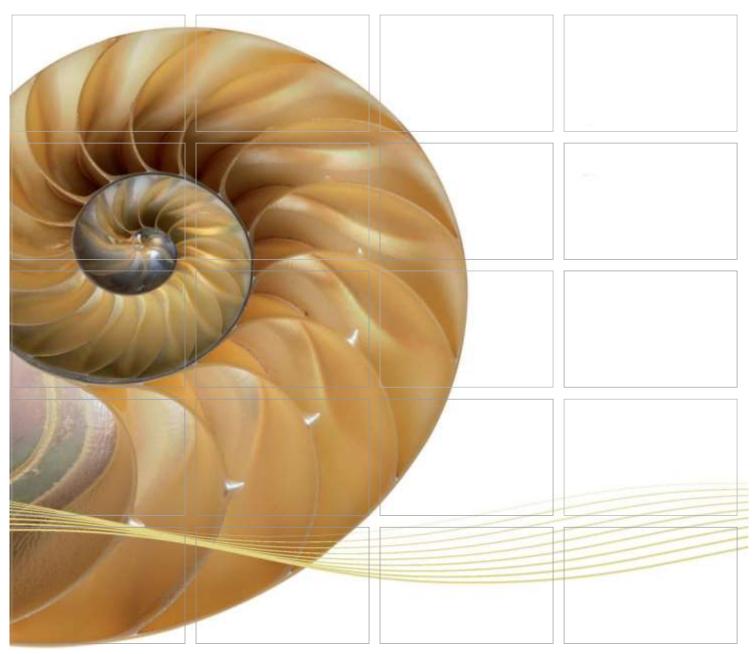
REPORT



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

Thirtieth Monthly EM&A Report

09 May 2016

Environmental Resources Management

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

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

Thirtieth Monthly EM&A Report

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Environmental Resources Management

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

Client:		Project N	0:		
Gammo	n	021566	0		
Summary: This document presents the Thirtieth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.		Date: 09 May 2016 Approved by: Mr Craig Reid Partner Certified by: Mr Jovy Tam			
		ET Leade	er		
	Thirtieth Monthly EM9 A Deport	VAR	IT	CAR	09/05/16
Revision	Thirtieth Monthly EM&A Report Description	By	JT Checked	Approved	Date
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. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.		─ Pul	ernal	UINA Certhau	BSI DE IL-260° NA TRIPE SINONI BSI DE IL-260° NA TRIPE SINONI BSI DE IL-260° NA TRIPE SINONI BSI DE IL-260° NA BSI TENER





Ref.: HYDHZMBEEM00_0_4157L.16

12 May 2016

AECOM

By Fax (3691 2899) and By Post

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

Attention: Mr. Daniel Ip

Dear Mr. Ip,

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

Contract No. HY/2012/07 TM-CLKL Southern Connection Viaduct Section 30th Monthly EM&A Report for April 2016 (EP-354/2009/D)

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (Apr. 2016) (ET's ref.: "0215660_30th Monthly EM&A_20160506.doc" dated 9 May 2016) certified by the ET Leader and provided to us via e-mail on 12 May. 2016.

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

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

Yours sincerely,

F. C. Tsang

Independent Environmental Checker

Tuen Mun - Chek Lap Kok Link

C.C.

HyD - Mr. Stephen Chan (By Fax: 3188 6614) HyD - Mr. 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, CL, ENPO Site

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Appendix M	Monthly Summary of Waste Flow Table
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EXECUTIVE SUMMARY

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

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

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

This is the Thirtieth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 30 April 2016 for the Southern Connection Viaduct Section in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

Marine Works

- Construction and installation of pile caps;
- Uninstallation of marine piling platform;
- Pier construction:
- Construction of marine section of berth at Southern Landfall;
- Launching gantry operation; and
- Installation of deck segment and pier head segment.

Land-based Works

Pier construction;

- Re-alignment of Cheung Tung Road;
- Construction of land section of berth at Southern Landfall;
- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

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

24-hour TSP Monitoring 6 sessions

1-hour TSP Monitoring 6 sessions

Noise Monitoring 6 sessions

Impact Water Quality Monitoring 13 sessions

Impact Dolphin Monitoring 2 sessions

Joint Environmental Site Inspection 4 sessions

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 water quality impact monitoring in the reporting period.

Impact Dolphin Monitoring

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

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

Environmental Complaints, Non-compliance & Summons

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

Reporting Change

There was no reporting change in the reporting period.

Upcoming Works for the Next Reporting Period

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

Marine Works

- Construction and installation of pile caps;
- Uninstallation of marine piling platform;
- Pier construction;
- Construction of marine section of berth at Southern Landfall;
- Launching gantry operation; and
- Installation of deck segment and pier head segment.

Land-based Works

- Pier construction;
- Re-alignment of Cheung Tung Road;
- Construction of land section of berth at Southern Landfall;
- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

Future Key Issues

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

iii

1 INTRODUCTION

1.1 BACKGROUND

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

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

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

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

reclamation area for southern landfall under *EP/353/2009/I* was subsequently handed-over to *Contract No. HY/2012/07*.

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

The general layout plan of the Contract components is presented in *Figures 1.1* & 1.2a to 1.

1.2 Scope of Report

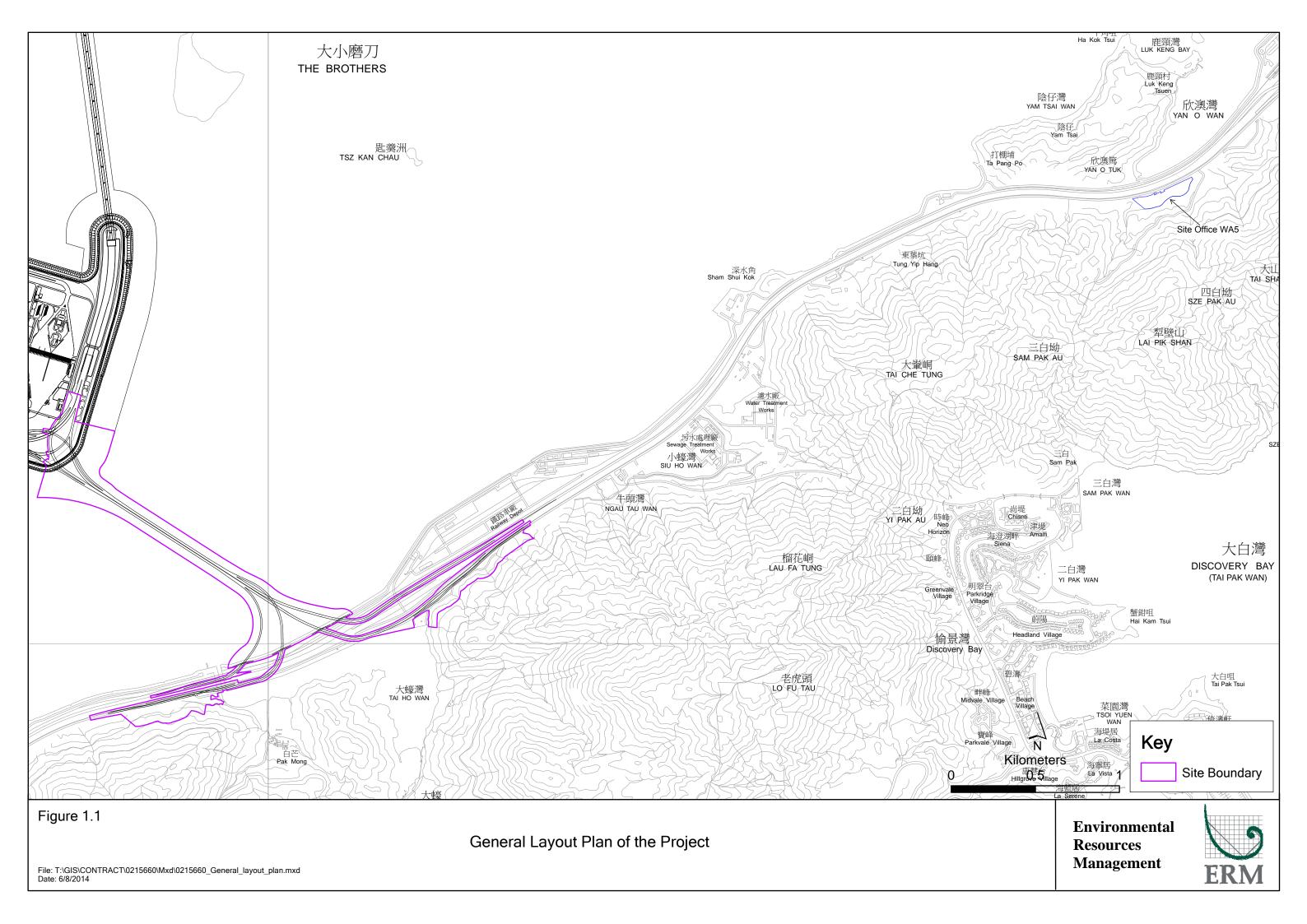
This is the Thirtieth Monthly EM&A Report under the *Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.* This report presents a summary of the environmental monitoring and audit works in April 2016.

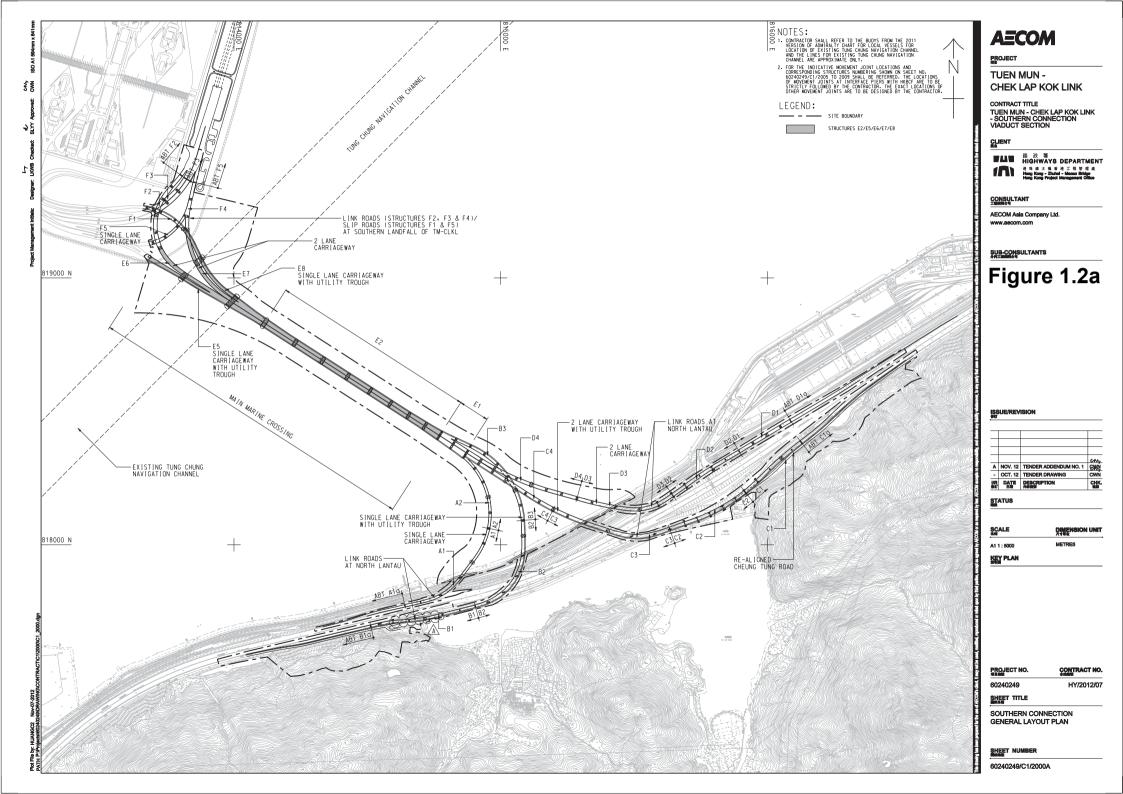
1.3 ORGANIZATION STRUCTURE

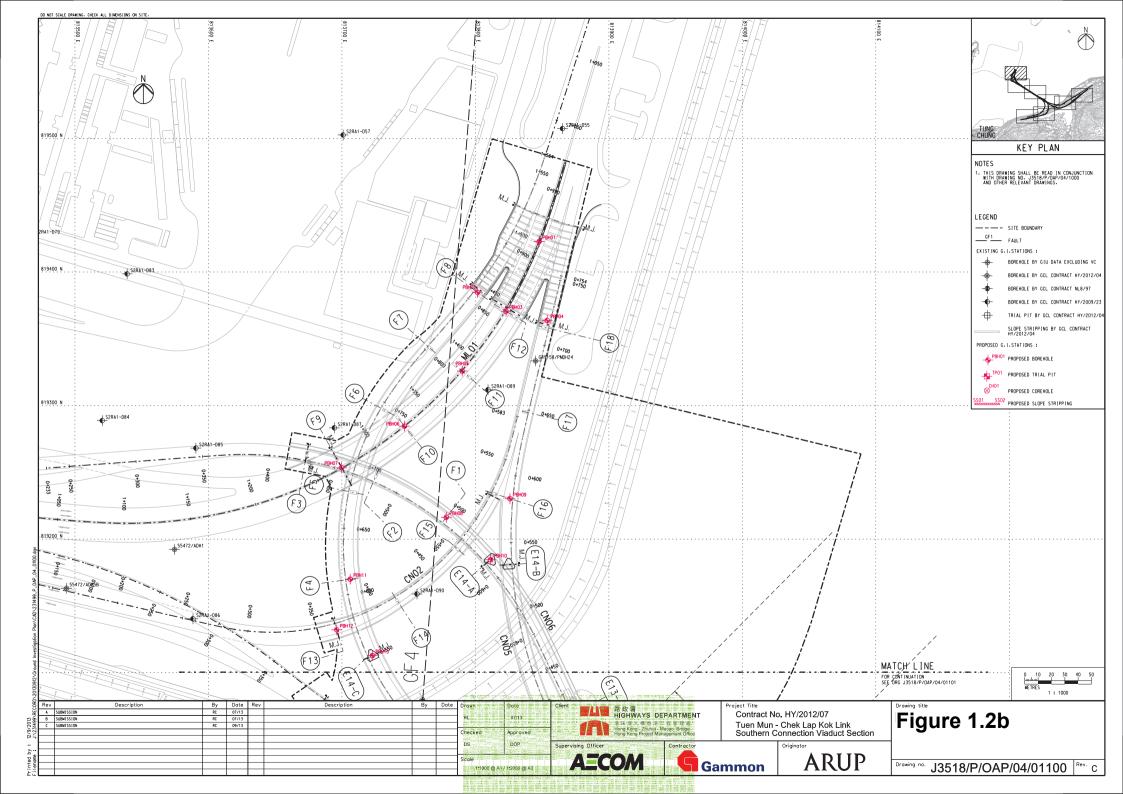
The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

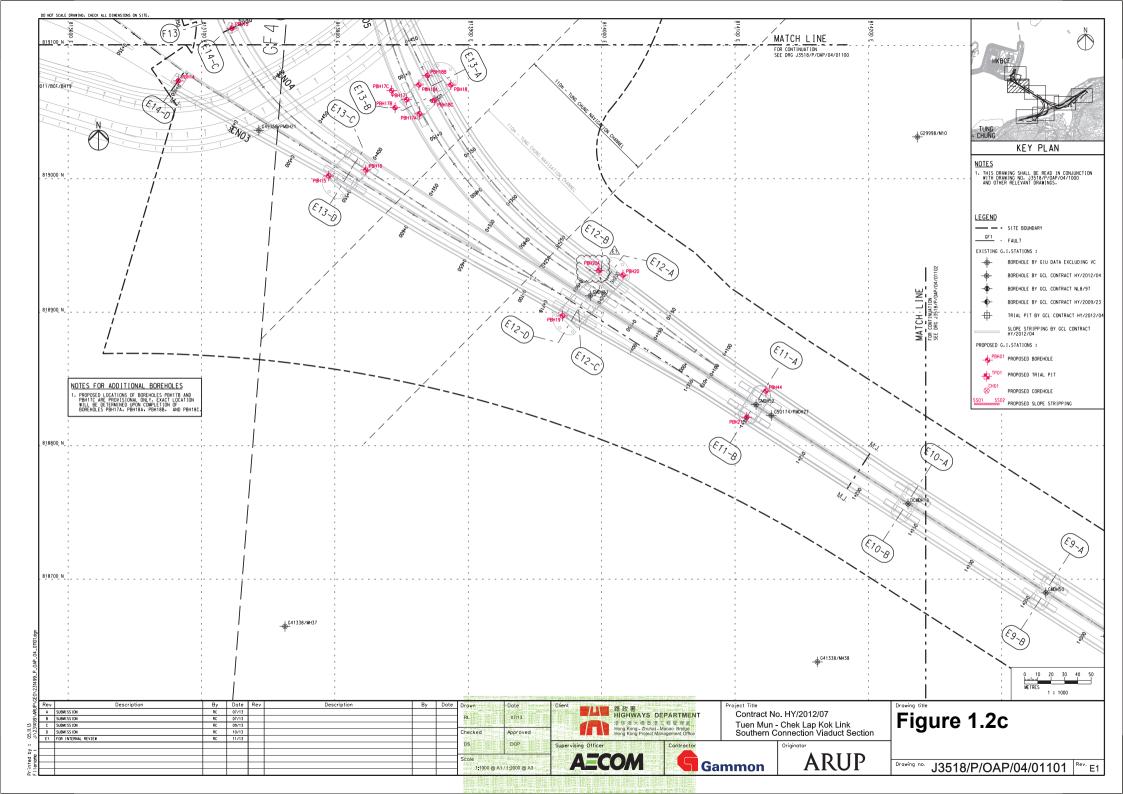
Table 1.1 Contact Information of Key Personnel

