar]																
Pier D13 (D2d)																											
Socketted H-Pile Installation																											
GFXX452-8	D13 (D2d) - Confirm Rockhead Levels	8	31-May-14 A	0%	8	30-Aug-14	03-Feb-15	11-Feb-15	135	0	[Gantt Bar]																
GFXX454	D13 (D2d) - Installation of SH Pile (16 nos)	71	01-Sep-14	0%	71	25-Nov-14	12-Feb-15	14-May-15	135	0	[Gantt Bar]																

█ Actual Work
█ Planned Bar
█ Critical Bar
◆ Milestone

Project ID: J3518DWPd1-M15
 Layout: J3518-DWP-3MRP Submission - M15
 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 34 Pages)
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DWG. No.:
J3518/GCL/PGM/3MRP-M15

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	2014													
											August				September				October				November	
											21	28	04	11	18	25	01	08	15	22	29	06	13	20
Bridge D1																								
Pier D14 (D2c)																								
Socketted H-Pile Installation																								
GFXX445-	D14 (D2c) - Confirm Rockhead Levels	8	17-Jun-14 A	0%	8	30-Aug-14	08-Jul-14	16-Jul-14	-39	0														
GFXX446-	D14 (D2c) - Installation of SH Pile (10 nr)	121	01-Sep-14	0%	121	26-Jan-15	17-Jul-14	08-Dec-14	-39	0														
Pier D15 (D2b)																								
Preliminary Works for Land Piling																								
PD150012	D15 (D2b) - Install Geo. Instru. & Baseline Monitoring	36	26-Jul-14 A	0%	36	06-Oct-14	14-Apr-14	30-May-14	-105	0														
PD150020	D15 (D2b) - Set up piling platform	20	07-Oct-14	0%	20	31-Oct-14	31-May-14	07-Jul-14	-84	0														
PD150030	D15 (D2b) - Complete Civil Preparation Works for piling to commence	0		0%	0	31-Oct-14		07-Jul-14	-84	0														
Socketted H-Pile Installation																								
GFXX445-2	D15 (D2b) - Predrilling	18	01-Nov-14	0%	18	21-Nov-14	08-Jul-14	28-Jul-14	-97	0														
Pier D16 (D2a)																								
Preliminary Works for Land Piling																								
PD160012	D16 (D2a) - Install Geo. Instru. & Baseline Monitoring	36	26-Jul-14 A	0%	36	06-Oct-14	11-Jun-18	24-Jul-18	1124	22														
PD160020	D16 (D2a) - Set up piling platform	20	01-Nov-14	0%	20	24-Nov-14	25-Jul-18	17-Aug-18	992	992														
Socketted H-Pile Installation																								
GFXX445-3	D16 (D2a) - Predrilling	18	21-Jul-14 A	100%	0	22-Jul-14 A																		
GFXX445-5	D16 (D2a) - Confirm Rockhead Levels	8	23-Jul-14 A	0%	8	30-Aug-14	05-Jul-14	14-Jul-14	-41	0														
GFXX446-3	D16 (D2a) - Installation of SH Pile (13 nr)	121	01-Sep-14	0%	121	26-Jan-15	15-Jul-14	05-Dec-14	-41	0														
Pier D17 (D1d)																								
Socketted H-Pile Installation																								
GFXX438-6	D17 (D1d) - Confirm Rockhead Levels	8	30-Jun-14 A	100%	0	13-Aug-14 A																		
GFXX439-1	D17 (D1d) - Installation of SH Pile (10 nr)	70	14-Aug-14 A	17.14%	58	31-Oct-14	04-Dec-14	12-Feb-15	86	0														
Pier D18 (D1c)																								
Socketted H-Pile Installation																								
GFXX438-7	D18 (D1c) - Confirm Rockhead Levels	8	25-Jun-14 A	100%	0	08-Aug-14 A																		
GFXX439-2	D18 (D1c) - Installation of SH Pile (10 nr)	70	09-Aug-14 A	17.14%	58	31-Oct-14	07-Nov-14	16-Jan-15	63	0														
GFXX439-5	D18 (D1c) - Selction of pile for Loading test	24	15-Nov-14	0%	24	12-Dec-14	31-Jan-15	03-Mar-15	63	0														
Pier D19 (D1b) & Abutment D																								
Socketted H-Pile Installation																								
GFXX438-8	D19 (D1b) - Confirm Rockhead Levels	8	05-Jul-14 A	100%	0	26-Jul-14 A																		
GFXX439-3	D19 (D1b) - Installation of SH Pile (6 nr)	70	29-Jul-14 A	44.29%	39	09-Oct-14	18-Nov-14	05-Jan-15	72	0														
Viaduct E																								
Viaduct E1																								
Bridge E1 - Piling & Substructure																								
Milestones																								
GFXX023A	E1D (E1a1) - Start date for piling	0	22-Aug-14	0%	0		10-Oct-14		39	0														
GFXX023A	E1C (E1a2) - Start date for piling	0	22-Aug-14	0%	0		10-Oct-14		39	0														
GFXX023A	E1B (E1a3) - Start date for piling	0	22-Aug-14	0%	0		10-Oct-14		39	0														
GFXX023A	E1A (E1a4) - Start date for piling	0	22-Aug-14	0%	0		10-Oct-14		39	0														
GFXX028A	E2C/E2D (E1b2/E1b1) - Start date for piling	0	09-Oct-14	0%	0		17-Jul-14		-69	0														
GFXX028A	E2B (E1b3) - Start date for piling	0	09-Oct-14	0%	0		17-Jul-14		-69	0														
GFXX028A	E2A (E1b4) - Start date for piling	0	09-Oct-14	0%	0		17-Jul-14		-69	0														
GFXX031-1	E1D (E1a1) - Piling Works Completion	0		0%	0	15-Oct-14		20-Jan-16	376	273														
GFXX031-2	E1C (E1a2) - Piling Works Completion	0		0%	0	15-Oct-14		17-Mar-15	125	134														
GFXX031-3	E1B (E1a3) - Piling Works Completion	0		0%	0	15-Oct-14		09-Jan-15	71	123														

Actual Work
 Planned Bar
 Critical Bar
 Milestone

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Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 29 of 34 Pages)
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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	2014															
											August				September				October				November			
											21	28	04	11	18	25	01	08	15	22	29	06	13	20	27	03
Foundation Works - E5A & E5B																										
Foundation Works																										
GFXX04	E5 (E2c) - Inst.Temp.Working Platform (Light)	7	22-Aug-14	0%	7	29-Aug-14	17-Jul-14	24-Jul-14	-31	0																
GFXX046	E5 (E2c) - Predrilling (4 nos)	22	30-Aug-14	0%	22	25-Sep-14	13-Oct-14	06-Nov-14	34	0																
GFXX04	E5 (E2c) - Confirm Rockhead levels	8	26-Sep-14	0%	8	07-Oct-14	07-Nov-14	15-Nov-14	34	103																
E6A & E6B (E2d - 1/2)																										
Foundation Works - E6A & E6B																										
Foundation Works																										
GFXX050	E6 (E2d) - Inst.Temp.Working Platform (Heavy)	18	22-Aug-14	0%	18	12-Sep-14	04-Jul-14	24-Jul-14	-42	0																
GFXX05	E6 (E2d) - Inst.Temp.Working Platform (Light)	7	13-Sep-14	0%	7	20-Sep-14	25-Jul-14	01-Aug-14	-42	0																
GFXX051	E6 (E2d) - Predrilling (4 nos)	18	22-Sep-14	0%	18	14-Oct-14	27-Nov-14	17-Dec-14	55	0																
GFXX05	E6 (E2d) - Confirm Rockhead levels	8	15-Oct-14	0%	8	23-Oct-14	18-Dec-14	29-Dec-14	55	183																
E7A & E7B (E2e - 1/2)																										
Foundation Works - E7A & E7B																										
Foundation Works																										
GFXX055	E7 (E2e) - Inst.Temp.Working Platforms (Heavy)	19	22-Sep-14	0%	19	15-Oct-14	02-Aug-14	23-Aug-14	-42	0																
GFXX05	E7 (E2e) - Inst.Temp.Working Platforms (Light)	7	16-Oct-14	0%	7	23-Oct-14	25-Aug-14	01-Sep-14	-42	0																
GFXX056	E7 (E2e) - Predrilling (5 nos)	26	24-Oct-14	0%	26	22-Nov-14	18-Oct-14	17-Nov-14	-5	0																
E8A & E8B (E2f - 1/2)																										
Foundation Works - E8A & E8B																										
Foundation Works																										
GFXX060	E8 (E2f) - Inst.Temp.Working Platforms (Heavy)	32	24-Oct-14	0%	32	29-Nov-14	02-Sep-14	11-Oct-14	-42	0																
GFXX06	E8 (E2f) - Relocation & Install Temporary Removable Platform from E3, Plant & Equipment fr	7	27-Oct-14	0%	7	03-Nov-14	12-Nov-14	19-Nov-14	14	56																
E9A & E9B (E2g - 1/2)																										
Foundation Works - E9A & E9B																										
Foundation Works																										
GFXX067	E9 (E2g) - Bored Piles (2.00m dia. x 6 nr)	105	17-May-14 A	84.76%	16	10-Sep-14	11-Feb-15	04-Mar-15	142	0																
GFXX068	E9 (E2g) - Sonic & Interface Coring	12	11-Sep-14	0%	12	24-Sep-14	05-Mar-15	18-Mar-15	142	0																
GFXX069	E9 (E2g) - Dismantle temp. removable piling platform	7	25-Sep-14	0%	7	04-Oct-14	19-Mar-15	26-Mar-15	142	0																
Pile Cap Works - E9A & E9B																										
Pile Cap Works																										
SE2G00	E9 (E2g1/2) - Marine Pile Cap - Inst.Floating Seal & Casing Head Steelwork	8	15-Nov-14	0%	8	24-Nov-14	27-Mar-15	11-Apr-15	107	41																
E10A & E10B (E2h - 1/2)																										
Foundation Works - E10A & E10B																										
Foundation Works																										
GFXX072	E10 (E2h) - Bored Piles (2.20m dia. x 6 nr)	132	15-May-14 A	77.27%	30	26-Sep-14	29-Sep-14	04-Nov-14	31	0																
GFXX073	E10 (E2h) - Sonic & Interface Coring	12	22-Oct-14	0%	12	04-Nov-14	05-Nov-14	18-Nov-14	12	0																
GFXX074	E10 (E2h) - Dismantle temp. removable piling platform	7	05-Nov-14	0%	7	12-Nov-14	19-Nov-14	26-Nov-14	12	0																
Pile Cap Works - E10A & E10B																										
Pile Cap Works																										
SE2H00	E10 (E2h1/2) - Marine Pile Cap - Inst.Floating Seal & Casing Head Steelwork	8	15-Nov-14	0%	8	24-Nov-14	27-Nov-14	05-Dec-14	10	41																
Viaduct E5, E6, E7 & E8																										
Milestones - Marine Foundation																										
GFXX084-1	E11 (E5E6a/E7E8a) - Start date for piling	0	22-Aug-14	0%	0		21-Mar-14		-124	0																
GFXX089-1	E12 (E5b/E6b/E7b/E8b + Dolphins) - Start date for piling	0	22-Aug-14	0%	0		17-Mar-14		-128	0																
GFXX095-1	E13C/D (E6c/E5c+ dolphin) - Start date for piling	0	22-Aug-14	0%	0		10-Apr-14		-108	0																
Milestones - Land Foundation																										

Actual Work
 Planned Bar
 Critical Bar
 Milestone

Project ID: J3518DWPd1-M15
 Layout: J3518-DWP-3MRP Submission - M15
 Filter: TASK filters: 3-Month Lookahead, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 31 of 34 Pages)
(Progress as of 21-Aug-14)

Date	Revision	Checked	Approved
28-Jun-14		FZ	
29-Jul-14		FZ	
29-Aug-14		FZ	

DWG. No.:
J3518/GCL/PGM/3MRP-M15

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		Δ

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 off site 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		✓
8.15	6.5	Audit coral translocation success	Yam Tsui Wan (receptor site)/Post translocation	Contractor	TMEIA		Y		n/a
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		n/a
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 : 05/07/2014

Sampler

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

Calibration Office 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) : 1004
 Ta(K) : 306

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	11.8	3.375	1.626	55	54.03
2 13 holes	9.8	3.076	1.482	50	49.12
3 10 holes	6.9	2.581	1.244	43	42.25
4 7 holes	4.6	2.107	1.016	36	35.37
5 5 holes	2.8	1.644	0.792	29	28.49

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): 30.344 Intercept(b): 4.470 Correlation Coefficient(r): 0.9998

Checked by: Magnum Fan

Date: 06/07/2014

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR8
 Calibrated by : P.F.Yeung
 Date : 05/07/2014

Sampler

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

Calibration Office 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) : 1004
 Ta(K) : 396

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	12.2	3.432	1.654	61	59.93
2 13 holes	10.0	3.107	1.497	56	55.02
3 10 holes	7.2	2.636	1.270	50	49.12
4 7 holes	5.1	2.219	1.069	44	43.23
5 5 holes	3.0	1.702	0.820	36	35.37

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): 29.096 Intercept(b): 11.811 Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 06/07/2014



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)]		

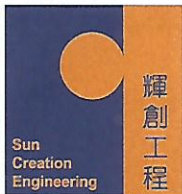
CALCULATIONS

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 : $(23 \pm 2)^{\circ}\text{C}$

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

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.

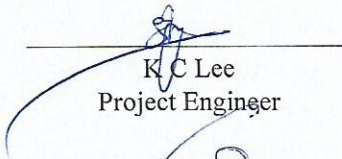
The results are detailed in the subsequent page(s).

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

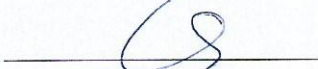
Tested By :

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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Sun Creation Engineering Limited - Calibration & Testing Laboratory

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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.

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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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.

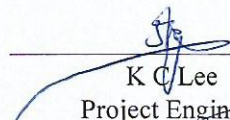
The results are detailed in the subsequent page(s).

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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E-mail/電郵: callab@suncreation.com

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				

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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

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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.

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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Sun Creation Engineering Limited – Calibration & Testing Laboratory

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輝創工程有限公司 – 校正及檢測實驗室

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



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 : 



Internal Calibration & Performance Check of pH Meter

Equipment Ref. No. : <u>ET/EW/007/003</u>	Manufacturer	: <u>HANNA</u>
Model No. : <u>HI 8314</u>	Serial No.	: <u>674469</u>
Date of Calibration : <u>10/07/2014</u>	Calibration Due Date	: <u>09/08/2014</u>

Liquid Junction Error

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/001/18
 Temperature of Solution : 20.0 $\Delta\text{pH}_{1/2} = \underline{+0.08}$
 pH value of diluted buffer : 6.78 pH (S) = 6.881
 $\Delta\text{pH} = \text{pH(S)} - \text{pH of diluted buffer} = \underline{0.101}$ (Observed Deviation)
 Liquid Junction Error (ΔpH_j) = $\Delta\text{pH} - \Delta\text{pH}_{1/2} = \underline{0.021}$

Shift on Stirring

pH of buffer solution (with stirring), $\text{pH}_s = \underline{6.92}$
 Shift on stirring, $\Delta\text{pH}_s = \text{pH}_s - \text{pH(S)} - \Delta\text{pH}_j = \underline{0.018}$

Noise

Noise, $\Delta\text{pH}_n = \text{difference between max and min reading} : \underline{0.00}$

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 : 09/08/2014 Calibration Due Date : 08/10/2014

Liquid Junction Error

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/001/18
 Temperature of Solution : 20.0 $\Delta\text{pH}_{1/2} = \underline{+0.08}$
 pH value of diluted buffer : 6.79 $\text{pH (S)} = \underline{6.881}$
 $\Delta\text{pH} = \text{pH(S)} - \text{pH of diluted buffer} = \underline{0.091}$ (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), $\text{pH}_s = \underline{6.91}$
 Shift on stirring, $\Delta\text{pH}_s = \text{pH}_s - \text{pH(S)} - \Delta\text{pH}_j = \underline{0.018}$

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 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>18/06/2014</u>	Calibration Due Date : <u>17/09/2014</u>

Temperature Verification

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

		Temperature (°C)		
Reference Thermometer reading	Measured	20.0	Corrected	19.6
DO Meter reading	Measured	19.5	Difference	0.1

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	10.20
Final Vol. of Na ₂ S ₂ O ₃ (ml)		10.20	20.35
Vol. of Na ₂ S ₂ O ₃ used (ml)		10.20	10.15
Normality of Na ₂ S ₂ O ₃ solution (N)		0.02451	0.02463
Average Normality (N) of Na ₂ S ₂ O ₃ solution (N)		0.02457	
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	23.80	0.00	7.70	12.80
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.90	23.80	31.40	7.70	12.80	17.80
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	11.90	11.90	7.60	7.70	5.10	5.00
Dissolved Oxygen (DO), mg/L	7.85	7.85	5.01	5.08	3.36	3.30
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	7.68	7.72	7.70	7.85	7.85	7.85	1.93
5	5.12	5.14	5.13	5.01	5.08	5.05	1.57
10	3.28	3.24	3.26	3.36	3.30	3.33	2.12
Linear regression coefficient				0.9979			



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 : 18/06/2014 Due Date : 17/09/2014

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

S/001/5


Salinity Standard (ppt)	Measured Salinity (ppt)	Difference %
30.0	29.7	-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 ± 2)°C
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : (55 ± 20)%

TEST SPECIFICATIONS / 測試規範

Calibration check

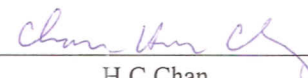
DATE OF TEST / 測試日期 : 26 May 2014

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.

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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.

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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 (August 14)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					01-Aug	02-Aug
						WQM Mid-Flood 10:25 (08:40 - 12:10) Mid-Ebb 16:38 (16:15 - 19:45)
03-Aug	04-Aug	05-Aug	06-Aug	07-Aug	08-Aug	09-Aug
		WQM Mid-Flood 14:42 (12:57 - 16:27) Mid-Ebb 20:11 (18:26 - 21:56)		WQM Mid-Ebb 10:01 (08:16 - 11:46) Mid-Flood 17:33 (15:38 - 19:08)		WQM Mid-Ebb 11:46 (10:01 - 13:31) Mid-Flood 18:55 (17:10 - 20:40)
10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug
		WQM Mid-Ebb 14:04 (12:19 - 15:49) Mid-Flood 20:52 (19:07 - 22:37)		WQM Mid-Flood 9:11 (07:26 - 10:56) Mid-Ebb 15:31 (13:45 - 17:15)		WQM Mid-Flood 11:08 (09:23 - 12:53) Mid-Ebb 16:57 (15:12 - 18:42)
17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug	23-Aug
		WQM Mid-Ebb 8:31 (06:46 - 10:16) Mid-Flood 15:58 (14:13 - 17:43)		WQM Mid-Ebb 10:35 (08:50 - 12:20) Mid-Flood 17:51 (16:06 - 19:36)		WQM Mid-Ebb 11:56 (10:11 - 13:41) Mid-Flood 18:48 (17:03 - 20:33)
24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug
		WQM Mid-Ebb 13:36 (11:51 - 15:21) Mid-Flood 20:00 (18:15 - 21:45)		WQM Mid-Flood 8:12 (06:27 - 09:57) Mid-Ebb 14:34 (12:49 - 16:19)		WQM Mid-Flood 9:31 (07:46 - 11:16) Mid-Ebb 15:38 (13:53 - 17:23)
31-Aug						

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	01-Sep	02-Sep	03-Sep	04-Sep	05-Sep	06-Sep
		WQM Mid-Flood 12:49 (11:04 - 14:34) Mid-Ebb 18:15 (16:30 - 20:00)		WQM Mid-Ebb 8:20 (06:35 - 10:05) Mid-Flood 16:07 (14:22 - 17:52)		WQM Mid-Ebb 10:33 (08:48 - 12:18) Mid-Flood 17:47 (16:02 - 19:32)
07-Sep	08-Sep	09-Sep	10-Sep	11-Sep	12-Sep	13-Sep
		WQM Mid-Ebb 12:59 (11:14 - 14:44) Mid-Flood 19:34 (17:49 - 21:19)		WQM Mid-Flood 8:13 (06:28 - 09:58) Mid-Ebb 14:25 (12:40 - 16:10)		WQM Mid-Flood 9:59 (08:14 - 11:44) Mid-Ebb 15:47 (14:02 - 17:32)
14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep
		WQM Mid-Flood 13:34 (11:49 - 15:19) Mid-Ebb 18:28 (17:10 - 19:50)		WQM Mid-Ebb 8:58 (07:13 - 10:43) Mid-Flood 16:47 (15:02 - 18:32)		WQM Mid-Ebb 10:48 (09:03 - 12:33) Mid-Flood 17:42 (15:57 - 19:27)
21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep
		WQM Mid-Ebb 12:35 (10:50 - 14:20) Mid-Flood 18:50 (17:05 - 20:35)		WQM Mid-Ebb 13:37 (11:52 - 15:22) Mid-Flood 19:37 (17:52 - 21:22)		WQM Mid-Flood 8:44 (06:59 - 10:29) Mid-Ebb 14:43 (12:58 - 16:28)
28-Sep	29-Sep	30-Sep				
		WQM Mid-Flood 11:28 (09:43 - 13:13) Mid-Ebb 17:00 (15:15 - 18:45)				

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

Noise Monitoring at rooftop of Pak Mong Village Watch Tower

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

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 August to 31 August 2014)**

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					01-Aug	02-Aug
03-Aug	04-Aug	05-Aug	06-Aug	07-Aug	08-Aug	09-Aug
	1-hour TSP - 3 times 24-hour TSP - 1 time <i>Impact AQM</i>				1-hour TSP - 3 times 24-hour TSP - 1 time <i>Impact AQM</i>	
10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug
				1-hour TSP - 3 times 24-hour TSP - 1 time <i>Impact AQM</i>		
17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug	23-Aug
			1-hour TSP - 3 times 24-hour TSP - 1 time <i>Impact AQM</i>			
24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug
		1-hour TSP - 3 times 24-hour TSP - 1 time <i>Impact AQM</i>				
31-Aug						

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 September to 30 September 2014)**

Noise Monitoring at rooftop of Pak Mong Village Watch Tower

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

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 September to 30 September 2014)**

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

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

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 August to 31 August 2014)**

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

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 September to 30 September 2014)

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

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	2014-08-04	ASR8A	8:40	1-hr TSP	94	394	500
TMCLKL	HY/2012/07	2014-08-04	ASR8A	9:42	1-hr TSP	65		
TMCLKL	HY/2012/07	2014-08-04	ASR8A	10:44	1-hr TSP	90		
TMCLKL	HY/2012/07	2014-08-08	ASR8A	8:40	1-hr TSP	58		
TMCLKL	HY/2012/07	2014-08-08	ASR8A	9:42	1-hr TSP	43		
TMCLKL	HY/2012/07	2014-08-08	ASR8A	10:44	1-hr TSP	66		
TMCLKL	HY/2012/07	2014-08-14	ASR8A	8:30	1-hr TSP	58		
TMCLKL	HY/2012/07	2014-08-14	ASR8A	9:32	1-hr TSP	59		
TMCLKL	HY/2012/07	2014-08-14	ASR8A	10:34	1-hr TSP	71		
TMCLKL	HY/2012/07	2014-08-20	ASR8A	8:30	1-hr TSP	54		
TMCLKL	HY/2012/07	2014-08-20	ASR8A	9:32	1-hr TSP	60		
TMCLKL	HY/2012/07	2014-08-20	ASR8A	10:34	1-hr TSP	56		
TMCLKL	HY/2012/07	2014-08-26	ASR8A	8:35	1-hr TSP	65		
TMCLKL	HY/2012/07	2014-08-26	ASR8A	9:37	1-hr TSP	78		
TMCLKL	HY/2012/07	2014-08-26	ASR8A	10:39	1-hr TSP	113		
						Average		
						Min.	43	
						Max.	113	

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	2014-08-04	ASR8	8:55	1-hr TSP	116	393	500
TMCLKL	HY/2012/07	2014-08-04	ASR8	9:57	1-hr TSP	67		
TMCLKL	HY/2012/07	2014-08-04	ASR8	10:59	1-hr TSP	66		
TMCLKL	HY/2012/07	2014-08-08	ASR8	8:55	1-hr TSP	43		
TMCLKL	HY/2012/07	2014-08-08	ASR8	9:57	1-hr TSP	65		
TMCLKL	HY/2012/07	2014-08-08	ASR8	10:59	1-hr TSP	48		
TMCLKL	HY/2012/07	2014-08-14	ASR8	8:42	1-hr TSP	65		
TMCLKL	HY/2012/07	2014-08-14	ASR8	9:44	1-hr TSP	63		
TMCLKL	HY/2012/07	2014-08-14	ASR8	10:46	1-hr TSP	62		
TMCLKL	HY/2012/07	2014-08-20	ASR8	8:42	1-hr TSP	103		
TMCLKL	HY/2012/07	2014-08-20	ASR8	9:44	1-hr TSP	83		
TMCLKL	HY/2012/07	2014-08-20	ASR8	10:46	1-hr TSP	63		
TMCLKL	HY/2012/07	2014-08-26	ASR8	8:48	1-hr TSP	48		
TMCLKL	HY/2012/07	2014-08-26	ASR8	9:50	1-hr TSP	58		
TMCLKL	HY/2012/07	2014-08-26	ASR8	10:52	1-hr TSP	62		
						Average		
						Min.	43	
						Max.	116	

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

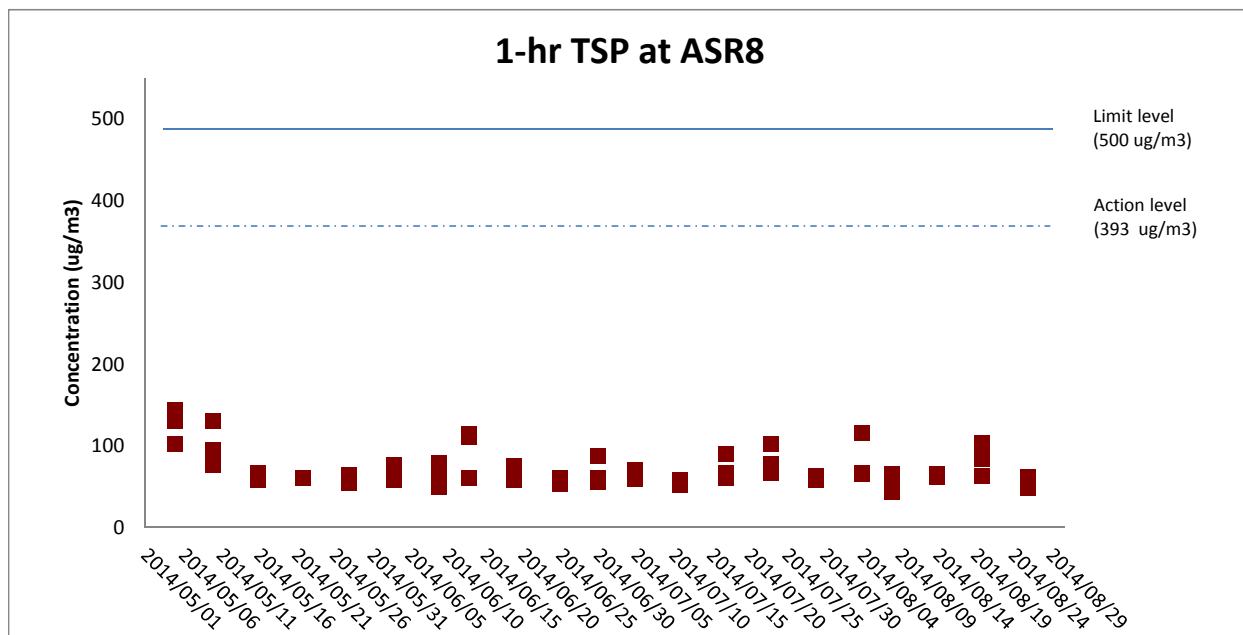
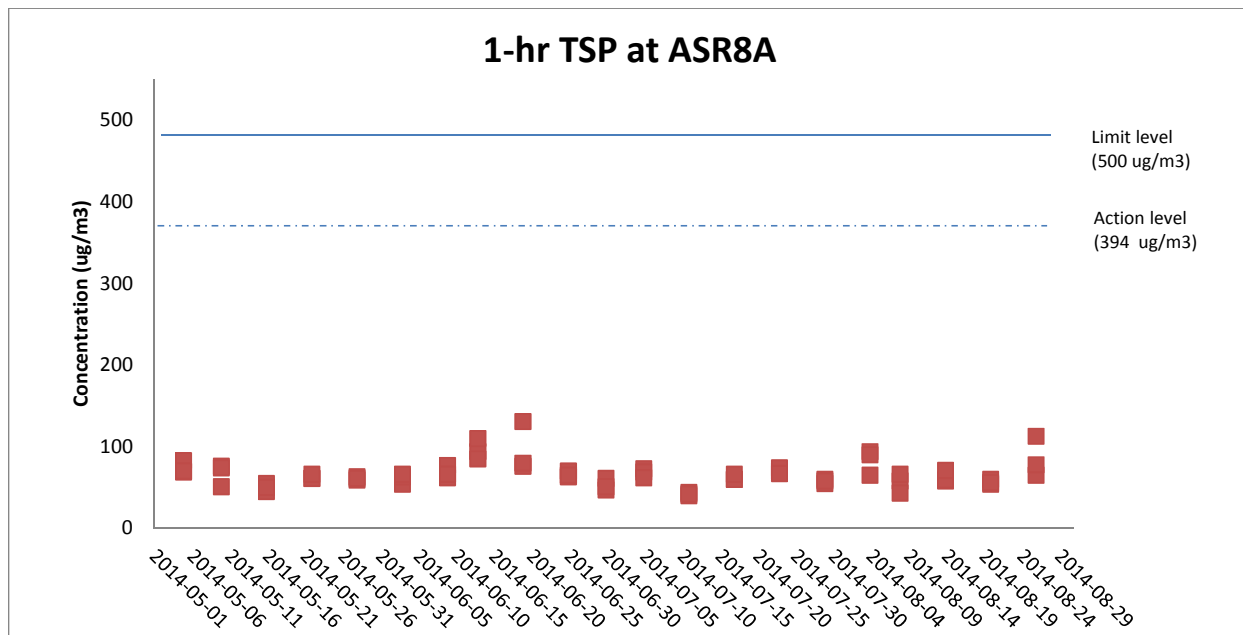
Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2014-08-04	ASR8A	11:46	24-hr TSP	41	178	260
TMCLKL	HY/2012/07	2014-08-08	ASR8A	11:46	24-hr TSP	43		
TMCLKL	HY/2012/07	2014-08-14	ASR8A	11:38	24-hr TSP	43		
TMCLKL	HY/2012/07	2014-08-20	ASR8A	11:38	24-hr TSP	40		
TMCLKL	HY/2012/07	2014-08-26	ASR8A	11:41	24-hr TSP	40		
						Average		
						Min.	40	
						Max.	43	

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	2014-08-04	ASR8	12:01	24-hr TSP	42	178	260
TMCLKL	HY/2012/07	2014-08-08	ASR8	12:01	24-hr TSP	42		
TMCLKL	HY/2012/07	2014-08-14	ASR8	11:48	24-hr TSP	41		
TMCLKL	HY/2012/07	2014-08-20	ASR8	11:48	24-hr TSP	45		
TMCLKL	HY/2012/07	2014-08-26	ASR8	11:54	24-hr TSP	44		
						Average		
						Min.	41	
						Max.	45	

Action Level Exceedance

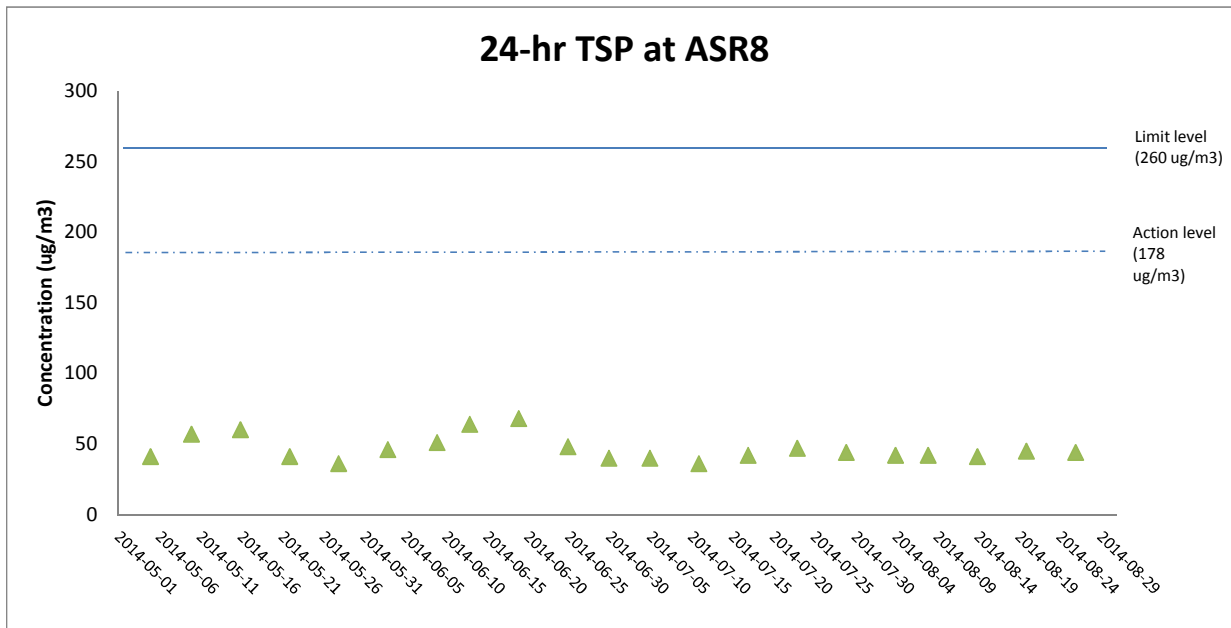
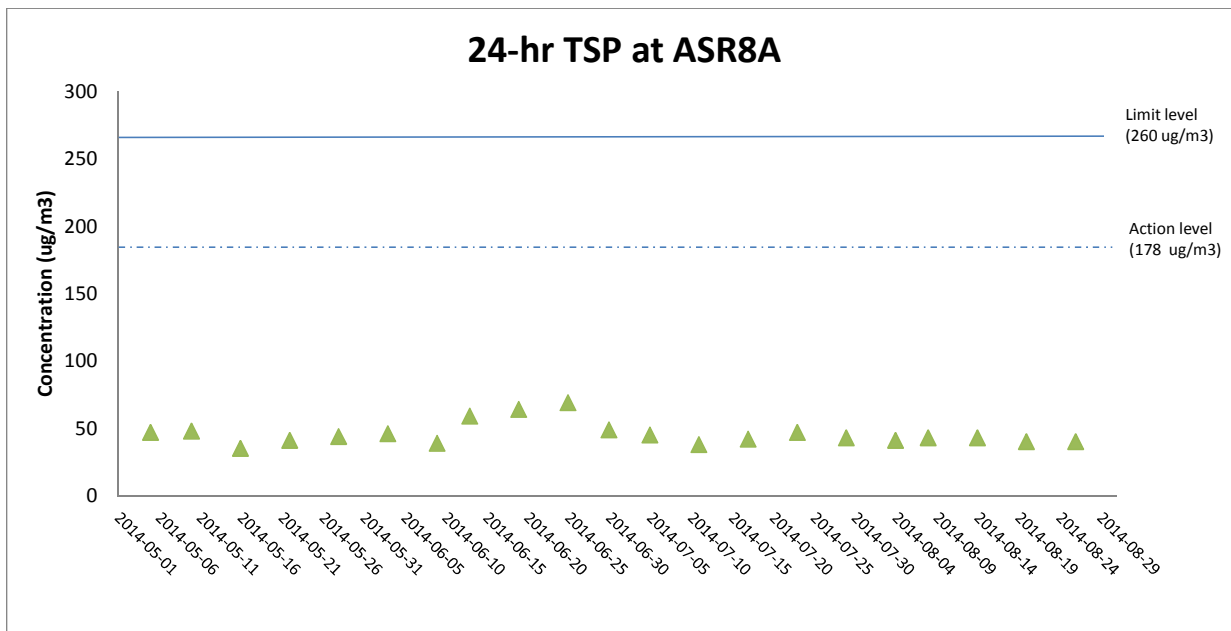
Limit Level Exceedance