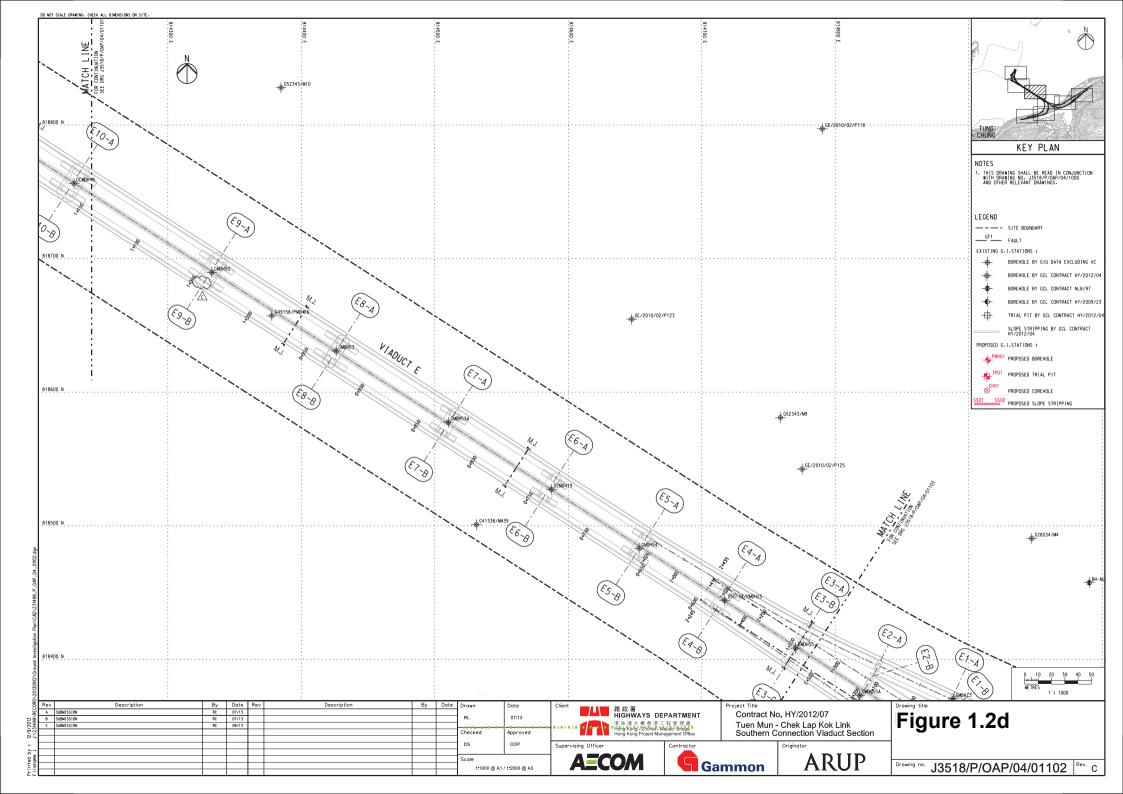
Party	Position	Name	Telephone	Fax
HyD (Highways Department)	Project Coordinator	Stanley Chan	2762 3406	3188 6614
	Senior Engineer	Steven Shum	2762 4133	3188 6614
SOR (AECOM Asia Company Limited)	Chief Resident Engineer	Daniel Ip	3553 3800	2492 2057
	Resident Engineer	Kingman Chan	3691 3950	3691 2899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

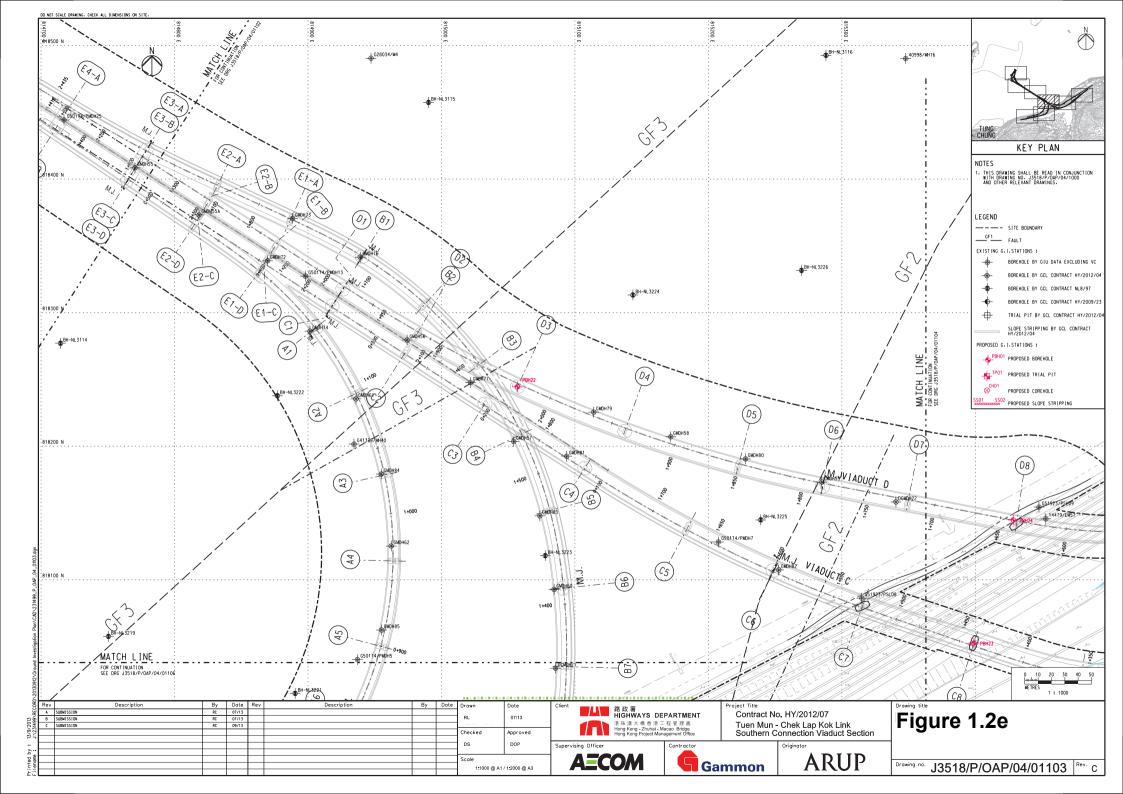


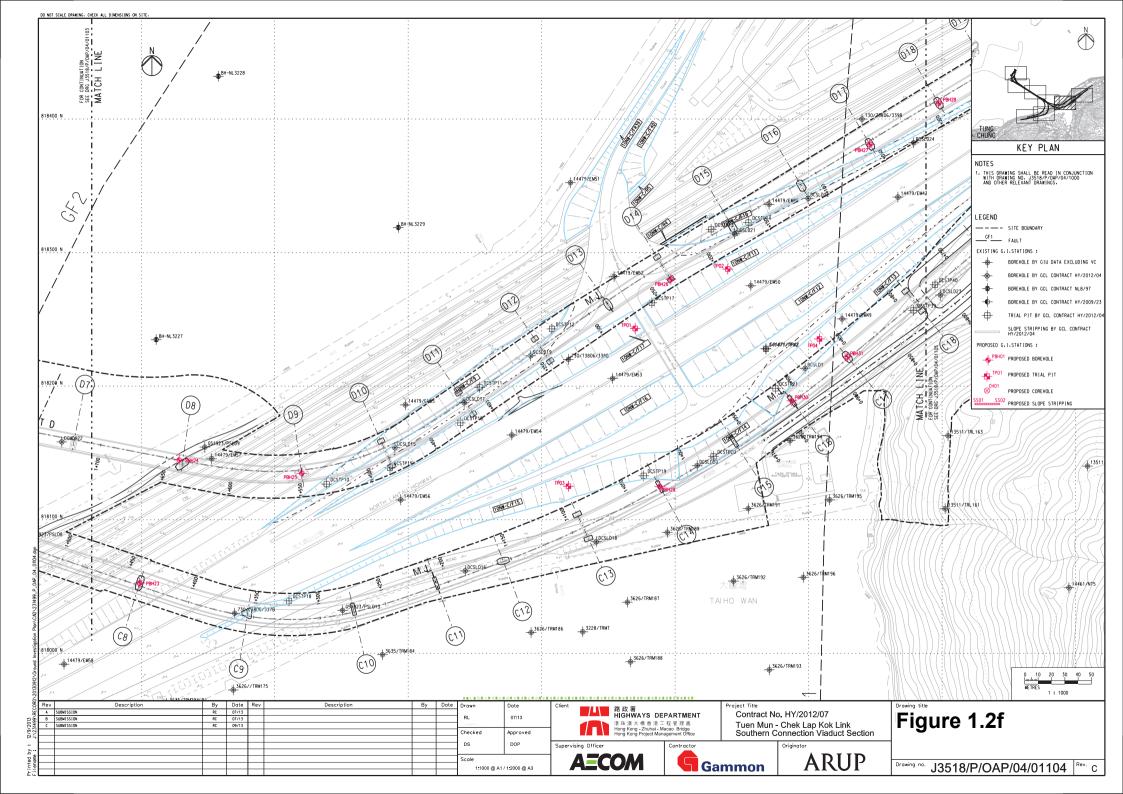


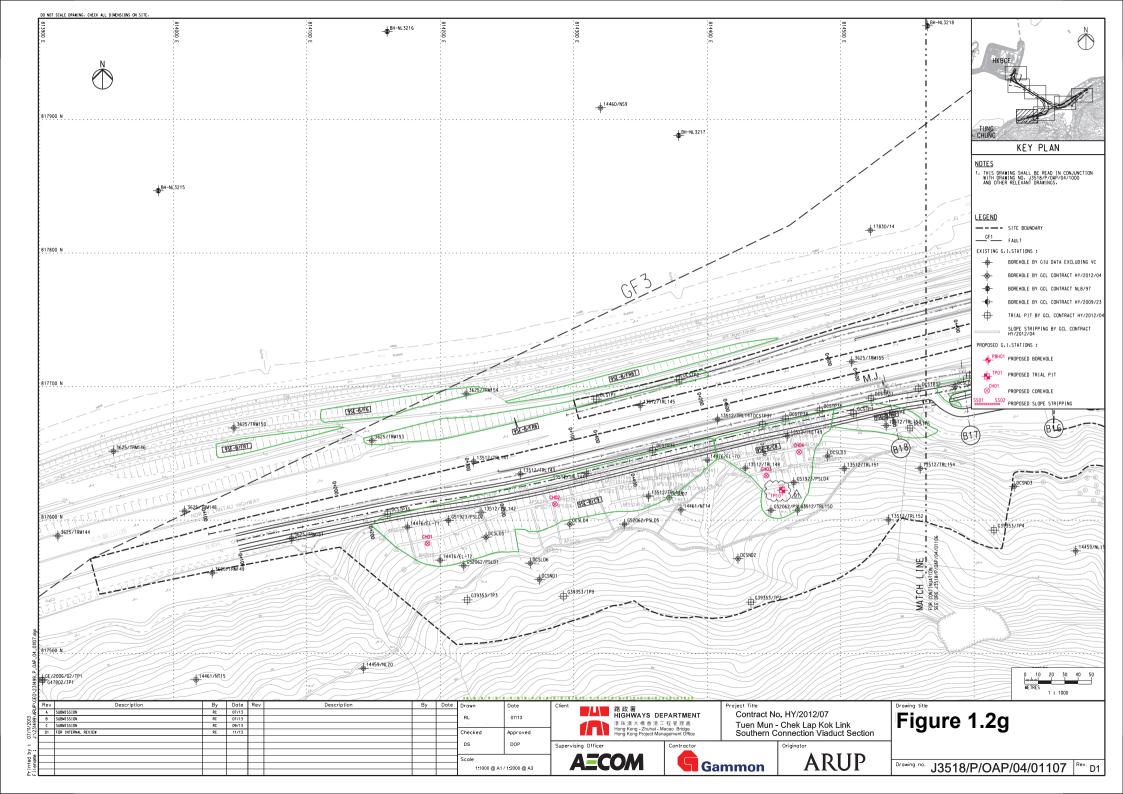


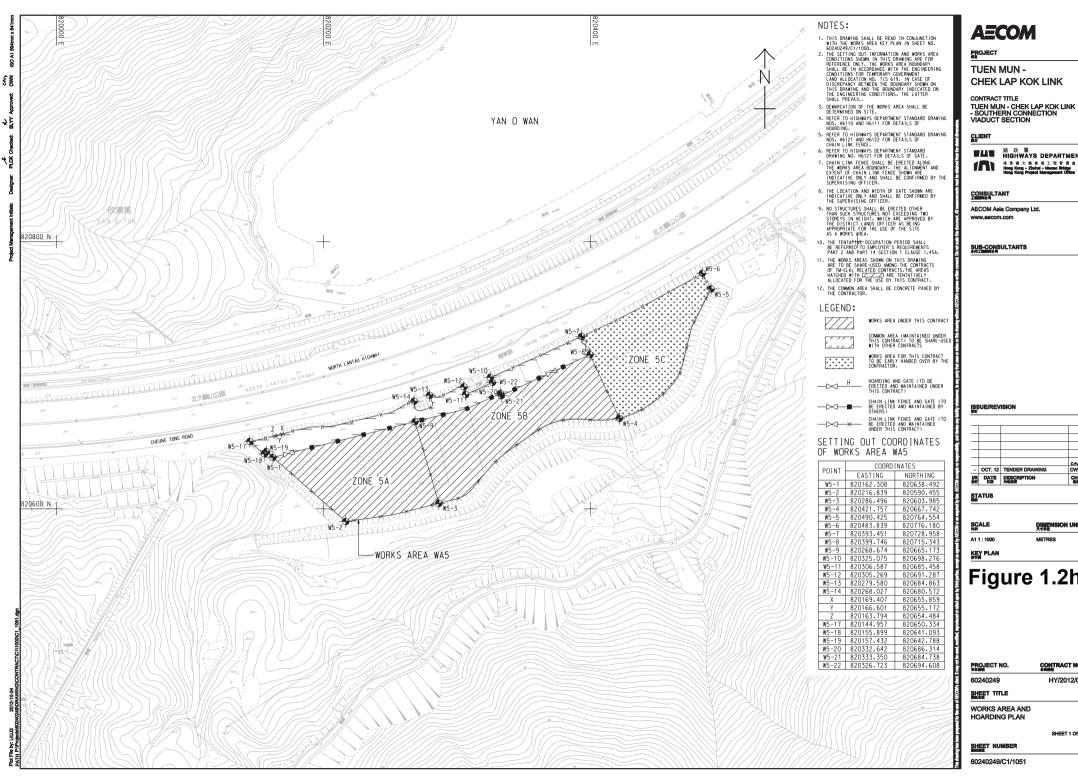












AECOM

PROJECT

TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

■ B 政 署 HIGHWAYS DEPARTMENT

CONSULTANT

AECOM Asia Company Ltd.

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Figure 1.2h

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CONTRACT NO. HY/2012/07

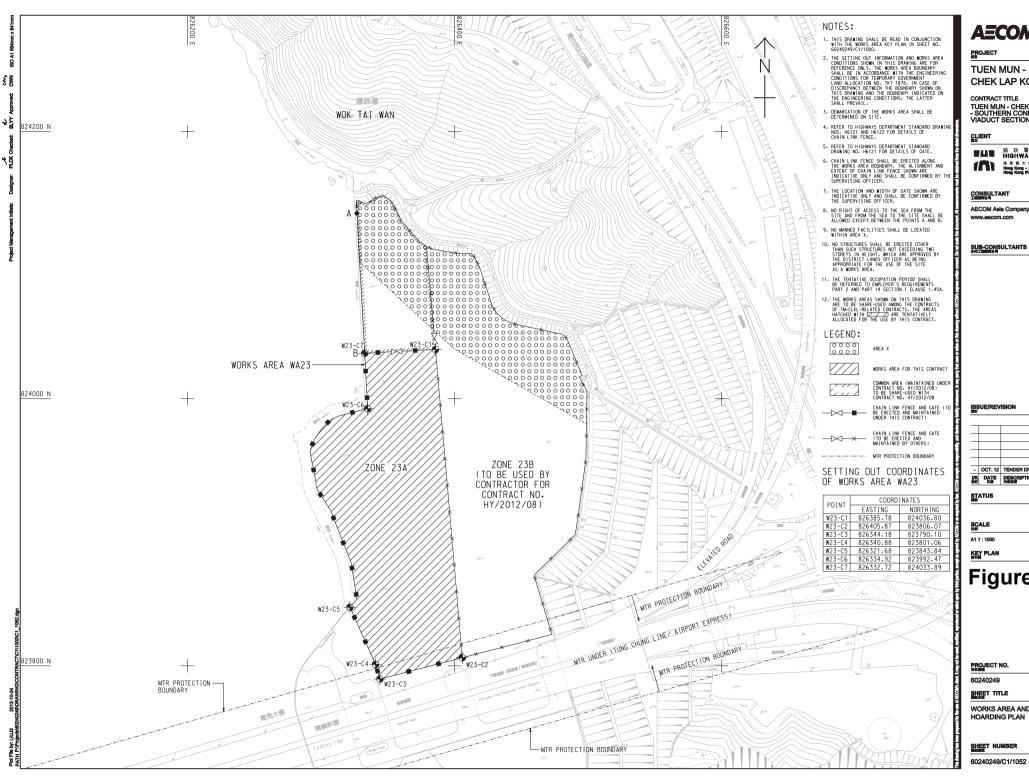
SHEET TITLE

WORKS AREA AND HOARDING PLAN

SHEET 1 OF 2

SHEET NUMBER

60240249/C1/1051



AECOM

TUEN MUN -CHEK LAP KOK LINK

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

■ B 政 署 HIGHWAYS DEPARTMENT 送取 表大 集 香 港 工 程 管 理 意 Hong Kong - Zhahal - Macano Bridge

AECOM Asia Company Ltd.

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Figure 1.2i

CONTRACT NO. HY/2012/07

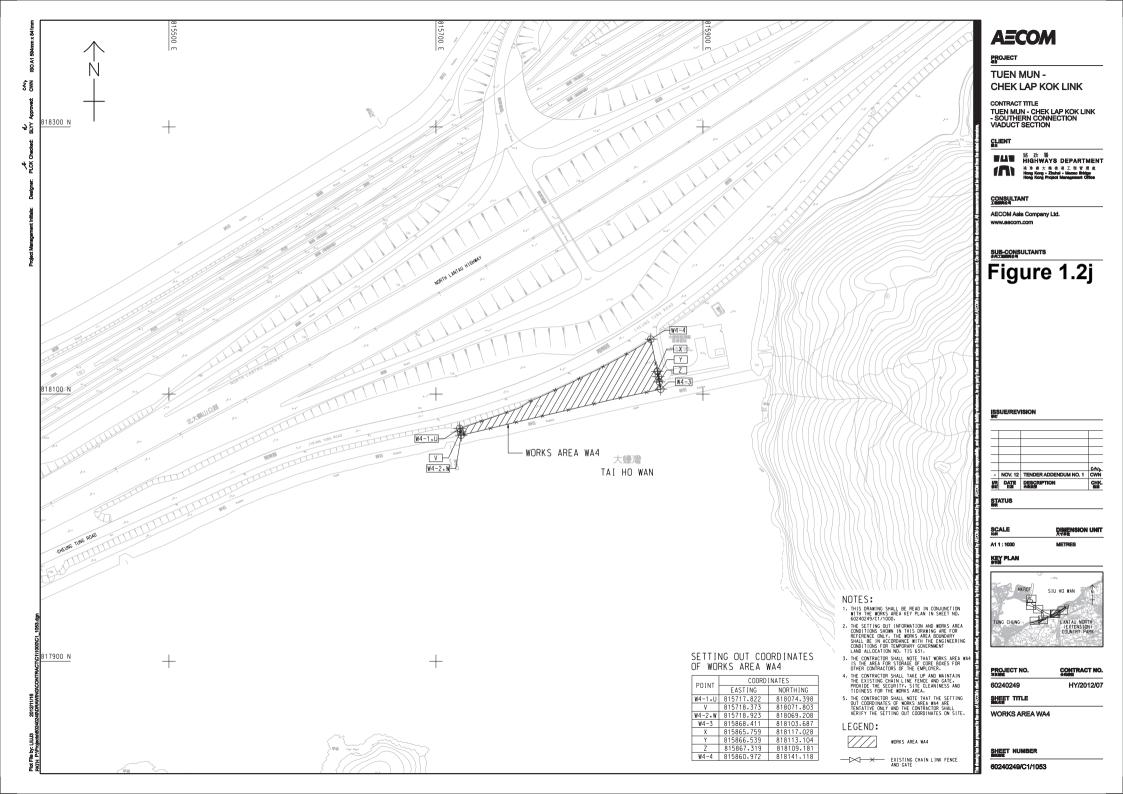
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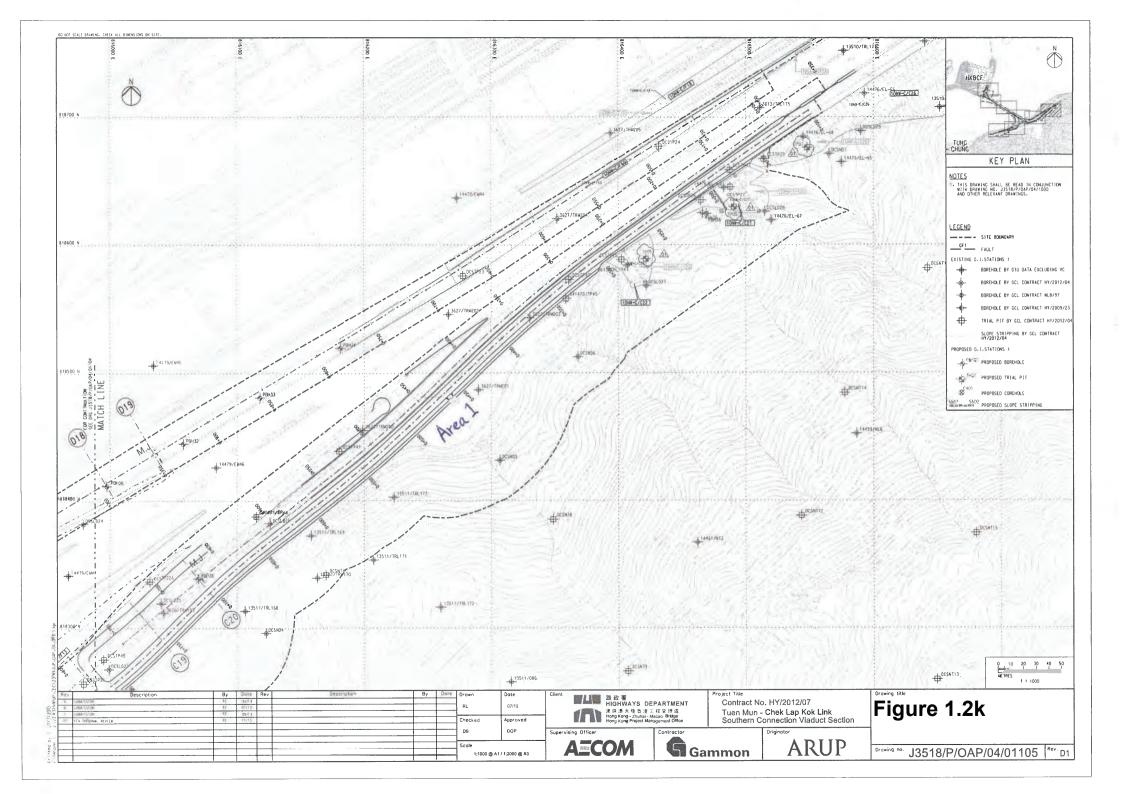
WORKS AREA AND HOARDING PLAN

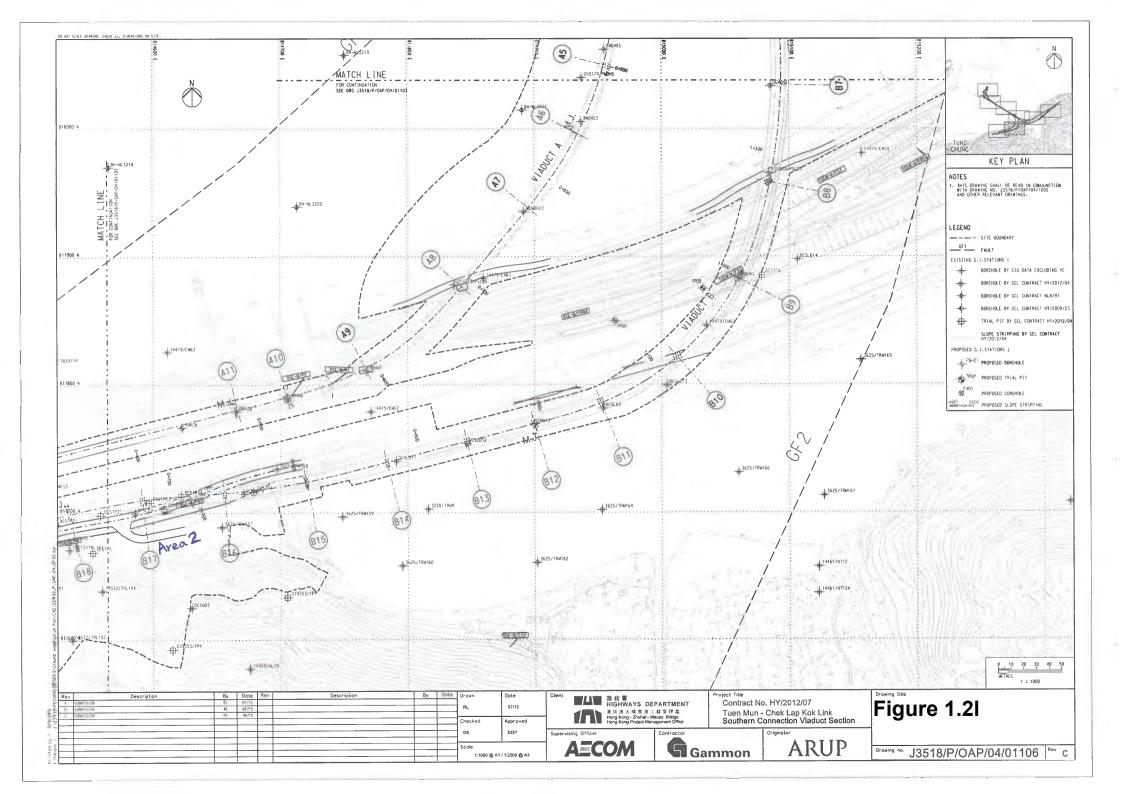
SHEET 2 OF 2

SHEET NUMBER

60240249/C1/1052







1.4 **SUMMARY OF CONSTRUCTION WORKS**

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

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

Marine Works

- Construction and installation of pile caps;
- Uninstallation of marine piling platform;
- Pier construction;
- Construction of marine section of berth at Southern Landfall;
- Launching gantry operation; and
- Installation of deck segment and pier head segment.

Land-based Works

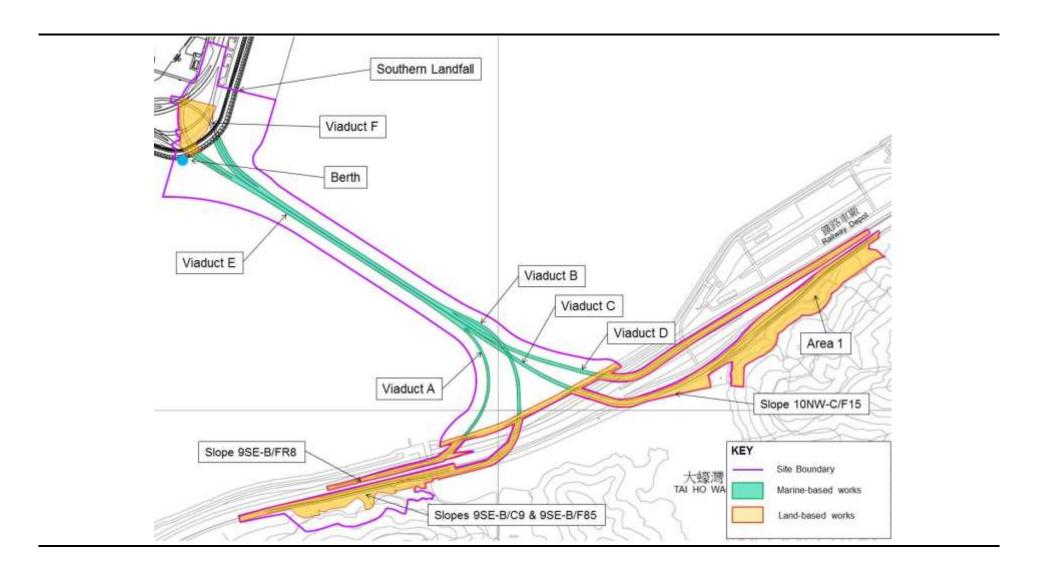
- Pier construction;
- Re-alignment of Cheung Tung Road;
- Construction of land section of berth at Southern Landfall;
- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

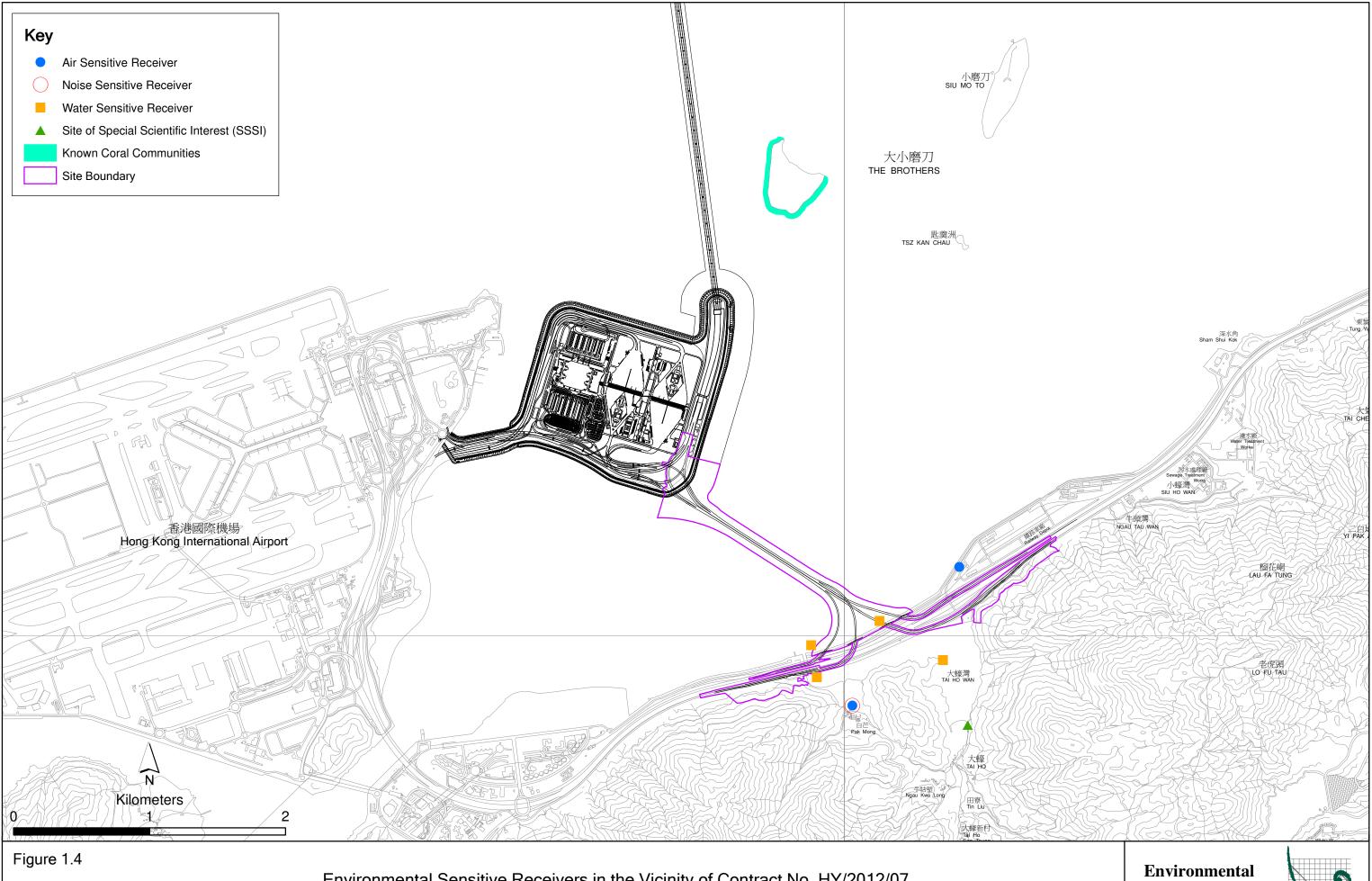
The locations of the construction activities are shown in *Figure 1.3*. The Environmental Sensitive Receivers in the vicinity of the Project are shown in Figure 1.4.

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

3

Figure 1.3 Locations of Construction Activities in the Reporting Month





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

Environmental Resources Management



2 EM&A RESULTS

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

2.1 AIR QUALITY

2.1.1 Monitoring Requirements and Equipment

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

Table 2.1 Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location	Description	Monitoring Dates
ASR 9	MTR Depot	On the ground nearby MTR Depot Entrance	5, 11, 14, 20, 26 and 29 April 2016
ASR 8A	Area 4	On ground at the works area, Area 4	5, 11, 14, 20, 26 and 29 April 2016

High Volume Samplers (HVSs) were used for carried out 1-hour and 24-hour TSP monitoring on 5, 11, 14, 20, 26 and 29 April 2016 at ASR8A and ASR9 in accordance with the requirements of the Updated EM&A Manual. The TSP monitoring stations are illustrated in *Figure 2.1* and detailed in *Table 2.1*. Wind anemometer was deployed at Area 4 for logging wind speed and wind direction. Copies of the calibration certificates for the equipment are presented in *Appendix E*. Details of the deployed equipment are given in *Table 2.2*.