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; fence installation and relocation of Area 2, Viaducts A, B, C & D; land piling at Viaduct B; piling platform installation for Viaducts B, C, D and E; 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; marine Piling at Viaducts B, D & E; construction of rockfill platform at Viaduct D landing; 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; fence installation and relocation of Area 2, Viaducts A, B, C & D; land piling at Viaduct B; piling platform installation for Viaducts B, C, D and E; 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; marine Piling at Viaducts B, D & E; construction of rockfill platform at Viaduct D landing; 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)
04-08-2014	12:00:00 AM	0.03	215
04-08-2014	1:00:00 AM	0.02	196
04-08-2014	2:00:00 AM	0.04	201
04-08-2014	3:00:00 AM	0.08	196
04-08-2014	4:00:00 AM	0.02	204
04-08-2014	5:00:00 AM	0.03	158
04-08-2014	6:00:00 AM	0.05	167
04-08-2014	7:00:00 AM	0.04	205
04-08-2014	8:00:00 AM	0.18	163
04-08-2014	9:00:00 AM	0.05	188
04-08-2014	10:00:00 AM	0.09	168
04-08-2014	11:00:00 AM	0.16	126
04-08-2014	12:00:00 PM	0.21	232
04-08-2014	1:00:00 PM	0.02	232
04-08-2014	2:00:00 PM	0.07	126
04-08-2014	3:00:00 PM	0.02	280
04-08-2014	4:00:00 PM	0.09	132
04-08-2014	5:00:00 PM	0.12	106
04-08-2014	6:00:00 PM	0.02	149
04-08-2014	7:00:00 PM	0.04	150
04-08-2014	8:00:00 PM	0.02	167
04-08-2014	9:00:00 PM	0.07	152
04-08-2014	10:00:00 PM	0.02	225
04-08-2014	11:00:00 PM	0.02	139
05-08-2014	12:00:00 AM	0.03	221
05-08-2014	1:00:00 AM	0.03	205
05-08-2014	2:00:00 AM	0.02	111
05-08-2014	3:00:00 AM	0.02	190
05-08-2014	4:00:00 AM	0.16	207
05-08-2014	5:00:00 AM	0.02	224
05-08-2014	6:00:00 AM	0.02	208
05-08-2014	7:00:00 AM	0.02	156
05-08-2014	8:00:00 AM	0.02	56
05-08-2014	9:00:00 AM	0.23	122
05-08-2014	10:00:00 AM	0.03	197
05-08-2014	11:00:00 AM	0.04	146
05-08-2014	12:00:00 PM	0.15	142
05-08-2014	1:00:00 PM	0.31	131
05-08-2014	2:00:00 PM	0.51	112
05-08-2014	3:00:00 PM	0.31	129
05-08-2014	4:00:00 PM	0.41	140
05-08-2014	5:00:00 PM	0.43	153
05-08-2014	6:00:00 PM	0.11	157
05-08-2014	7:00:00 PM	0.09	141
05-08-2014	8:00:00 PM	0.02	124
05-08-2014	9:00:00 PM	0.02	113
05-08-2014	10:00:00 PM	0.15	138
05-08-2014	11:00:00 PM	0.03	151
08-08-2014	12:00:00 AM	0.02	142
08-08-2014	1:00:00 AM	0.05	200

Date	Time	Wind speed (m/s)	Wind direction (deg)
08-08-2014	2:00:00 AM	0.02	171
08-08-2014	3:00:00 AM	0.06	193
08-08-2014	4:00:00 AM	0.04	184
08-08-2014	5:00:00 AM	0.05	141
08-08-2014	6:00:00 AM	0.04	176
08-08-2014	7:00:00 AM	0.01	88
08-08-2014	8:00:00 AM	0.12	125
08-08-2014	9:00:00 AM	0.30	104
08-08-2014	10:00:00 AM	0.11	99
08-08-2014	11:00:00 AM	0.41	135
08-08-2014	12:00:00 PM	0.39	85
08-08-2014	1:00:00 PM	0.08	141
08-08-2014	2:00:00 PM	0.31	172
08-08-2014	3:00:00 PM	0.12	224
08-08-2014	4:00:00 PM	0.31	205
08-08-2014	5:00:00 PM	0.05	207
08-08-2014	6:00:00 PM	0.09	159
08-08-2014	7:00:00 PM	0.02	232
08-08-2014	8:00:00 PM	0.10	112
08-08-2014	9:00:00 PM	0.07	165
08-08-2014	10:00:00 PM	0.08	181
08-08-2014	11:00:00 PM	0.10	123
09-08-2014	12:00:00 AM	0.02	126
09-08-2014	1:00:00 AM	0.08	206
09-08-2014	2:00:00 AM	0.03	177
09-08-2014	3:00:00 AM	0.07	153
09-08-2014	4:00:00 AM	0.03	167
09-08-2014	5:00:00 AM	0.02	179
09-08-2014	6:00:00 AM	0.02	191
09-08-2014	7:00:00 AM	0.03	144
09-08-2014	8:00:00 AM	0.10	205
09-08-2014	9:00:00 AM	0.37	301
09-08-2014	10:00:00 AM	0.32	225
09-08-2014	11:00:00 AM	0.12	167
09-08-2014	12:00:00 PM	0.13	171
09-08-2014	1:00:00 PM	0.23	138
09-08-2014	2:00:00 PM	0.13	162
09-08-2014	3:00:00 PM	0.16	237
09-08-2014	4:00:00 PM	0.29	84
09-08-2014	5:00:00 PM	0.23	184
09-08-2014	6:00:00 PM	0.16	124
09-08-2014	7:00:00 PM	0.24	108
09-08-2014	8:00:00 PM	0.06	137
09-08-2014	9:00:00 PM	0.36	113
09-08-2014	10:00:00 PM	0.14	148
09-08-2014	11:00:00 PM	0.24	196
14-08-2014	12:00:00 AM	0.25	149
14-08-2014	1:00:00 AM	0.22	147
14-08-2014	2:00:00 AM	0.06	131
14-08-2014	3:00:00 AM	0.02	154

Date	Time	Wind speed (m/s)	Wind direction (deg)
14-08-2014	4:00:00 AM	0.10	133
14-08-2014	5:00:00 AM	0.13	116
14-08-2014	6:00:00 AM	0.23	101
14-08-2014	7:00:00 AM	0.06	135
14-08-2014	8:00:00 AM	0.29	76
14-08-2014	9:00:00 AM	0.25	128
14-08-2014	10:00:00 AM	0.49	109
14-08-2014	11:00:00 AM	0.26	117
14-08-2014	12:00:00 PM	0.12	179
14-08-2014	1:00:00 PM	0.02	206
14-08-2014	2:00:00 PM	0.34	213
14-08-2014	3:00:00 PM	0.15	129
14-08-2014	4:00:00 PM	0.09	150
14-08-2014	5:00:00 PM	0.28	204
14-08-2014	6:00:00 PM	0.12	193
14-08-2014	7:00:00 PM	0.07	173
14-08-2014	8:00:00 PM	0.02	195
14-08-2014	9:00:00 PM	0.05	205
14-08-2014	10:00:00 PM	0.06	190
14-08-2014	11:00:00 PM	0.07	146
15-08-2014	12:00:00 AM	0.07	197
15-08-2014	1:00:00 AM	0.02	218
15-08-2014	2:00:00 AM	0.09	182
15-08-2014	3:00:00 AM	0.13	192
15-08-2014	4:00:00 AM	0.02	201
15-08-2014	5:00:00 AM	0.04	167
15-08-2014	6:00:00 AM	0.05	181
15-08-2014	7:00:00 AM	0.02	112
15-08-2014	8:00:00 AM	0.20	138
15-08-2014	9:00:00 AM	0.20	157
15-08-2014	10:00:00 AM	0.57	150
15-08-2014	11:00:00 AM	0.40	35
15-08-2014	12:00:00 PM	0.12	141
15-08-2014	1:00:00 PM	0.20	153
15-08-2014	2:00:00 PM	0.16	205
15-08-2014	3:00:00 PM	0.16	147
15-08-2014	4:00:00 PM	0.16	138
15-08-2014	5:00:00 PM	0.32	98
15-08-2014	6:00:00 PM	0.09	167
15-08-2014	7:00:00 PM	0.24	160
15-08-2014	8:00:00 PM	0.09	184
15-08-2014	9:00:00 PM	0.02	201
15-08-2014	10:00:00 PM	0.02	176
15-08-2014	11:00:00 PM	0.02	154
20-08-2014	12:00:00 AM	0.02	145
20-08-2014	1:00:00 AM	0.03	171
20-08-2014	2:00:00 AM	0.45	147
20-08-2014	3:00:00 AM	0.25	130
20-08-2014	4:00:00 AM	0.08	150
20-08-2014	5:00:00 AM	0.16	136

Date	Time	Wind speed (m/s)	Wind direction (deg)
20-08-2014	6:00:00 AM	0.03	169
20-08-2014	7:00:00 AM	0.02	153
20-08-2014	8:00:00 AM	0.02	151
20-08-2014	9:00:00 AM	0.46	98
20-08-2014	10:00:00 AM	0.79	107
20-08-2014	11:00:00 AM	1.34	94
20-08-2014	12:00:00 PM	0.26	171
20-08-2014	1:00:00 PM	0.52	152
20-08-2014	2:00:00 PM	0.57	115
20-08-2014	3:00:00 PM	0.34	127
20-08-2014	4:00:00 PM	0.02	198
20-08-2014	5:00:00 PM	0.11	129
20-08-2014	6:00:00 PM	0.08	145
20-08-2014	7:00:00 PM	0.18	163
20-08-2014	8:00:00 PM	0.32	129
20-08-2014	9:00:00 PM	0.23	154
20-08-2014	10:00:00 PM	0.40	155
20-08-2014	11:00:00 PM	0.16	147
21-08-2014	12:00:00 AM	0.22	201
21-08-2014	1:00:00 AM	0.14	218
21-08-2014	2:00:00 AM	0.28	164
21-08-2014	3:00:00 AM	0.04	136
21-08-2014	4:00:00 AM	0.06	179
21-08-2014	5:00:00 AM	0.15	149
21-08-2014	6:00:00 AM	0.02	136
21-08-2014	7:00:00 AM	0.09	126
21-08-2014	8:00:00 AM	0.41	143
21-08-2014	9:00:00 AM	0.59	124
21-08-2014	10:00:00 AM	0.94	97
21-08-2014	11:00:00 AM	0.96	90
21-08-2014	12:00:00 PM	0.67	167
21-08-2014	1:00:00 PM	1.05	114
21-08-2014	2:00:00 PM	1.26	86
21-08-2014	3:00:00 PM	1.10	157
21-08-2014	4:00:00 PM	0.86	140
21-08-2014	5:00:00 PM	0.56	93
21-08-2014	6:00:00 PM	0.27	103
21-08-2014	7:00:00 PM	0.38	167
21-08-2014	8:00:00 PM	0.03	127
21-08-2014	9:00:00 PM	0.08	165
21-08-2014	10:00:00 PM	0.13	200
21-08-2014	11:00:00 PM	0.13	166
26-08-2014	12:00:00 AM	0.08	125
26-08-2014	1:00:00 AM	0.09	175
26-08-2014	2:00:00 AM	0.05	194
26-08-2014	3:00:00 AM	0.02	159
26-08-2014	4:00:00 AM	0.04	161
26-08-2014	5:00:00 AM	0.04	121
26-08-2014	6:00:00 AM	0.02	143
26-08-2014	7:00:00 AM	0.02	134

Date	Time	Wind speed (m/s)	Wind direction (deg)
26-08-2014	8:00:00 AM	0.08	176
26-08-2014	9:00:00 AM	0.38	73
26-08-2014	10:00:00 AM	0.51	75
26-08-2014	11:00:00 AM	0.21	117
26-08-2014	12:00:00 PM	0.63	99
26-08-2014	1:00:00 PM	0.32	107
26-08-2014	2:00:00 PM	0.60	113
26-08-2014	3:00:00 PM	0.41	121
26-08-2014	4:00:00 PM	0.39	152
26-08-2014	5:00:00 PM	0.57	142
26-08-2014	6:00:00 PM	0.23	110
26-08-2014	7:00:00 PM	0.36	103
26-08-2014	8:00:00 PM	0.07	103
26-08-2014	9:00:00 PM	0.05	108
26-08-2014	10:00:00 PM	0.19	103
26-08-2014	11:00:00 PM	0.06	97
27-08-2014	12:00:00 AM	0.16	115
27-08-2014	1:00:00 AM	0.23	108
27-08-2014	2:00:00 AM	0.07	91
27-08-2014	3:00:00 AM	0.47	80
27-08-2014	4:00:00 AM	0.12	100
27-08-2014	5:00:00 AM	0.04	100
27-08-2014	6:00:00 AM	0.39	116
27-08-2014	7:00:00 AM	0.31	120
27-08-2014	8:00:00 AM	0.58	111
27-08-2014	9:00:00 AM	0.24	99
27-08-2014	10:00:00 AM	0.70	101
27-08-2014	11:00:00 AM	0.70	62
27-08-2014	12:00:00 PM	0.89	106
27-08-2014	1:00:00 PM	1.00	117
27-08-2014	2:00:00 PM	1.17	116
27-08-2014	3:00:00 PM	1.37	108
27-08-2014	4:00:00 PM	1.24	90
27-08-2014	5:00:00 PM	0.81	89
27-08-2014	6:00:00 PM	0.42	127
27-08-2014	7:00:00 PM	0.70	79
27-08-2014	8:00:00 PM	1.37	104
27-08-2014	9:00:00 PM	1.20	118
27-08-2014	10:00:00 PM	0.30	108
27-08-2014	11:00:00 PM	0.19	103

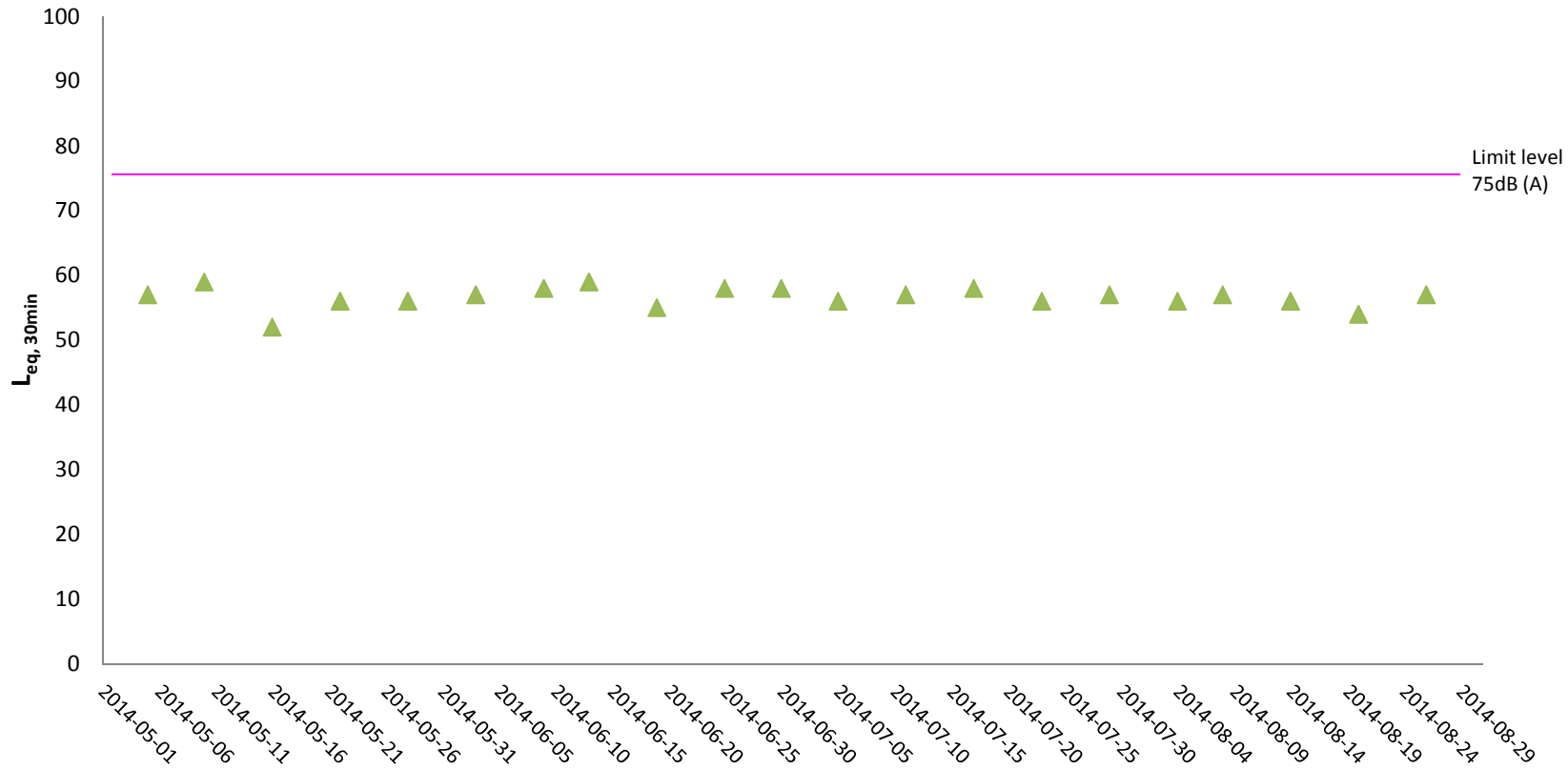
Appendix I

Impact Noise Monitoring Results and Graphical Presentation

Appendix II 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	2014-08-04	NSR1	Sunny	11:06	56	59	52	75	28	0.3	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-08-08	NSR1	Sunny	11:10	57	59	54	75	29	0.3	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-08-14	NSR1	Fine	10:50	56	58	52	75	27	0.3	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-08-20	NSR1	Couldy	9:50	54	55	52	75	24	1.5	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-08-26	NSR1	Sunny	9:55	57	61	50	75	28	0.3	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
						Min.	54						
						Max.	57						
						Average	56						

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; fence installation and relocation of Area 2, Viaducts A, B, C & D; land piling at Viaduct B; piling platform installation for Viaducts B, C, D and E; 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; marine Piling at Viaducts B, D & E; construction of rockfill platform at Viaduct D landing; 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	2014-08-02	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	09:10	28.2	7.88	18.5	6.2	3.9	2.8	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	09:10	28.1	7.87	18.4	6.2	3.8	2.6	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.9	2	1	09:10	28	7.86	18.6	5.9	3.6	4.6	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.9	2	2	09:10	28	7.87	18.6	5.9	3.6	4.4	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.8	3	1	09:10	28.1	7.88	18.5	5.9	4.0	5.1	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.8	3	2	09:10	28	7.88	18.6	5.8	4.1	5.6	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	09:40	28.2	7.86	18.4	6.0	4.1	3.7	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	09:40	28.2	7.87	18.3	6.1	4.1	4	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	SR4a	Middle		2	1	09:40							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	SR4a	Middle		2	2	09:40							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	SR4a	Bottom	4.8	3	1	09:40	28.1	7.89	18.4	5.7	4.5	8.7	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	SR4a	Bottom	4.8	3	2	09:40	28	7.88	18.4	5.8	4.5	8.5	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	SR4	Surface	1	1	1	10:15	28.3	7.86	18.4	6.1	4.3	1.9	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	SR4	Surface	1	1	2	10:15	28.3	7.86	18.4	6.1	4.3	1.9	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	SR4	Middle		2	1	10:15							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	SR4	Middle		2	2	10:15							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	SR4	Bottom	4.4	3	1	10:15	28	7.88	18.6	5.9	4.8	2.5	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	SR4	Bottom	4.4	3	2	10:15	28.1	7.87	18.5	6.0	4.8	3.4	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS8	Surface	1	1	1	10:40	28.3	7.89	18.4	6.1	4.0	3.2	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS8	Surface	1	1	2	10:40	28.2	7.89	18.3	6.1	4.0	3.2	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS8	Middle		2	1	10:40							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS8	Middle		2	2	10:40							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS8	Bottom	4.2	3	1	10:40	28	7.9	18.5	5.8	5.0	3	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS8	Bottom	4.2	3	2	10:40	28.1	7.91	18.5	5.8	5.0	3.6	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	11:00	28.3	7.88	18.5	6.2	4.2	4	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	11:00	28.4	7.87	18.4	6.2	4.2	4	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.2	2	1	11:00	28.1	7.9	18.6	6.0	4.9	3.9	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.2	2	2	11:00	28.1	7.91	18.5	5.9	4.8	4	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.4	3	1	11:00	28	7.91	18.6	5.9	4.7	4.1	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.4	3	2	11:00	28	7.91	18.6	5.9	4.6	5.2	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	11:30	28.2	7.89	18.4	6.0	4.1	4	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	11:30	28.3	7.88	18.3	6.1	4.0	4.1	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	11:30							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	11:30							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.6	3	1	11:30	28.1	7.88	18.5	5.6	4.6	4	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.6	3	2	11:30	28	7.87	18.5	5.7	4.5	3.8	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	11:50	28.3	7.89	18.5	6.2	3.8	2.2	2014-08-12

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	2014-08-02	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	11:50	28.3	7.88	18.4	6.1	3.8	2.1	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.7	2	1	11:50	28.1	7.89	18.6	5.8	4.3	3	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.7	2	2	11:50	28.1	7.89	18.6	5.8	4.3	2.5	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.4	3	1	11:50	28	7.9	18.6	5.7	4.3	5.9	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.4	3	2	11:50	28.1	7.9	18.5	5.6	4.3	5.6	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	16:15	28.4	7.86	18.5	6.3	3.7	2.9	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	16:15	28.4	7.86	18.4	6.3	3.6	2.9	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.4	2	1	16:15	28.2	7.85	18.7	5.9	4.0	2.5	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.4	2	2	16:15	28.2	7.85	18.7	5.9	3.9	2.7	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	9.8	3	1	16:15	28.1	7.87	18.8	5.8	4.1	3	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	9.8	3	2	16:15	28.1	7.86	18.7	5.8	4.0	2.9	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	SR4a	Surface	1	1	1	18:25	28.3	7.89	18.3	6.2	4.1	2.3	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	SR4a	Surface	1	1	2	18:25	28.3	7.88	18.4	6.2	4.0	2	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	SR4a	Middle		2	1	18:25							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	SR4a	Middle		2	2	18:25							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	SR4a	Bottom	4.4	3	1	18:25	28.2	7.89	18.5	5.9	4.6	2.5	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	SR4a	Bottom	4.4	3	2	18:25	28.2	7.88	18.4	5.9	4.5	2.7	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	SR4	Surface	1	1	1	17:45	28.4	7.84	18.3	6.2	4.1	3.6	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	SR4	Surface	1	1	2	17:45	28.4	7.86	18.2	6.2	4.1	3.6	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	SR4	Middle		2	1	17:45							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	SR4	Middle		2	2	17:45							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	SR4	Bottom	3.8	3	1	17:45	28.2	7.89	18.5	5.9	4.6	4.8	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	SR4	Bottom	3.8	3	2	17:45	28.1	7.87	18.6	5.9	4.5	4.7	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS8	Surface	1	1	1	17:25	28.5	7.88	18.4	6.3	4.1	2.4	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS8	Surface	1	1	2	17:25	28.5	7.88	18.4	6.3	4.2	2.1	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS8	Middle		2	1	17:25							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS8	Middle		2	2	17:25							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS8	Bottom	3.6	3	1	17:25	28.1	7.86	18.6	6.0	4.4	2.8	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS8	Bottom	3.6	3	2	17:25	28.1	7.85	18.6	6.1	4.4	2.7	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	17:05	28.5	7.87	18.4	6.3	4.3	1.9	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	17:05	28.4	7.88	18.4	6.3	4.4	1.7	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS(Mf)16	Middle	3.9	2	1	17:05	28.3	7.88	18.5	6.0	4.1	2.9	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS(Mf)16	Middle	3.9	2	2	17:05	28.2	7.87	18.4	6.0	4.1	2.8	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	6.8	3	1	17:05	28.1	7.88	18.7	5.9	4.2	3.6	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	6.8	3	2	17:05	28.1	7.88	18.8	5.9	4.3	4.1	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	16:40	28.5	7.87	18.4	6.2	3.9	3.3	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	16:40	28.5	7.88	18.4	6.2	3.9	3.2	2014-08-12

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	2014-08-02	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	16:40							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	16:40							2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4.2	3	1	16:40	28.1	7.87	18.5	5.8	4.1	4.3	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4.2	3	2	16:40	28.2	7.86	18.5	5.8	4.1	3.6	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	18:55	28.3	7.88	18.4	6.3	3.9	2.2	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	18:55	28.3	7.87	18.4	6.3	3.9	2.4	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.9	2	1	18:55	28.2	7.89	18.6	6.0	3.7	1.9	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.9	2	2	18:55	28.2	7.88	18.7	6.0	3.7	2	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.2	3	1	18:55	28.1	7.89	18.7	5.9	4.4	2.7	2014-08-12
TMCLKL	HY/2012/07	2014-08-02	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.2	3	2	18:55	28.1	7.89	18.7	6.0	4.4	2.5	2014-08-12
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	12:57	28.7	7.61	19.4	5.9	4.1	3.8	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	12:57	28.8	7.57	19.3	6.0	4.2	3.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	CS(Mf)5	Middle	5.2	2	1	12:57	28.6	7.65	19.4	5.8	4.2	4.9	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	CS(Mf)5	Middle	5.2	2	2	12:57	28.5	7.67	19.5	5.8	4.2	4.5	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	CS(Mf)5	Bottom	9.4	3	1	12:57	28.4	7.7	19.5	5.8	4.3	5.3	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	CS(Mf)5	Bottom	9.4	3	2	12:57	28.3	7.72	19.4	5.7	4.3	5.6	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	13:32	28.6	7.63	19.3	5.9	4.0	4.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	13:32	28.7	7.65	19.4	5.9	4.1	4.7	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	SR4a	Middle		2	1	13:32							2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	SR4a	Middle		2	2	13:32							2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	SR4a	Bottom	4.6	3	1	13:32	28.4	7.7	19.5	5.7	4.2	6.1	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	SR4a	Bottom	4.6	3	2	13:32	28.5	7.71	19.4	5.7	4.2	6	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	SR4	Surface	1	1	1	14:01	28.6	7.65	19.2	5.8	4.2	4.5	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	SR4	Surface	1	1	2	14:01	28.5	7.63	19.1	5.8	4.2	5.1	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	SR4	Middle		2	1	14:01							2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	SR4	Middle		2	2	14:01							2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	SR4	Bottom	4.4	3	1	14:01	28.4	7.66	19.3	5.6	4.3	6.2	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	SR4	Bottom	4.4	3	2	14:01	28.3	7.67	19.4	5.6	4.3	6.5	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	IS8	Surface	1	1	1	14:31	28.5	7.59	19.2	5.7	4.3	4.5	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	IS8	Surface	1	1	2	14:31	28.6	7.58	19.3	5.7	4.3	5	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	IS8	Middle		2	1	14:31							2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	IS8	Middle		2	2	14:31							2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	IS8	Bottom	4.6	3	1	14:31	28.5	7.65	19.5	5.4	4.4	5.6	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	IS8	Bottom	4.6	3	2	14:31	28.4	7.63	19.4	5.4	4.4	5.6	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	15:01	28.4	7.58	19.2	5.8	4.4	5.8	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	15:01	28.5	7.6	19.3	5.8	4.4	6.3	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.5	2	1	15:01	28.5	7.63	19.4	5.7	4.5	6.1	2014-08-18

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	2014-08-05	Mid-Ebb	Cloudy	IS8	Bottom	4	3	1	19:53	28.3	7.56	19.4	5.3	4.5	7.8	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	IS8	Bottom	4	3	2	19:53	28.4	7.54	19.3	5.3	4.5	7.1	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	19:22	28.3	7.52	19.1	5.7	4.5	3.3	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	19:22	28.4	7.51	19.2	5.7	4.4	3.7	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.4	2	1	19:22	28.4	7.54	19.3	5.6	4.5	5.1	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.4	2	2	19:22	28.3	7.56	19.2	5.6	4.5	5.2	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.7	3	1	19:22	28.3	7.62	19.4	5.4	4.7	6	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.7	3	2	19:22	28.2	7.58	19.3	5.4	4.7	6.1	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	18:59	28.4	7.57	19.3	5.7	4.3	3.5	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	18:59	28.3	7.55	19.4	5.7	4.4	3.1	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	18:59							2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	18:59							2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	1	18:59	28.4	7.64	19.4	5.5	4.5	3.7	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	2	18:59	28.2	7.61	19.5	5.5	4.5	4.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	21:10	28.7	7.55	19.3	5.8	4.2	4.9	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	21:10	28.6	7.51	19.2	5.9	4.2	4.5	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.9	2	1	21:10	28.5	7.59	19.4	5.7	4.3	4.9	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.9	2	2	21:10	28.5	7.61	19.3	5.7	4.3	5	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.8	3	1	21:10	28.3	7.64	19.3	5.7	4.4	6.7	2014-08-18
TMCLKL	HY/2012/07	2014-08-05	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.8	3	2	21:10	28.2	7.66	19.4	5.6	4.4	6.9	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	15:38	28.4	7.85	18.5	6.2	4.9	3.1	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	15:38	28.5	7.84	18.5	6.2	4.8	3	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.8	2	1	15:38	28.3	7.84	18.5	5.9	4.6	3.8	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.8	2	2	15:38	28.2	7.85	18.6	5.9	4.6	3.6	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.6	3	1	15:38	28.1	7.88	18.8	6.0	4.2	4.1	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.6	3	2	15:38	28	7.89	18.9	5.9	4.2	4	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	16:03	28.2	7.86	18.6	6.0	4.1	4.2	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	16:03	28.3	7.87	18.5	6.1	4.1	3.9	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	SR4a	Middle		2	1	16:03							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	SR4a	Middle		2	2	16:03							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	SR4a	Bottom	4.8	3	1	16:03	28.1	7.88	18.9	5.7	4.5	5	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	SR4a	Bottom	4.8	3	2	16:03	28.2	7.86	18.7	5.7	4.5	4.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	SR4	Surface	1	1	1	16:28	28.4	7.88	18.5	6.1	4.3	2.7	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	SR4	Surface	1	1	2	16:28	28.5	7.86	18.5	6.1	4.3	2.8	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	SR4	Middle		2	1	16:28							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	SR4	Middle		2	2	16:28							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	SR4	Bottom	4.2	3	1	16:28	28.2	7.86	18.7	5.9	4.8	5	2014-08-18

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	2014-08-07	Mid-Flood	Cloudy	SR4	Bottom	4.2	3	2	16:28	28.3	7.85	18.8	5.9	4.7	4.8	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS8	Surface	1	1	1	16:49	28.3	7.85	18.4	6.0	4.3	4.2	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS8	Surface	1	1	2	16:49	28.3	7.86	18.5	6.1	4.3	4.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS8	Middle		2	1	16:49							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS8	Middle		2	2	16:49							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS8	Bottom	4.4	3	1	16:49	28.2	7.9	18.6	5.8	4.9	4.6	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS8	Bottom	4.4	3	2	16:49	28.1	7.91	18.7	5.8	5.0	4.1	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	17:14	28.5	7.87	18.6	6.2	4.2	3.8	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	17:14	28.6	7.88	18.6	6.2	4.2	4.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.3	2	1	17:14	28.3	7.89	18.7	6.0	4.9	4.7	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.3	2	2	17:14	28.3	7.9	18.8	5.9	4.8	5.8	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.5	3	1	17:14	28.1	7.91	18.8	5.9	4.7	6.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.5	3	2	17:14	28.2	7.9	18.8	5.8	4.6	6	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	17:43	28.4	7.86	18.5	6.0	4.0	4.9	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	17:43	28.4	7.85	18.6	6.0	4.0	5.2	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	17:43							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	17:43							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.6	3	1	17:43	28.2	7.85	18.6	5.6	4.6	6	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.6	3	2	17:43	28.1	7.84	18.7	5.6	4.5	5	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	18:09	28.5	7.84	18.5	6.2	4.0	2.8	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	18:09	28.5	7.83	18.4	6.1	4.0	2.1	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.5	2	1	18:09	28.3	7.83	18.5	5.8	4.3	3.6	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.5	2	2	18:09	28.3	7.81	18.6	5.8	4.2	3.9	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10	3	1	18:09	28.1	7.81	18.7	5.7	4.3	4.2	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10	3	2	18:09	28.1	7.81	18.8	5.6	4.3	4.7	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	08:43	28.3	7.8	18.4	6.1	4.1	4.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	08:43	28.4	7.79	18.3	6.1	4.1	4.3	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.4	2	1	08:43	28.2	7.79	18.5	5.7	4.3	4.1	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.4	2	2	08:43	28.1	7.79	18.6	5.7	4.3	4.7	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	9.8	3	1	08:43	28	7.77	18.6	5.6	4.4	5.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	9.8	3	2	08:43	27.9	7.78	18.7	5.5	4.4	5.2	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	SR4a	Surface	1	1	1	10:55	28.2	7.77	18.4	6.0	4.2	5.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	SR4a	Surface	1	1	2	10:55	28.1	7.78	18.5	6.0	4.2	6.7	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	SR4a	Middle		2	1	10:55							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	SR4a	Middle		2	2	10:55							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	SR4a	Bottom	4.4	3	1	10:55	28	7.8	18.6	5.6	4.6	6.7	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	SR4a	Bottom	4.4	3	2	10:55	28.1	7.79	18.7	5.7	4.6	6	2014-08-18

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	2014-08-07	Mid-Ebb	Cloudy	SR4	Surface	1	1	1	10:27	28.4	7.77	18.4	6.0	4.4	4.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	SR4	Surface	1	1	2	10:27	28.3	7.79	18.5	6.0	4.4	4.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	SR4	Middle		2	1	10:27							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	SR4	Middle		2	2	10:27							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	SR4	Bottom	3.8	3	1	10:27	28.1	7.79	18.7	5.8	4.9	4.5	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	SR4	Bottom	3.8	3	2	10:27	28.2	7.78	18.6	5.9	4.8	4.3	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS8	Surface	1	1	1	10:01	28.2	7.8	18.4	6.0	4.4	3.8	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS8	Surface	1	1	2	10:01	28.3	7.81	18.3	6.0	4.4	3.7	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS8	Middle		2	1	10:01							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS8	Middle		2	2	10:01							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS8	Bottom	4	3	1	10:01	28.1	7.81	18.5	5.7	5.0	3.8	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS8	Bottom	4	3	2	10:01	28	7.82	18.6	5.7	5.0	3.5	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	09:35	28.5	7.79	18.5	6.1	4.3	3.1	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	09:35	28.4	7.8	18.6	6.1	4.3	3.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.1	2	1	09:35	28.2	7.81	18.6	5.9	4.9	4.6	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.1	2	2	09:35	28.1	7.82	18.7	5.9	4.9	4.9	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.2	3	1	09:35	28	7.83	18.7	5.8	4.7	5.9	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.2	3	2	09:35	28.1	7.82	18.6	5.8	4.7	6	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	09:09	28.3	7.8	18.4	5.9	4.1	4.2	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	09:09	28.3	7.79	18.5	6.0	4.1	4.4	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	09:09							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	09:09							2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4.4	3	1	09:09	28.1	7.79	18.6	5.5	4.6	4.8	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4.4	3	2	09:09	28	7.78	18.5	5.6	4.6	4.8	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	11:26	28.3	7.79	18.5	6.2	4.9	2.2	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	11:26	28.2	7.78	18.6	6.1	4.9	2	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.6	2	1	11:26	28.1	7.77	18.7	5.9	4.7	3.7	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.6	2	2	11:26	28	7.78	18.6	5.8	4.7	3.9	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.2	3	1	11:26	28	7.79	18.7	5.9	4.2	3.6	2014-08-18
TMCLKL	HY/2012/07	2014-08-07	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.2	3	2	11:26	27.9	7.8	18.8	5.8	4.3	3.6	2014-08-18
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	17:10	28.7	7.82	19.3	6.1	4.2	3.6	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	17:10	28.6	7.86	19.3	6.2	4.2	3.5	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	CS(Mf)5	Middle	5.1	2	1	17:10	28.5	7.9	19.5	6.1	4.3	5	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	CS(Mf)5	Middle	5.1	2	2	17:10	28.5	7.85	19.4	6.1	4.3	5.4	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	CS(Mf)5	Bottom	9.1	3	1	17:10	28.3	7.92	19.6	6.0	4.4	6.4	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	CS(Mf)5	Bottom	9.1	3	2	17:10	28.3	7.96	19.5	6.0	4.4	6.1	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	SR4a	Surface	1	1	1	17:28	28.5	7.62	19.3	6.2	4.1	3.3	2014-08-22

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	2014-08-09	Mid-Flood	Fine	SR4a	Surface	1	1	2	17:28	28.6	7.77	19.2	6.2	4.1	3.6	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	SR4a	Middle		2	1	17:28							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	SR4a	Middle		2	2	17:28							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	SR4a	Bottom	4.6	3	1	17:28	28.3	7.9	19.4	5.9	4.3	5.5	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	SR4a	Bottom	4.6	3	2	17:28	28.2	7.92	19.5	5.9	4.3	5.1	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	SR4	Surface	1	1	1	17:48	28.6	7.73	19.1	5.9	4.3	4	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	SR4	Surface	1	1	2	17:48	28.6	7.77	19.2	6.0	4.3	4.2	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	SR4	Middle		2	1	17:48							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	SR4	Middle		2	2	17:48							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	SR4	Bottom	4.6	3	1	17:48	28.2	7.91	19.4	5.7	4.3	5.4	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	SR4	Bottom	4.6	3	2	17:48	28.3	7.88	19.3	5.7	4.4	5.1	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS8	Surface	1	1	1	18:09	28.6	7.8	19.3	6.0	4.3	3.8	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS8	Surface	1	1	2	18:09	28.5	7.77	19.2	5.9	4.3	3.3	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS8	Middle		2	1	18:09							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS8	Middle		2	2	18:09							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS8	Bottom	4.7	3	1	18:09	28.4	7.83	19.4	5.6	4.4	4.7	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS8	Bottom	4.7	3	2	18:09	28.4	7.87	19.6	5.7	4.5	4.6	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	18:28	28.5	7.72	19.2	6.0	4.3	3	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	18:28	28.5	7.62	19.3	6.1	4.4	3.4	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS(Mf)16	Middle	4.6	2	1	18:28	28.3	7.79	19.4	5.9	4.6	3.7	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS(Mf)16	Middle	4.6	2	2	18:28	28.4	7.85	19.5	5.7	4.5	3.7	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS(Mf)16	Bottom	8.2	3	1	18:28	28.4	7.9	19.7	5.7	4.6	5.1	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS(Mf)16	Bottom	8.2	3	2	18:28	28.2	7.94	19.7	5.8	4.7	5	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	18:47	28.5	7.7	19.1	6.0	4.2	4.9	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	18:47	28.4	7.82	19.2	6.0	4.2	4.9	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	18:47							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	18:47							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS(Mf)9	Bottom	4.7	3	1	18:47	28.2	7.9	19.4	5.8	4.4	5	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	IS(Mf)9	Bottom	4.7	3	2	18:47	28.2	7.93	19.4	5.9	4.5	5.2	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	19:05	28.6	7.8	19	6.1	4.3	2.1	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	19:05	28.7	7.77	18.9	6.1	4.4	2.4	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	CS(Mf)3	Middle	6.1	2	1	19:05	28.4	7.8	19.3	5.9	4.4	3.7	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	CS(Mf)3	Middle	6.1	2	2	19:05	28.5	7.83	19.3	5.9	4.5	3.8	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	CS(Mf)3	Bottom	11.1	3	1	19:05	28.2	7.93	19.5	5.8	4.7	5.1	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Flood	Fine	CS(Mf)3	Bottom	11.1	3	2	19:05	28.3	7.91	19.4	5.8	4.6	4.8	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	10:00	28.9	7.73	19.2	6.0	4.5	2.4	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	10:00	28.9	7.74	19.6	6.0	4.4	2.8	2014-08-22