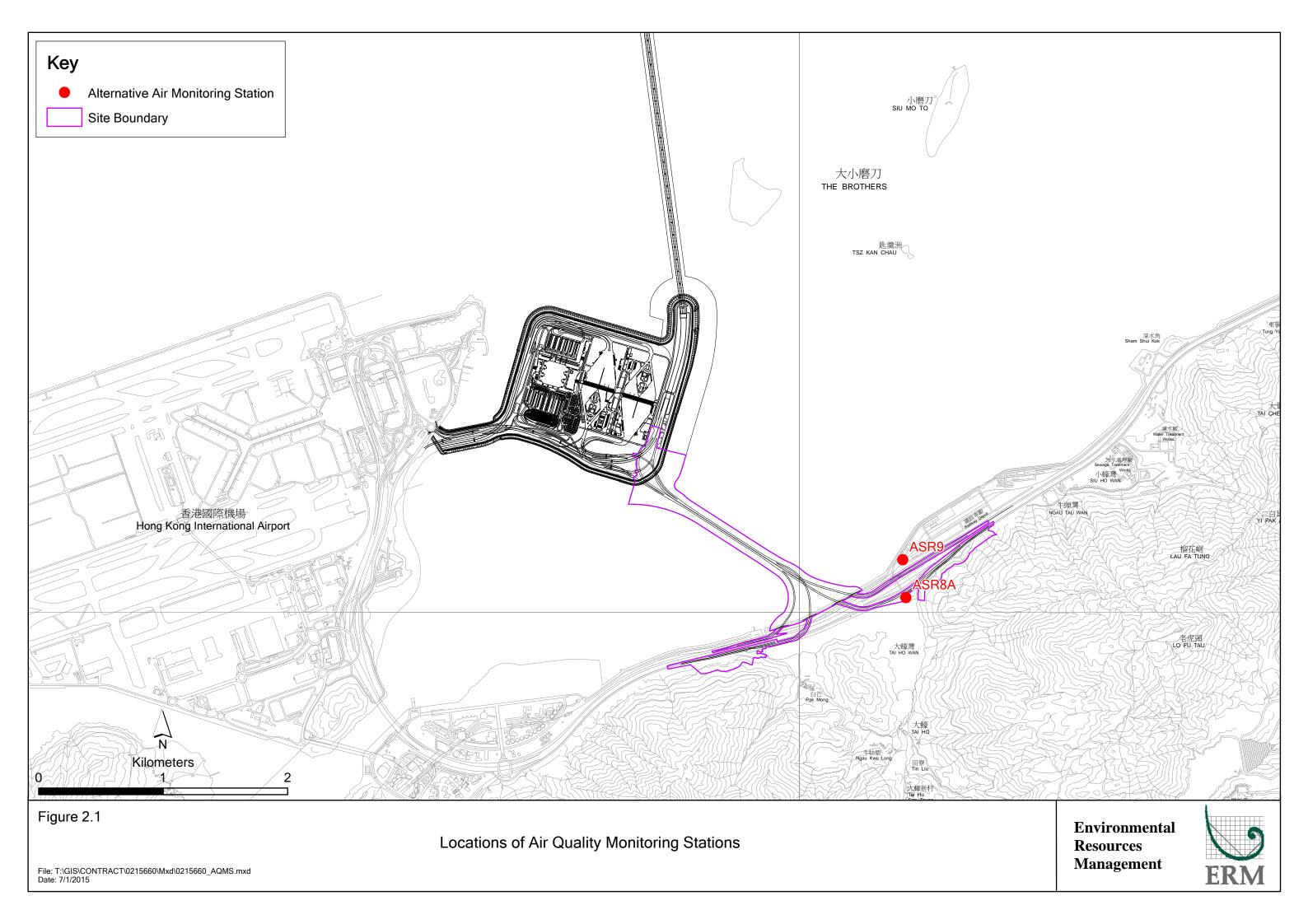


Table 2.2 Air Quality Monitoring Equipment

Equipment	Brand and Model
High Volume Sampler	Tisch Environmental Mass Flow Controlled
(1-hour TSP and 24-hour TSP)	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 April 2016 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

Monitoring Station	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
ASR 8A	100	44 - 224	394	500
ASR 9	86	62 - 129	393	500

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

Monitoring Station	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
ASR 8A	57	43 - 81	178	260
ASR 9	59	51 - 73	178	260

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

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

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

2.2 Noise Monitoring

2.2.1 Monitoring Requirements and Equipment

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

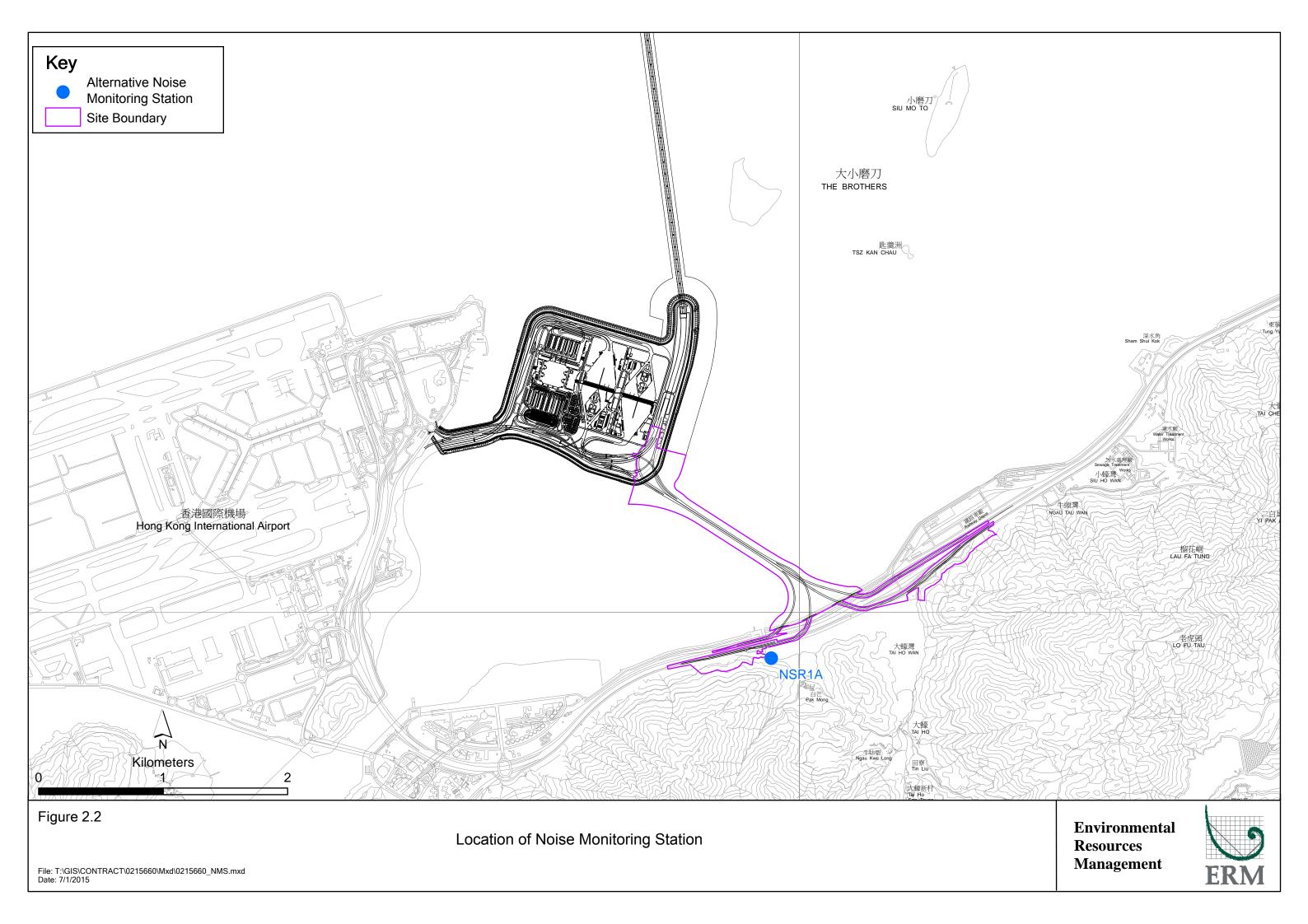
Noise monitoring was performed on 5, 11, 14, 20, 26 and 29 April 2016 by using sound level meter at the designated monitoring station NSR1A (*Figure 2.2; Table 2.5*) in accordance with the requirements stipulated in the Updated EM&A Manual. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Details of the deployed equipment are provided in *Table 2.6*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

Table 2.5 Location of Impact Noise Monitoring Station

Monitoring Station	Location	Description	Parameter	Frequency and Duration	Monitoring Dates
NSR 1A	Pak Mong	On the	30-minute	At least once	5, 11, 14, 20,
	Village	ground at the	measurement at	per week	26 and 29
	Pavilion	village	each		April 2016
		entrance	monitoring		
			station between		
			0700 and 1900		
			on normal		
			weekdays		
			(Monday to		
			Saturday). L _{eq} ,		
			L ₁₀ and L ₉₀		
			would be		
			recorded.		

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 provided 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),	Range, dB(A),	Limit Level, dB(A),
	$L_{eq~(30 mins)}$	$L_{eq~(30 mins)}$	$ m L_{eq~(30mins)}$
NSR 1A	59	58 - 61	75

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

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

2.3 WATER QUALITY MONITORING

2.3.1 Monitoring Requirements and Equipment

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

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

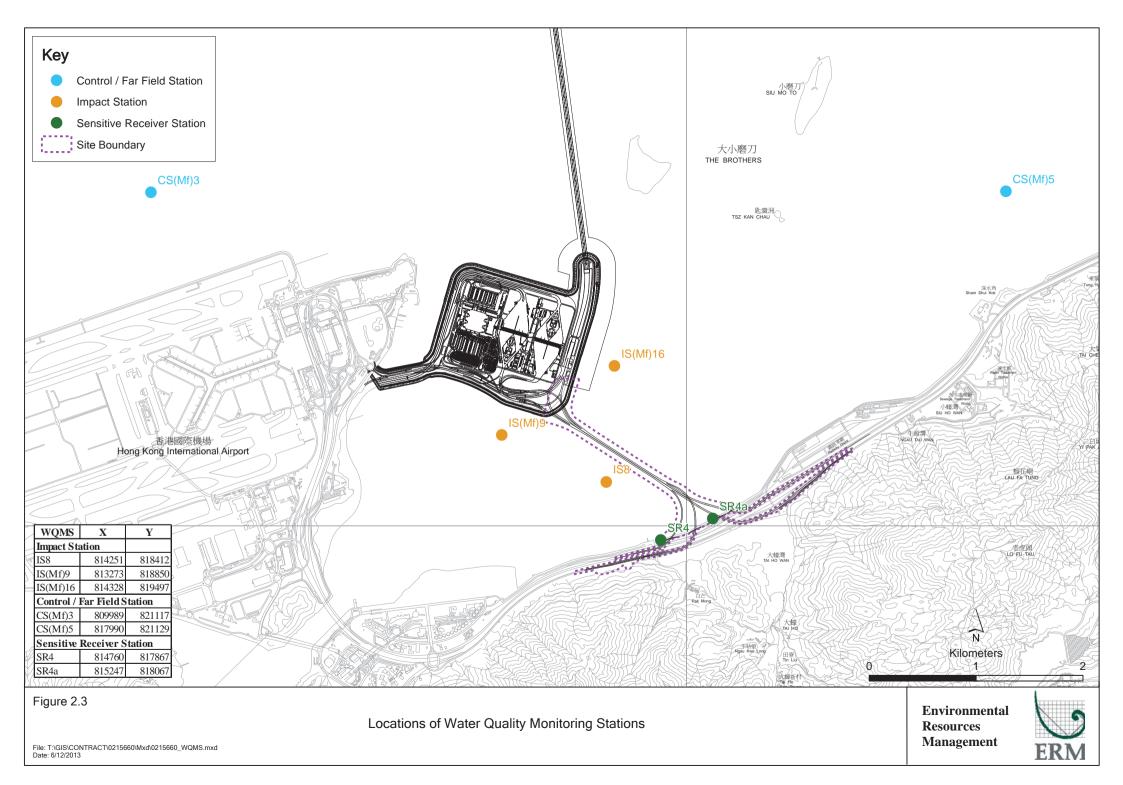


Table 2.8 Locations of Impact Water Quality Monitoring Stations and its Corresponding Monitoring Requirements

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

^{*}Notes:

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

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

Table 2.9 Water Quality Monitoring Equipment

Equipment	Brand and Model		
DO and Salinity	YSI Pro2030		
Turbidity meter	HACH Model 2100Q		
pH meter	Thermo Scientific Orion 2 Star		
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 April 2016 is provided in *Appendix F*.

2.3.3 Results and Observations

In 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*.

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

2.4 DOLPHIN MONITORING

2.4.1 Monitoring Requirements

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

2.4.2 *Monitoring equipment*

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

Table 2.10 Dolphin Monitoring Equipment

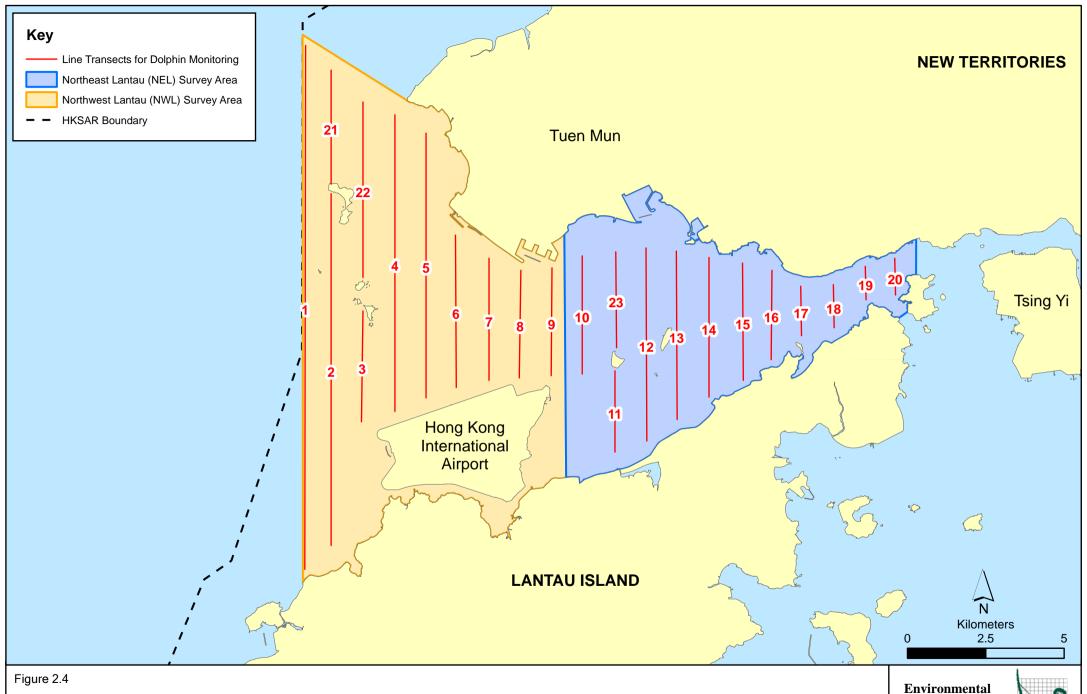
Equipment	Model		
Global Positioning System (GPS)	Garmin 18X-PC		
	Geo One Phottix		
Camera	Nikon D90 300m 2.8D fixed focus		
	Nikon D90 20-300m zoom lens		
Laser Binoculars	Infinitor LRF 1000		
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules		
Vessel for Monitoring	65 foot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

2.4.3 Monitoring Parameter, Frequencies and Duration

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

2.4.4 Monitoring Location

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



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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	815456	13	Start Point	816506	819480
1	End Point	804671	831404	13	End Point	816506	824859
2	Start Point	805475	815913	14	Start Point	817537	820220
2	End Point	805477	826654	14	End Point	817537	824613
3	Start Point	806464	819435	15	Start Point	818568	820735
3	End Point	806464	822911	15	End Point	818568	824433
4	Start Point	807518	819771	16	Start Point	819532	821420
4	End Point	807518	829230	16	End Point	819532	824209
5	Start Point	808504	820220	17	Start Point	820451	822125
5	End Point	808504	828602	17	End Point	820451	823671
6	Start Point	809490	820466	18	Start Point	821504	822371
6	End Point	809490	825352	18	End Point	821504	823761
7	Start Point	810499	820880	19	Start Point	822513	823268
7	End Point	810499	824613	19	End Point	822513	824321
8	Start Point	811508	821123	20	Start Point	823477	823402
8	End Point	811508	824254	20	End Point	823477	824613
9	Start Point	812516	821303	21	Start Point	805476	827081
9	End Point	812516	824254	21	End Point	805476	830562
10	Start Point	813525	820872	22	Start Point	806464	824033
10	End Point	813525	824657	22	End Point	806464	829598
11	Start Point	814556	818853	23	Start Point	814559	821739
11	End Point	814556	820992	23	End Point	814559	824768
12	Start Point	815542	818807				
12	End Point	815542	824882				

2.4.5 Action & Limit Levels

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

2.4.6 Monitoring Schedule for the Reporting Month

Dolphin monitoring was carried out on 5, 12, 15 and 19 April 2016 (*Appendix F*).

2.4.7 Results and Observations

A total of 305.28 km of survey effort was collected, with 76.2% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) during the surveys in April 2016. Among the two areas, 116.3 km and 188.98 km of survey effort were collected from NEL and NWL survey areas respectively. The total survey effort conducted on primary and secondary lines were 222.14 km and 83.14 km respectively. The survey efforts are summarized in *Appendix K*.

Five (5) groups of eighteen (18) Chinese White Dolphins were sighted during the two sets of monitoring surveys in April 2016. All five (5) dolphin sightings were made in NWL, while none was sighted in NEL. During the surveys in April 2016, two (2) sightings were made on primary lines during on-effort search. None of the dolphin groups was associated with operating fishing vessel or sighted in the proximity of the Project's alignment. The distribution of dolphin sighting during the reporting month is shown in *Figure* 2.5.

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

Table 2.12 Individual Survey Event Encounter Rates

		Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	Encounter rate (ANI) (no. of dolphins from all on- effort sightings per 100 km of survey effort)
		Primary Lines Only	Primary Lines Only
NEL	Set 1: Apr 5th / 12th	0.0	0.0
NEL	Set 2: Apr 15th / 19th	0.0	0.0
NWL	Set 1: Apr 5th / 12th	2.2	17.6
INVVL	Set 2: Apr 15th / 19th	2.1	6.3

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

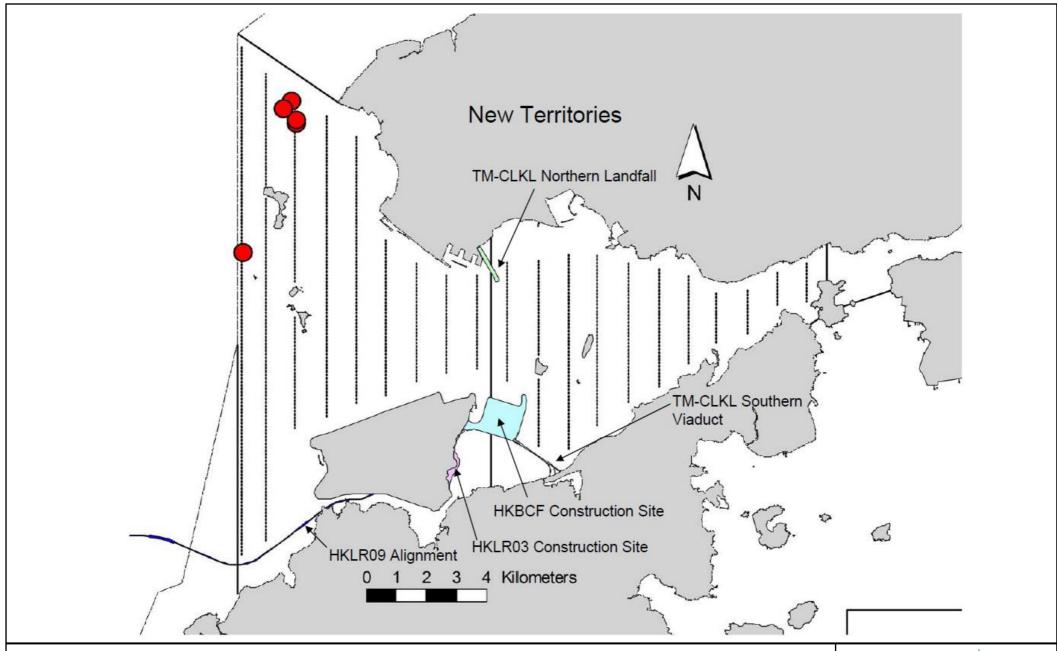


Figure 2.5

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 April 2016)



Table 2.13 Monthly Average Encounter Rates

	`	rate (STG) dolphin sightings 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	2.1	2.4	11.8	11.2	

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

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

2.4.8 Marine Mammal Exclusion Zone Monitoring

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

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

2.5 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, four (4) site inspections were carried out on 6, 13, 20 and 28 April 2016.

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

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

Inspection Date	Environmental Observations	Recommendations/ Remarks		
6 April 2016	 Area 1 Some broken sandbags were placed too close to drainage. Refuse was found in drainage. Construction material was placed too close to natural habitat. Area 2	 Area 1 Broken sandbags should be removed. Refuse in drainage should be cleaned up. Construction material should be placed away from natural habitat. Area 2 Soil stockpile should be well covered. 		
• Soil stockpile was not well covered				
13 April 2016	SeafrontOil stain was found on the floor.	SeafrontOil stain should be cleaned up.		
20 April 2016	Abutment D	Abutment D		
•	• Drip tray for generator was not plugged.	 Drip tray should be plugged. 		
	The road was partially dry.	 Watering should be applied regularly to avoid dust emission. 		
28 April 2016	Pier E6	Pier E6		
-	 Drip tray for generator was not plugged. 	 Drip tray should be plugged. 		
	Pier E4	Pier E7		
	 Waste on platform was not properly stored. 	 Waste should be stored properly. 		

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

2.6 WASTE MANAGEMENT STATUS

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

Wastes generated during this reporting period include mainly construction wastes (inert and non-inert), recyclable materials and chemical waste. 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	Imported	Inert	Non-inert	Recyclable	Chemical	Marine Se	diment (m³)
	Materials (a)	Fill (m³)	Construction	Construction	Materials (c)	Wastes	Category	Category
	(m^3)		Waste Re-	Waste (b) (kg)	(kg)	(kg)	L	M
			used					$(M_p & M_f)$
			(m³)					, ,
April 2016	565	0	789	79,580	8,724	3,000	0	0

Notes:

- (a) Inert construction wastes include hard rock and large broken concrete, and materials disposed as public fill.
- (b) Non-inert construction wastes include general refuse disposed at landfill.
- (c) Recyclable materials include metals, paper, cardboard, plastics, timber, felled trees and others.

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

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

2.7 ENVIRONMENTAL LICENSES AND PERMITS

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

Table 2.16 Summary of Environmental Licensing and Permit Status

License/ Permit	License or Permit	Date of Issue	Date of Expiry	License/	Remarks
	No.			Permit Holder	
Environmental Permit	EP-354/2009/D	13 March 2015	N/A	HyD	Tuen Mun- Chek Lap Kok Link
Environmental Permit	EP-353/2009/I	17 July 2015	N/A	HyD	Hong Kong Boundary Crossing Facilities
Construction Dust Notification	361571	5 Jul 2013	N/A	GCL	
Construction Dust Notification	362093	17 Jul 2013	N/A	GCL	For Area 23
Chemical Waste Registration	5213-961-G2380-13	10 Oct 2013	N/A	GCL	Chemical waste produced in Contract 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)
Chemical Waste Registration	5213-951-G2380-17	12 Jun 2014	N/A	GCL	Viaducts A, B, C, D & E
Construction Waste Disposal Account	7017735	10 Jul 2013	N/A	GCL	-
Construction Waste Disposal Account	7019470	3 Mar 2014	N/A	GCL	Vessel CHIT Account
Waste Water Discharge License	WT00019017-2014	13 May 2014	31 May 2019	GCL	Discharge for marine portion
Waste Water Discharge License	WT00019018-2014	13 May 2014	31 May 2019	GCL	Discharge for land portion
Construction Noise Permit for night works and works in general holidays	GW-RW0045-16	27 Jan 2016	25 Jul 2016	GCL	General works at WA5
Construction Noise Permit for night works and works in general holidays	GW-RS0383-16	20 Apr 2016	19 Oct 2016	GCL	For Broad Permit
Construction Noise Permit for night works and works in general holidays	GW-RS0279-16	29 Mar 2016	30 May 2016	GCL	Broad Permit for Segmen. Launching at Land Portion
Construction Noise Permit for night works and works in general holidays	GW-RS0109-16	5 Feb 2016	14 Aug 2016	GCL	Pre-casted pile cap shell installation at E10-E13
Marine Dumping Permit	EP/MD/16-203	29 Mar 2016	30 Apr 2016	GCL	For dumping Type I (Dedicated Site) and Type II sediment
Marine Dumping Permit	EP/MD/16-138	10 Dec 2015	13 Jun 2016	GCL	For dumping Type I sediment

2.8 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

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

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

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

2.9 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

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

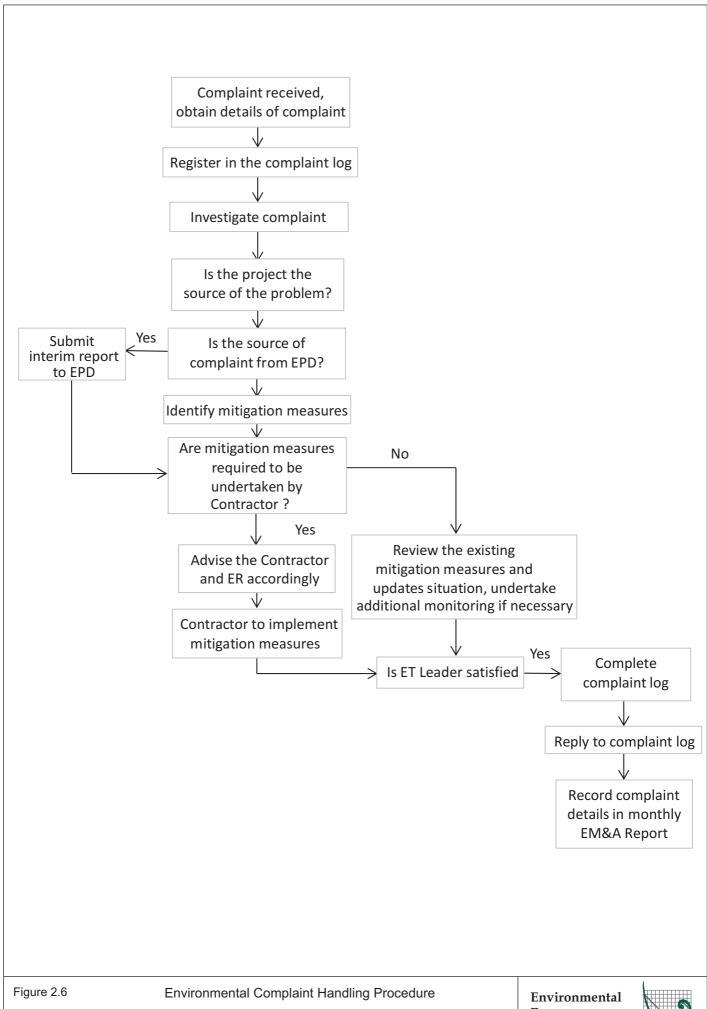
Cumulative statistics on exceedances is provided in *Appendix N*.

2.10 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in Figure 2.6

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

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





3 FUTURE KEY ISSUES

3.1 CONSTRUCTION PROGRAMME FOR THE COMING MONTHS

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

Marine Works

- Construction and installation of pile caps;
- Uninstallation of marine piling platform;
- Pier construction;
- Construction of marine section of berth at Southern Landfall;
- Launching gantry operation; and
- Installation of deck segment and pier head segment.

Land-based Works

- Pier construction;
- Re-alignment of Cheung Tung Road;
- Construction of land section of berth at Southern Landfall;
- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

3.2 KEY ISSUES FOR THE COMING MONTH

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

3.3 MONITORING SCHEDULE FOR THE COMING MONTH

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

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4 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This Thirtieth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 30 April 2016 in accordance with the Updated EM&A Manual and the requirements of the Environmental Permits (*EP-354/2009/D* and *EP-353/2009/I*).

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

Five (5) groups of eighteen (18) Chinese White Dolphins were sighted during the two sets of monitoring surveys in April 2016, while no sighting was made in the proximity of the Project's alignment. There was no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins noticeable from general observations during the dolphin monitoring in this reporting month.

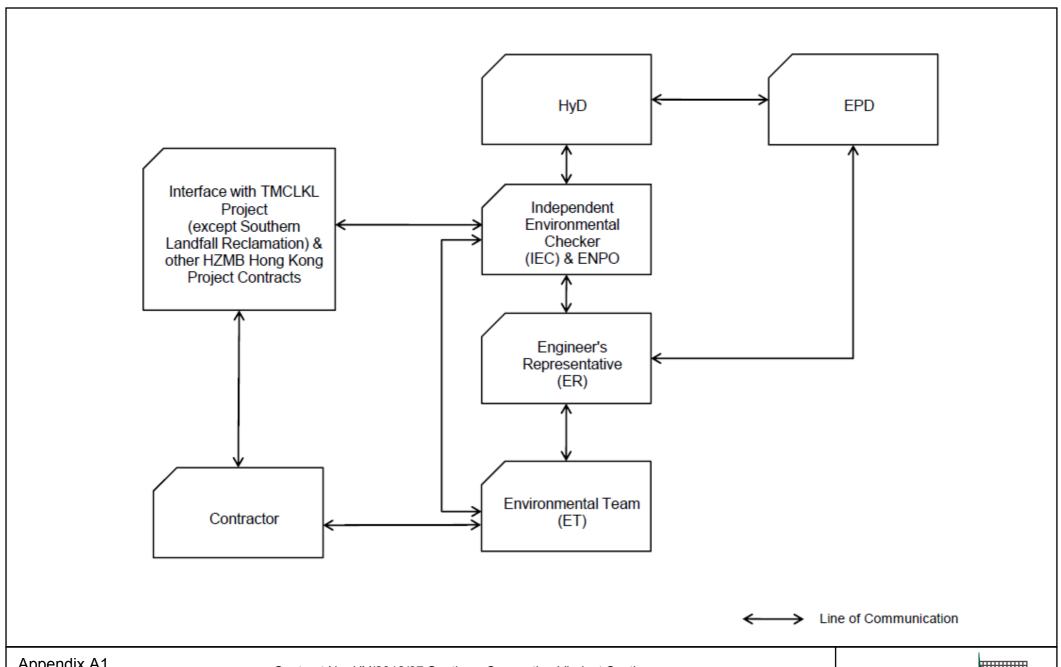
Environmental site inspection was carried out four (4) times in April 2016. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

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

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

Appendix A

Project Organization for Environmental Works



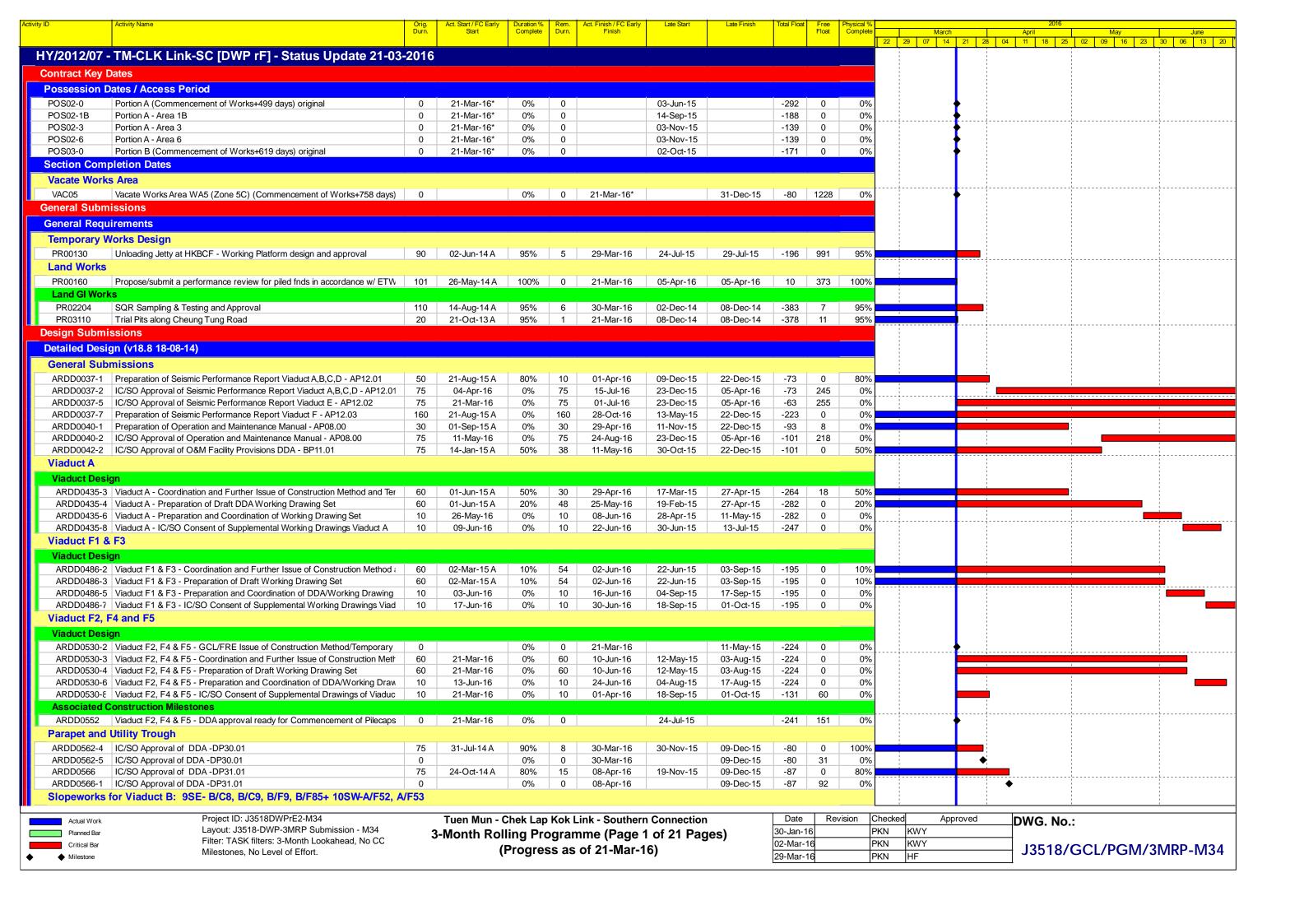
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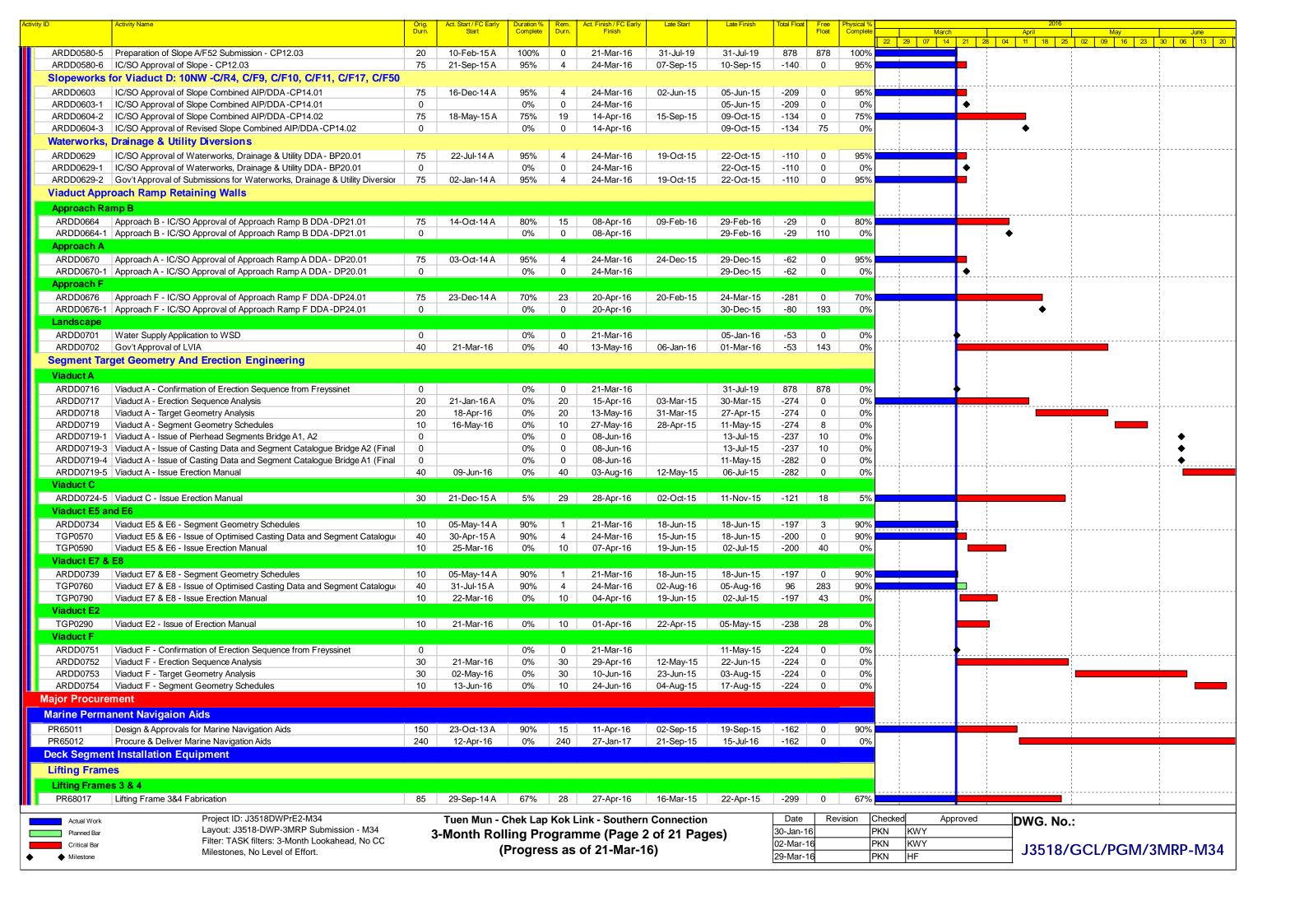
Contract No. HY/2012/07 Southern Connection Viaduct Section **Project Organization**