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	2014-08-09	Mid-Ebb	Fine	CS(Mf)3	Middle	5.9	2	1	10:00	28.6	7.86	19.5	5.8	4.6	4.4	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	CS(Mf)3	Middle	5.9	2	2	10:00	28.7	7.9	19.5	5.8	4.6	4.2	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.7	3	1	10:00	28.4	7.92	19.7	5.6	4.9	4.7	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.7	3	2	10:00	28.4	7.95	19.6	5.6	4.9	4.8	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	SR4a	Surface	1	1	1	12:30	28.8	7.65	18.9	6.3	4.0	2.7	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	SR4a	Surface	1	1	2	12:30	28.8	7.69	18.9	6.3	4.0	2.3	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	SR4a	Middle		2	1	12:30							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	SR4a	Middle		2	2	12:30							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	1	12:30	28.6	7.78	19.2	6.1	4.2	3.1	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	2	12:30	28.5	7.74	19.3	6.0	4.1	3.1	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	SR4	Surface	1	1	1	12:00	28.9	7.65	19.2	5.7	4.4	2.2	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	SR4	Surface	1	1	2	12:00	28.9	7.61	19.4	5.7	4.5	2.6	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	SR4	Middle		2	1	12:00							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	SR4	Middle		2	2	12:00							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	SR4	Bottom	4.3	3	1	12:00	28.5	7.72	19.5	5.7	4.5	3.1	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	SR4	Bottom	4.3	3	2	12:00	28.6	7.76	19.5	5.7	4.6	3.2	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS8	Surface	1	1	1	11:30	28.8	7.64	19.4	5.8	4.5	2.7	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS8	Surface	1	1	2	11:30	28.9	7.67	19.6	5.8	4.5	2.8	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS8	Middle		2	1	11:30							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS8	Middle		2	2	11:30							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS8	Bottom	4.3	3	1	11:30	28.5	7.85	19.7	5.6	4.6	5.2	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS8	Bottom	4.3	3	2	11:30	28.5	7.8	19.8	5.7	4.7	5.3	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	11:00	28.7	7.69	19.3	5.8	4.4	3.8	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	11:00	28.7	7.68	19.5	5.8	4.4	3.8	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS(Mf)16	Middle	4.4	2	1	11:00	28.5	7.72	19.6	5.7	4.7	5	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS(Mf)16	Middle	4.4	2	2	11:00	28.4	7.71	19.6	5.6	4.7	5.2	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.8	3	1	11:00	28.4	7.8	19.8	5.5	4.7	5.5	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.8	3	2	11:00	28.4	7.85	19.8	5.4	4.7	5.4	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	10:30	28.8	7.75	19.3	6.0	4.3	3.2	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	10:30	28.8	7.79	19.2	6.0	4.4	3	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	10:30							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	10:30							2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.3	3	1	10:30	28.6	7.71	19.6	5.7	4.6	3.3	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.3	3	2	10:30	28.6	7.66	19.6	5.7	4.6	3.2	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	13:08	28.9	7.73	19	6.5	4.0	2.7	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	13:08	28.9	7.69	19.1	6.5	4.0	2.9	2014-08-22
TMCLKL	HY/2012/07	2014-08-09	Mid-Ebb	Fine	CS(Mf)5	Middle	4.9	2	1	13:08	28.7	7.85	19.3	6.3	4.2	3.9	2014-08-22

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	2014-08-12	Mid-Flood	Fine	IS(Mf)9	Bottom	4.9	3	1	20:09	28.3	7.95	19.5	5.8	4.4	7.7	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Flood	Fine	IS(Mf)9	Bottom	4.9	3	2	20:09	28.3	7.97	19.4	5.9	4.5	7.8	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	20:19	28.7	7.86	19.1	6.2	4.3	4	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	20:19	28.8	7.84	19	6.2	4.4	3.7	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Flood	Fine	CS(Mf)3	Middle	6.2	2	1	20:19	28.5	7.85	19.4	5.9	4.5	4.6	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Flood	Fine	CS(Mf)3	Middle	6.2	2	2	20:19	28.6	7.89	19.3	6.0	4.5	4.3	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Flood	Fine	CS(Mf)3	Bottom	11.4	3	1	20:19	28.3	7.96	19.5	5.9	4.7	7.5	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Flood	Fine	CS(Mf)3	Bottom	11.4	3	2	20:19	28.4	7.93	19.5	5.9	4.7	6.6	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	12:19	28.9	7.82	19	6.1	4.4	7.6	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	12:19	28.8	7.81	19.1	6.1	4.5	7.6	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	CS(Mf)3	Middle	5.9	2	1	12:19	28.6	7.83	19.2	5.9	4.5	7.9	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	CS(Mf)3	Middle	5.9	2	2	12:19	28.7	7.83	19.1	5.9	4.6	7.7	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.8	3	1	12:19	28.5	7.87	19.3	5.8	4.8	8.8	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.8	3	2	12:19	28.5	7.91	19.3	5.8	4.8	8.7	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	SR4a	Surface	1	1	1	14:22	28.6	7.58	19.2	6.1	4.2	7.8	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	SR4a	Surface	1	1	2	14:22	28.7	7.64	19.3	6.2	4.2	7.5	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	SR4a	Middle		2	1	14:22							2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	SR4a	Middle		2	2	14:22							2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	SR4a	Bottom	4.5	3	1	14:22	28.5	7.85	19.3	5.9	4.4	8.8	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	SR4a	Bottom	4.5	3	2	14:22	28.4	7.87	19.2	5.9	4.4	8.6	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	SR4	Surface	1	1	1	13:57	28.8	7.68	19.1	5.9	4.4	9.3	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	SR4	Surface	1	1	2	13:57	28.7	7.71	19.2	5.9	4.4	9	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	SR4	Middle		2	1	13:57							2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	SR4	Middle		2	2	13:57							2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	SR4	Bottom	4.4	3	1	13:57	28.4	7.85	19.3	5.7	4.5	10.4	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	SR4	Bottom	4.4	3	2	13:57	28.5	7.82	19.2	5.7	4.5	9.7	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS8	Surface	1	1	1	13:32	28.8	7.78	19.3	6.0	4.4	6.8	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS8	Surface	1	1	2	13:32	28.8	7.74	19.2	5.9	4.4	6.7	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS8	Middle		2	1	13:32							2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS8	Middle		2	2	13:32							2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS8	Bottom	4.7	3	1	13:32	28.6	7.8	19.4	5.6	4.5	7.6	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS8	Bottom	4.7	3	2	13:32	28.5	7.82	19.3	5.6	4.6	7.1	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	13:07	28.7	7.68	19.2	6.0	4.4	8.1	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	13:07	28.6	7.63	19.3	6.0	4.5	7.9	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS(Mf)16	Middle	4.5	2	1	13:07	28.5	7.75	19.3	5.9	4.5	12.2	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS(Mf)16	Middle	4.5	2	2	13:07	28.4	7.77	19.4	5.8	4.5	12.4	2014-08-21	
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS(Mf)16	Bottom		8	3	1	13:07	28.5	7.86	19.6	5.6	4.8	12	2014-08-21

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	2014-08-12	Mid-Ebb	Fine	IS(Mf)16	Bottom	8	3	2	13:07	28.5	7.9	19.6	5.7	4.8	11.9	2014-08-21
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	12:44	28.7	7.69	19.1	6.0	4.3	7.6	2014-08-21
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	12:44	28.7	7.73	19.1	6.1	4.4	7	2014-08-21
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	12:44							2014-08-21
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	12:44							2014-08-21
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.5	3	1	12:44	28.4	7.88	19.3	5.8	4.5	8.6	2014-08-21
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.5	3	2	12:44	28.3	7.9	19.4	5.8	4.6	9.2	2014-08-21
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	14:54	28.9	7.77	19.2	6.1	4.3	6.2	2014-08-21
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	14:54	28.8	7.79	19.3	6.1	4.3	6.2	2014-08-21
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	CS(Mf)5	Middle	5	2	1	14:54	28.7	7.86	19.5	6.1	4.4	6.2	2014-08-21
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	CS(Mf)5	Middle	5	2	2	14:54	28.6	7.84	19.4	6.1	4.4	6	2014-08-21
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	CS(Mf)5	Bottom	9	3	1	14:54	28.5	7.86	19.5	6.0	4.5	7	2014-08-21
TMCLKL	HY/2012/07	2014-08-12	Mid-Ebb	Fine	CS(Mf)5	Bottom	9	3	2	14:54	28.5	7.88	19.5	6.0	4.5	6	2014-08-21
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	13:45	28.8	7.73	19.3	6.1	4.3	13.8	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	13:45	28.7	7.7	19.4	6.1	4.3	13.9	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	CS(Mf)5	Middle	5.2	2	1	13:45	28.7	7.74	19.4	6.0	4.3	14.8	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	CS(Mf)5	Middle	5.2	2	2	13:45	28.8	7.76	19.5	6.0	4.4	14.9	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	CS(Mf)5	Bottom	9.3	3	1	13:45	28.5	7.84	19.6	5.9	4.4	19.6	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	CS(Mf)5	Bottom	9.3	3	2	13:45	28.6	7.82	19.7	6.0	4.4	19.7	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	SR4a	Surface	1	1	1	14:10	28.7	7.48	19.4	6.2	4.2	6.3	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	SR4a	Surface	1	1	2	14:10	28.6	7.51	19.4	6.2	4.2	6.6	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	SR4a	Middle		2	1	14:10							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	SR4a	Middle		2	2	14:10							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	SR4a	Bottom	4.8	3	1	14:10	28.4	7.77	19.2	6.1	4.4	9.4	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	SR4a	Bottom	4.8	3	2	14:10	28.5	7.8	19.3	6.1	4.4	9.7	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	SR4	Surface	1	1	1	14:35	28.6	7.64	19.2	5.9	4.4	13.5	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	SR4	Surface	1	1	2	14:35	28.7	7.63	19.3	5.9	4.4	13.1	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	SR4	Middle		2	1	14:35							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	SR4	Middle		2	2	14:35							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	SR4	Bottom	4.6	3	1	14:35	28.5	7.56	19.4	5.7	4.4	13.6	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	SR4	Bottom	4.6	3	2	14:35	28.4	7.54	19.3	5.8	4.5	13.7	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS8	Surface	1	1	1	15:00	28.6	7.66	19.4	5.9	4.3	11.5	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS8	Surface	1	1	2	15:00	28.7	7.62	19.2	6.0	4.3	11.8	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS8	Middle		2	1	15:00							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS8	Middle		2	2	15:00							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS8	Bottom	4.9	3	1	15:00	28.4	7.38	19.6	5.6	4.5	13	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS8	Bottom	4.9	3	2	15:00	28.5	7.44	19.5	5.5	4.5	13	2014-08-25

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	2014-08-14	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	15:25	28.7	7.57	19.3	6.1	4.3	6	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	15:25	28.7	7.55	19.3	6.1	4.4	6.2	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS(Mf)16	Middle	4.7	2	1	15:25	28.7	7.72	19.4	5.9	4.5	7.1	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS(Mf)16	Middle	4.7	2	2	15:25	28.6	7.7	19.5	5.9	4.6	7	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS(Mf)16	Bottom	8.4	3	1	15:25	28.5	7.74	19.7	5.6	4.7	10	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS(Mf)16	Bottom	8.4	3	2	15:25	28.4	7.7	19.7	5.6	4.8	9.2	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	15:50	28.5	7.76	19.2	6.1	4.3	8.7	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	15:50	28.6	7.8	19.3	6.1	4.3	8.8	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	15:50							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	15:50							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS(Mf)9	Bottom	4.9	3	1	15:50	28.3	7.96	19.5	5.9	4.5	9.4	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	IS(Mf)9	Bottom	4.9	3	2	15:50	28.4	7.97	19.5	5.9	4.5	9.9	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	16:15	28.8	7.85	19.1	6.2	4.4	6.4	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	16:15	28.7	7.86	19.2	6.2	4.4	6.4	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	CS(Mf)3	Middle	6.2	2	1	16:15	28.6	7.87	19.4	5.9	4.5	9.4	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	CS(Mf)3	Middle	6.2	2	2	16:15	28.6	7.88	19.4	6.0	4.5	9.3	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	CS(Mf)3	Bottom	11.4	3	1	16:15	28.4	7.94	19.5	5.9	4.7	10.5	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Flood	Fine	CS(Mf)3	Bottom	11.4	3	2	16:15	28.3	7.95	19.4	5.9	4.7	10.5	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	07:56	28.8	7.76	19.2	6.1	4.5	6.1	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	07:56	28.7	7.79	19.3	6.1	4.5	6	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	CS(Mf)3	Middle	6.1	2	1	07:56	28.7	7.82	19.3	6.0	4.6	6.3	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	CS(Mf)3	Middle	6.1	2	2	07:56	28.6	7.83	19.4	6.0	4.5	6.9	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	CS(Mf)3	Bottom	11.1	3	1	07:56	28.5	7.96	19.5	5.9	4.8	9.9	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	CS(Mf)3	Bottom	11.1	3	2	07:56	28.5	7.9	19.5	5.9	4.8	10.2	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	SR4a	Surface	1	1	1	10:01	28.7	7.52	19.5	6.1	4.2	4.5	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	SR4a	Surface	1	1	2	10:01	28.7	7.59	19.5	6.2	4.3	5	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	SR4a	Middle		2	1	10:01							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	SR4a	Middle		2	2	10:01							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	SR4a	Bottom	4.4	3	1	10:01	28.5	7.81	19.3	6.0	4.5	6.5	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	SR4a	Bottom	4.4	3	2	10:01	28.4	7.88	19.4	6.1	4.4	6.5	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	SR4	Surface	1	1	1	09:36	28.7	7.69	19.3	5.9	4.4	6.4	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	SR4	Surface	1	1	2	09:36	28.6	7.65	19.4	5.9	4.4	6.7	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	SR4	Middle		2	1	09:36							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	SR4	Middle		2	2	09:36							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	SR4	Bottom	4.3	3	1	09:36	28.4	7.6	19.5	5.7	4.5	7.1	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	SR4	Bottom	4.3	3	2	09:36	28.3	7.59	19.5	5.7	4.5	6.7	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS8	Surface	1	1	1	09:11	28.7	7.7	19.3	5.9	4.3	4.7	2014-08-25

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	2014-08-14	Mid-Ebb	Fine	IS8	Surface	1	1	2	09:11	28.7	7.68	19.4	5.9	4.4	5.2	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS8	Middle		2	1	09:11							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS8	Middle		2	2	09:11							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS8	Bottom	4.6	3	1	09:11	28.4	7.42	19.7	5.5	4.5	6.9	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS8	Bottom	4.6	3	2	09:11	28.4	7.58	19.6	5.5	4.6	7.3	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	08:46	28.7	7.62	19.4	6.0	4.4	3.4	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	08:46	28.6	7.59	19.5	6.0	4.5	4	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS(Mf)16	Middle	4.5	2	1	08:46	28.6	7.77	19.5	5.8	4.6	6.1	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS(Mf)16	Middle	4.5	2	2	08:46	28.5	7.72	19.6	5.8	4.7	5.8	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS(Mf)16	Bottom	8	3	1	08:46	28.4	7.8	19.8	5.5	4.8	7	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS(Mf)16	Bottom	8	3	2	08:46	28.5	7.71	19.8	5.6	4.9	6.3	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	08:21	28.6	7.7	19.3	6.0	4.3	11.4	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	08:21	28.7	7.82	19.3	6.0	4.3	12.1	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	08:21							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	08:21							2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.6	3	1	08:21	28.5	7.88	19.5	5.8	4.6	12.5	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.6	3	2	08:21	28.4	7.83	19.6	5.8	4.6	12.7	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	10:30	28.8	7.77	19.4	6.0	4.3	6.1	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	10:30	28.8	7.72	19.5	6.0	4.4	6	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	CS(Mf)5	Middle	5	2	1	10:30	28.6	7.8	19.5	6.0	4.4	8.7	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	CS(Mf)5	Middle	5	2	2	10:30	28.7	7.82	19.6	6.0	4.4	8.6	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	CS(Mf)5	Bottom	9	3	1	10:30	28.5	7.9	19.7	5.9	4.5	10.8	2014-08-25
TMCLKL	HY/2012/07	2014-08-14	Mid-Ebb	Fine	CS(Mf)5	Bottom	9	3	2	10:30	28.5	7.83	19.8	5.9	4.5	10.2	2014-08-25
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	09:23	28.4	7.73	19.1	6.1	4.2	3.7	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	09:23	28.5	7.71	19.2	6.2	4.2	4.6	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	CS(Mf)5	Middle	5.2	2	1	09:23	28.3	7.78	19.4	6.0	4.3	5.3	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	CS(Mf)5	Middle	5.2	2	2	09:23	28.2	7.77	19.3	6.0	4.3	6	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	CS(Mf)5	Bottom	9.4	3	1	09:23	28	7.81	19.6	6.0	4.4	7	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	CS(Mf)5	Bottom	9.4	3	2	09:23	28.1	7.82	19.7	5.9	4.4	7.9	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	SR4a	Surface	1	1	1	09:53	28.6	7.76	19.2	6.1	4.2	6.8	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	SR4a	Surface	1	1	2	09:53	28.5	7.79	19.3	6.1	4.3	6.6	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	SR4a	Middle		2	1	09:53							2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	SR4a	Middle		2	2	09:53							2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	SR4a	Bottom	4.4	3	1	09:53	28.2	7.81	19.6	5.9	4.3	6.8	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	SR4a	Bottom	4.4	3	2	09:53	28.1	7.82	19.7	5.8	4.4	6.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	SR4	Surface	1	1	1	10:23	28.3	7.78	19.4	5.9	4.3	6.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Flood	Fine	SR4	Surface	1	1	2	10:23	28.2	7.76	19.3	5.9	4.4	6.1	2014-08-27

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	2014-08-16	Mid-Ebb	Fine	SR4a	Middle		2	2	16:58							2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	1	16:58	28.4	7.85	19.5	5.8	4.4	6.5	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	2	16:58	28.3	7.86	19.6	5.8	4.4	7.1	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	SR4	Surface	1	1	1	16:40	28.7	7.8	19.2	5.8	4.4	6.2	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	SR4	Surface	1	1	2	16:40	28.6	7.78	19.3	5.9	4.4	4.1	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	SR4	Middle		2	1	16:40							2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	SR4	Middle		2	2	16:40							2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	SR4	Bottom	4.2	3	1	16:40	28.3	7.81	19.5	5.7	4.4	5.7	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	SR4	Bottom	4.2	3	2	16:40	28.4	7.82	19.4	5.7	4.5	4.5	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS8	Surface	1	1	1	16:22	28.7	7.74	19.4	5.9	4.4	4.5	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS8	Surface	1	1	2	16:22	28.6	7.73	19.3	5.9	4.4	5.9	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS8	Middle		2	1	16:22							2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS8	Middle		2	2	16:22							2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS8	Bottom	4.4	3	1	16:22	28.6	7.8	19.5	5.5	4.6	7.6	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS8	Bottom	4.4	3	2	16:22	28.5	7.78	19.6	5.6	4.6	8	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	15:48	28.6	7.73	19.3	6.0	4.5	6	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	15:48	28.5	7.75	19.4	5.9	4.5	5.6	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS(Mf)16	Middle	4.4	2	1	15:48	28.4	7.78	19.6	5.8	4.6	4.8	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS(Mf)16	Middle	4.4	2	2	15:48	28.5	7.8	19.5	5.8	4.6	6.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.8	3	1	15:48	28.2	7.86	19.6	5.6	4.8	5.9	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.8	3	2	15:48	28.3	7.82	19.7	5.6	4.8	6.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	15:30	28.6	7.78	19.3	5.9	4.3	3.9	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	15:30	28.5	7.76	19.4	5.9	4.4	4.9	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	15:30							2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	15:30							2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.4	3	1	15:30	28.4	7.85	19.5	5.7	4.5	7	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.4	3	2	15:30	28.3	7.82	19.4	5.7	4.5	5.5	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	17:17	28.8	7.76	19.4	6.1	4.3	6.2	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	17:17	28.7	7.72	19.5	6.1	4.3	7	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	CS(Mf)5	Middle	4.9	2	1	17:17	28.6	7.8	19.6	6.0	4.4	6.2	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	CS(Mf)5	Middle	4.9	2	2	17:17	28.5	7.82	19.5	5.9	4.4	6.5	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.8	3	1	17:17	28.4	7.85	19.6	5.9	4.5	5.5	2014-08-27
TMCLKL	HY/2012/07	2014-08-16	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.8	3	2	17:17	28.5	7.87	19.7	5.9	4.5	6.1	2014-08-27
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	14:13	29.3	7.77	19.4	6.0	2.3	3.3	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	14:13	29.2	7.78	19.4	6.0	2.3	3.3	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.7	2	1	14:13	28.7	7.79	19.5	5.9	2.7	3.7	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.7	2	2	14:13	28.7	7.78	19.4	5.9	2.7	3.6	2014-08-28

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	2014-08-19	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.4	3	1	14:13	28.6	7.79	19.6	5.8	2.6	3.6	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.4	3	2	14:13	28.7	7.79	19.6	5.7	2.6	3.9	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	14:38	29.3	7.76	19.4	5.9	2.6	4.7	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	14:38	29.4	7.77	19.3	5.8	2.5	4.8	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	SR4a	Middle		2	1	14:38							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	SR4a	Middle		2	2	14:38							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	SR4a	Bottom	3.8	3	1	14:38	28.8	7.79	19.5	5.7	2.9	4.8	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	SR4a	Bottom	3.8	3	2	14:38	28.7	7.78	19.5	5.6	3.0	4.6	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	SR4	Surface	1	1	1	14:55	29.3	7.76	19.3	5.8	2.8	2.6	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	SR4	Surface	1	1	2	14:55	29.2	7.76	19.3	5.7	2.9	3	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	SR4	Middle		2	1	14:55							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	SR4	Middle		2	2	14:55							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	SR4	Bottom	3.6	3	1	14:55	28.8	7.78	19.5	5.6	3.0	5.5	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	SR4	Bottom	3.6	3	2	14:55	28.7	7.79	19.4	5.6	3.0	5.8	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS8	Surface	1	1	1	15:16	29.3	7.75	19.2	5.9	2.3	4.2	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS8	Surface	1	1	2	15:16	29.3	7.76	19.2	5.8	2.3	4	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS8	Middle		2	1	15:16							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS8	Middle		2	2	15:16							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS8	Bottom	4.2	3	1	15:16	28.8	7.77	19.4	5.6	2.5	4.8	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS8	Bottom	4.2	3	2	15:16	28.9	7.78	19.4	5.6	2.4	4.5	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	15:38	29.3	7.74	19.2	5.8	2.7	2.4	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	15:38	29.2	7.75	19.2	5.8	2.8	2.6	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.2	2	1	15:38	28.8	7.79	19.4	5.4	2.7	3.2	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.2	2	2	15:38	28.8	7.78	19.4	5.4	2.7	3.2	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.4	3	1	15:38	28.7	7.79	19.6	5.5	2.8	3.6	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.4	3	2	15:38	28.7	7.79	19.5	5.5	2.9	3.8	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	15:54	29.3	7.74	19.2	5.9	2.7	2.7	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	15:54	29.3	7.75	19.2	5.8	2.7	3.2	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	15:54							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	15:54							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS(Mf)9	Bottom	3.6	3	1	15:54	28.8	7.78	19.4	5.3	2.5	5	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	IS(Mf)9	Bottom	3.6	3	2	15:54	28.7	7.77	19.3	5.4	2.5	5	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	16:16	29.2	7.73	19.3	6.0	2.9	2.4	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	16:16	29.3	7.72	19.2	5.9	3.0	2.7	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.3	2	1	16:16	28.9	7.76	19.4	5.6	2.3	3.5	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.3	2	2	16:16	28.8	7.77	19.4	5.7	2.3	3.8	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Flood	Cloudy	CS(Mf)3	Bottom	9.6	3	1	16:16	28.7	7.78	19.4	5.4	2.6	5.5	2014-08-28

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	2014-08-19	Mid-Flood	Cloudy	CS(Mf)3	Bottom	9.6	3	2	16:16	28.6	7.77	19.5	5.5	2.6	5.7	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	08:16	29	7.72	19.3	6.0	2.4	2.7	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	08:16	28.9	7.73	19.4	6.0	2.5	3.1	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	CS(Mf)3	Middle	5.9	2	1	08:16	28.6	7.88	19.6	5.8	2.6	3.3	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	CS(Mf)3	Middle	5.9	2	2	08:16	28.7	7.82	19.5	5.8	2.6	3.4	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	CS(Mf)3	Bottom	16.8	3	1	08:16	28.4	7.91	19.8	5.7	2.8	5.1	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	CS(Mf)3	Bottom	16.8	3	2	08:16	28.3	7.91	19.6	5.7	2.9	4.9	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	SR4a	Surface	1	1	1	09:41	28.9	7.72	19.1	6.3	2.0	3.3	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	SR4a	Surface	1	1	2	09:41	28.9	7.66	19	6.2	3.0	3.3	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	SR4a	Middle		2	1	09:41							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	SR4a	Middle		2	2	09:41							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	1	09:41	28.7	7.82	19.3	6.1	2.1	4.1	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	2	09:41	28.6	7.78	19.3	6.0	2.2	4.4	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	SR4	Surface	1	1	1	09:24	29	7.72	19.3	5.7	2.4	3.9	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	SR4	Surface	1	1	2	09:24	29	7.63	19.2	5.7	2.5	3.5	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	SR4	Middle		2	1	09:24							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	SR4	Middle		2	2	09:24							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	SR4	Bottom	4.3	3	1	09:24	28.5	7.73	19.4	5.8	2.6	10.2	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	SR4	Bottom	4.3	3	2	09:24	28.6	7.75	19.5	5.8	2.6	10.1	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS8	Surface	1	1	1	09:07	29	7.71	19.4	5.8	2.5	6.3	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS8	Surface	1	1	2	09:07	28.9	7.61	19.3	5.9	2.5	6.2	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS8	Middle		2	1	09:07							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS8	Middle		2	2	09:07							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS8	Bottom	4.4	3	1	09:07	28.6	7.73	19.6	5.5	2.7	6.1	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS8	Bottom	4.4	3	2	09:07	28.6	7.7	19.8	5.5	2.7	6	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	08:50	28.8	7.62	19.4	5.9	2.5	3.5	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	08:50	28.7	7.6	19.3	5.8	2.4	3.3	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS(Mf)16	Middle	4.5	2	1	08:50	28.4	7.71	19.5	5.5	2.7	5.1	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS(Mf)16	Middle	4.5	2	2	08:50	28.4	7.73	19.6	5.6	2.7	5.3	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.9	3	1	08:50	28.4	7.91	19.8	5.5	2.7	5.5	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.9	3	2	08:50	28.3	7.87	19.7	5.5	2.8	5.5	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	08:33	28.9	7.61	19.3	6.0	2.3	3.2	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	08:33	28.8	7.63	19.3	5.9	2.3	3.2	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	08:33							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	08:33							2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.3	3	1	08:33	28.7	7.77	19.6	5.7	2.6	4.6	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.3	3	2	08:33	28.6	7.7	19.7	5.8	2.7	4.3	2014-08-28

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	2014-08-19	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	10:00	29	7.69	19.1	6.5	2.2	3	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	10:00	28.9	7.77	19.1	6.5	2.1	3.3	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	CS(Mf)5	Middle	4.9	2	1	10:00	28.7	7.8	19.2	6.4	2.2	3.7	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	CS(Mf)5	Middle	4.9	2	2	10:00	28.7	7.72	19.3	6.4	2.3	4	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.8	3	1	10:00	28.6	7.82	19.5	6.2	2.4	5.9	2014-08-28
TMCLKL	HY/2012/07	2014-08-19	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.8	3	2	10:00	28.9	7.88	19.4	6.2	2.4	5.7	2014-08-28
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	16:06	29.1	7.73	19.2	6.1	7.2	3.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	16:06	29.1	7.7	19.1	6.1	7.1	4.3	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	CS(Mf)5	Middle	5.1	2	1	16:06	29	7.78	19.3	6.1	7.2	5.1	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	CS(Mf)5	Middle	5.1	2	2	16:06	29.1	7.76	19.3	6.0	7.2	5.1	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	CS(Mf)5	Bottom	9.2	3	1	16:06	28.9	7.82	19.5	6.1	7.3	5.5	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	CS(Mf)5	Bottom	9.2	3	2	16:06	29	7.86	19.4	6.0	7.3	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	SR4a	Surface	1	1	1	16:34	29.1	7.7	19.2	6.1	7.0	4.7	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	SR4a	Surface	1	1	2	16:34	29.1	7.76	19.3	6.1	7.1	4.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	SR4a	Middle		2	1	16:34							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	SR4a	Middle		2	2	16:34							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	SR4a	Bottom	4.5	3	1	16:34	28.7	7.8	19.4	6.0	7.3	4.7	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	SR4a	Bottom	4.5	3	2	16:34	28.8	7.81	19.3	6.0	7.3	5.3	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	SR4	Surface	1	1	1	16:56	29.2	7.8	19.2	5.7	7.0	3.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	SR4	Surface	1	1	2	16:56	29.1	7.78	19.2	5.7	7.0	3.5	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	SR4	Middle		2	1	16:56							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	SR4	Middle		2	2	16:56							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	SR4	Bottom	4.6	3	1	16:56	28.7	7.74	19.5	5.8	7.2	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	SR4	Bottom	4.6	3	2	16:56	28.6	7.77	19.6	5.8	7.2	5	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS8	Surface	1	1	1	17:18	29	7.72	19.4	5.8	6.9	4.9	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS8	Surface	1	1	2	17:18	29	7.69	19.3	5.8	7.0	5.3	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS8	Middle		2	1	17:18							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS8	Middle		2	2	17:18							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS8	Bottom	4.7	3	1	17:18	28.7	7.83	19.5	5.7	7.1	4.7	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS8	Bottom	4.7	3	2	17:18	28.9	7.84	19.7	5.7	7.2	5.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	17:40	29.1	7.71	19.3	5.7	7.1	3.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	17:40	29	7.73	19.3	5.7	7.1	3.1	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS(Mf)16	Middle	4.6	2	1	17:40	28.8	7.78	19.5	5.8	7.1	3.7	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS(Mf)16	Middle	4.6	2	2	17:40	28.9	7.7	19.5	5.8	7.2	3.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS(Mf)16	Bottom	8.2	3	1	17:40	28.7	7.79	19.8	5.7	7.3	3.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS(Mf)16	Bottom	8.2	3	2	17:40	28.8	7.83	19.7	5.7	7.3	3.7	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	18:02	29.2	7.79	19.4	6.0	6.9	2.2	2014-09-01

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	2014-08-21	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	18:02	29	7.7	19.4	6.0	6.9	2.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	18:02							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	18:02							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS(Mf)9	Bottom	4.6	3	1	18:02	28.7	7.72	19.5	5.8	6.9	4.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	IS(Mf)9	Bottom	4.6	3	2	18:02	28.8	7.75	19.6	5.7	7.0	4.5	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	18:24	29.1	7.75	19.1	5.9	7.4	2.3	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	18:24	29.2	7.77	19.2	6.0	7.2	2.3	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	CS(Mf)3	Middle	6	2	1	18:24	28.8	7.69	19.5	5.9	7.4	3.9	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	CS(Mf)3	Middle	6	2	2	18:24	28.8	7.74	19.5	5.9	7.4	3.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	CS(Mf)3	Bottom	11	3	1	18:24	28.5	7.81	19.7	5.7	7.8	4.7	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Flood	Fine	CS(Mf)3	Bottom	11	3	2	18:24	28.7	7.84	19.8	5.8	7.7	4.9	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	09:20	29	7.69	19	5.9	7.5	3.1	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	09:20	29	7.71	19.1	5.9	7.2	3.3	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	CS(Mf)3	Middle	5.8	2	1	09:20	28.6	7.63	19.4	5.8	7.4	3.5	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	CS(Mf)3	Middle	5.8	2	2	09:20	28.7	7.68	19.4	5.8	7.5	3.5	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.6	3	1	09:20	28.4	7.74	19.6	5.7	7.9	2.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.6	3	2	09:20	28.5	7.8	19.7	5.7	7.8	3.5	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	SR4a	Surface	1	1	1	11:25	28.9	7.66	19.1	6.0	7.1	2.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	SR4a	Surface	1	1	2	11:25	29	7.72	19.1	6.0	7.2	2.3	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	SR4a	Middle		2	1	11:25							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	SR4a	Middle		2	2	11:25							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	1	11:25	28.6	7.73	19.3	6.0	7.4	2.1	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	2	11:25	28.5	7.74	19.3	5.9	7.4	2.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	SR4	Surface	1	1	1	11:00	29	7.73	19.1	5.6	7.1	2.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	SR4	Surface	1	1	2	11:00	28.9	7.69	19	5.7	7.1	2.7	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	SR4	Middle		2	1	11:00							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	SR4	Middle		2	2	11:00							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	SR4	Bottom	4.3	3	1	11:00	28.6	7.68	19.4	5.7	7.3	2.7	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	SR4	Bottom	4.3	3	2	11:00	28.5	7.72	19.5	5.8	7.2	2.9	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	IS8	Surface	1	1	1	10:35	28.9	7.66	19.2	5.7	7.0	3.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	IS8	Surface	1	1	2	10:35	28.9	7.62	19.1	5.8	7.1	3.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	IS8	Middle		2	1	10:35							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	IS8	Middle		2	2	10:35							2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	IS8	Bottom	4.3	3	1	10:35	28.6	7.77	19.6	5.6	7.2	4.9	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	IS8	Bottom	4.3	3	2	10:35	28.7	7.76	19.5	5.6	7.2	4.3	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	10:10	28.9	7.62	19.2	5.6	7.2	4.1	2014-09-01
TMCLKL	HY/2012/07	2014-08-21	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	10:10	28.8	7.7	19.1	5.7	7.1	3.6	2014-09-01

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	2014-08-23	Mid-Ebb	Fine	SR4	Bottom	4.2	3	1	11:51	28.6	7.77	19.5	5.4	4.6	4	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	SR4	Bottom	4.2	3	2	11:51	28.6	7.72	19.7	5.3	4.6	4.7	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS8	Surface	1	1	1	11:26	28.9	7.61	19.1	5.6	4.4	2.2	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS8	Surface	1	1	2	11:26	28.9	7.65	19.1	5.6	4.4	2.1	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS8	Middle		2	1	11:26							2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS8	Middle		2	2	11:26							2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS8	Bottom	4.2	3	1	11:26	28.5	7.76	19.6	5.7	4.6	2.1	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS8	Bottom	4.2	3	2	11:26	28.6	7.72	19.5	5.8	4.6	2.3	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	11:01	28.8	7.51	19.3	5.8	4.9	2.4	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	11:01	28.7	7.55	19.4	5.8	5.0	2.4	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS(Mf)16	Middle	4.5	2	1	11:01	28.5	7.61	19.6	5.6	4.9	2.8	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS(Mf)16	Middle	4.5	2	2	11:01	28.5	7.58	19.5	5.7	4.9	2.9	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.9	3	1	11:01	28.3	7.83	19.8	5.5	5.2	2.8	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.9	3	2	11:01	28.3	7.76	19.9	5.5	5.2	3	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	10:36	28.9	7.72	19.3	6.0	4.3	3.1	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	10:36	28.8	7.68	19.3	5.9	4.4	3.5	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	10:36							2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	10:36							2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.4	3	1	10:36	28.5	7.81	19.6	5.6	4.6	3.6	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.4	3	2	10:36	28.6	7.76	19.5	5.5	4.7	3.8	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	12:44	28.9	7.72	19.1	6.4	4.0	2.7	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	12:44	29	7.7	19.1	6.5	4.0	2.7	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	CS(Mf)5	Middle	5	2	1	12:44	28.8	7.82	19.2	6.4	4.2	3.5	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	CS(Mf)5	Middle	5	2	2	12:44	28.7	7.8	19.3	6.3	4.2	3.7	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.9	3	1	12:44	28.5	7.77	19.5	6.2	4.4	4	2014-09-02
TMCLKL	HY/2012/07	2014-08-23	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.9	3	2	12:44	28.5	7.79	19.5	6.2	4.4	4.4	2014-09-02
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	18:15	29	7.73	19.3	6.2	4.6	2	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	18:15	29	7.72	19.2	6.2	4.7	2.2	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	CS(Mf)5	Middle	5	2	1	18:15	28.9	7.81	19.5	5.8	4.6	2.6	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	CS(Mf)5	Middle	5	2	2	18:15	28.8	7.84	19.6	5.9	4.6	2.8	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	CS(Mf)5	Bottom	9	3	1	18:15	28.8	7.79	19.7	5.7	4.9	3.2	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	CS(Mf)5	Bottom	9	3	2	18:15	28.7	7.76	19.7	5.8	4.8	3.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	SR4a	Surface	1	1	1	18:41	29.1	7.7	19.4	6.0	4.4	3.1	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	SR4a	Surface	1	1	2	18:41	29	7.73	19.3	6.1	4.5	3.1	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	SR4a	Middle		2	1	18:41							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	SR4a	Middle		2	2	18:41							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	SR4a	Bottom	4.6	3	1	18:41	28.9	7.81	19.7	6.0	4.6	2.7	2014-08-27

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	2014-08-26	Mid-Flood	Fine	SR4a	Bottom	4.6	3	2	18:41	28.8	7.76	19.7	5.9	4.6	2.9	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	SR4	Surface	1	1	1	19:07	29.1	7.62	19.1	6.1	4.4	2.8	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	SR4	Surface	1	1	2	19:07	29	7.64	19	6.1	4.5	3	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	SR4	Middle		2	1	19:07							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	SR4	Middle		2	2	19:07							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	SR4	Bottom	4.2	3	1	19:07	28.8	7.66	19.3	5.9	4.7	3.2	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	SR4	Bottom	4.2	3	2	19:07	28.9	7.65	19.4	5.9	4.6	3	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS8	Surface	1	1	1	19:33	29.2	7.73	19.3	6.0	4.3	2.6	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS8	Surface	1	1	2	19:33	29.1	7.7	19.3	6.0	4.4	2.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS8	Middle		2	1	19:33							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS8	Middle		2	2	19:33							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS8	Bottom	4.7	3	1	19:33	29	7.77	19.5	5.7	4.5	2.7	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS8	Bottom	4.7	3	2	19:33	28.8	7.75	19.5	5.7	4.6	2.7	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	19:59	29.2	7.62	19.2	6.0	4.2	2.5	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	19:59	29.1	7.7	19.1	6.0	4.2	3.1	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS(Mf)16	Middle	4.6	2	1	19:59	29	7.8	19.5	5.8	4.3	2.8	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS(Mf)16	Middle	4.6	2	2	19:59	28.8	7.83	19.5	5.8	4.4	3	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS(Mf)16	Bottom	8.2	3	1	19:59	28.5	7.72	19.7	5.8	4.7	3.1	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS(Mf)16	Bottom	8.2	3	2	19:59	28.6	7.79	19.6	5.7	4.8	3.3	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	20:25	29	7.76	19.3	6.2	4.6	2.1	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	20:25	28.9	7.7	19.1	6.3	4.6	2.3	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	20:25							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	20:25							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS(Mf)9	Bottom	4.9	3	1	20:25	28.7	7.81	19.6	6.0	4.8	2.6	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	IS(Mf)9	Bottom	4.9	3	2	20:25	28.7	7.76	19.5	5.9	4.7	2.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	20:51	29.1	7.71	19.1	6.1	4.6	1.8	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	20:51	29.1	7.67	19.1	6.0	4.6	2	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	CS(Mf)3	Middle	5.6	2	1	20:51	28.8	7.75	19.5	5.8	4.7	2.7	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	CS(Mf)3	Middle	5.6	2	2	20:51	28.8	7.71	19.6	5.9	4.8	2.3	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	CS(Mf)3	Bottom	10.2	3	1	20:51	28.6	7.8	19.7	5.8	5.0	2.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Flood	Fine	CS(Mf)3	Bottom	10.2	3	2	20:51	28.5	7.85	19.8	5.7	5.0	2.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	11:51	29.2	7.77	19.2	6.0	4.5	1.6	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	11:51	29.2	7.76	19.2	6.0	4.6	2	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	CS(Mf)3	Middle	5.4	2	1	11:51	28.9	7.8	19.6	5.7	4.5	2.2	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	CS(Mf)3	Middle	5.4	2	2	11:51	28.8	7.81	19.7	5.8	4.5	2.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	CS(Mf)3	Bottom	9.8	3	1	11:51	28.7	7.82	19.8	5.8	4.8	2.6	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	CS(Mf)3	Bottom	9.8	3	2	11:51	28.6	7.82	19.8	5.8	4.9	2.8	2014-08-27

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	2014-08-26	Mid-Ebb	Fine	SR4a	Surface	1	1	1	14:14	29.2	7.82	19.4	6.0	4.6	2.7	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	SR4a	Surface	1	1	2	14:14	29.3	7.83	19.4	6.0	4.6	2.9	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	SR4a	Middle		2	1	14:14							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	SR4a	Middle		2	2	14:14							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	1	14:14	28.8	7.83	19.8	5.8	4.7	2.5	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	2	14:14	28.8	7.83	19.8	5.8	4.7	2.5	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	SR4	Surface	1	1	1	13:39	29.3	7.8	19.2	6.0	4.5	2.6	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	SR4	Surface	1	1	2	13:39	29.4	7.8	19.2	6.0	4.5	2.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	SR4	Middle		2	1	13:39							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	SR4	Middle		2	2	13:39							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	SR4	Bottom	3.8	3	1	13:39	28.9	7.81	19.5	5.7	4.7	2.7	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	SR4	Bottom	3.8	3	2	13:39	28.8	7.82	19.4	5.8	4.8	2.9	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS8	Surface	1	1	1	13:14	29.3	7.79	19.3	5.8	4.3	2.3	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS8	Surface	1	1	2	13:14	29.2	7.8	19.2	5.9	4.3	2.5	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS8	Middle		2	1	13:14							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS8	Middle		2	2	13:14							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS8	Bottom	4.2	3	1	13:14	29	7.8	19.6	5.7	4.6	2.8	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS8	Bottom	4.2	3	2	13:14	28.9	7.81	19.7	5.6	4.6	2.8	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	12:44	29.3	7.78	19.3	5.9	4.4	2.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	12:44	29.3	7.79	19.4	6.0	4.4	2.8	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS(Mf)16	Middle	4.4	2	1	12:44	28.8	7.81	19.6	5.7	4.5	2.8	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS(Mf)16	Middle	4.4	2	2	12:44	28.7	7.81	19.6	5.7	4.4	3	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.8	3	1	12:44	28.7	7.82	19.7	5.8	4.8	3.2	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.8	3	2	12:44	28.6	7.81	19.8	5.8	4.9	3.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	12:21	29.1	7.78	19.3	6.1	4.7	2	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	12:21	29.2	7.77	19.2	6.2	4.6	2.2	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	12:21							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	12:21							2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.4	3	1	12:21	28.8	7.79	19.7	5.6	4.8	2.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.4	3	2	12:21	28.7	7.8	19.8	5.6	4.8	2.6	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	14:39	29.2	7.79	19.3	6.1	4.7	2.4	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	14:39	29.1	7.8	19.2	6.0	4.7	2.6	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	CS(Mf)5	Middle	4.8	2	1	14:39	28.9	7.8	19.6	5.8	4.6	2.2	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	CS(Mf)5	Middle	4.8	2	2	14:39	28.9	7.81	19.7	5.8	4.6	2.6	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.6	3	1	14:39	28.9	7.82	19.7	5.7	4.9	2.8	2014-08-27
TMCLKL	HY/2012/07	2014-08-26	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.6	3	2	14:39	28.8	7.82	19.8	5.6	4.9	3	2014-08-27
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	08:10	29	7.76	19.2	6.1	4.6	7	2014-09-10

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	2014-08-28	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	08:10	29.1	7.78	19.3	6.2	4.6	6	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	CS(Mf)5	Middle	5	2	1	08:10	28.9	7.66	19.5	5.8	4.6	6.1	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	CS(Mf)5	Middle	5	2	2	08:10	28.8	7.68	19.6	5.8	4.6	6.9	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	CS(Mf)5	Bottom	8.9	3	1	08:10	28.7	7.72	19.8	5.7	4.8	6.5	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	CS(Mf)5	Bottom	8.9	3	2	08:10	28.8	7.7	19.9	5.8	4.8	6.7	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	SR4a	Surface	1	1	1	08:25	29	7.77	19.1	6.0	4.4	6.1	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	SR4a	Surface	1	1	2	08:25	28.9	7.75	19.2	6.1	4.4	6.9	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	SR4a	Middle		2	1	08:25							2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	SR4a	Middle		2	2	08:25							2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	SR4a	Bottom	4.5	3	1	08:25	28.8	7.63	19.6	5.9	4.5	5.8	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	SR4a	Bottom	4.5	3	2	08:25	28.8	7.65	19.7	5.9	4.5	6	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	SR4	Surface	1	1	1	08:40	29.3	7.73	19	6.1	4.4	7	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	SR4	Surface	1	1	2	08:40	29.2	7.75	19.1	6.1	4.4	6.8	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	SR4	Middle		2	1	08:40							2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	SR4	Middle		2	2	08:40							2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	SR4	Bottom	3.9	3	1	08:40	29	7.68	19.3	5.9	4.6	6.3	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	SR4	Bottom	3.9	3	2	08:40	29.1	7.7	19.4	5.9	4.6	6	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS8	Surface	1	1	1	08:55	29.2	7.63	19.2	6.0	4.2	7.1	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS8	Surface	1	1	2	08:55	29.1	7.65	19.3	6.0	4.2	6.2	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS8	Middle		2	1	08:55							2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS8	Middle		2	2	08:55							2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS8	Bottom	4.5	3	1	08:55	28.9	7.72	19.5	5.7	4.5	6	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS8	Bottom	4.5	3	2	08:55	29	7.74	19.6	5.7	4.5	6.3	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	09:10	29.2	7.83	19.1	6.1	4.0	7.3	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	09:10	29.2	7.85	19.2	6.2	4.1	7	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS(Mf)16	Middle	4.5	2	1	09:10	29	7.66	19.4	5.8	4.2	6.8	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS(Mf)16	Middle	4.5	2	2	09:10	28.9	7.68	19.5	5.8	4.3	6.3	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS(Mf)16	Bottom	8	3	1	09:10	28.7	7.77	19.7	5.8	4.5	6.8	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS(Mf)16	Bottom	8	3	2	09:10	28.8	7.79	19.7	5.7	4.6	7	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	09:30	29.2	7.66	19.2	6.2	4.6	6.9	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	09:30	29.3	7.68	19.1	6.3	4.6	6.2	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	09:30							2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	09:30							2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS(Mf)9	Bottom	4.6	3	1	09:30	28.9	7.73	19.6	5.8	4.7	7.1	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	IS(Mf)9	Bottom	4.6	3	2	09:30	28.8	7.75	19.7	5.8	4.7	6.8	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	09:45	29.2	7.71	19.2	6.0	4.4	6.2	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	09:45	29.1	7.73	19.3	6.0	4.4	6.9	2014-09-10

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	2014-08-28	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	13:49							2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.4	3	1	13:49	28.7	7.78	19.8	5.6	4.8	8	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.4	3	2	13:49	28.8	7.8	19.8	5.6	4.8	7.3	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	15:54	29.1	7.78	19.3	6.1	4.7	7.2	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	15:54	29.2	7.82	19.3	6.0	4.7	8	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Ebb	Fine	CS(Mf)5	Middle	4.9	2	1	15:54	28.9	7.81	19.6	5.8	4.6	7.5	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Ebb	Fine	CS(Mf)5	Middle	4.9	2	2	15:54	28.8	7.82	19.7	5.8	4.6	7.7	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.7	3	1	15:54	28.8	7.84	19.8	5.7	5.0	7	2014-09-10
TMCLKL	HY/2012/07	2014-08-28	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.7	3	2	15:54	29	7.81	19.8	5.7	4.9	7.9	2014-09-10
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	08:16	28.7	7.88	19.3	6.1	4.2	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	08:16	28.6	7.82	19.2	6.1	4.3	5.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	CS(Mf)5	Middle	5.1	2	1	08:16	28.4	7.73	19.5	6.0	4.4	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	CS(Mf)5	Middle	5.1	2	2	08:16	28.5	7.82	19.6	6.1	4.3	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	CS(Mf)5	Bottom	9.1	3	1	08:16	28.2	7.81	19.7	6.0	4.5	5.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	CS(Mf)5	Bottom	9.1	3	2	08:16	28.2	7.86	19.7	5.9	4.6	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	SR4a	Surface	1	1	1	08:32	28.6	7.73	19.1	6.1	4.1	5	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	SR4a	Surface	1	1	2	08:32	28.6	7.71	19.1	6.1	4.2	5.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	SR4a	Middle		2	1	08:32							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	SR4a	Middle		2	2	08:32							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	SR4a	Bottom	4.6	3	1	08:32	28.2	7.82	19.5	5.9	4.5	5.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	SR4a	Bottom	4.6	3	2	08:32	28.3	7.83	19.6	5.9	4.6	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	SR4	Surface	1	1	1	08:58	28.6	7.72	19.2	5.9	4.3	5.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	SR4	Surface	1	1	2	08:58	28.7	7.76	19.1	5.9	4.4	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	SR4	Middle		2	1	08:58							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	SR4	Middle		2	2	08:58							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	SR4	Bottom	4.6	3	1	08:58	28.2	7.72	19.5	5.7	4.4	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	SR4	Bottom	4.6	3	2	08:58	28.2	7.69	19.5	5.7	4.5	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS8	Surface	1	1	1	09:24	28.7	7.76	19.1	5.9	4.4	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS8	Surface	1	1	2	09:24	28.6	7.72	19	5.9	4.3	5.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS8	Middle		2	1	09:24							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS8	Middle		2	2	09:24							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS8	Bottom	4.5	3	1	09:24	28.4	7.8	19.5	5.6	4.5	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS8	Bottom	4.5	3	2	09:24	28.3	7.74	19.4	5.6	4.5	5.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	09:50	28.6	7.77	19.1	6.0	4.3	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	09:50	28.6	7.7	19	6.0	4.4	5.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS(Mf)16	Middle	4.7	2	1	09:50	28.3	7.71	19.4	5.9	4.5	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS(Mf)16	Middle	4.7	2	2	09:50	28.4	7.75	19.4	5.8	4.5	5.2	2014-09-01

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	2014-08-30	Mid-Flood	Fine	IS(Mf)16	Bottom	8.4	3	1	09:50	28.1	7.8	19.6	5.7	4.7	5.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS(Mf)16	Bottom	8.4	3	2	09:50	28.2	7.83	19.7	5.6	4.8	6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	10:16	28.6	7.69	19.1	6.0	4.3	5	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	10:16	28.6	7.73	19.2	6.0	4.3	5.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	10:16							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	10:16							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS(Mf)9	Bottom	4.7	3	1	10:16	28.2	7.82	19.5	5.8	4.5	5.3	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	IS(Mf)9	Bottom	4.7	3	2	10:16	28.1	7.85	19.4	5.9	4.5	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	10:52	28.7	7.72	19.2	6.1	4.4	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	10:52	28.7	7.77	19.2	6.1	4.5	5.7	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	CS(Mf)3	Middle	6.1	2	1	10:52	28.5	7.8	19.4	5.8	4.5	5.3	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	CS(Mf)3	Middle	6.1	2	2	10:52	28.4	7.81	19.4	5.8	4.5	5.5	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	CS(Mf)3	Bottom	11.1	3	1	10:52	28.2	7.83	19.8	5.8	4.7	5.7	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Flood	Fine	CS(Mf)3	Bottom	11.1	3	2	10:52	28.1	7.89	19.7	5.8	4.6	5.9	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	13:53	28.9	7.79	19.4	6.0	4.5	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	13:53	28.9	7.76	19.3	6.0	4.4	5.5	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	CS(Mf)3	Middle	5.9	2	1	13:53	28.5	7.82	19.6	5.8	4.5	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	CS(Mf)3	Middle	5.9	2	2	13:53	28.6	7.83	19.5	5.7	4.5	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.7	3	1	13:53	28.3	7.88	19.9	5.7	4.7	5.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.7	3	2	13:53	28.2	7.91	19.9	5.7	4.6	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	SR4a	Surface	1	1	1	15:42	28.7	7.74	19.3	6.1	4.2	5.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	SR4a	Surface	1	1	2	15:42	28.6	7.71	19.1	6.0	4.2	5.3	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	SR4a	Middle		2	1	15:42							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	SR4a	Middle		2	2	15:42							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	SR4a	Bottom	4	3	1	15:42	28.3	7.86	19.8	5.8	4.5	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	SR4a	Bottom	4	3	2	15:42	28.2	7.83	19.8	5.9	4.6	5.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	SR4	Surface	1	1	1	15:25	28.8	7.76	19.3	5.9	4.4	5.3	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	SR4	Surface	1	1	2	15:25	28.7	7.79	19.4	5.9	4.4	5.1	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	SR4	Middle		2	1	15:25							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	SR4	Middle		2	2	15:25							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	SR4	Bottom	4.1	3	1	15:25	28.3	7.73	19.7	5.7	4.5	5.7	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	SR4	Bottom	4.1	3	2	15:25	28.3	7.71	19.6	5.7	4.5	5.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS8	Surface	1	1	1	15:06	28.8	7.78	19.3	5.9	4.5	5.5	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS8	Surface	1	1	2	15:06	28.8	7.76	19.1	5.8	4.5	5.7	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS8	Middle		2	1	15:06							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS8	Middle		2	2	15:06							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS8	Bottom	4	3	1	15:06	28.5	7.78	19.7	5.5	4.5	5.6	2014-09-01

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	2014-08-30	Mid-Ebb	Fine	IS8	Bottom	4	3	2	15:06	28.4	7.77	19.6	5.5	4.5	5.9	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	14:40	28.7	7.76	19.4	6.0	4.4	5.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	14:40	28.6	7.75	19.3	5.9	4.4	5.5	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS(Mf)16	Middle	4.5	2	1	14:40	28.4	7.78	19.7	5.7	4.6	5.3	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS(Mf)16	Middle	4.5	2	2	14:40	28.5	7.76	19.6	5.8	4.6	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.9	3	1	14:40	28.1	7.86	19.9	5.6	4.8	5.9	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.9	3	2	14:40	28.1	7.81	19.9	5.6	4.8	5.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	14:18	28.8	7.74	19.4	5.9	4.3	5.2	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	14:18	28.7	7.76	19.3	5.9	4.3	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	14:18							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	14:18							2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.3	3	1	14:18	28.4	7.86	19.4	5.8	4.6	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.3	3	2	14:18	28.4	7.81	19.7	5.8	4.5	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	16:00	28.6	7.87	19.4	6.0	4.2	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	16:00	28.6	7.86	19.4	6.1	4.3	5.5	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	CS(Mf)5	Middle	4.9	2	1	16:00	28.3	7.77	19.7	6.0	4.4	5.6	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	CS(Mf)5	Middle	4.9	2	2	16:00	28.4	7.81	19.8	6.0	4.3	5.4	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.7	3	1	16:00	28.1	7.82	19.6	5.9	4.6	5.8	2014-09-01
TMCLKL	HY/2012/07	2014-08-30	Mid-Ebb	Fine	CS(Mf)5	Bottom	8.7	3	2	16:00	28.2	7.84	19.8	5.8	4.6	5.6	2014-09-01

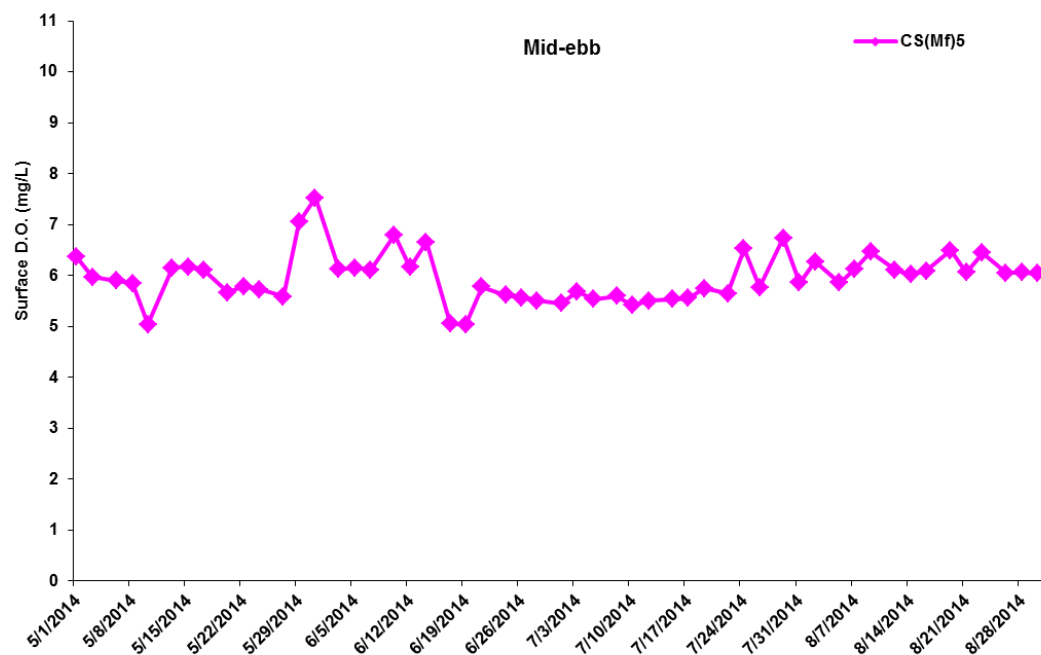
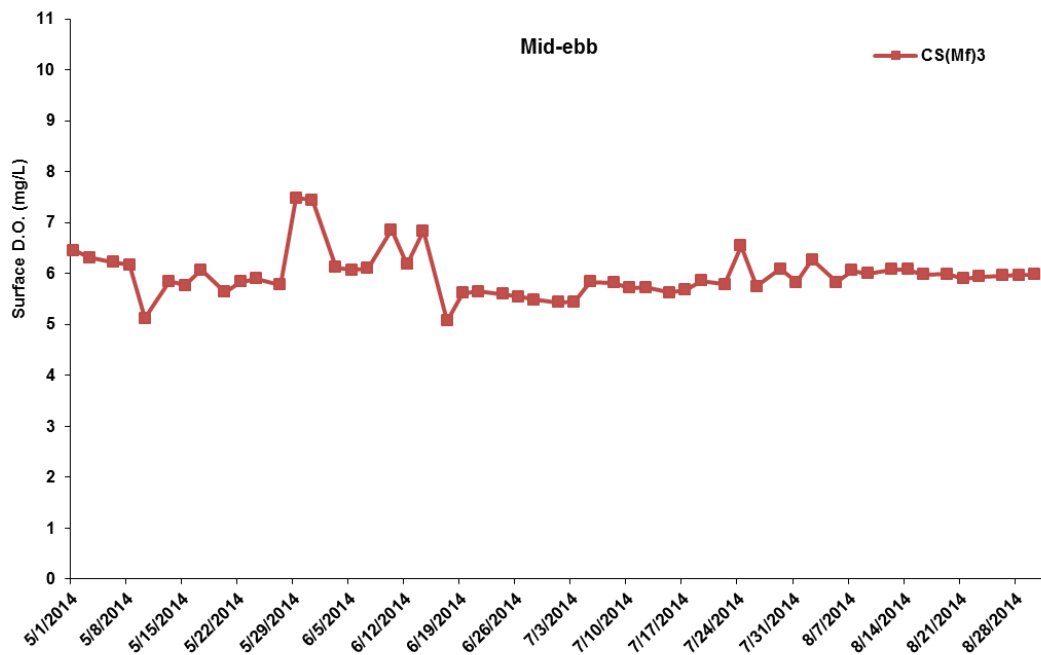


Figure J1 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 May and 31 August 2014 at CS(Mf)3 and CS(Mf)5.

(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.)

Environmental Resources Management



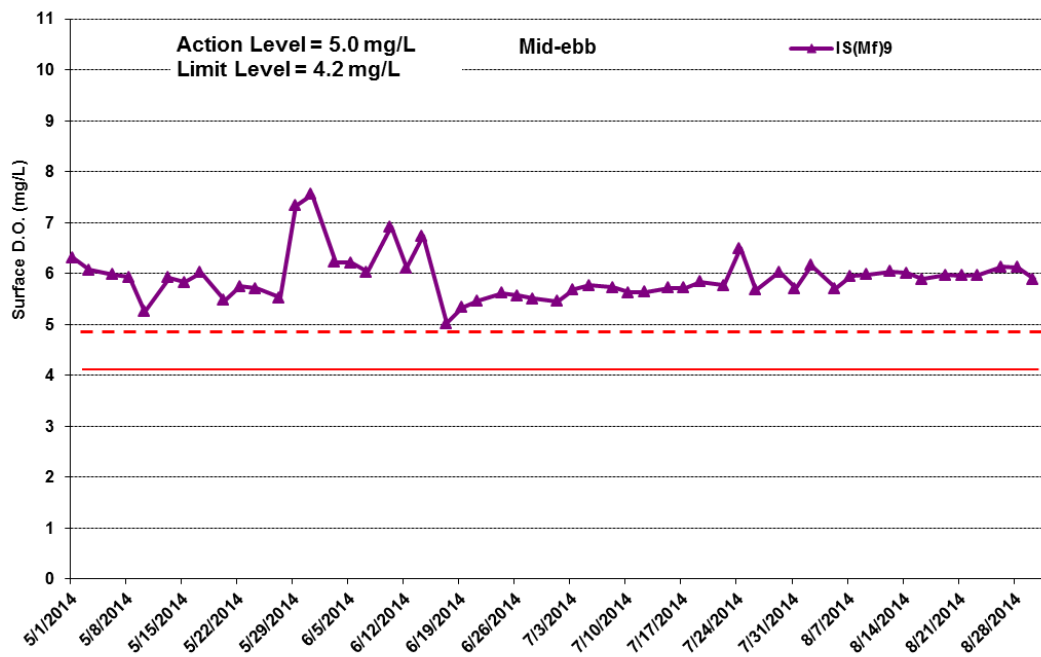
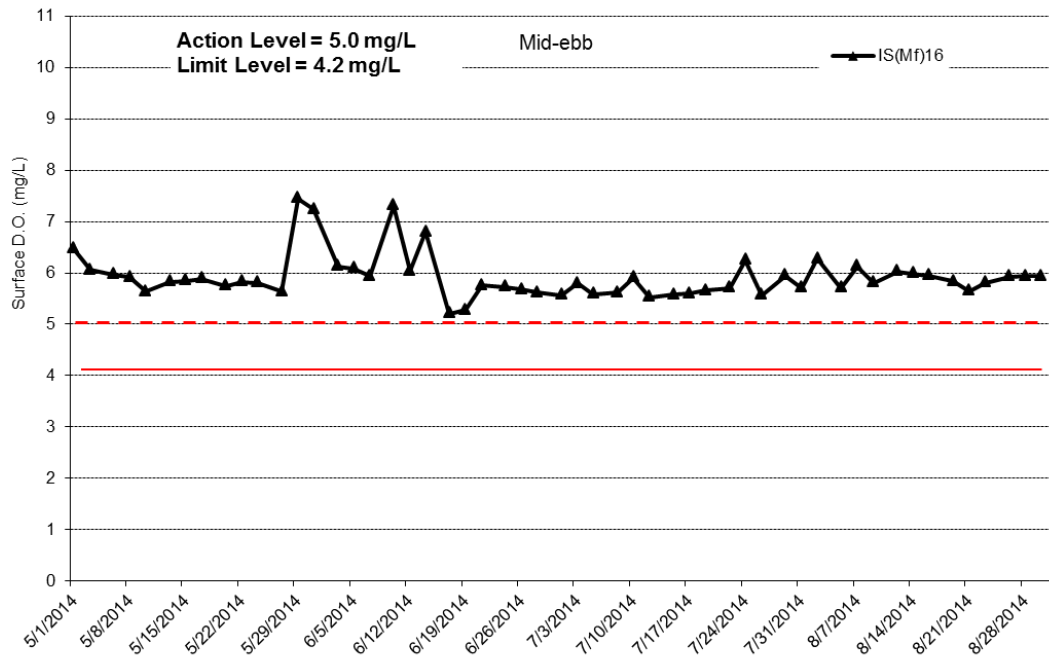


Figure J2 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 May and 31 August 2014 at IS(Mf)16 and IS(Mf)9.

(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.)

**Environmental
Resources
Management**



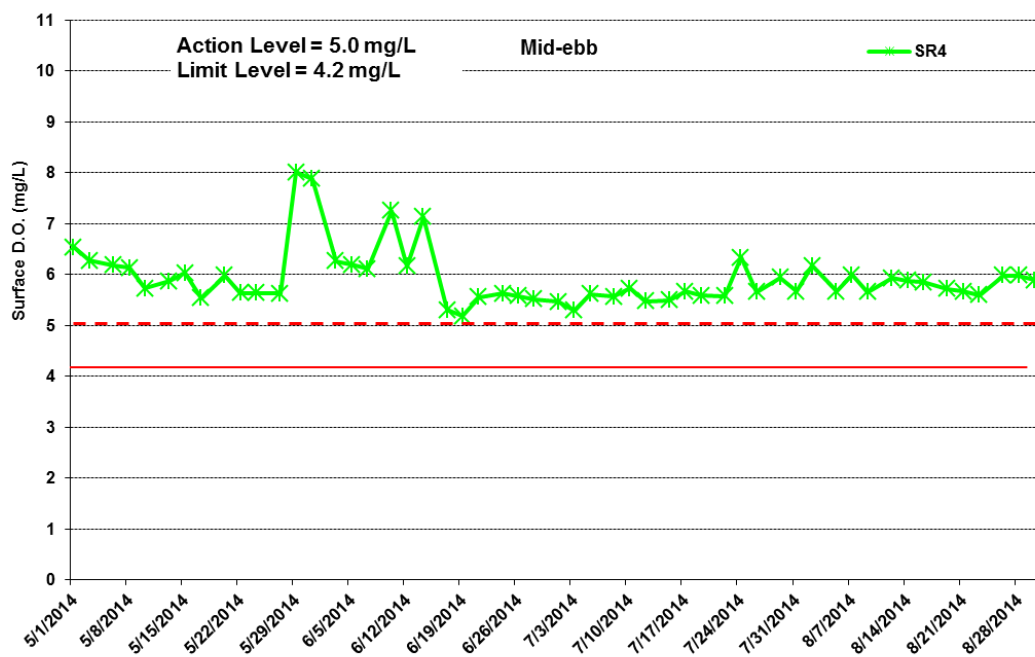
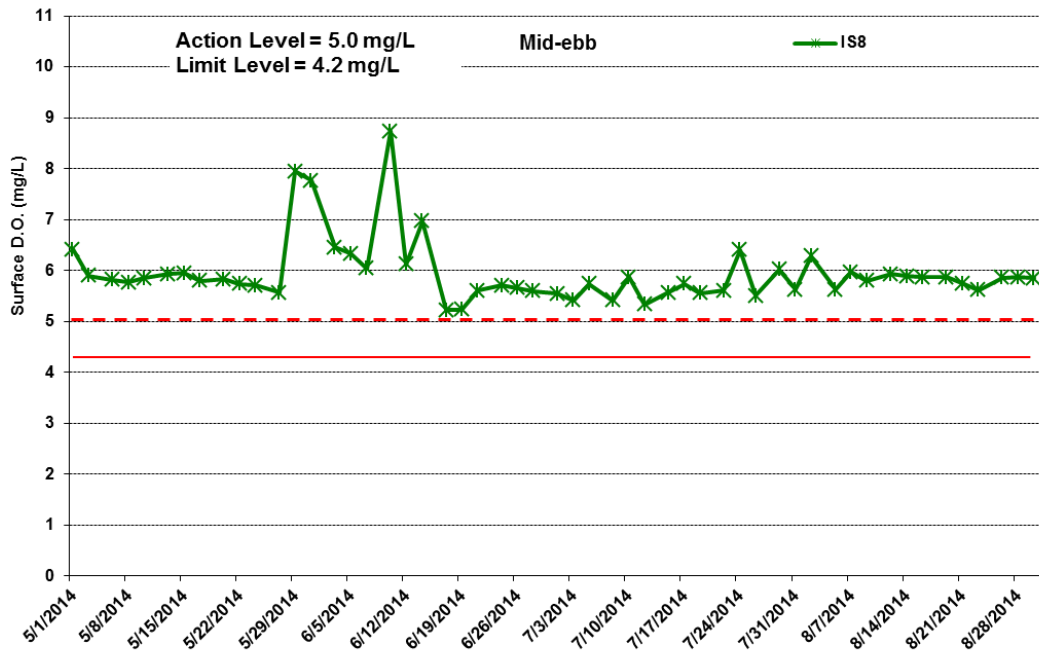


Figure J3 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 May and 31 August 2014 at IS8 and SR4.

(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.)

**Environmental
Resources
Management**



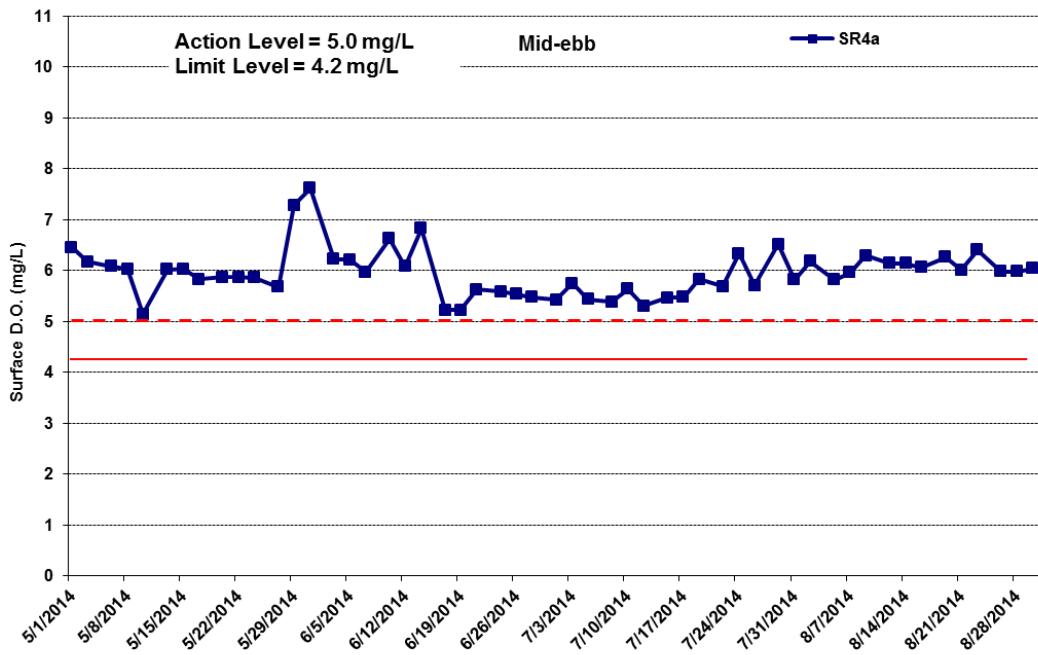


Figure J4 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 May and 31 August 2014 at SR4a.

(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.)

**Environmental
Resources
Management**



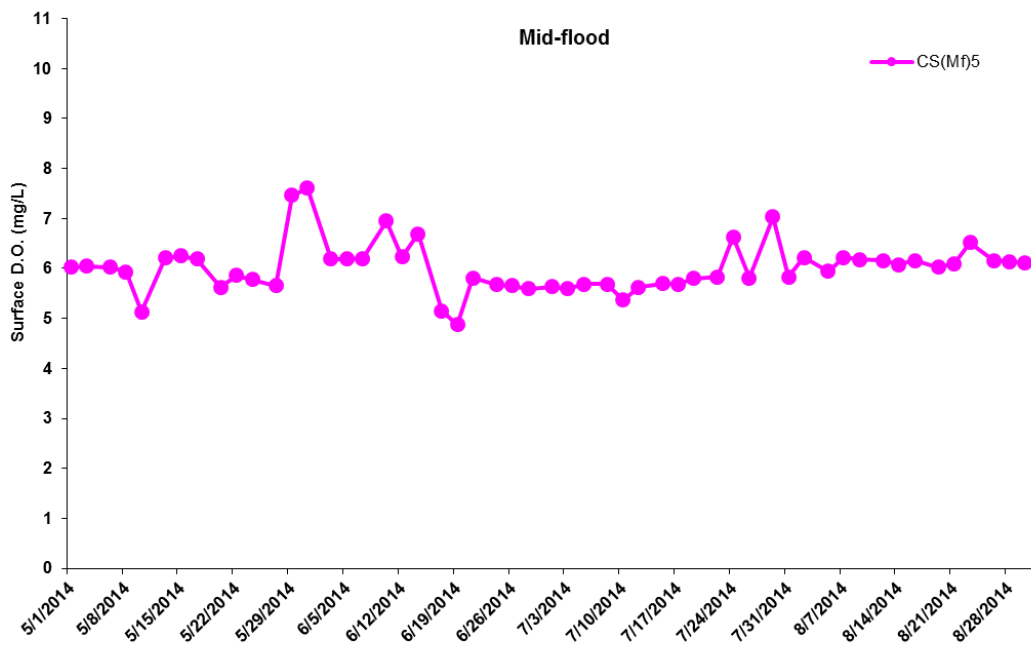
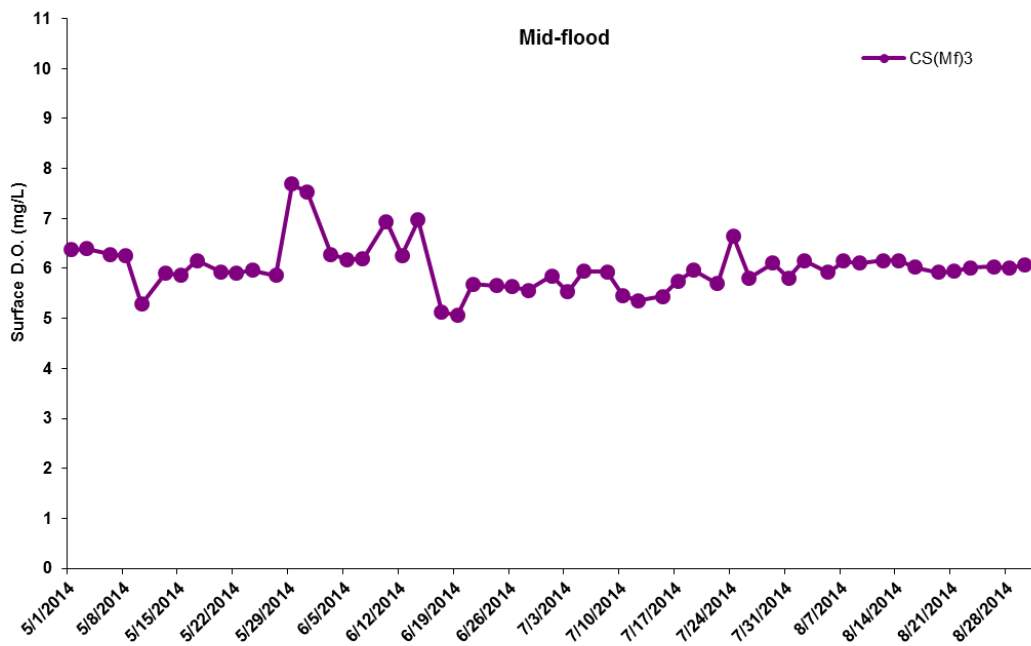


Figure J5 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 May and 31 August 2014 at CS(Mf)3 and CS(Mf)5.