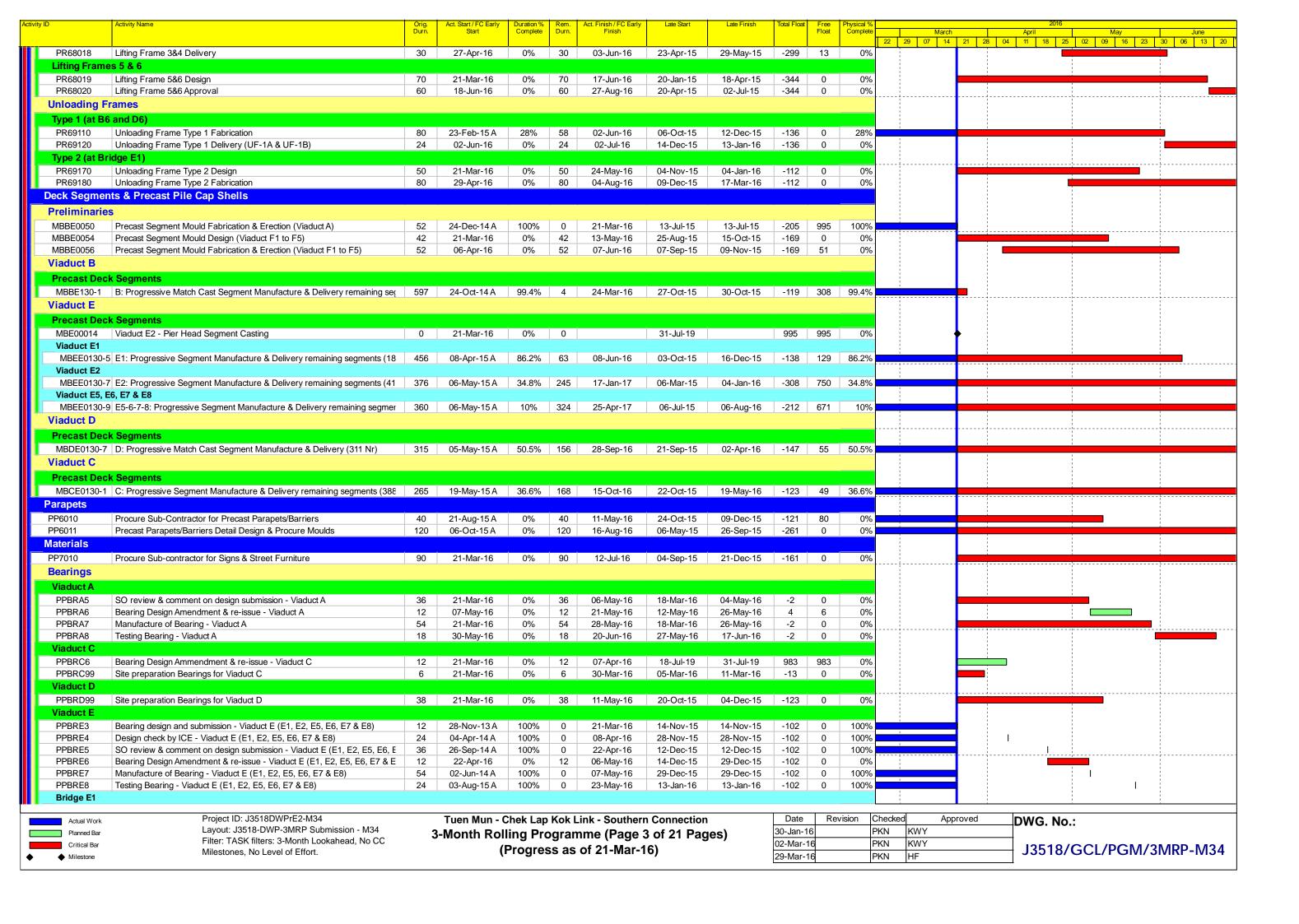


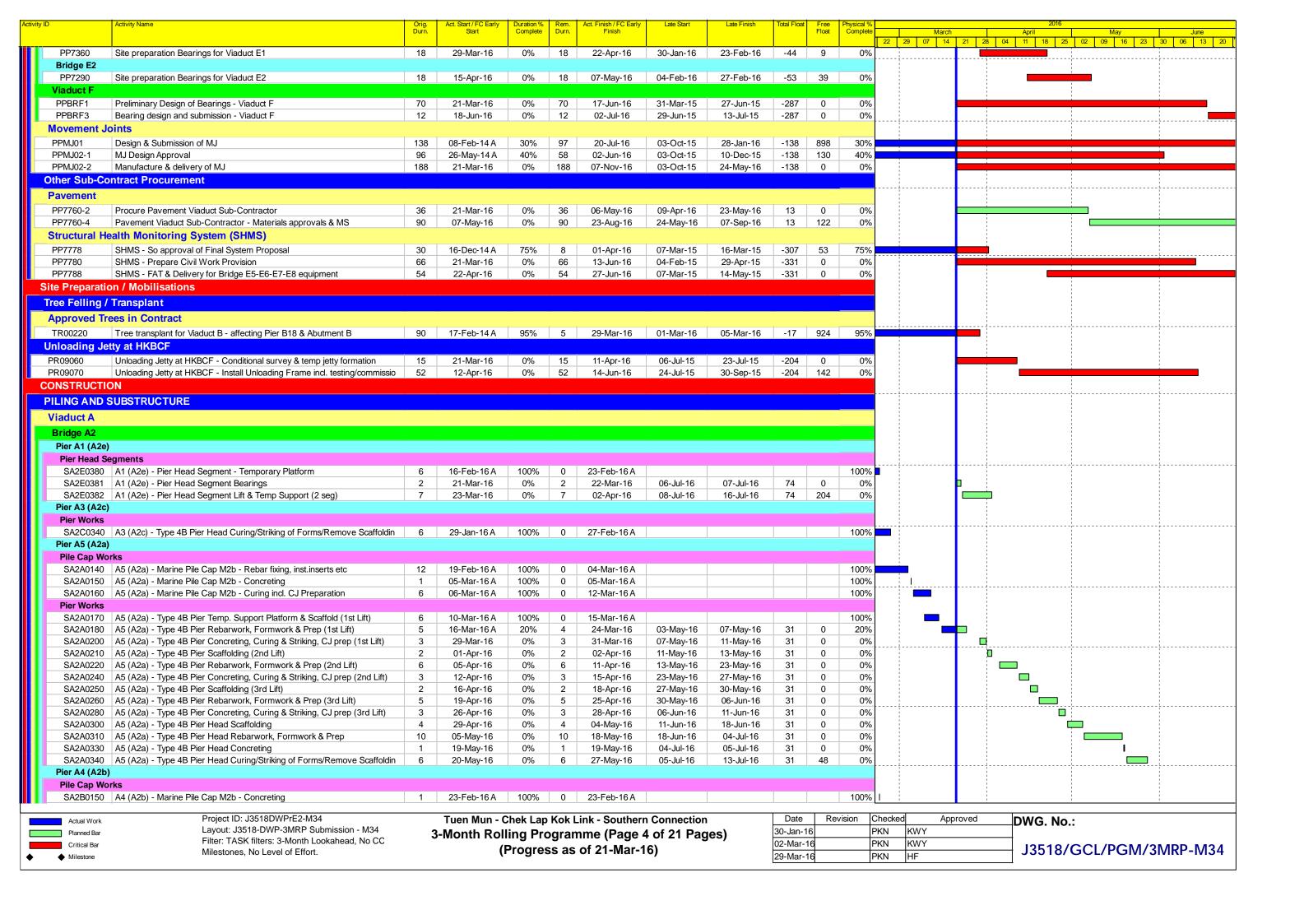
Appendix B

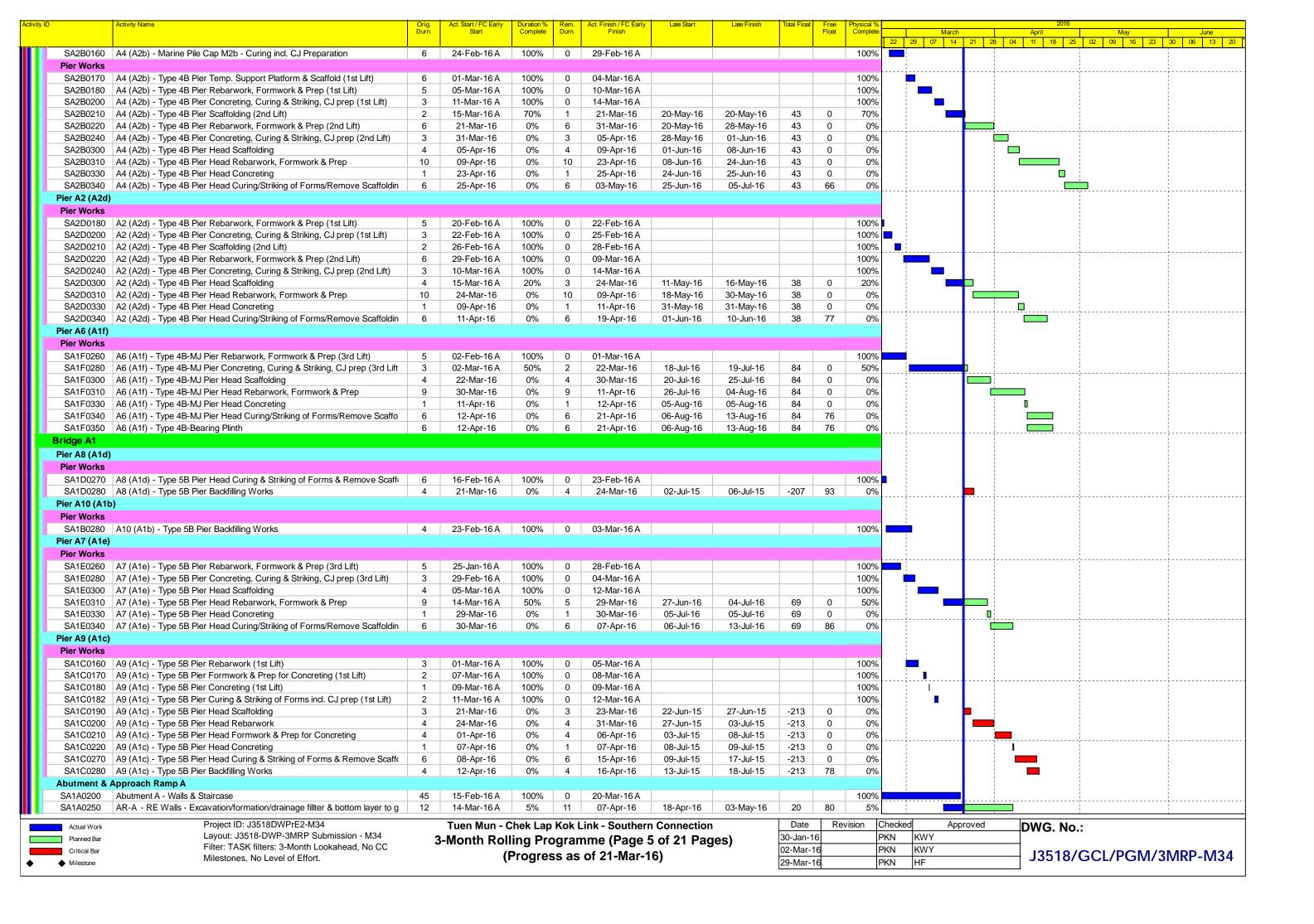
Three-Month Rolling Construction Programme