(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.)

**Environmental
Resources
Management**



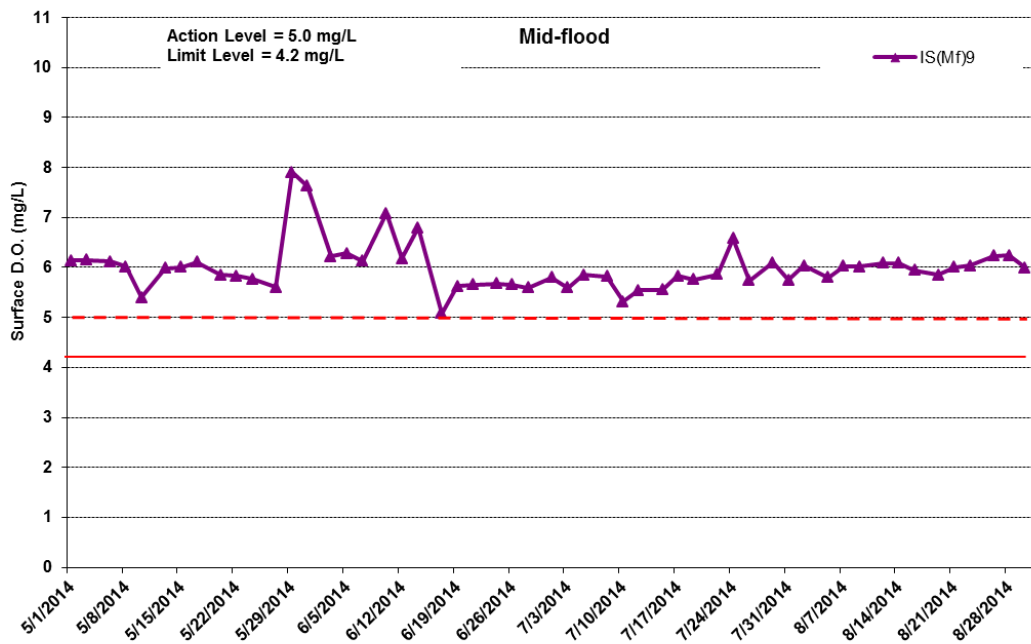
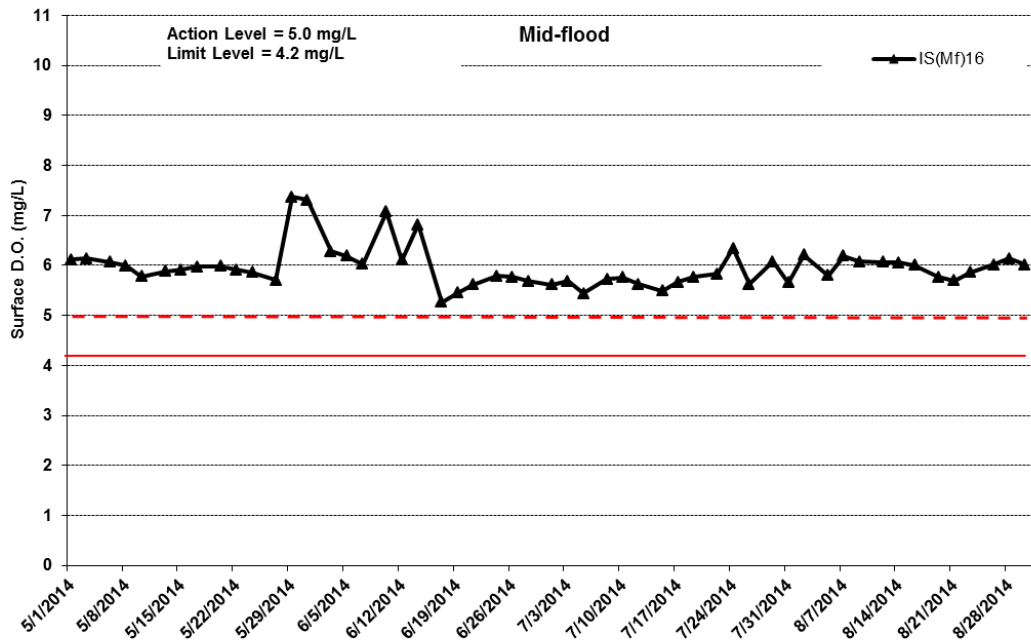


Figure J6 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 May and 31 August 2014 at IS(Mf)16 and IS(Mf)9.

(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.)

**Environmental
Resources
Management**



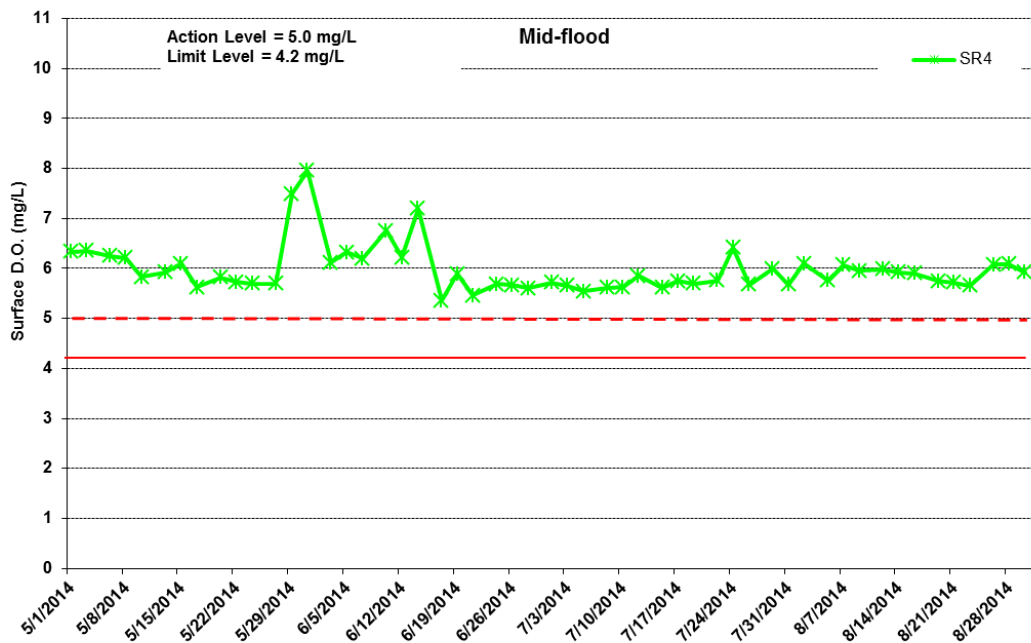
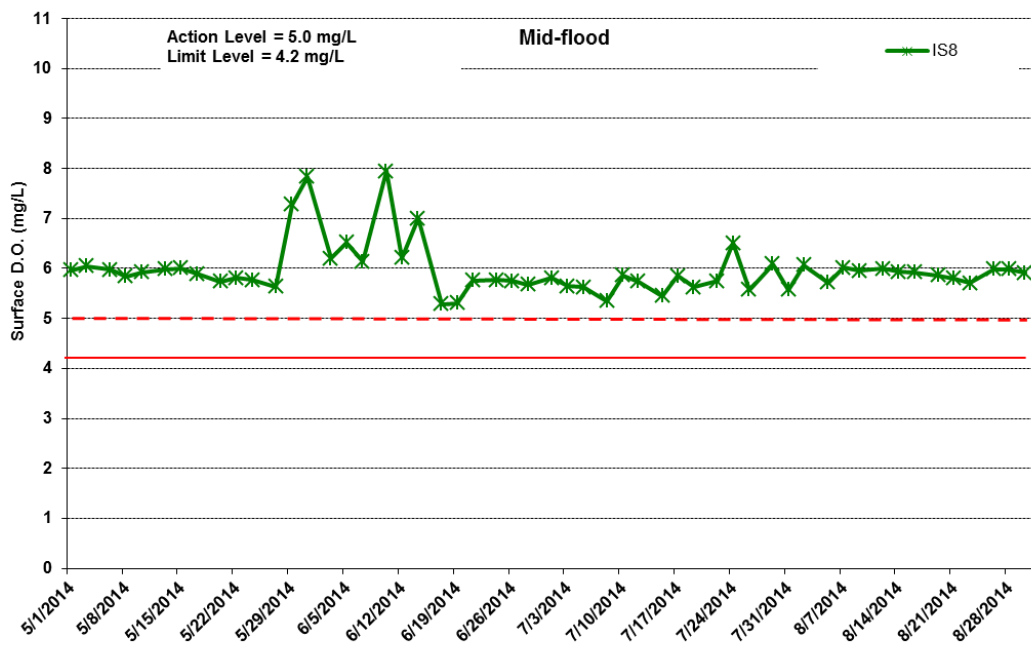


Figure J7 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 May and 31 August 2014 at IS8 and SR4.

(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.)

**Environmental
Resources
Management**



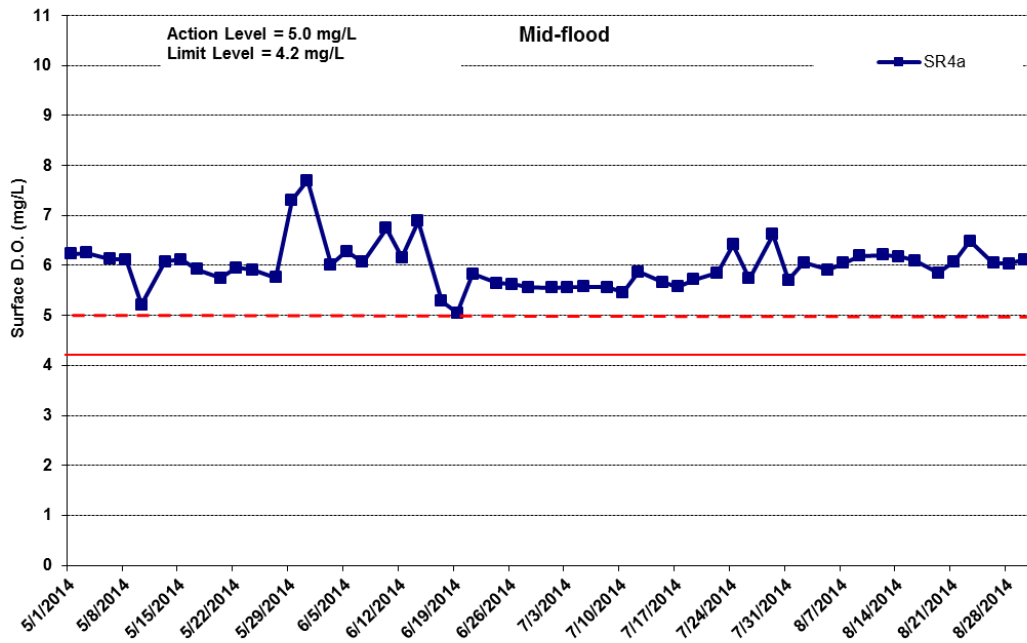


Figure J8 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 May and 31 August 2014 at SR4a.

(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.)

**Environmental
Resources
Management**



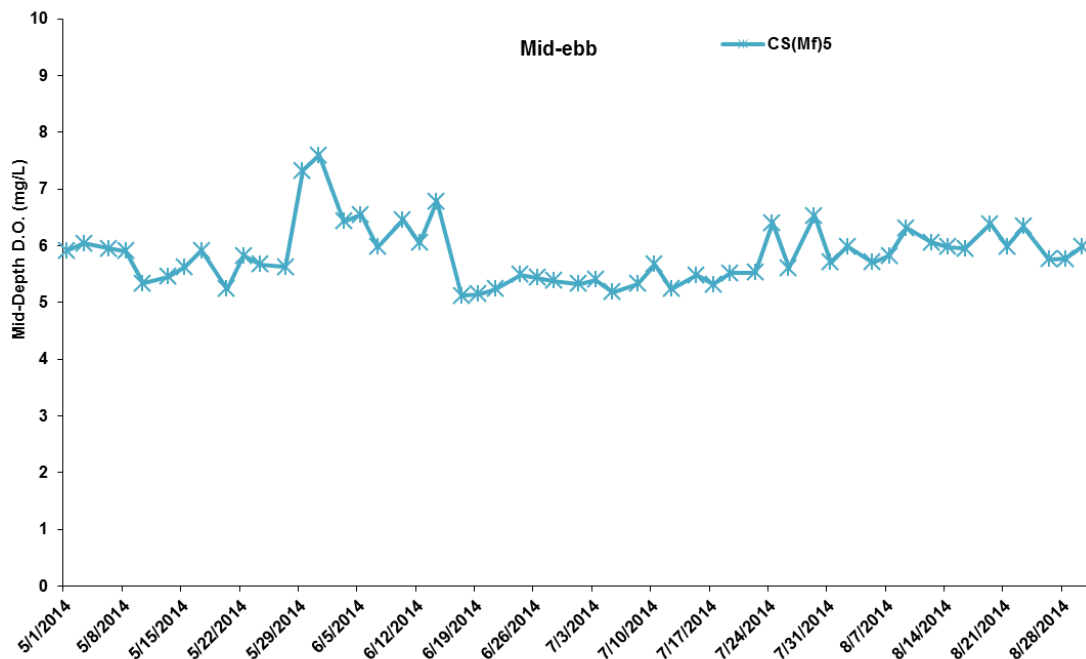
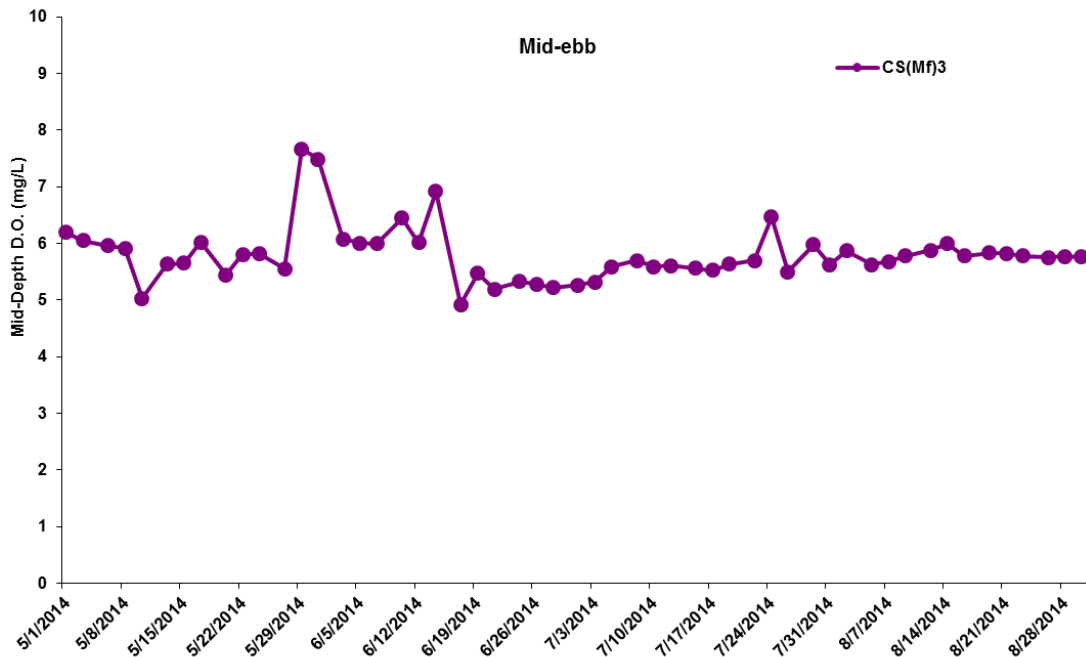


Figure J9 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 May and 31 August 2014 at CS(Mf)3 and CS(Mf)5.

(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.)

**Environmental
Resources
Management**



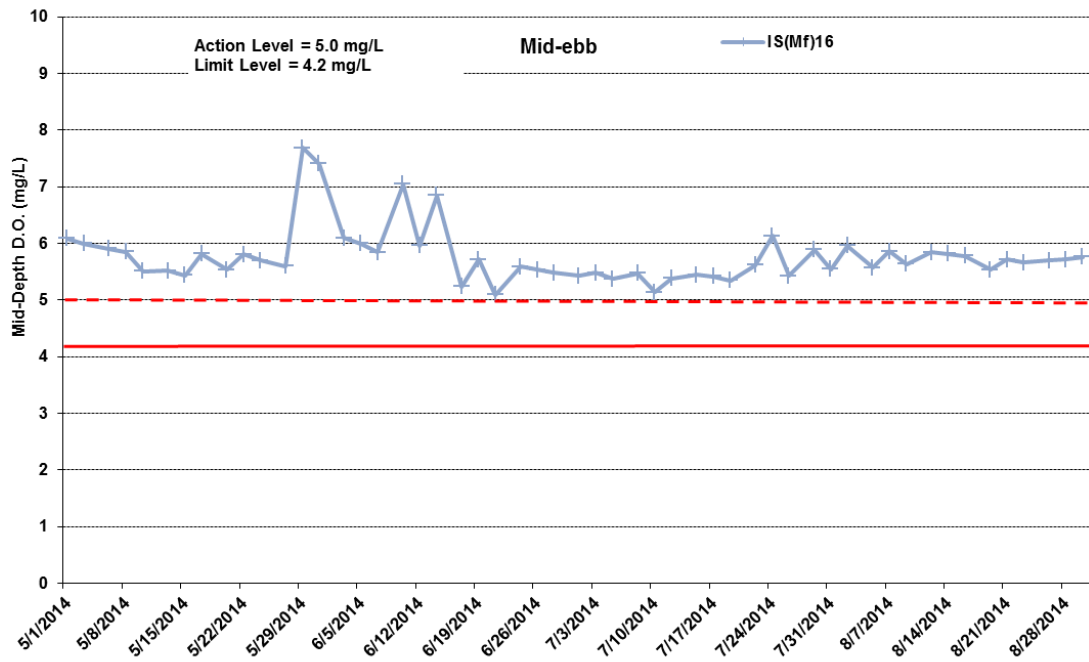


Figure J10 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 May and 31 August 2014 at IS(Mf)16.

(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.)

**Environmental
Resources
Management**



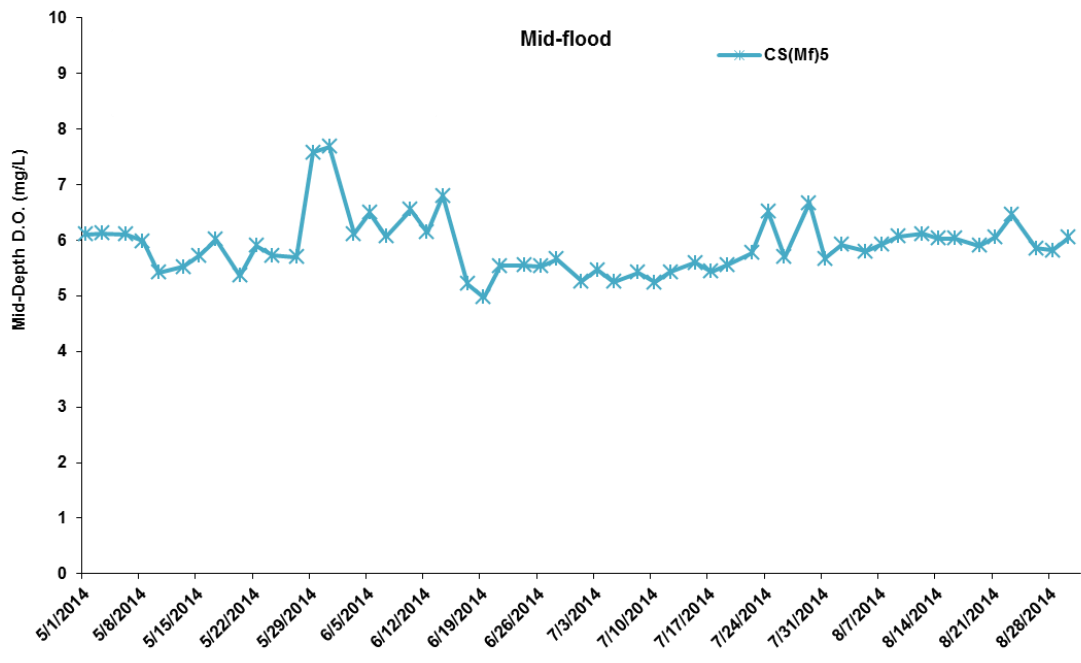
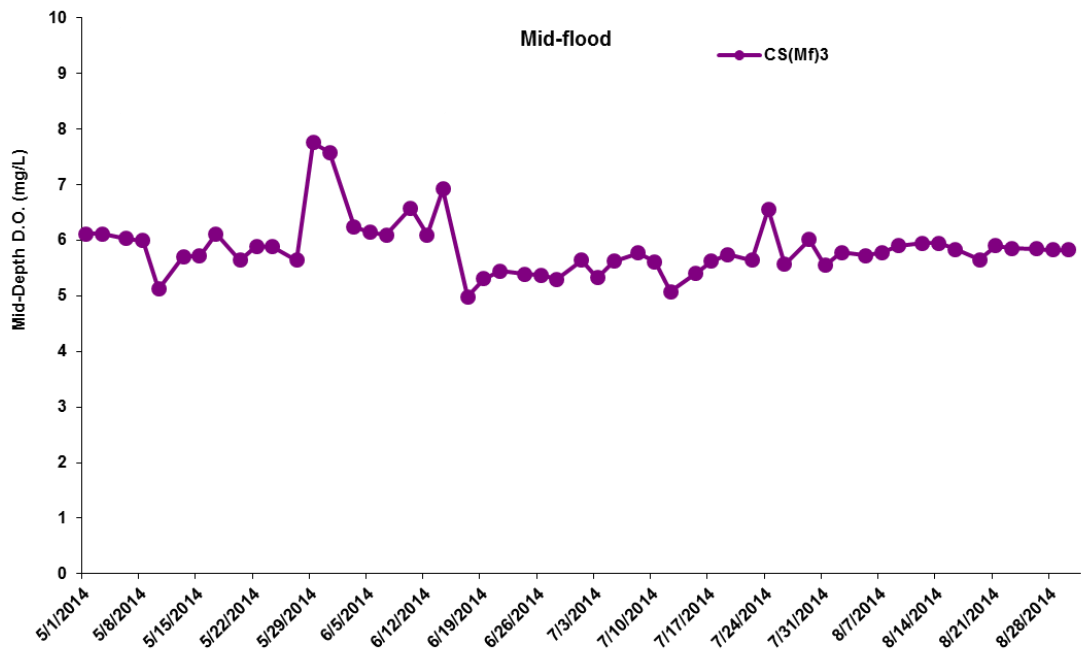


Figure J11 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 May and 31 August 2014 at CS(Mf)3 and CS(Mf)5.

(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.)

**Environmental
Resources
Management**



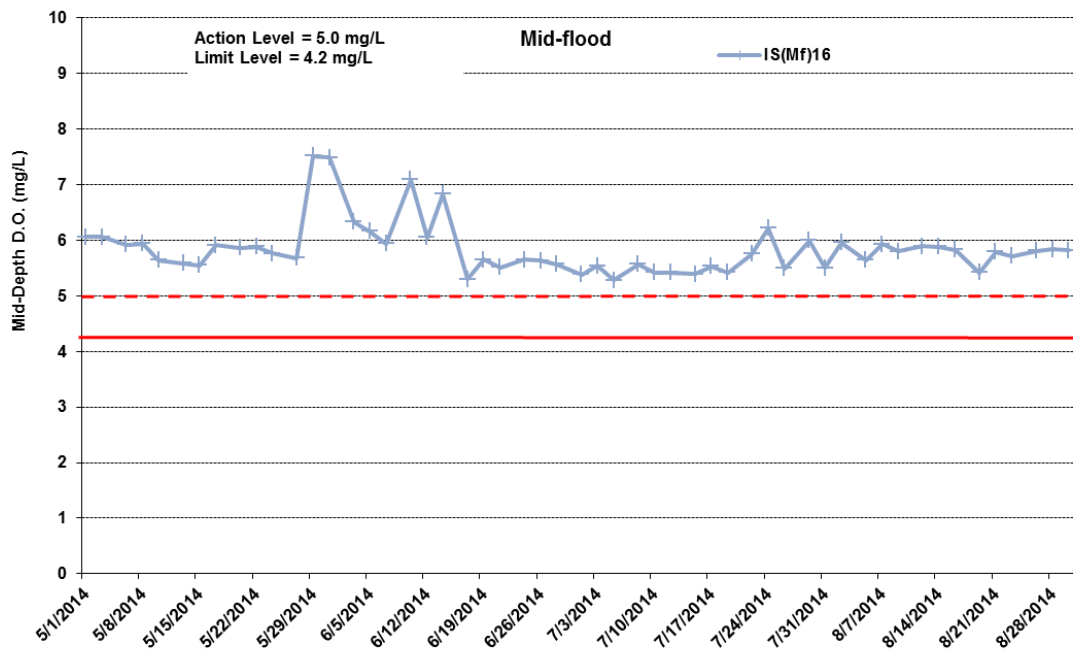


Figure J12 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 May and 31 August 2014 at IS(Mf)16.

(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.)

**Environmental
Resources
Management**



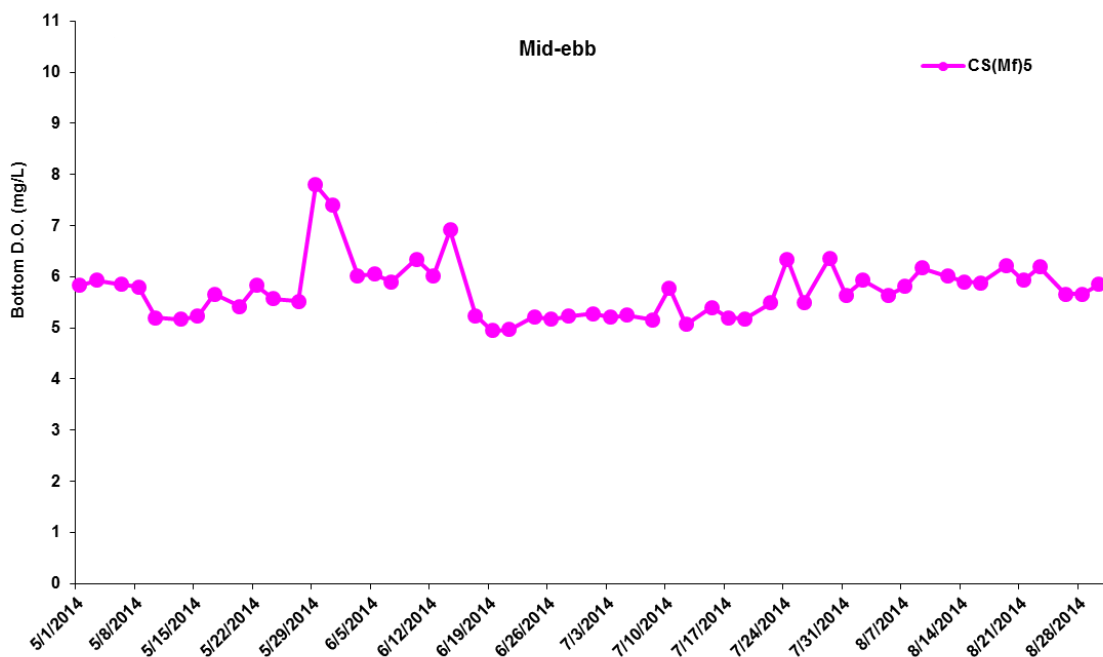
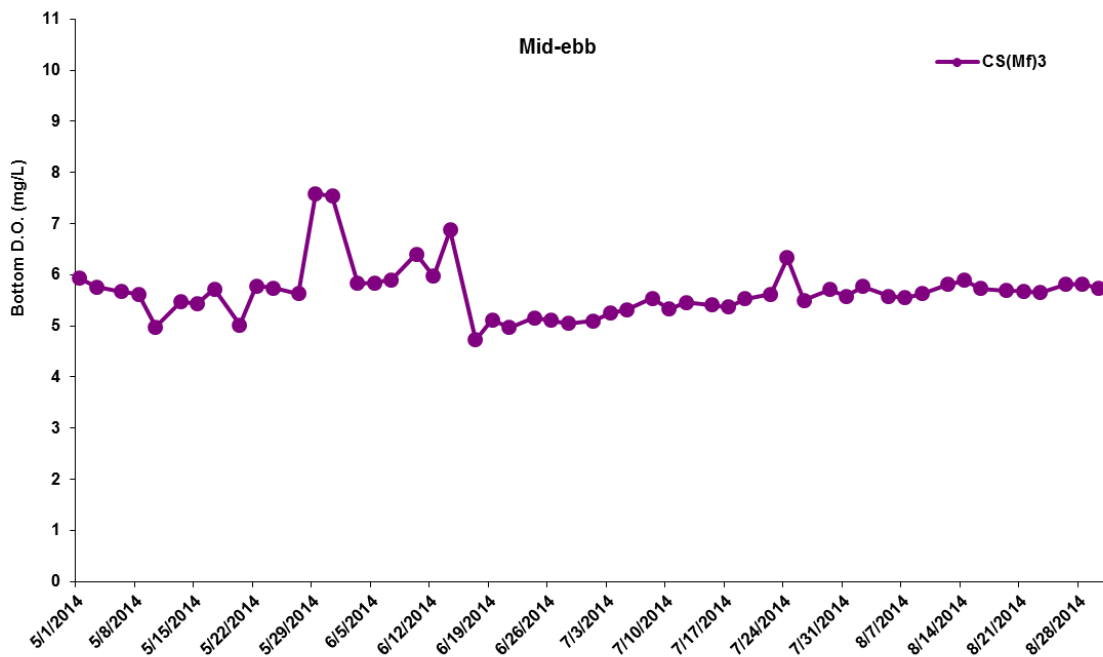


Figure J13 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 May and 31 August 2014 at CS(Mf)3 and CS(Mf)5.

(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.)

**Environmental
Resources
Management**



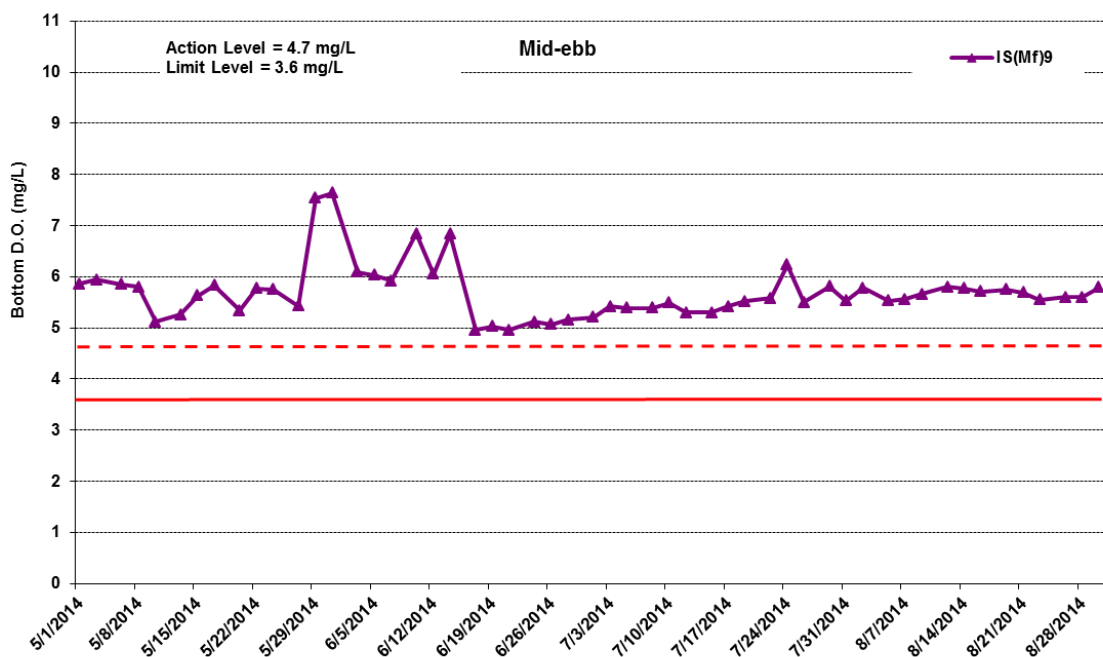
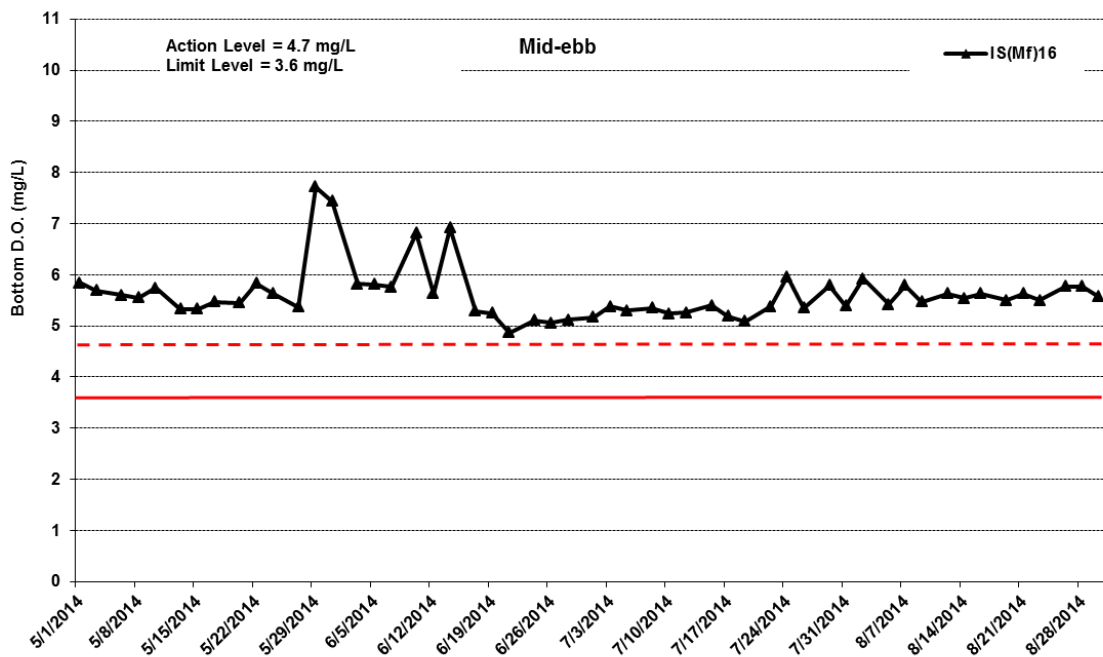


Figure J14 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 May and 31 August 2014 at IS(Mf)16 and IS(Mf)9.

(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.)

**Environmental
Resources
Management**



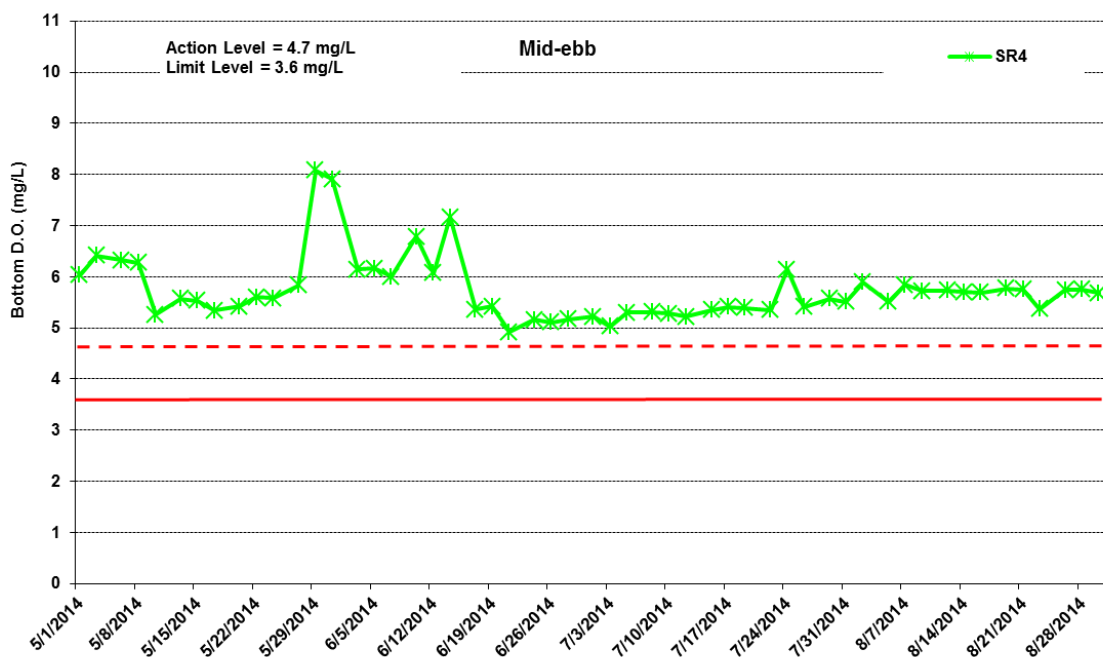
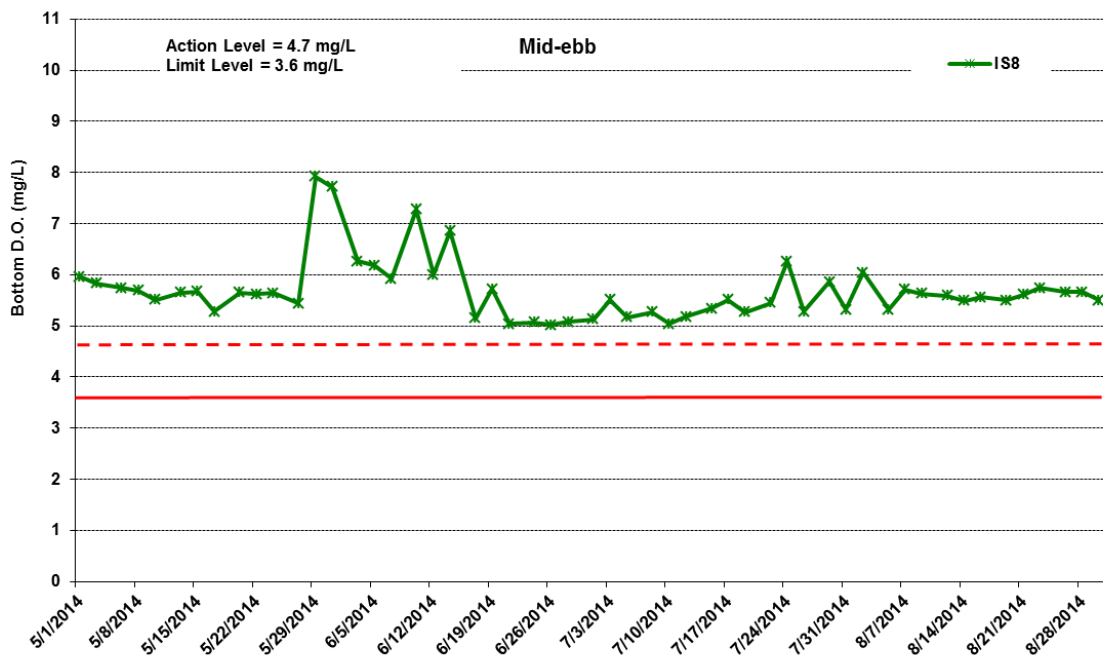


Figure J15 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 May and 31 August 2014 at IS8 and SR4.