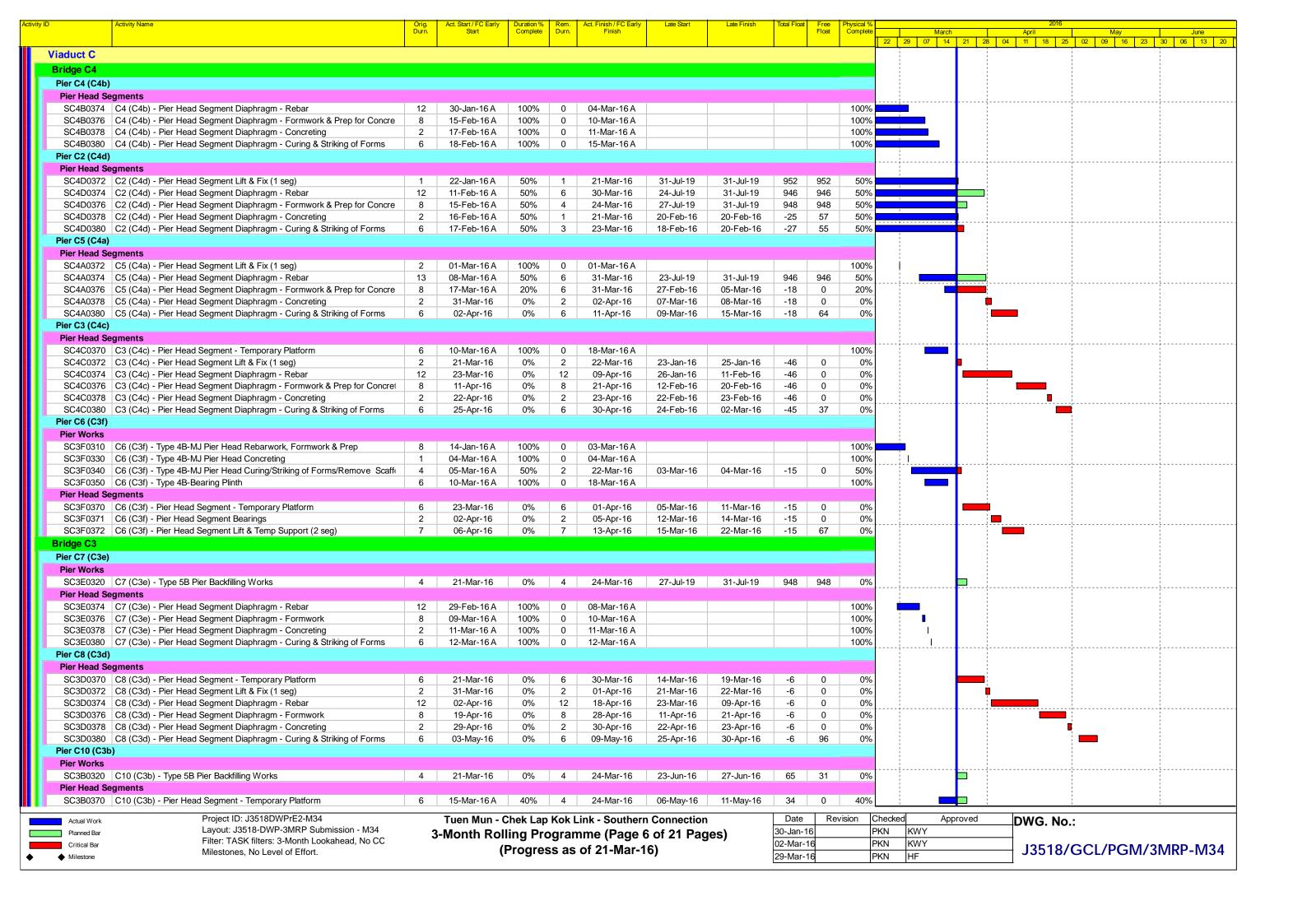


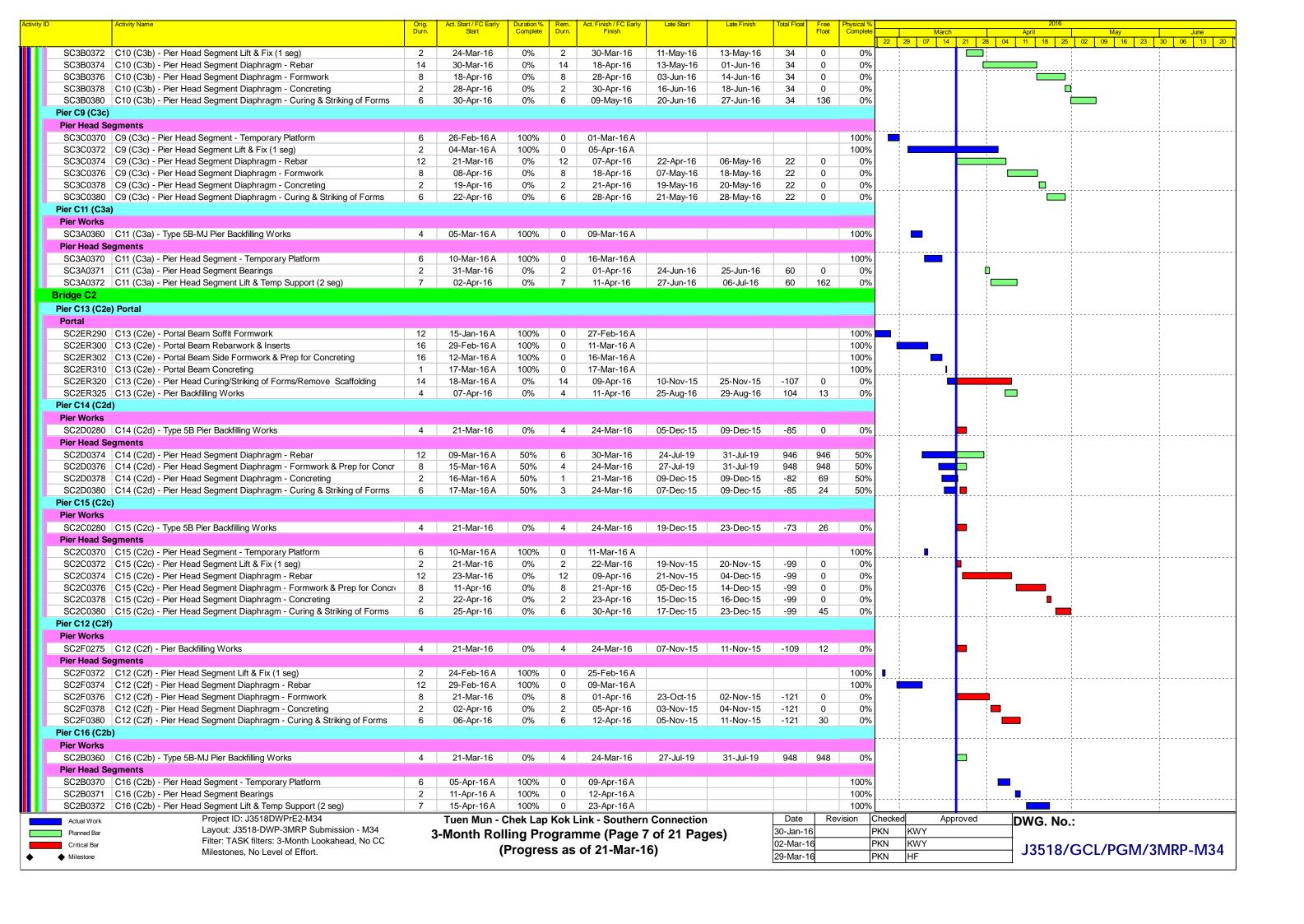


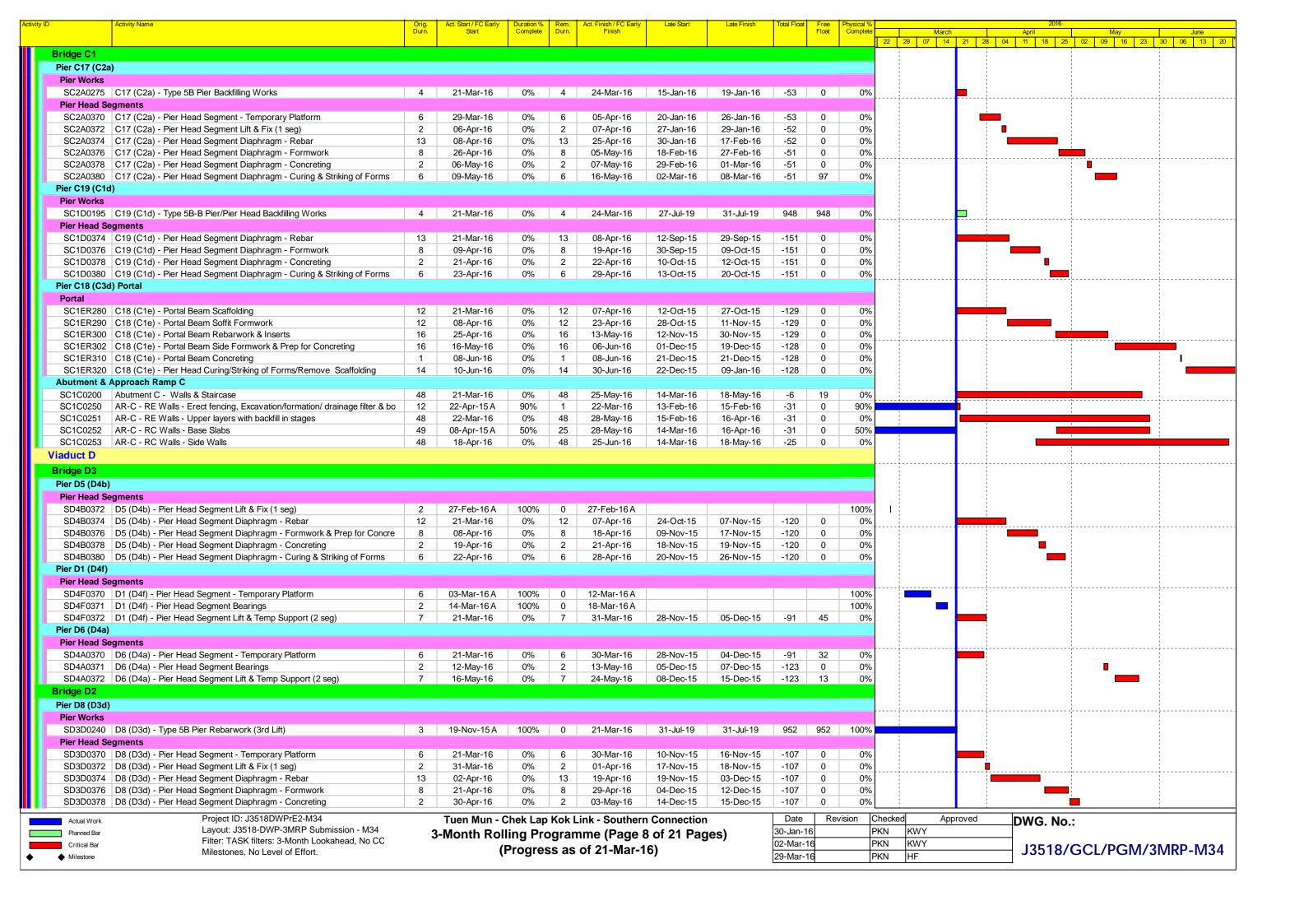


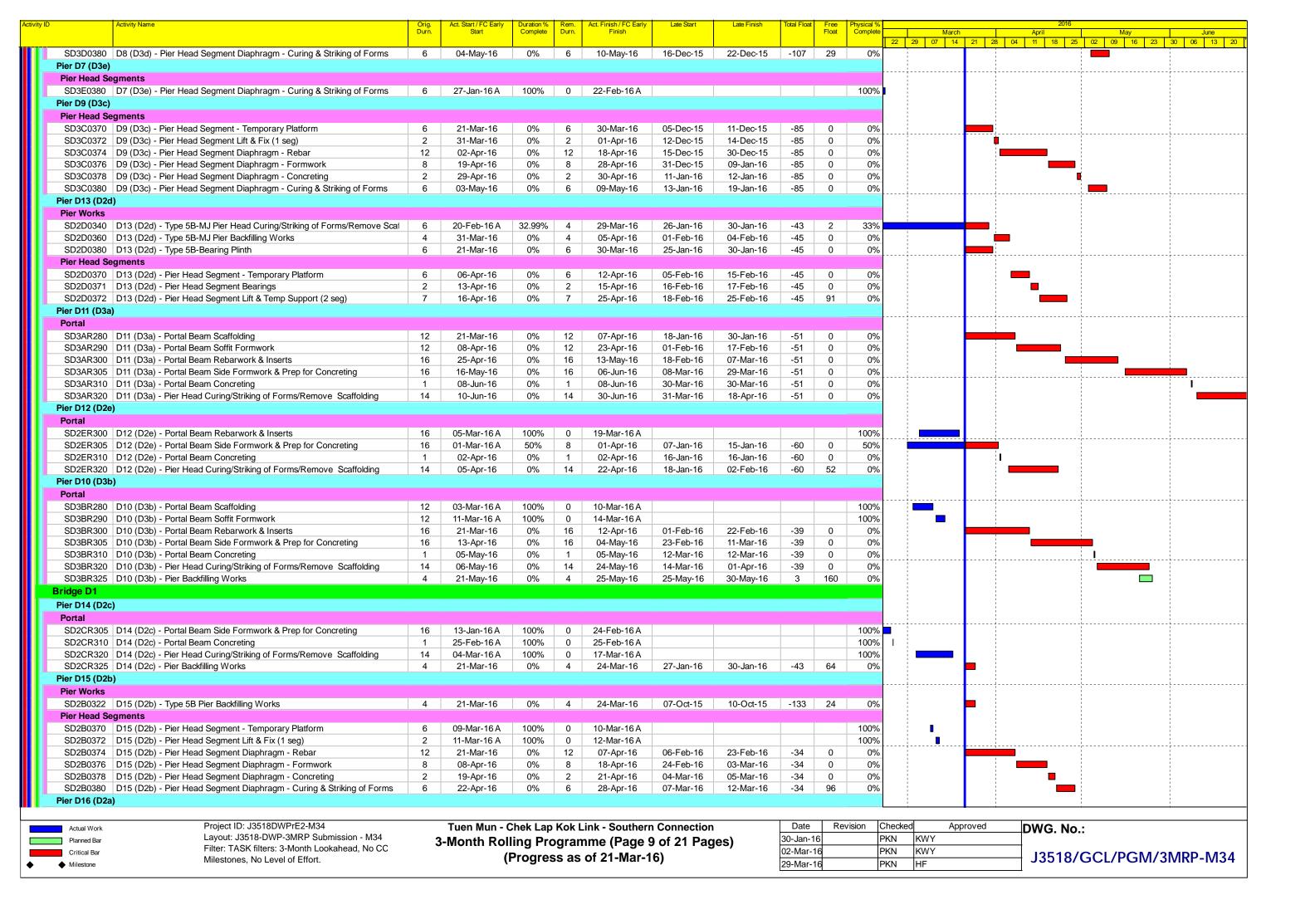


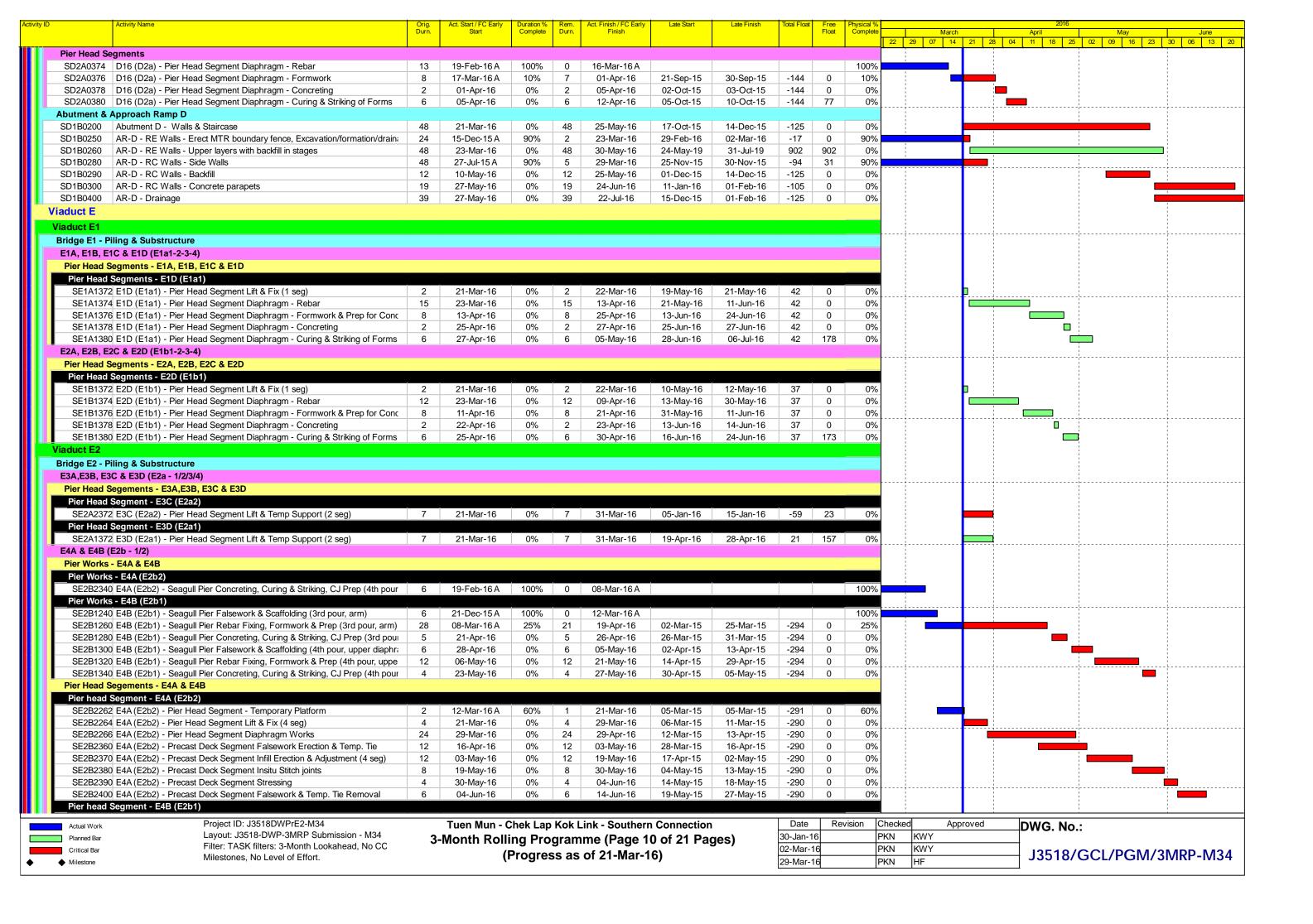


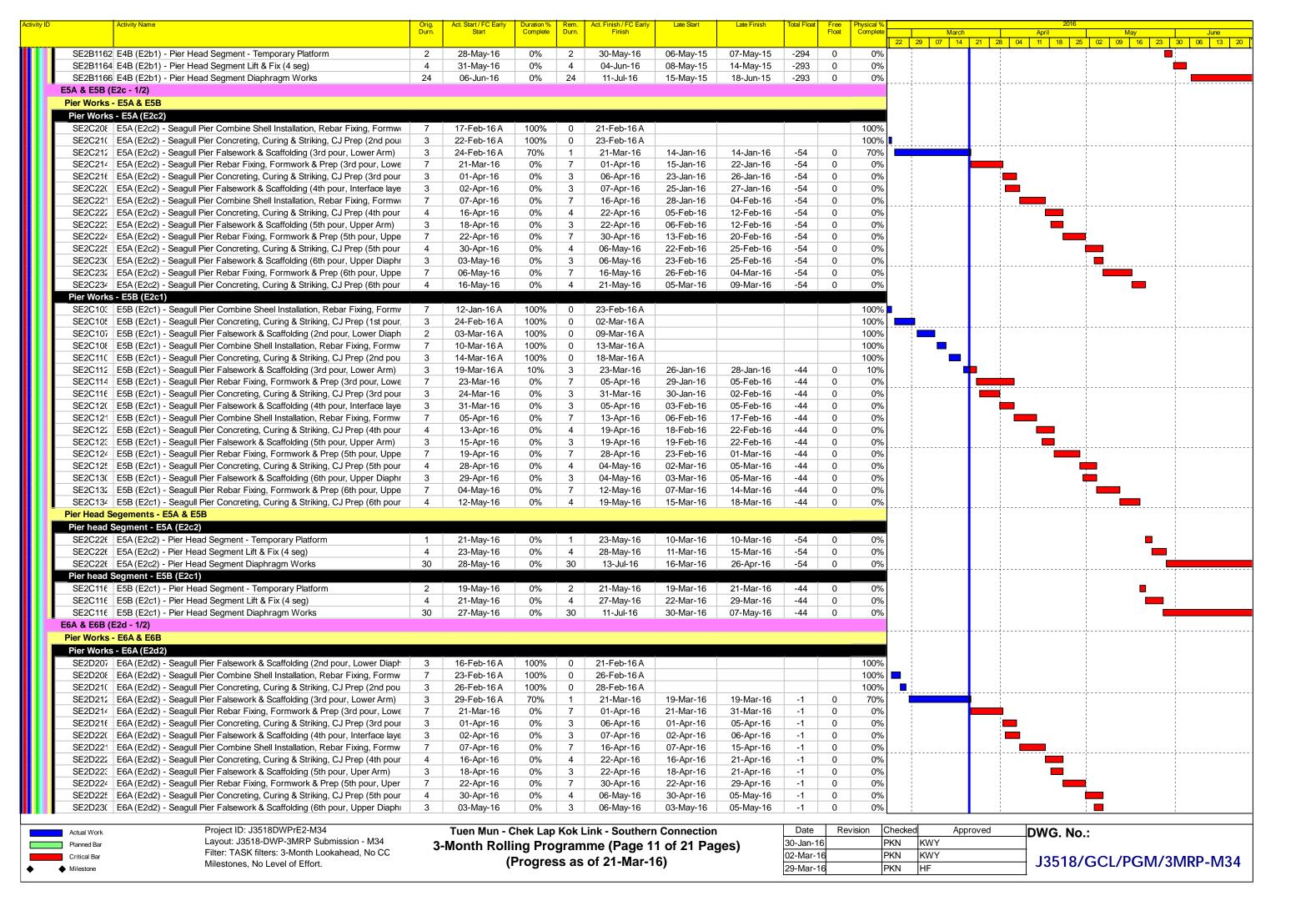


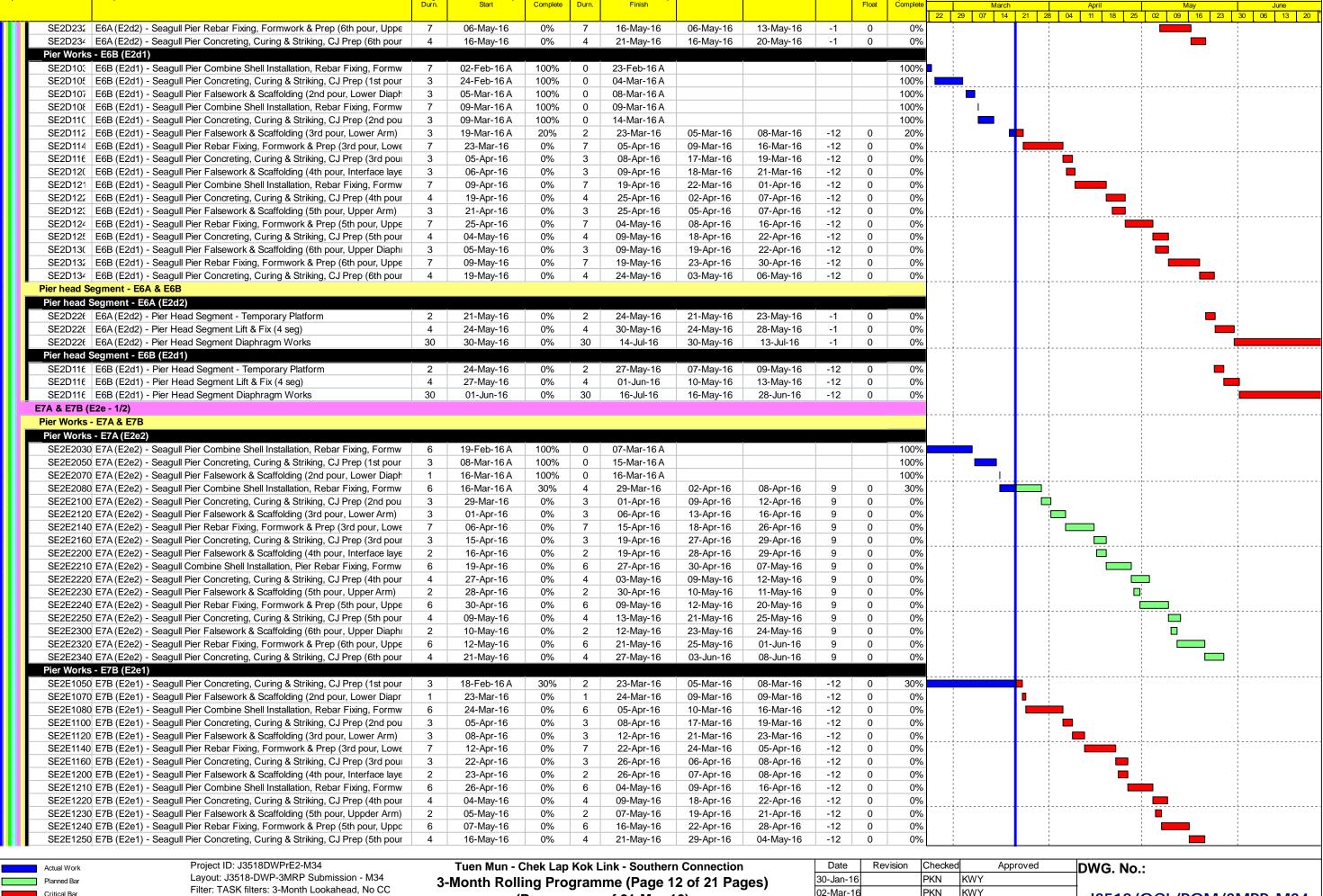












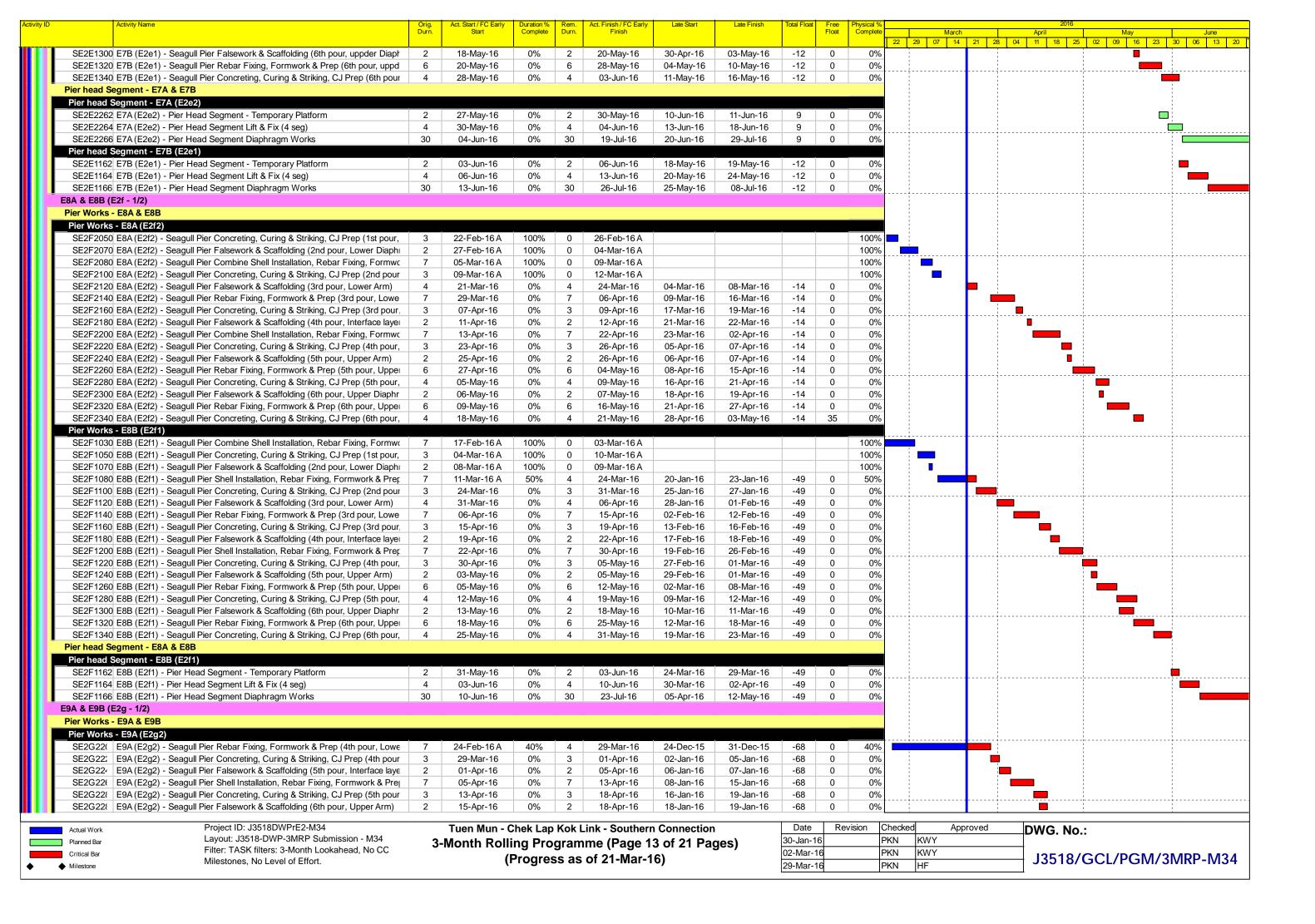