(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.)

**Environmental
Resources
Management**



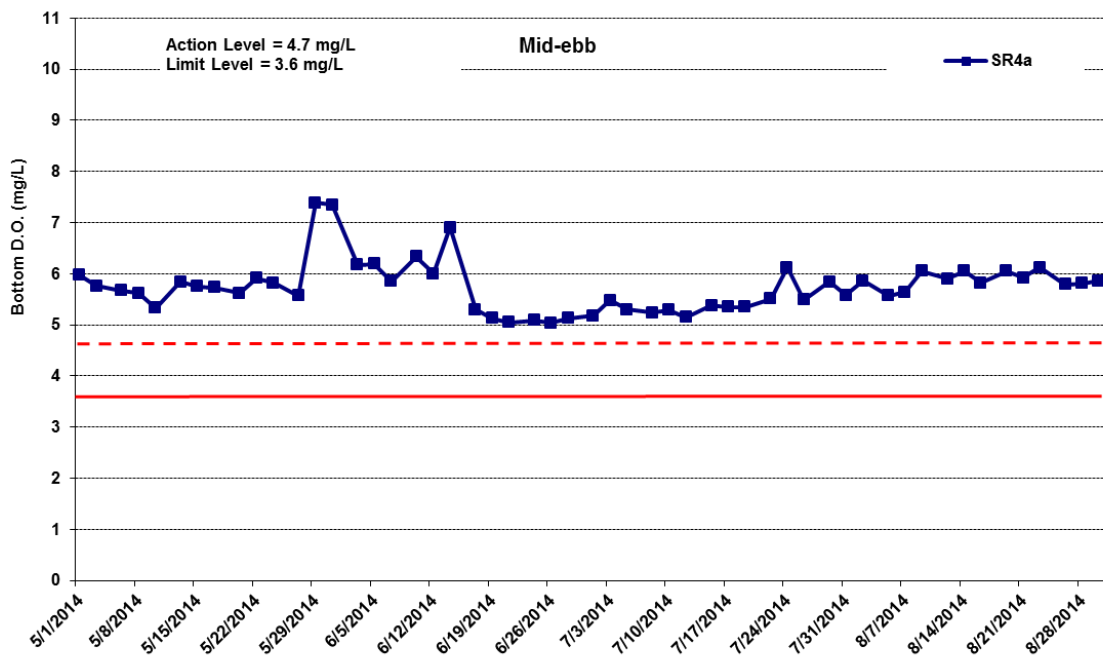


Figure J16 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 May and 31 August 2014 at SR4a.

(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.)

**Environmental
Resources
Management**



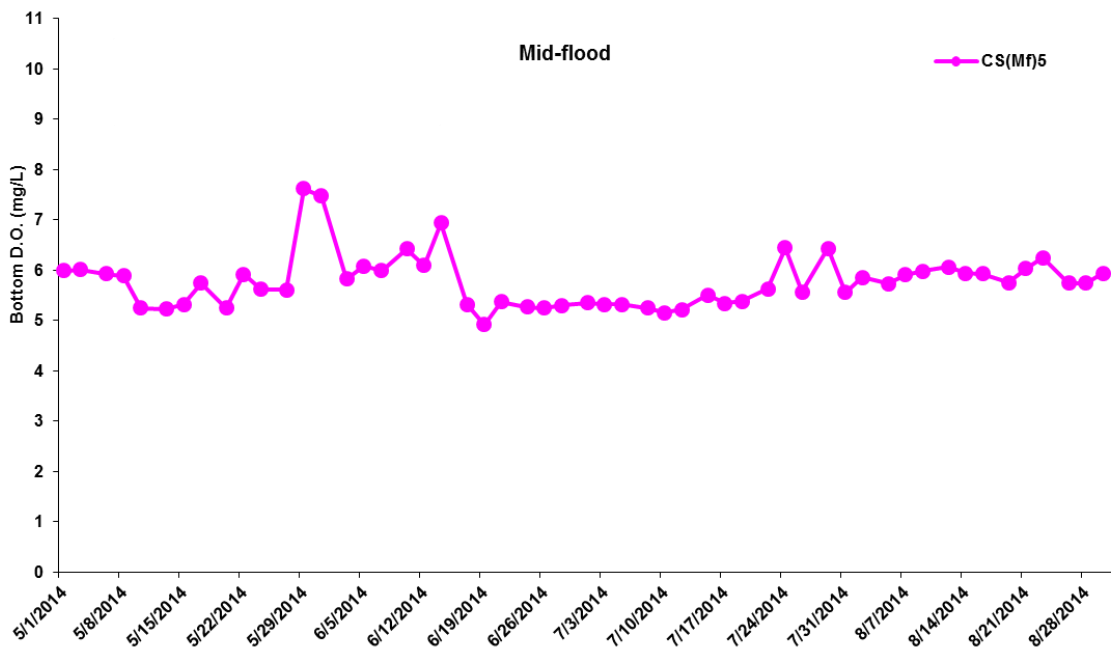
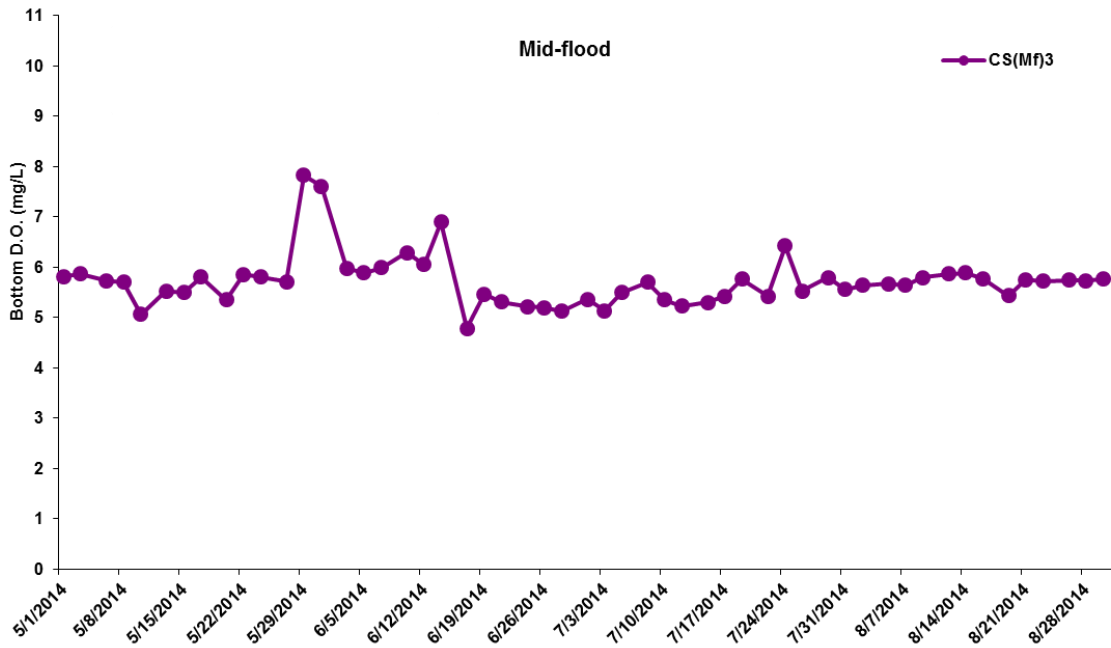


Figure J17 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 May and 31 August 2014 at CS(Mf)3 and CS(Mf)5.

(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.)

**Environmental
Resources
Management**



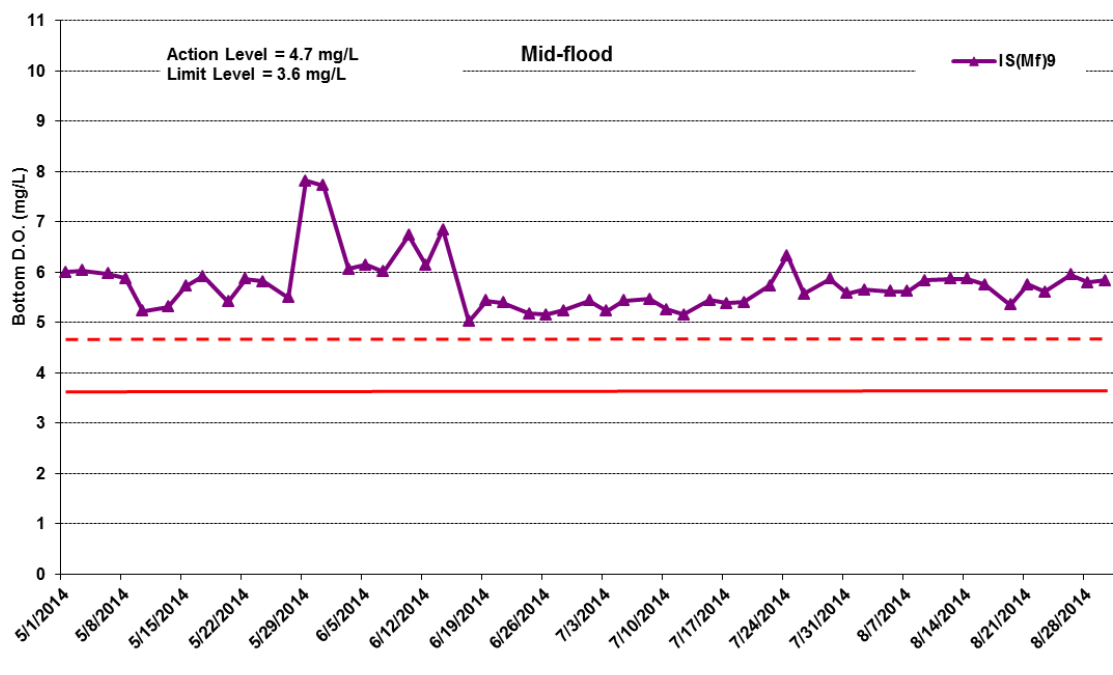
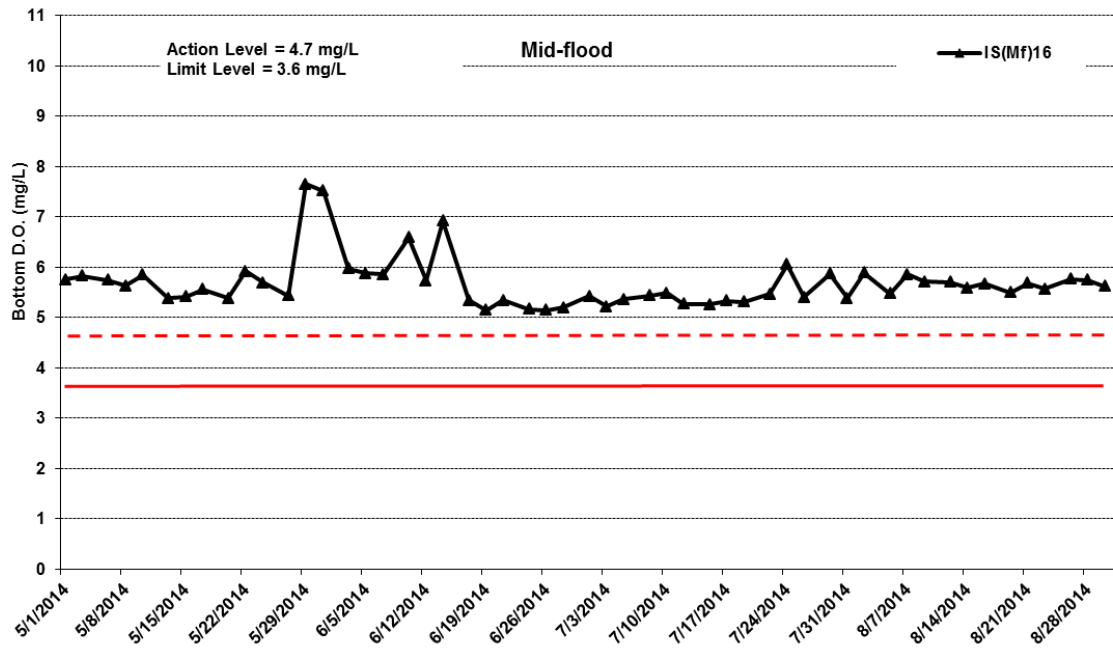


Figure J18 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 May and 31 August 2014 at IS(Mf)16 and IS(Mf)9.

(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.)

**Environmental
Resources
Management**



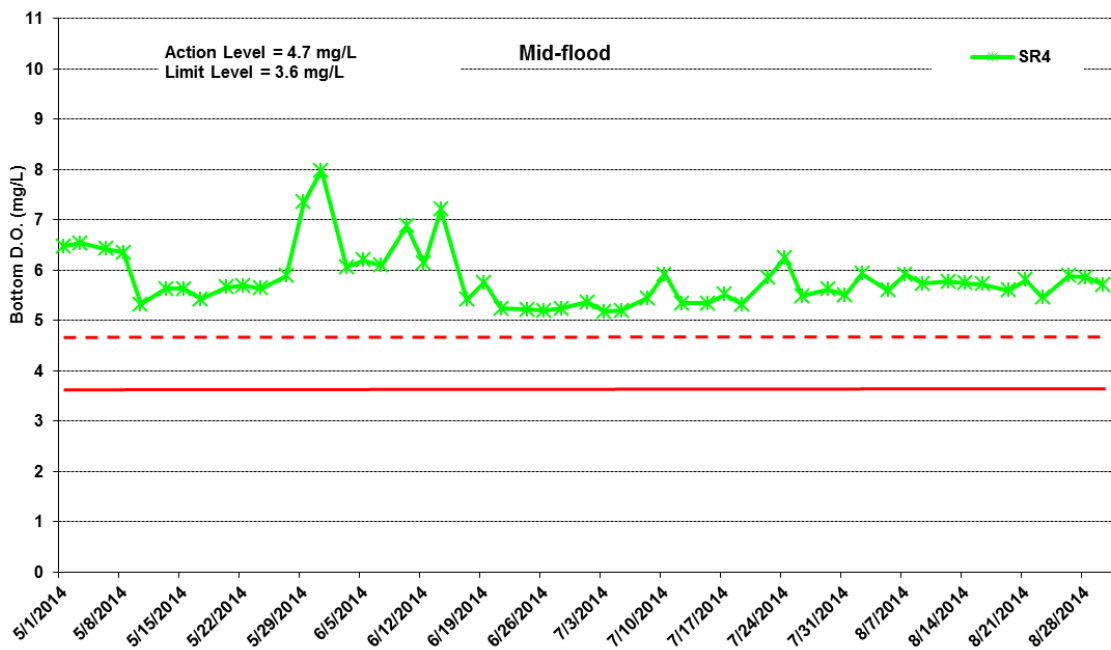
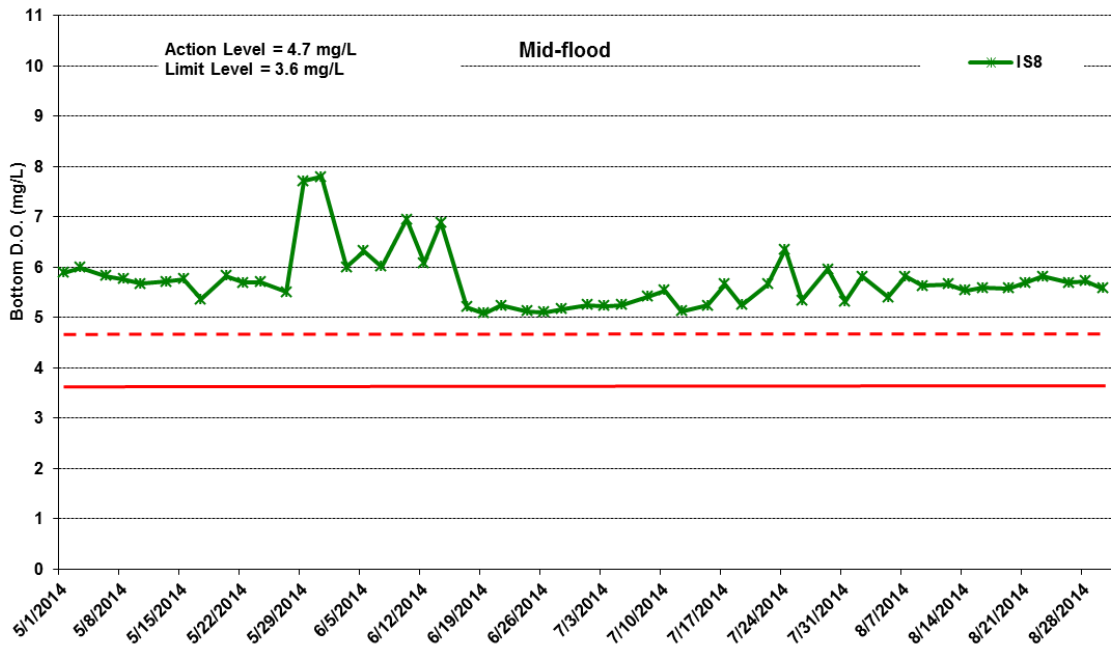


Figure J19 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 May and 31 August 2014 at IS8 and SR4.

(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.)

**Environmental
Resources
Management**



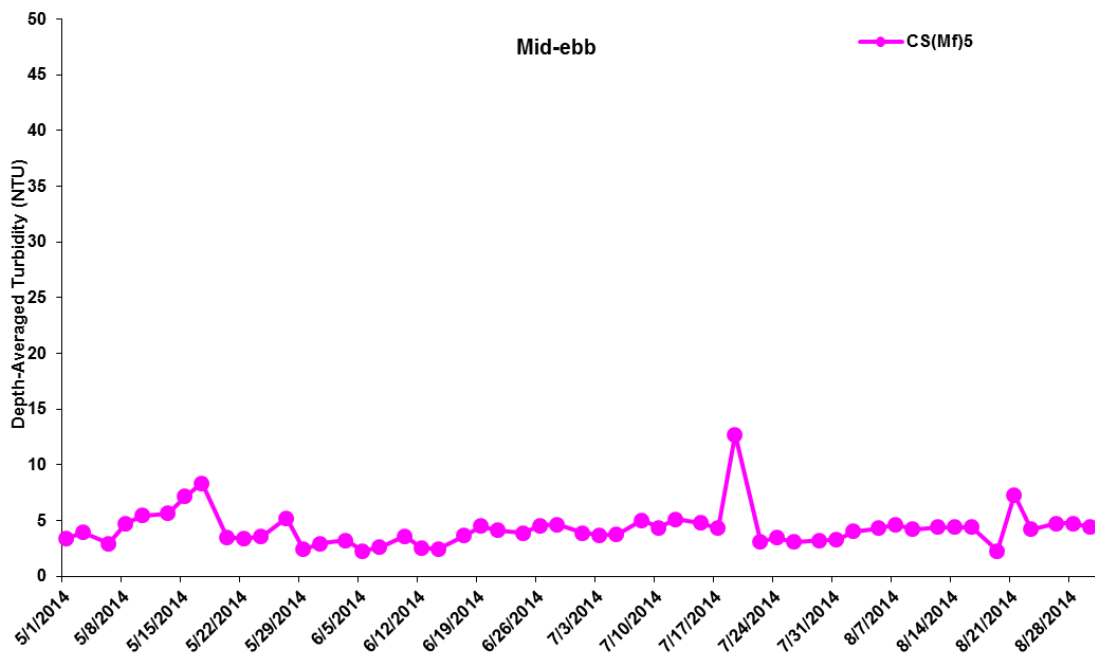
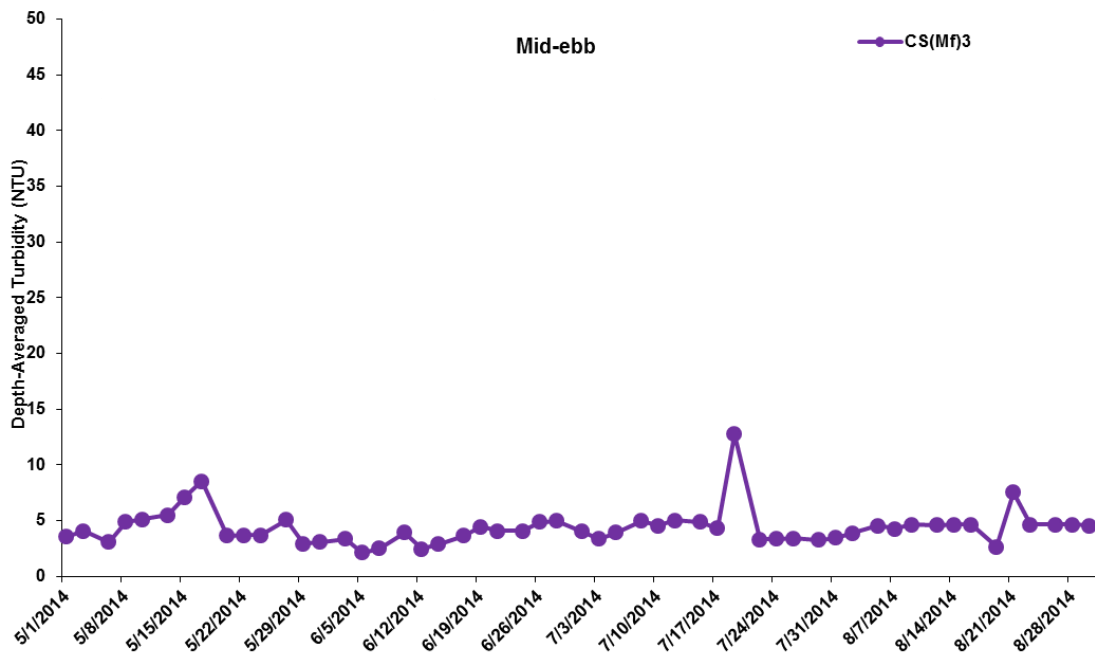


Figure J21 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 May and 31 August 2014 at CS(Mf)3 and CS(Mf)5.

(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.)

**Environmental
Resources
Management**



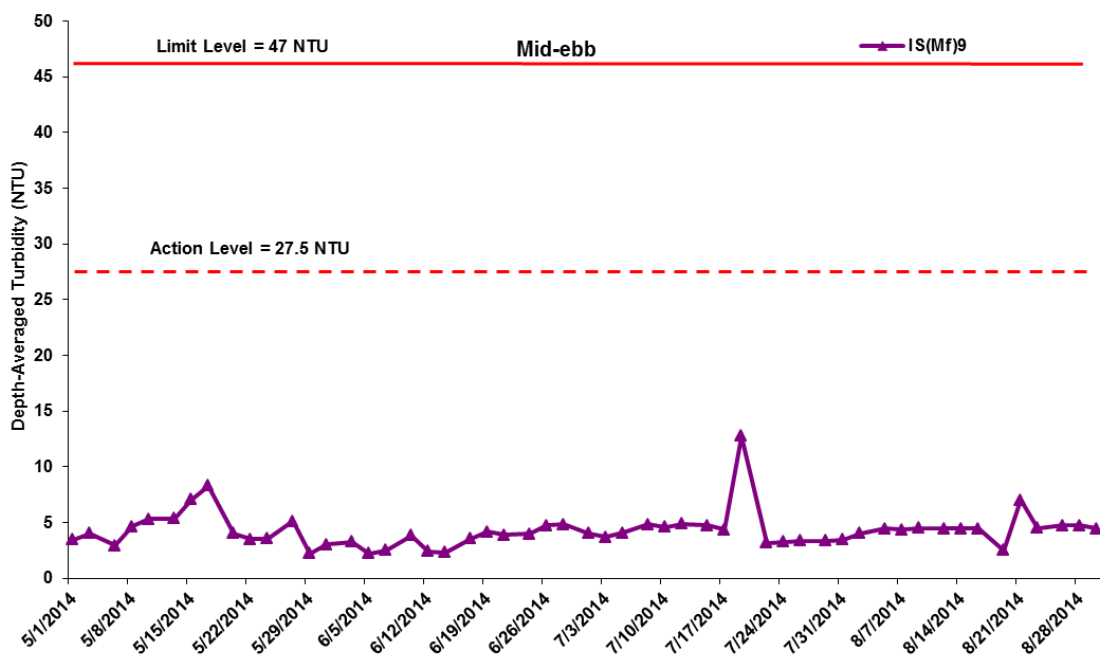
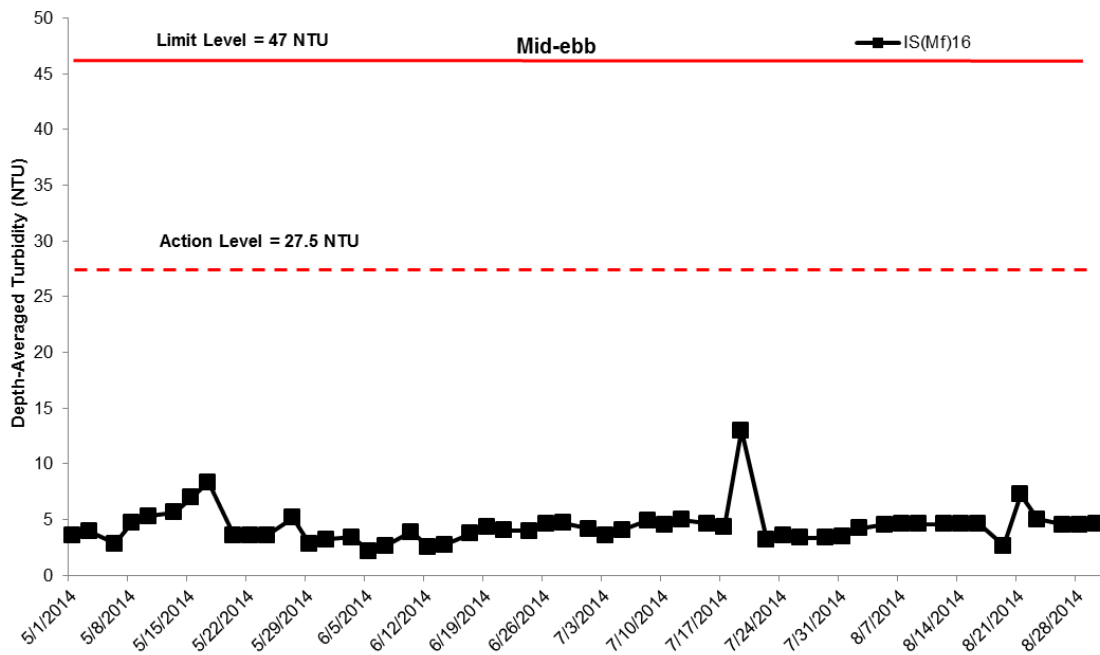


Figure J22 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 May and 31 August 2014 at IS(Mf)16 and IS(Mf)9.

(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.)

**Environmental
Resources
Management**



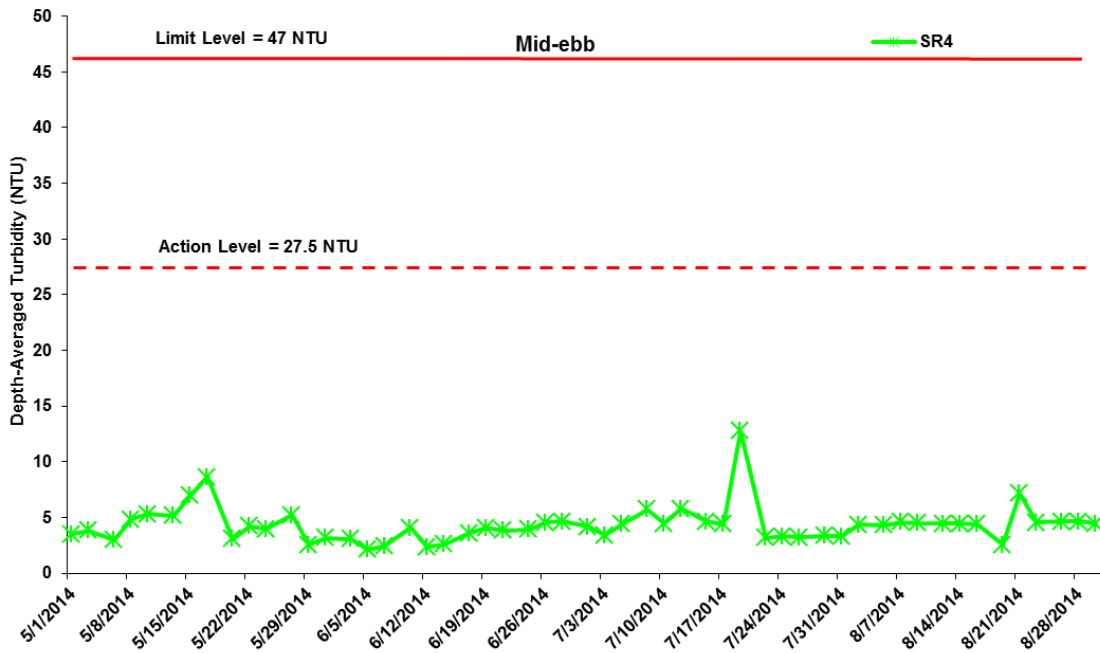
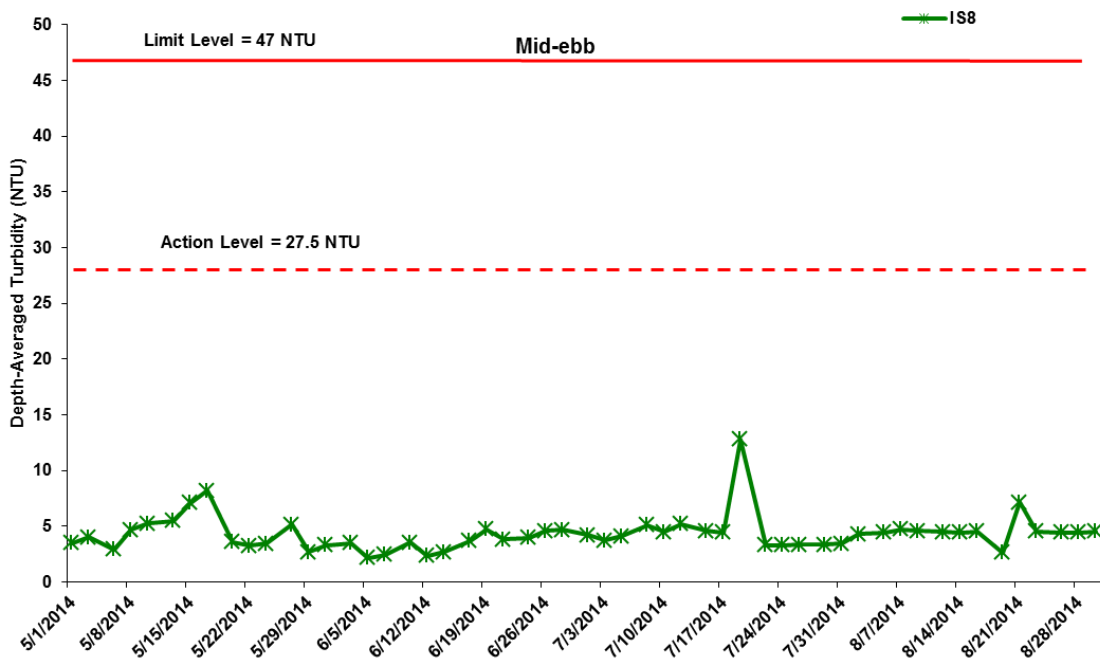


Figure J23 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 May and 31 August 2014 at IS8 and SR4.

(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.)

**Environmental
Resources
Management**



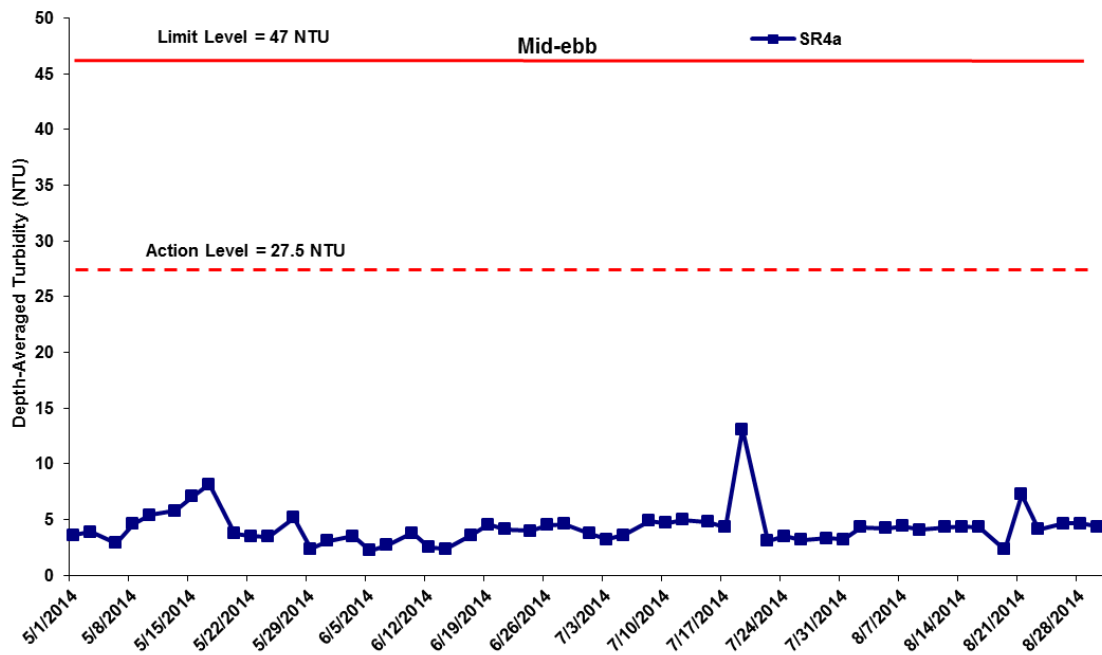


Figure J24 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 May and 31 August 2014 at SR4a.

(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.)

**Environmental
Resources
Management**



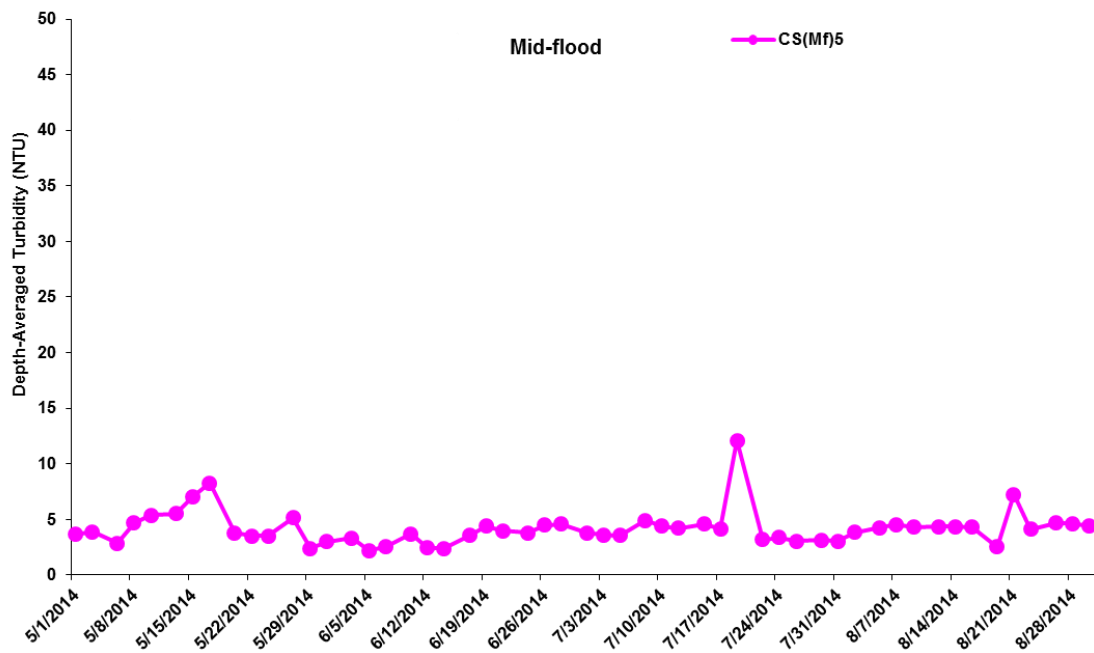
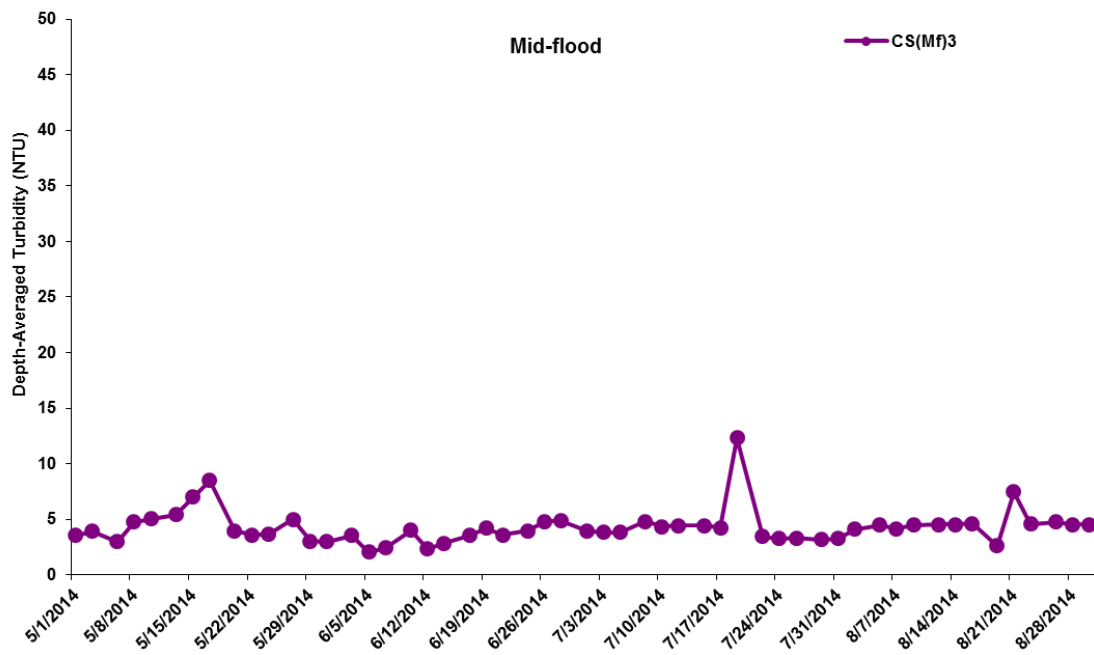


Figure J25 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 May and 31 August 2014 at CS(Mf)3 and CS(MF)5.

(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.)

**Environmental
Resources
Management**



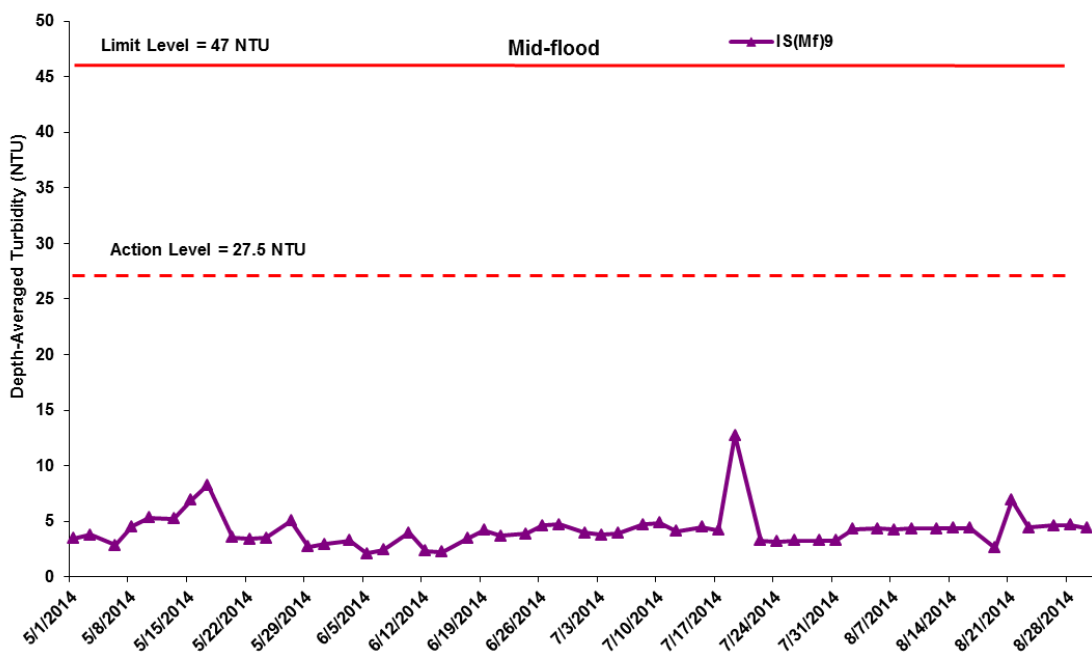
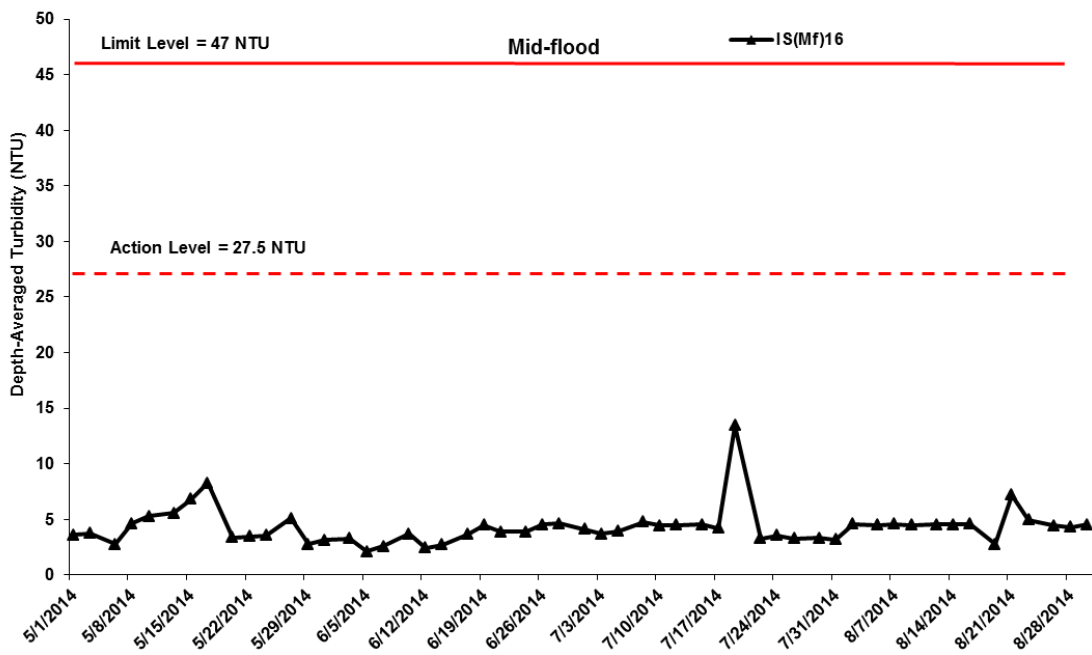


Figure J26 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 May and 31 August 2014 at IS(Mf)16 and IS(Mf)9.

(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.)

**Environmental
Resources
Management**



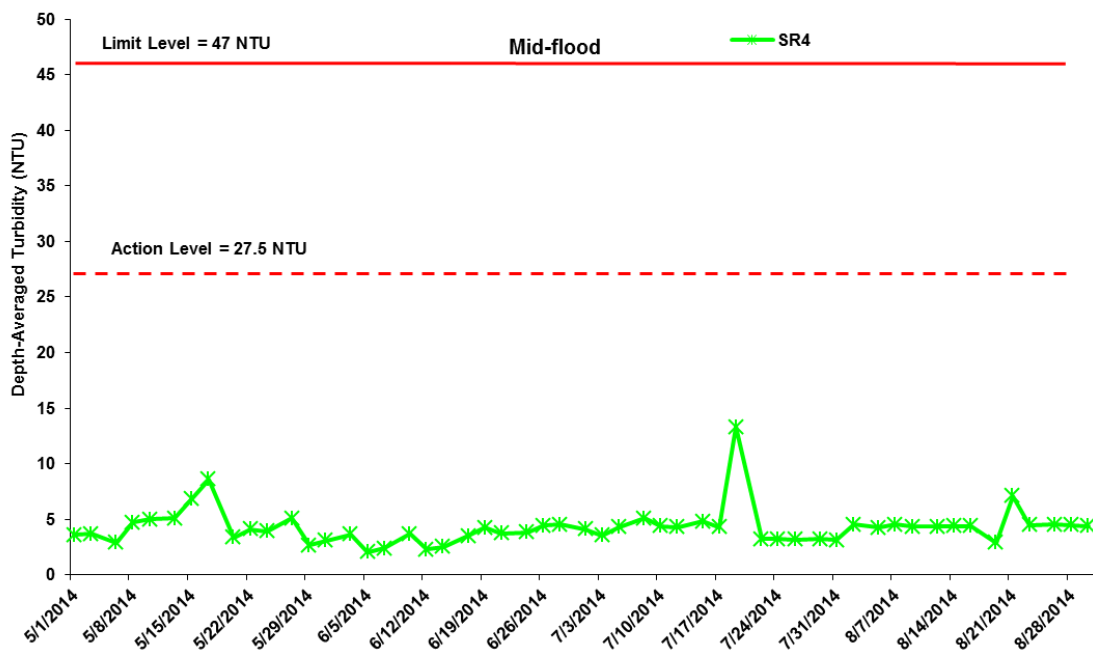
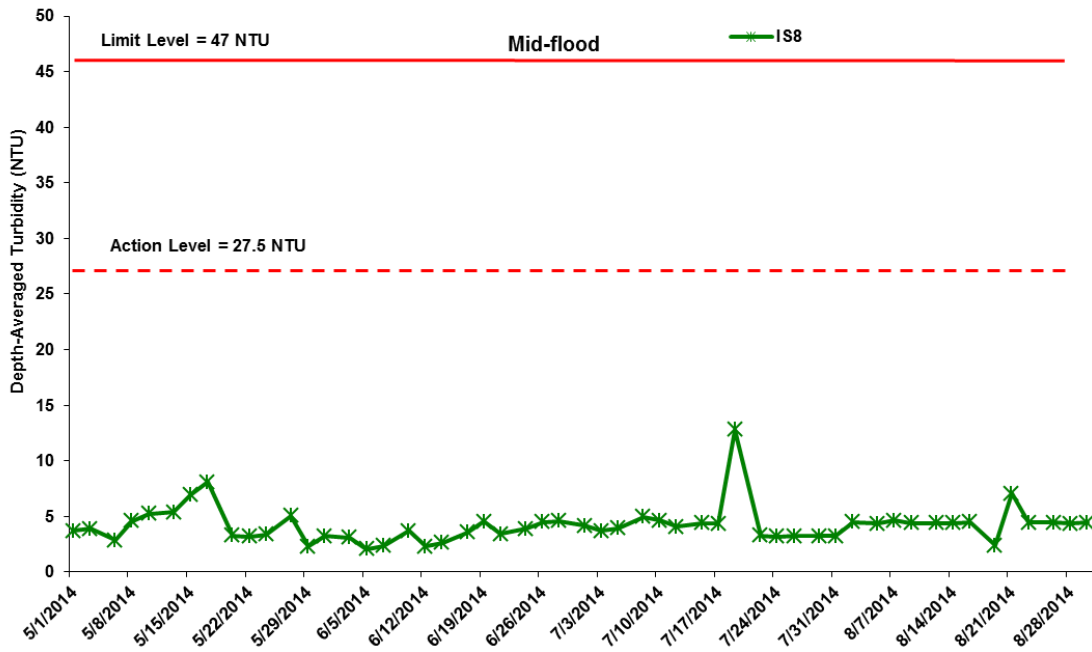


Figure J27 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 May and 31 August 2014 at IS8 and SR4.

(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.)

**Environmental
Resources
Management**



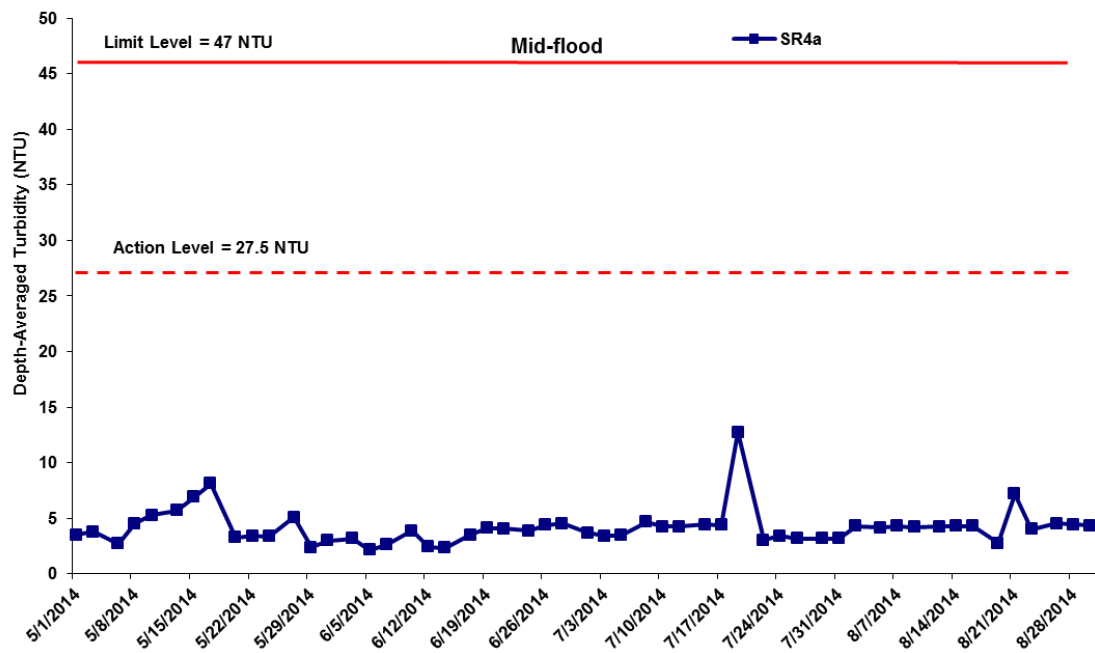


Figure J28 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 May and 31 August 2014 at SR4a.

(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.)

**Environmental
Resources
Management**



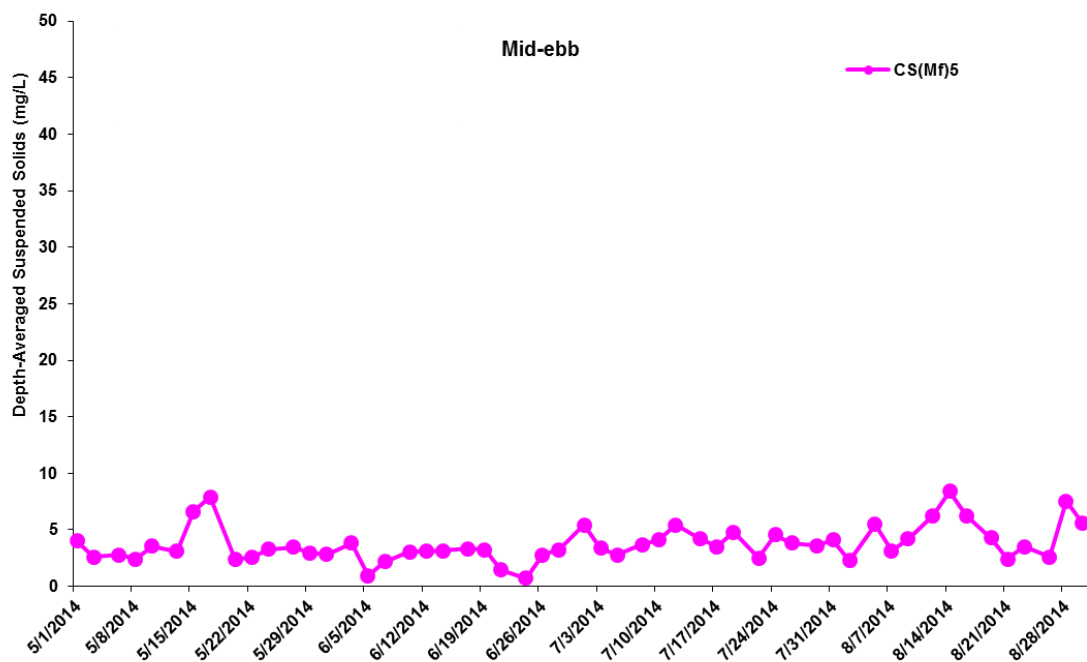
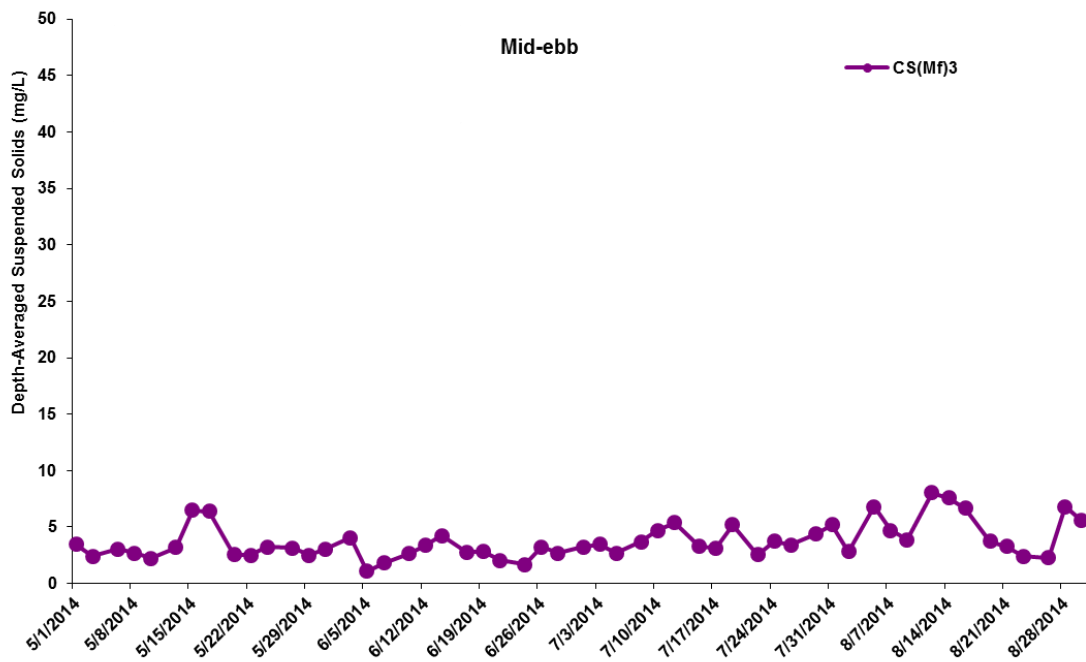


Figure J29 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 May and 31 August 2014 at CS(Mf)3 and CS(Mf)5.

(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.)

**Environmental
Resources
Management**



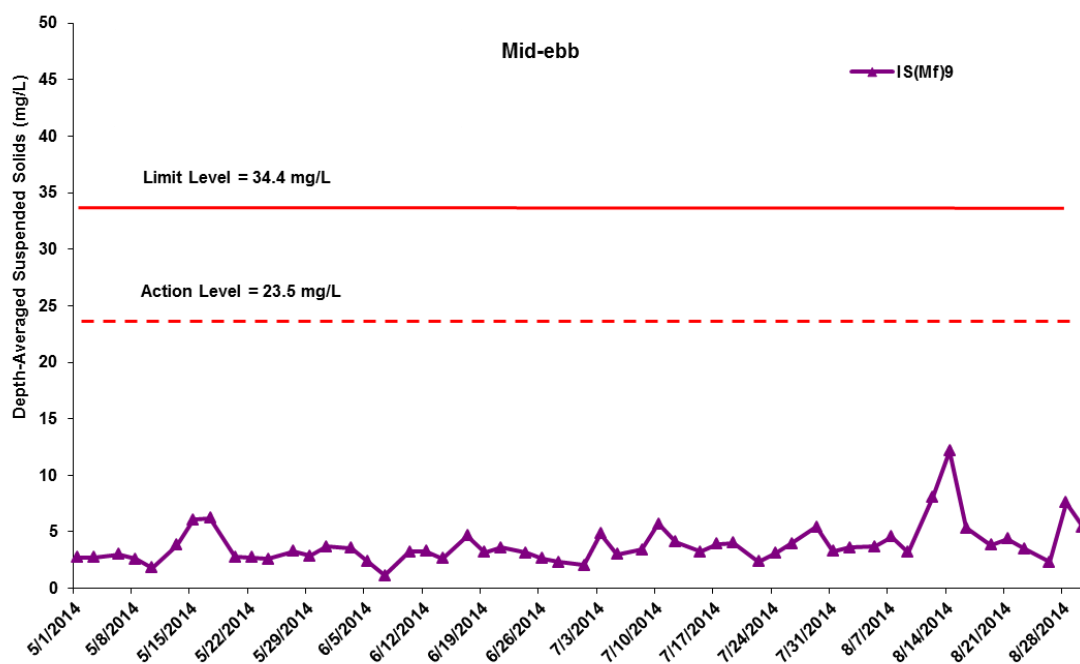
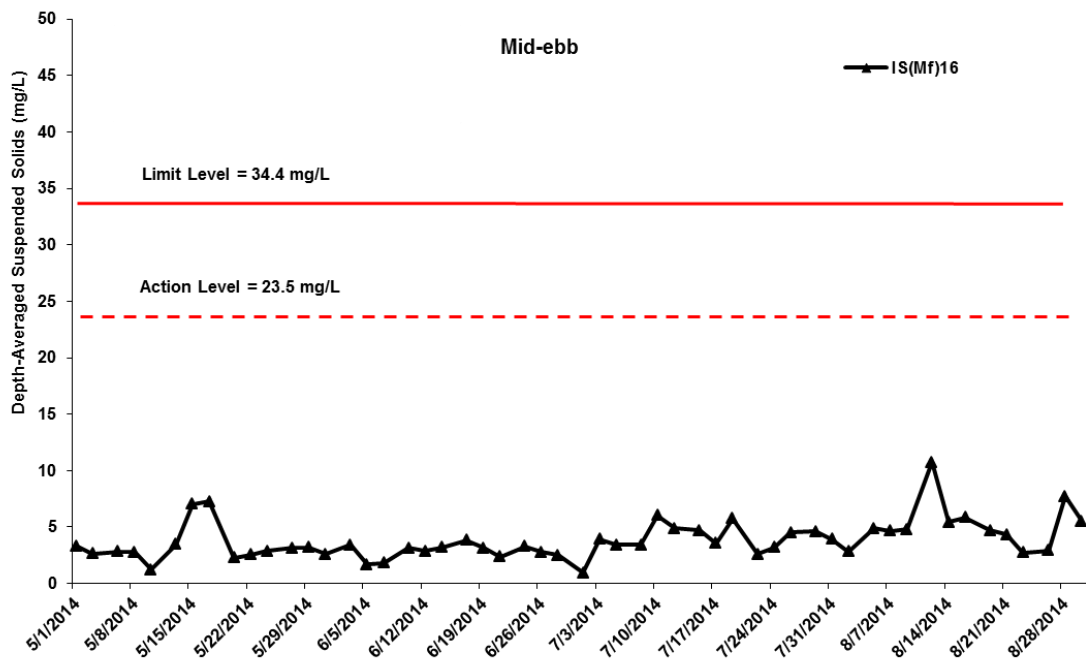


Figure J30 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 May and 31 August 2014 at IS(Mf)16 and IS(Mf)9.

(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.)

**Environmental
Resources
Management**



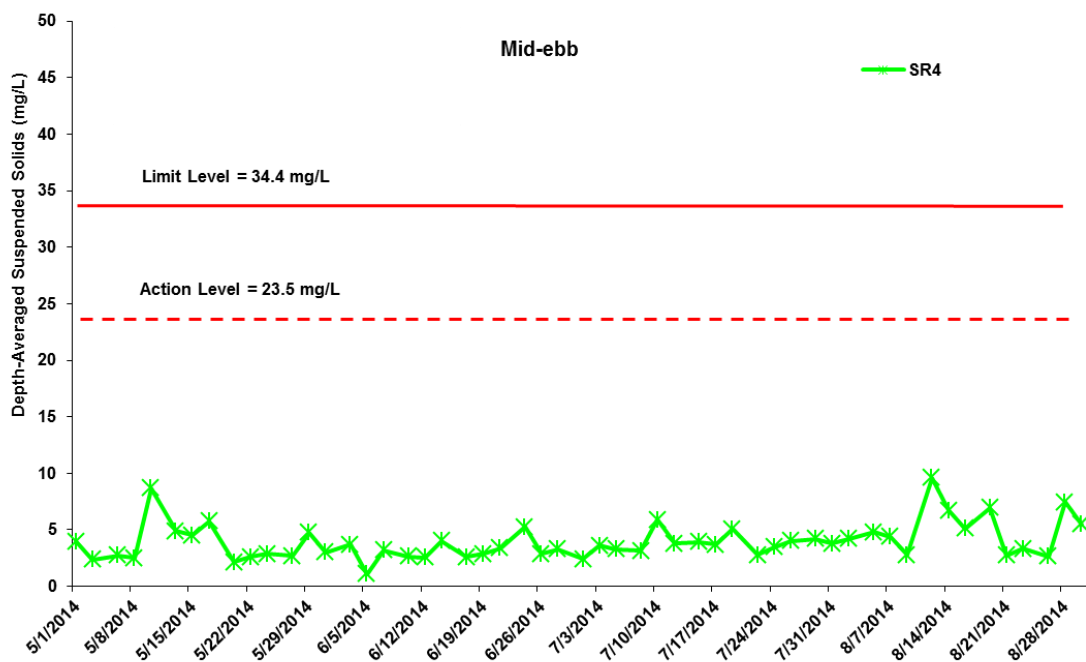
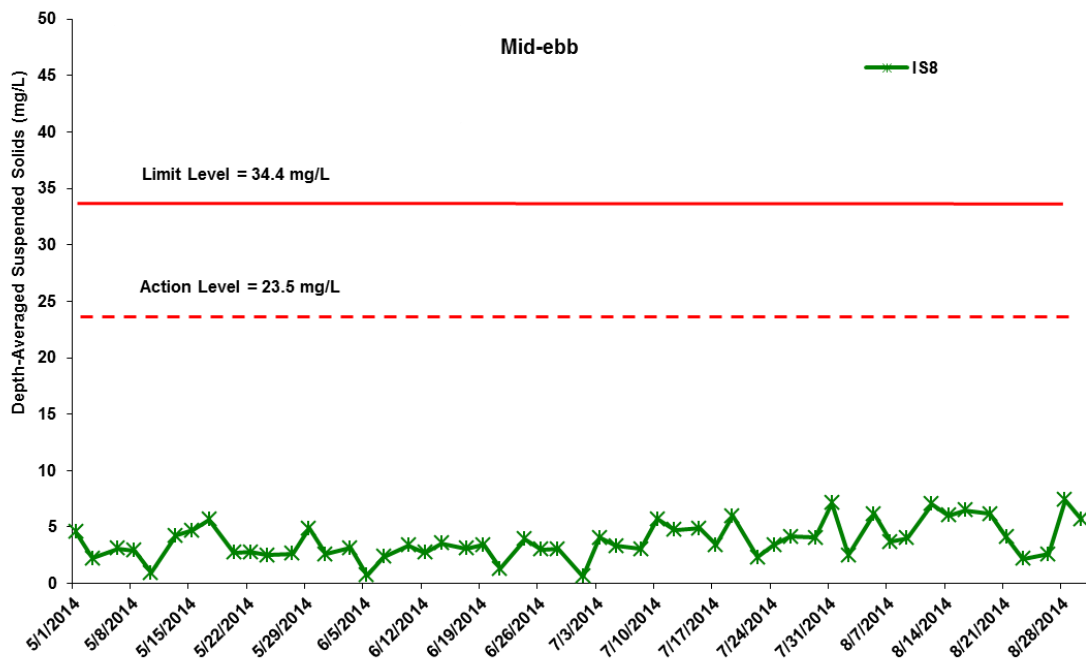


Figure J31 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 May and 31 August 2014 at IS8 and SR4.

(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.)

**Environmental
Resources
Management**



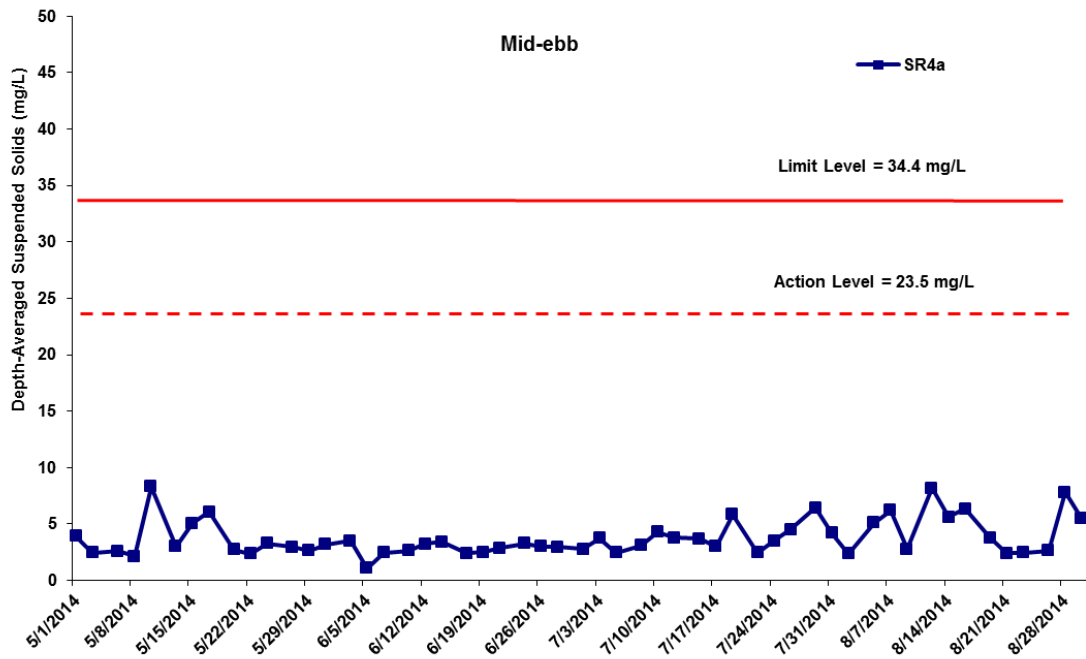


Figure J32 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 May and 31 August 2014 at SR4a.

(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.)

**Environmental
Resources
Management**



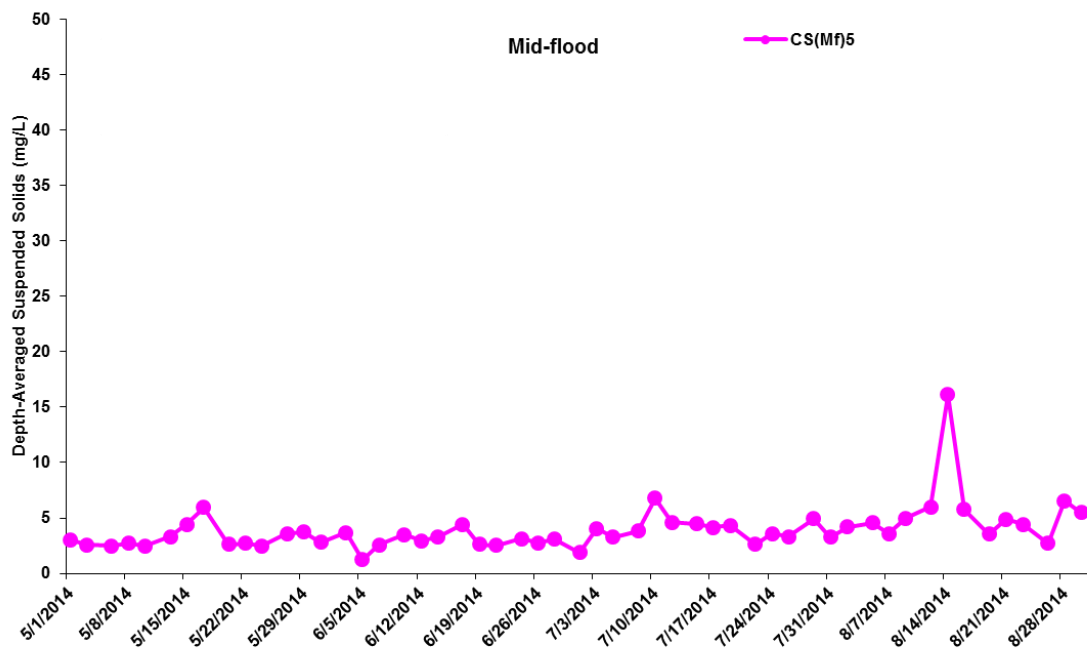
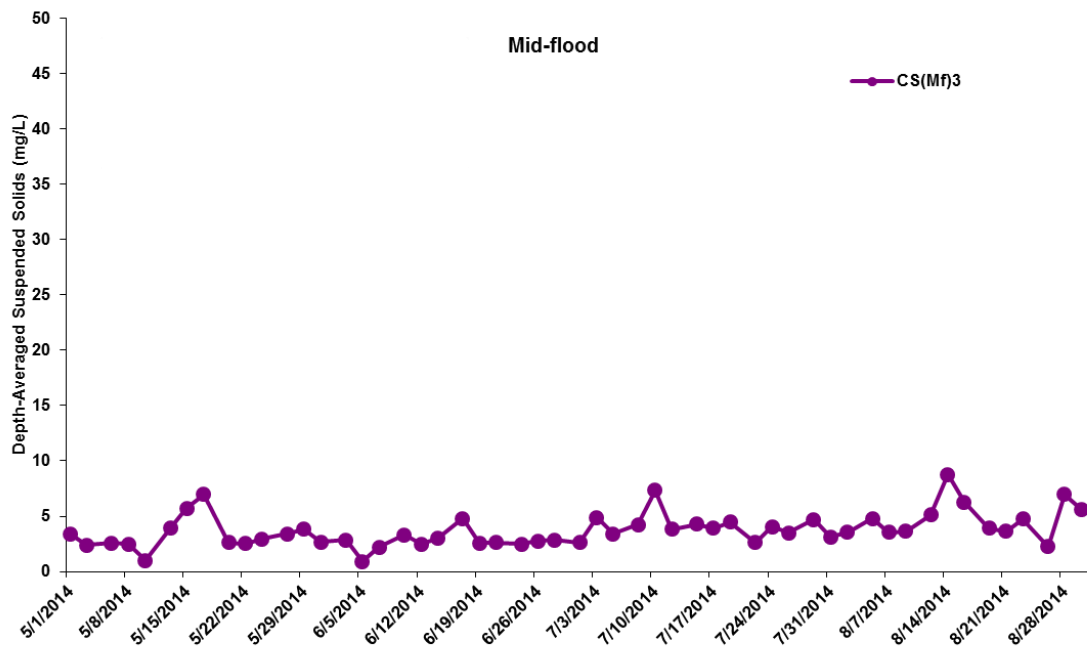


Figure J33 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 May and 31 August 2014 at CS(Mf)3 and CS(Mf)5.

(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.)

**Environmental
Resources
Management**



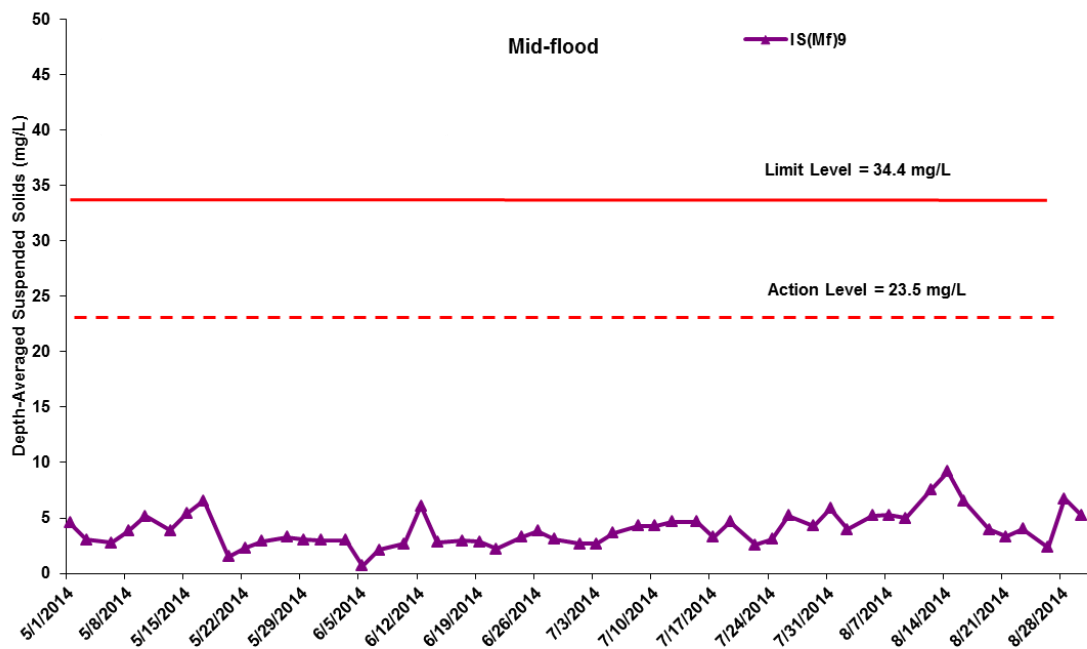
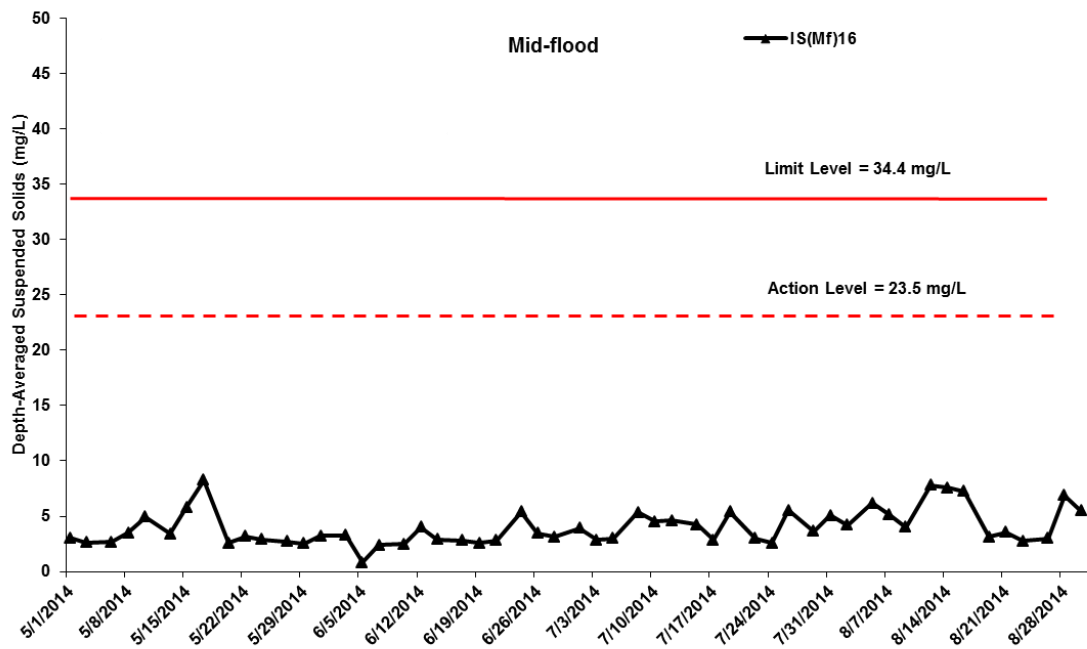


Figure J34 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 May and 31 August 2014 at IS(Mf)16 and IS(Mf)9.

(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.)

**Environmental
Resources
Management**



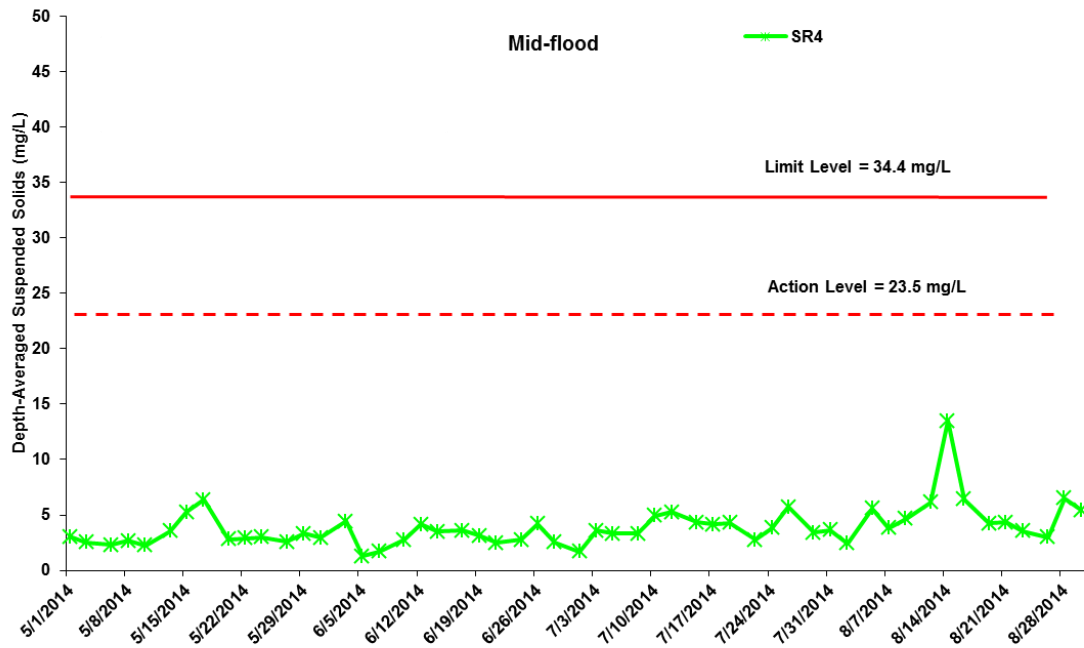
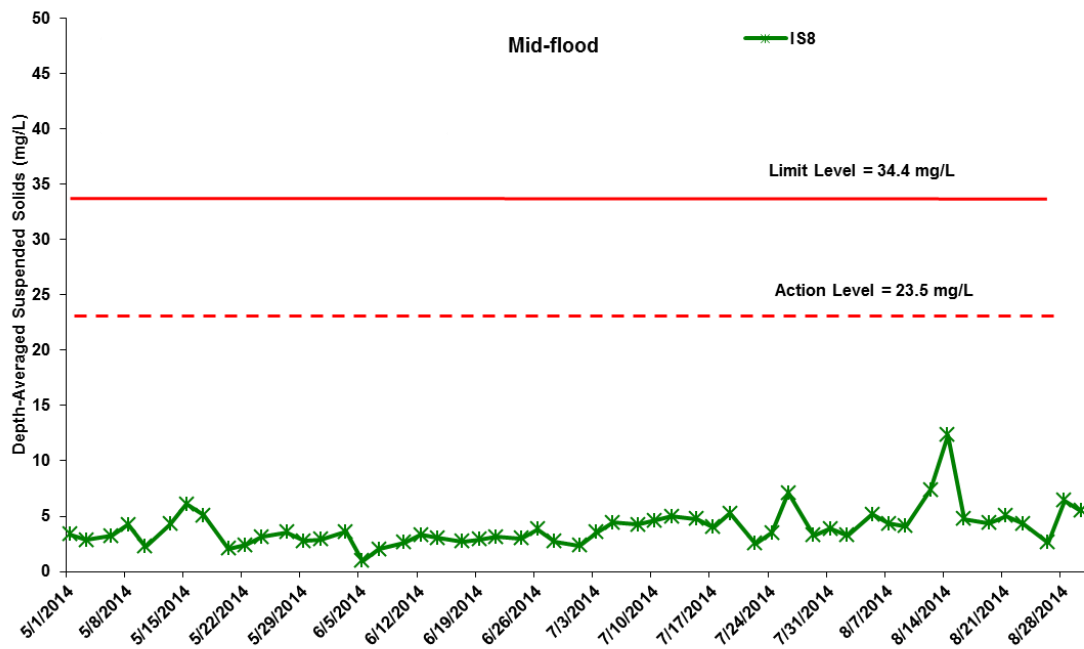


Figure J35 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 May and 31 August 2014 at IS8 and SR4.

(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.)

**Environmental
Resources
Management**



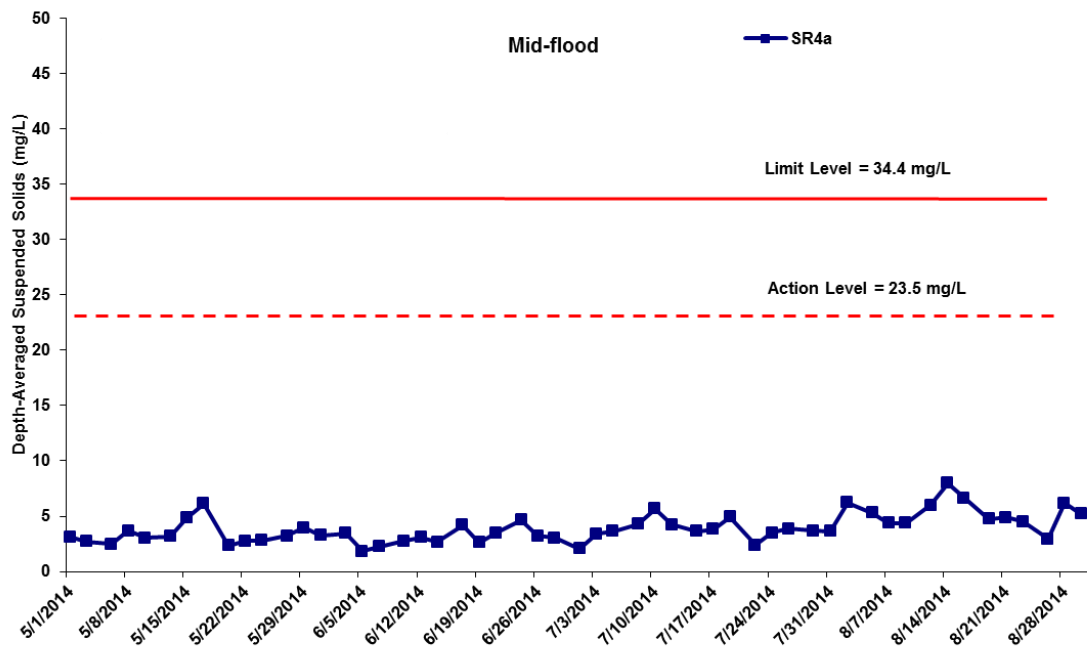


Figure J36 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 May and 31 August 2014 at SR4a.

(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.)

**Environmental
Resources
Management**



Appendix K

Impact Dolphin Monitoring Survey Results

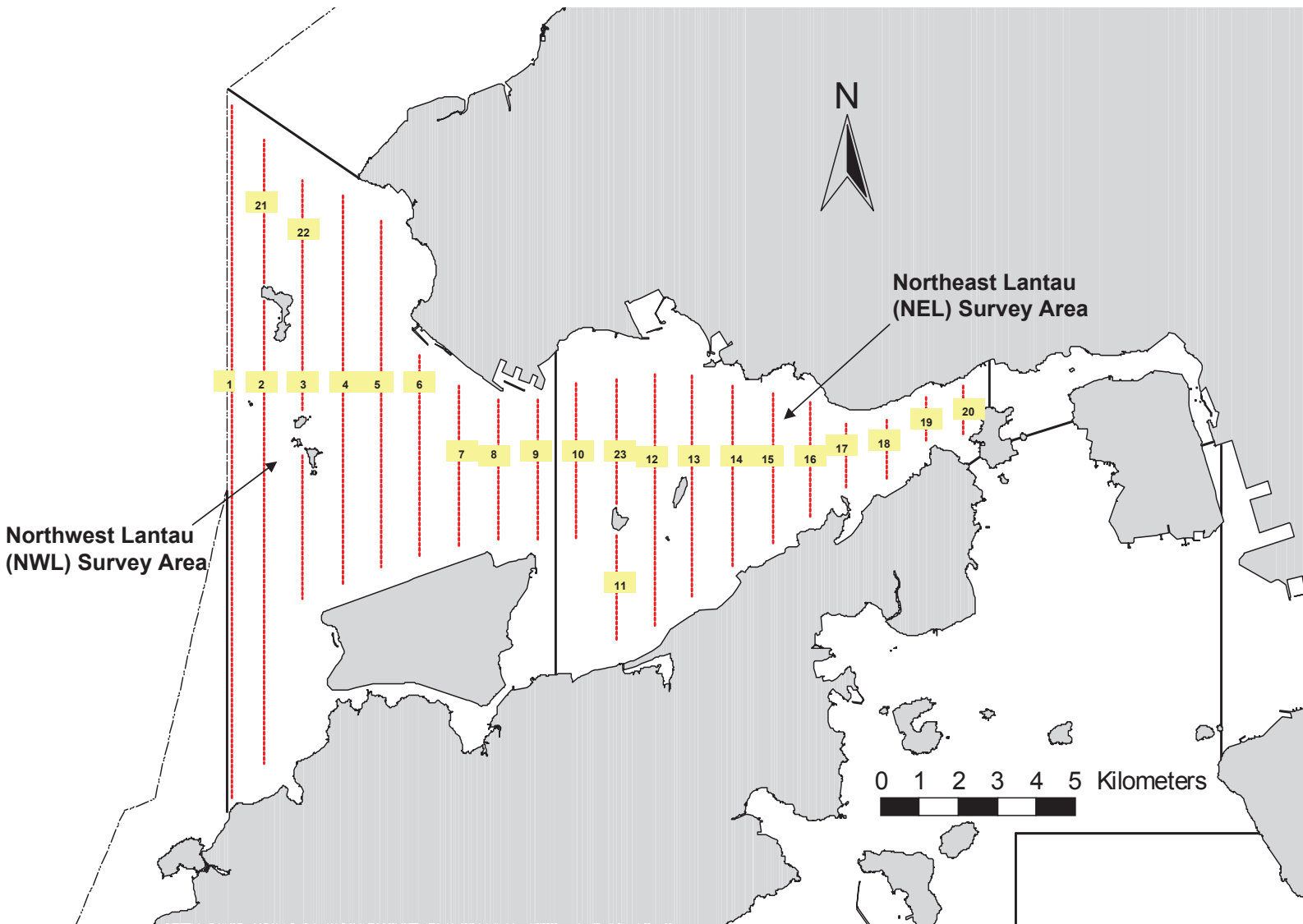


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas (from HKLR03 project)

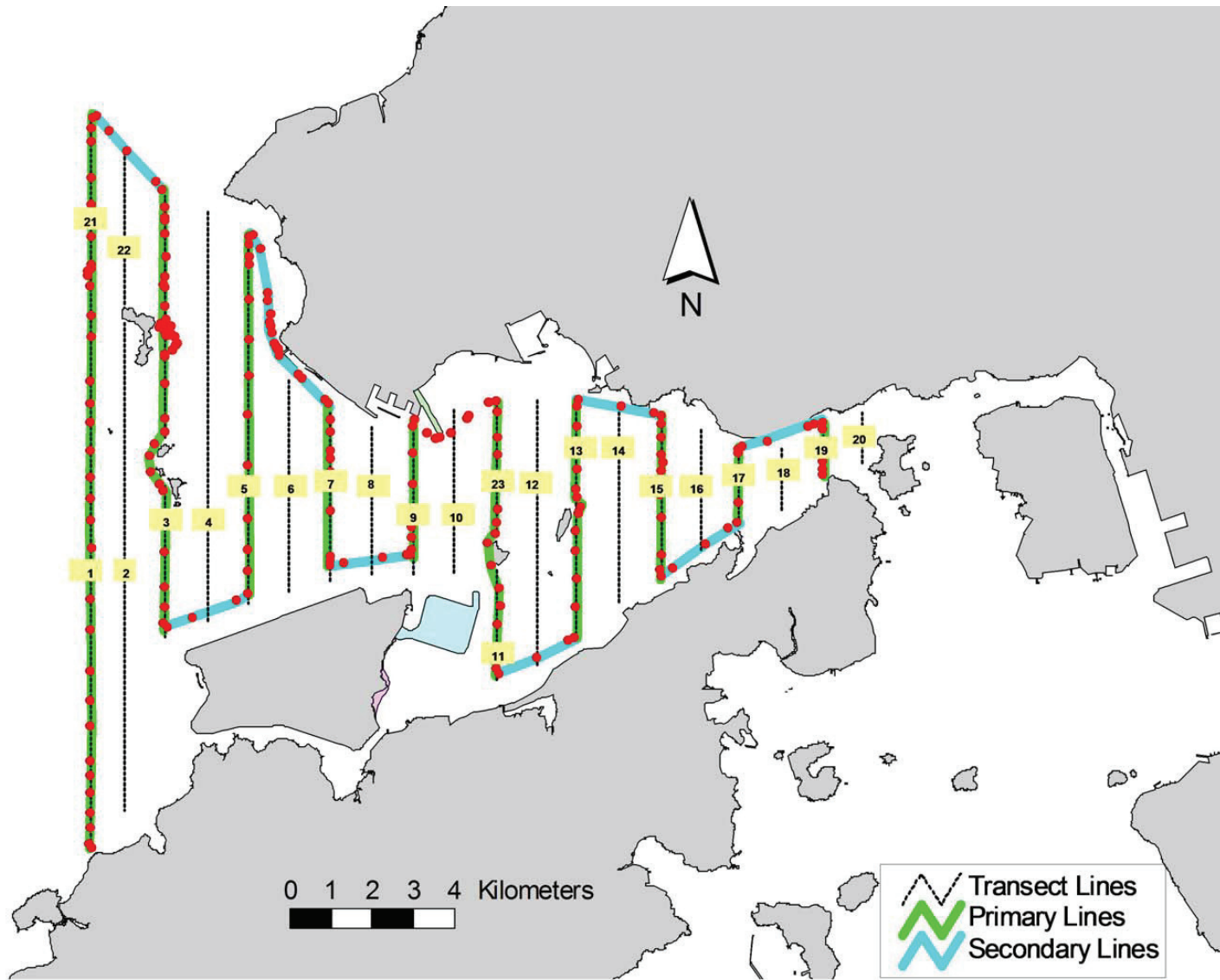


Figure 2. Survey Route on August 5th, 2014 (from HKLR03 project)

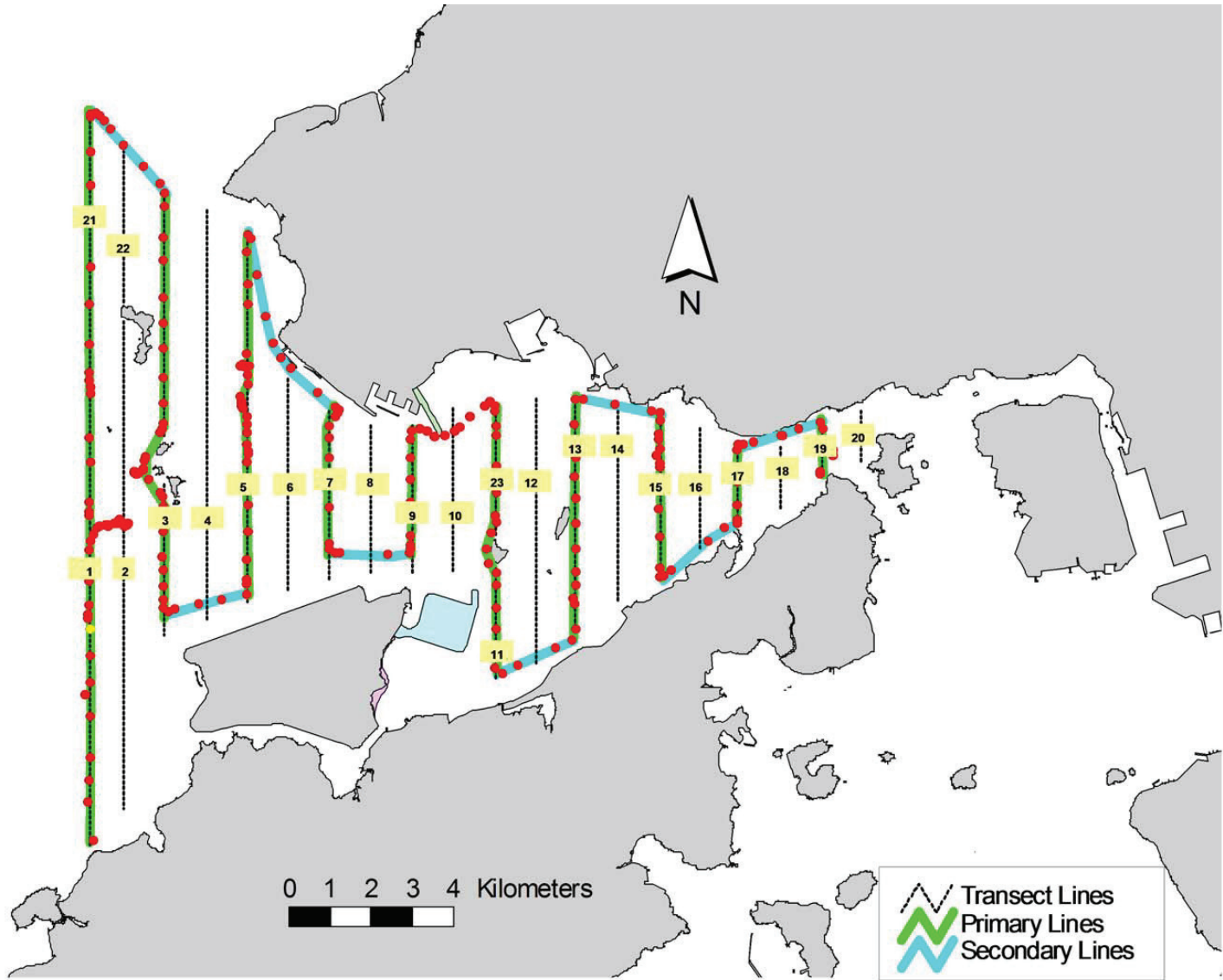


Figure 4. Survey Route on August 15th, 2014 (from HKLR03 project)

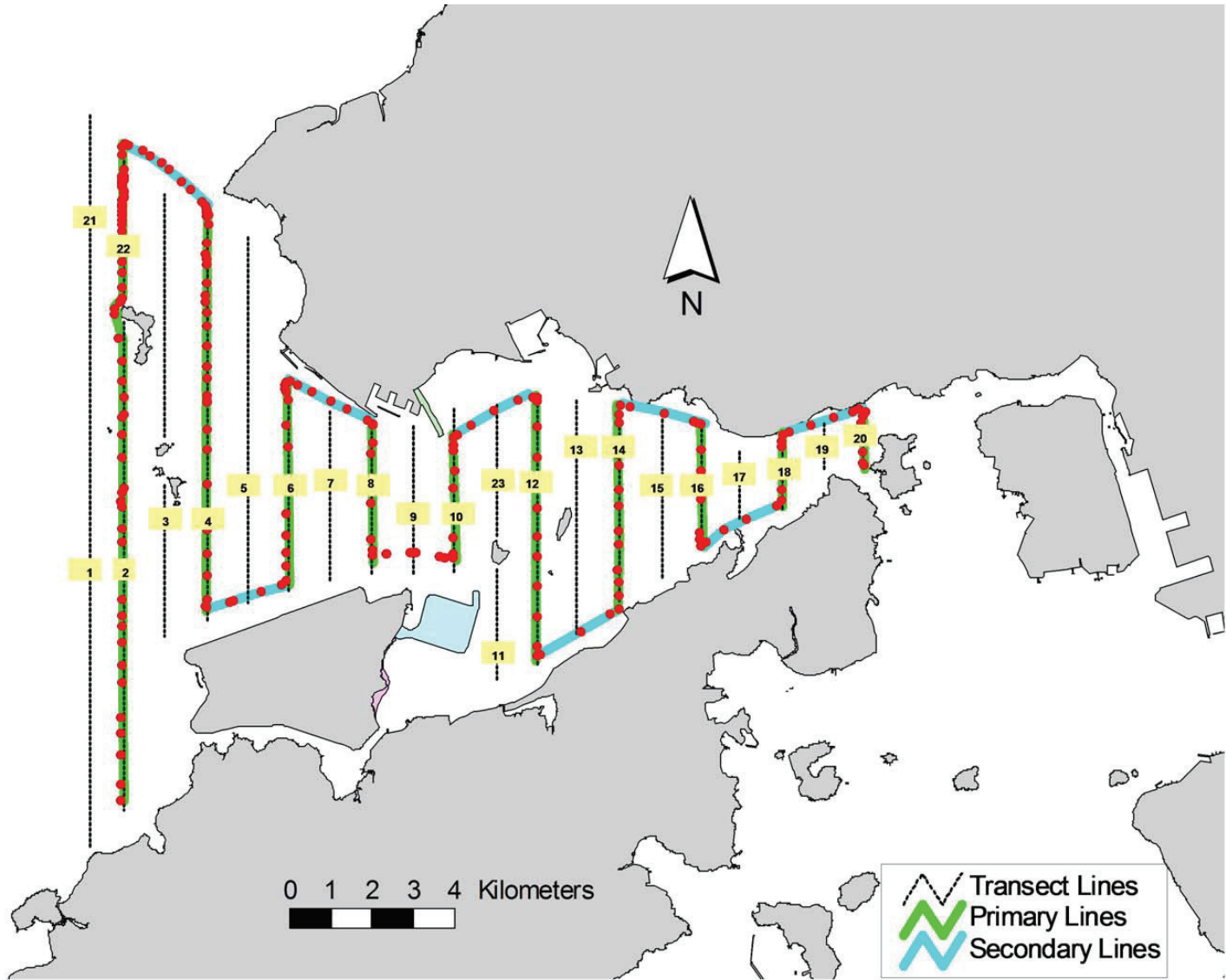


Figure 5. Survey Route on August 19th, 2014 (from HKLR03 project)

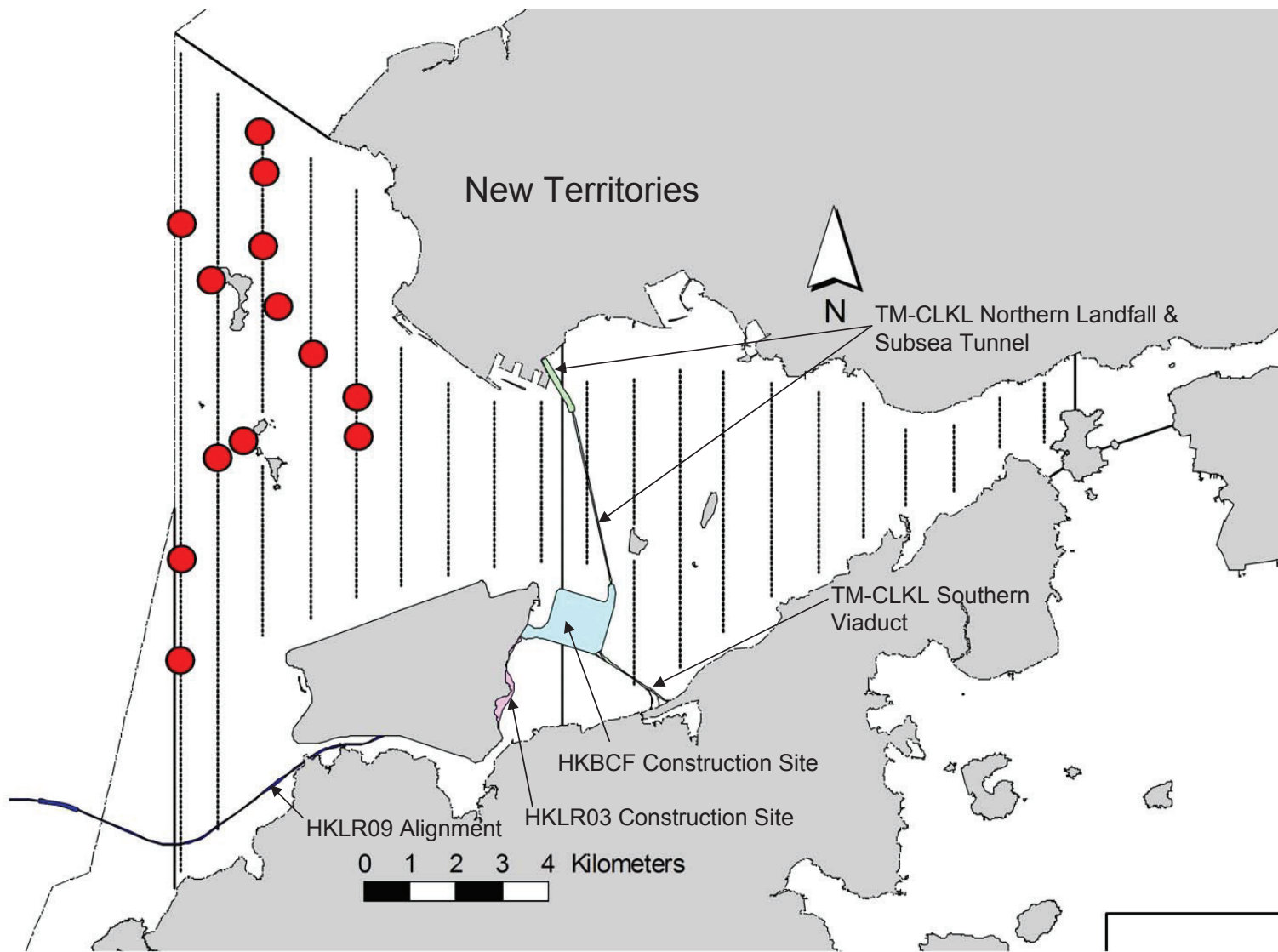


Figure 6. Distribution of Chinese White Dolphin Sightings During August 2014 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (August 2014)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
5-Aug-14	NE LANTAU	1	8.40	SUMMER	STANDARD31516	HKLR	P
5-Aug-14	NE LANTAU	2	5.80	SUMMER	STANDARD31516	HKLR	P
5-Aug-14	NE LANTAU	3	2.10	SUMMER	STANDARD31516	HKLR	P
5-Aug-14	NE LANTAU	1	6.20	SUMMER	STANDARD31516	HKLR	S
5-Aug-14	NE LANTAU	2	4.80	SUMMER	STANDARD31516	HKLR	S
5-Aug-14	NW LANTAU	1	8.00	SUMMER	STANDARD31516	HKLR	P
5-Aug-14	NW LANTAU	2	30.30	SUMMER	STANDARD31516	HKLR	P
5-Aug-14	NW LANTAU	3	1.70	SUMMER	STANDARD31516	HKLR	P
5-Aug-14	NW LANTAU	1	1.50	SUMMER	STANDARD31516	HKLR	S
5-Aug-14	NW LANTAU	2	9.90	SUMMER	STANDARD31516	HKLR	S
6-Aug-14	NW LANTAU	1	4.30	SUMMER	STANDARD31516	HKLR	P
6-Aug-14	NW LANTAU	2	21.55	SUMMER	STANDARD31516	HKLR	P
6-Aug-14	NW LANTAU	3	5.21	SUMMER	STANDARD31516	HKLR	P
6-Aug-14	NW LANTAU	1	2.30	SUMMER	STANDARD31516	HKLR	S
6-Aug-14	NW LANTAU	2	4.05	SUMMER	STANDARD31516	HKLR	S
6-Aug-14	NW LANTAU	3	0.30	SUMMER	STANDARD31516	HKLR	S
6-Aug-14	NE LANTAU	1	17.62	SUMMER	STANDARD31516	HKLR	P
6-Aug-14	NE LANTAU	2	2.26	SUMMER	STANDARD31516	HKLR	P
6-Aug-14	NE LANTAU	1	10.52	SUMMER	STANDARD31516	HKLR	S
15-Aug-14	NW LANTAU	2	7.71	SUMMER	STANDARD31516	HKLR	P
15-Aug-14	NW LANTAU	3	29.93	SUMMER	STANDARD31516	HKLR	P
15-Aug-14	NW LANTAU	3	9.92	SUMMER	STANDARD31516	HKLR	S
15-Aug-14	NW LANTAU	4	2.64	SUMMER	STANDARD31516	HKLR	S
15-Aug-14	NE LANTAU	2	17.22	SUMMER	STANDARD31516	HKLR	P
15-Aug-14	NE LANTAU	3	0.58	SUMMER	STANDARD31516	HKLR	P
15-Aug-14	NE LANTAU	2	8.54	SUMMER	STANDARD31516	HKLR	S
15-Aug-14	NE LANTAU	3	1.26	SUMMER	STANDARD31516	HKLR	S
19-Aug-14	NE LANTAU	1	1.46	SUMMER	STANDARD31516	HKLR	P
19-Aug-14	NE LANTAU	2	11.20	SUMMER	STANDARD31516	HKLR	P
19-Aug-14	NE LANTAU	3	5.91	SUMMER	STANDARD31516	HKLR	P
19-Aug-14	NE LANTAU	4	0.80	SUMMER	STANDARD31516	HKLR	P
19-Aug-14	NE LANTAU	2	4.35	SUMMER	STANDARD31516	HKLR	S
19-Aug-14	NE LANTAU	3	6.48	SUMMER	STANDARD31516	HKLR	S
19-Aug-14	NW LANTAU	2	1.16	SUMMER	STANDARD31516	HKLR	P
19-Aug-14	NW LANTAU	3	23.08	SUMMER	STANDARD31516	HKLR	P
19-Aug-14	NW LANTAU	4	3.24	SUMMER	STANDARD31516	HKLR	P
19-Aug-14	NW LANTAU	5	3.69	SUMMER	STANDARD31516	HKLR	P
19-Aug-14	NW LANTAU	3	4.32	SUMMER	STANDARD31516	HKLR	S
19-Aug-14	NW LANTAU	4	7.12	SUMMER	STANDARD31516	HKLR	S

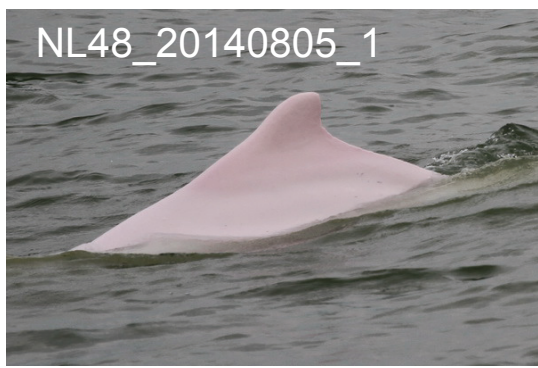
Appendix II. HKLR03 Chinese White Dolphin Sighting Database (August 2014)

(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
05-Aug-14	1	1413	8	NW LANTAU	2	428	ON	HKLR	826185	806764	SUMMER	NONE	P
05-Aug-14	2	1435	4	NW LANTAU	2	0	ON	HKLR	827426	806458	SUMMER	NONE	P
05-Aug-14	3	1444	2	NW LANTAU	2	990	ON	HKLR	828943	806461	SUMMER	NONE	P
05-Aug-14	4	1515	2	NW LANTAU	2	452	ON	HKLR	827872	804667	SUMMER	NONE	P
06-Aug-14	1	1110	3	NW LANTAU	3	10	ON	HKLR	826730	805323	SUMMER	NONE	S
06-Aug-14	2	1151	1	NW LANTAU	2	17	ON	HKLR	829773	806359	SUMMER	NONE	S
15-Aug-14	1	1029	5	NW LANTAU	3	393	ON	HKLR	818936	804648	SUMMER	NONE	P
15-Aug-14	2	1041	7	NW LANTAU	3	15	ON	HKLR	821006	804652	SUMMER	NONE	P
15-Aug-14	3	1218	3	NW LANTAU	3	0	ON	HKLR	823429	806027	SUMMER	NONE	S
15-Aug-14	4	1305	2	NW LANTAU	2	749	ON	HKLR	823524	808510	SUMMER	NONE	P
15-Aug-14	5	1310	6	NW LANTAU	3	83	ON	HKLR	824321	808501	SUMMER	NONE	P
19-Aug-14	1	1338	2	NW LANTAU	3	105	ON	HKLR	825220	807514	SUMMER	NONE	P
19-Aug-14	2	1536	3	NW LANTAU	2	113	ON	HKLR	823076	805450	SUMMER	NONE	P

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

ID#	DATE	STG#	AREA
NL46	05/08/14	2	NW LANTAU
NL48	05/08/14	1	NW LANTAU
	19/08/14	1	NW LANTAU
NL93	05/08/14	1	NW LANTAU
NL104	05/08/14	1	NW LANTAU
NL123	15/08/14	5	NW LANTAU
NL202	19/08/14	1	NW LANTAU
	19/08/14	2	NW LANTAU
NL242	05/08/14	1	NW LANTAU
NL247	15/08/14	2	NW LANTAU
NL261	05/08/14	1	NW LANTAU
NL272	15/08/14	5	NW LANTAU
NL278	15/08/14	2	NW LANTAU
NL284	15/08/14	5	NW LANTAU
NL285	15/08/14	5	NW LANTAU
NL286	15/08/14	5	NW LANTAU
	19/08/14	2	NW LANTAU
NL287	15/08/14	5	NW LANTAU
NL305	15/08/14	2	NW LANTAU
NL307	15/08/14	5	NW LANTAU
WL46	15/08/14	2	NW LANTAU
WL80	15/08/14	2	NW LANTAU
WL124	15/08/14	2	NW LANTAU
WL188	06/08/14	1	NW LANTAU
WL214	15/08/14	2	NW LANTAU



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



WL28_20140815_2



WL46_20140815_2



WL124_20140815_2



WL188_20140815_2



WL214_20140815_2



NL123_20140815_5



NL272_20140815_5



NL284_20140815_5



NL285_20140815_5

Appendix IV. (cont'd)



NL286_20140815_5



NL287_20140815_5



NL307_20140815_5



NL48_20140819_1



NL202_20140819_1



NL202_20140819_2



NL286_20140819_2

Appendix IV. (cont'd)

Appendix L

Event Action Plan

Appendix L1 *Event/ Action Plan for Air Quality*

EVENT	ACTION			
	ET ⁽¹⁾	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

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	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.	Check monitoring data submitted by ET and Contractor's working methods.	Confirm receipt of notification of non-compliance in writing; Notify Contractor.	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	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;	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.	Discuss with IEC on the proposed mitigation measures; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures.	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	Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, SOR and EPD;	Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions;	Confirm receipt of notification of failure in writing; Discuss with IEC, ET and Contractor on the proposed mitigation measures;	Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment

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

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
<u>Action Level</u>				
With the numerical values presented in <i>Table 5.7</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</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	<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, 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), 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

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
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	0.02	-	4.654	1.629	0.847	0.252	0.051	87.810	-	27.370	0.126	-	-
Aug	4.136	0.003	0.27	1.142	2.441	0.288	-	0.131	0.033	98.220	-	21.680	0.126	0.475	-
Sep															
Oct															
Nov															
Dec															
TOTAL	26.124	0.187	0.619	3.615	9.379	12.512	1.571	0.650	0.139	0.275	494.440	-	155.680	0.518	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.

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