Critical Bar

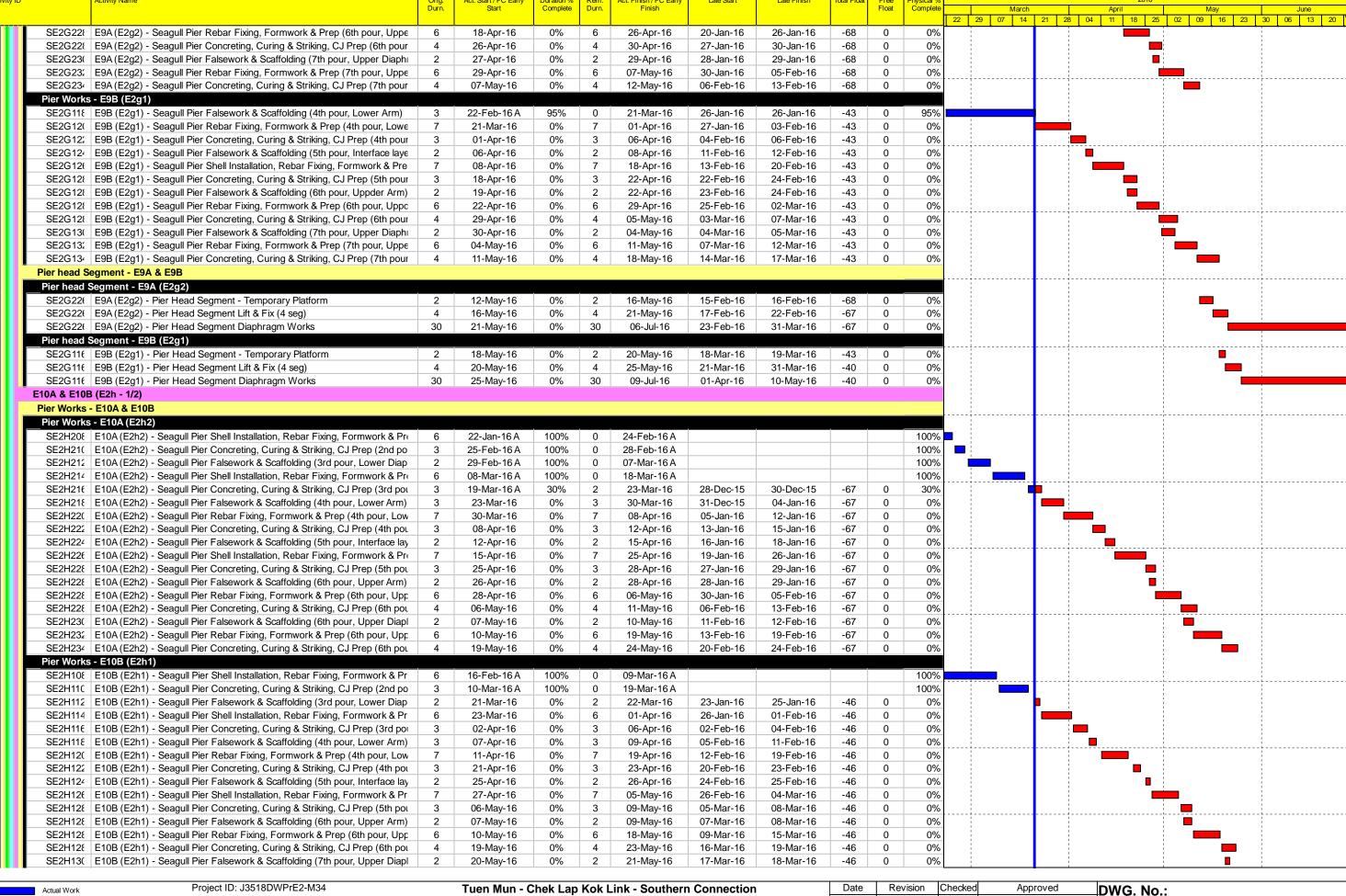
Milestones. No Level of Effort.

(Progress as of 21-Mar-16)

Date	Revision	Checked	Approved
30-Jan-16		PKN	KWY
02-Mar-16		PKN	KWY
29-Mar-16		PKN	HF

J3518/GCL/PGM/3MRP-M34





Actual Work
Planned Bar
Critical Bar

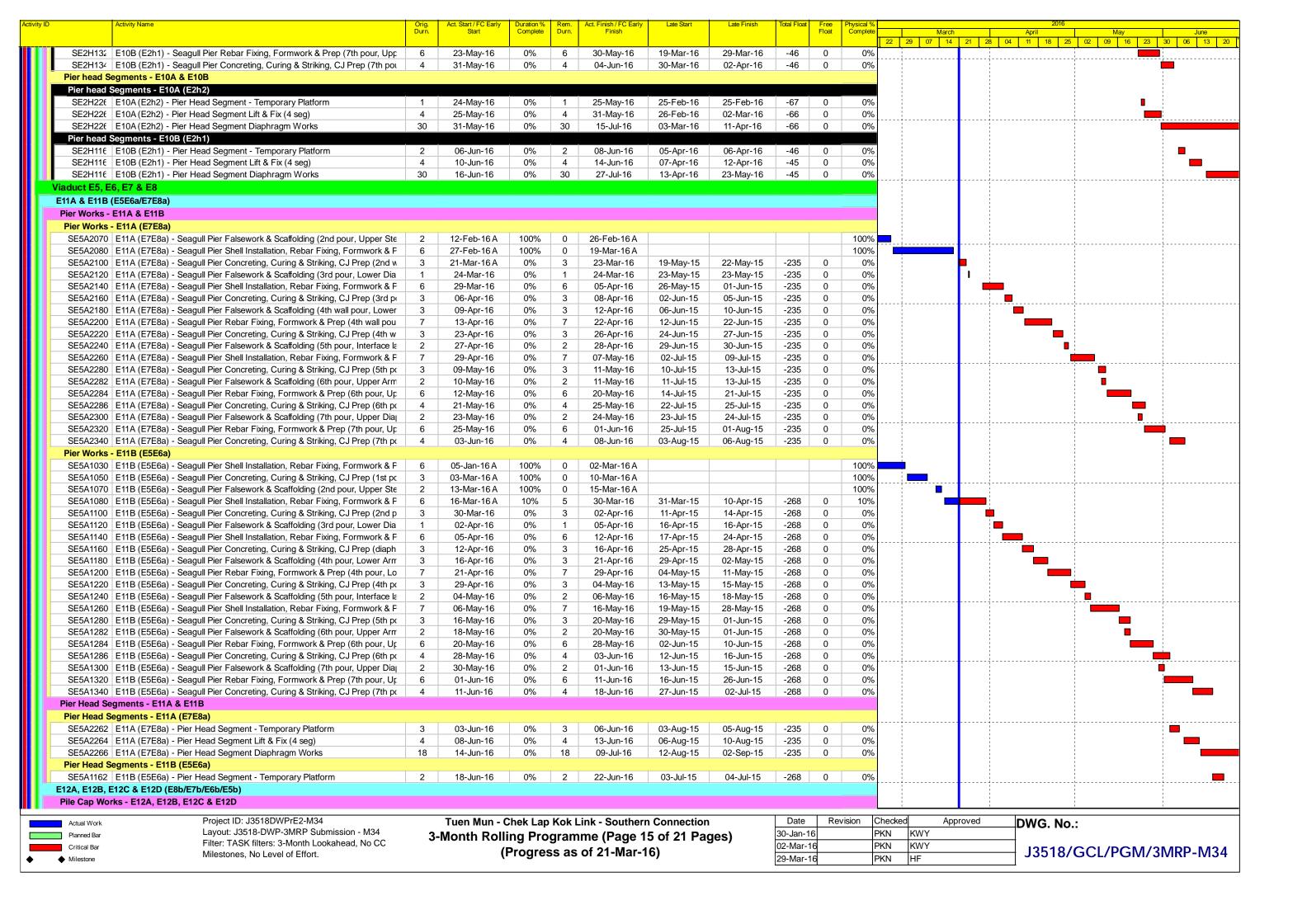
Milestone

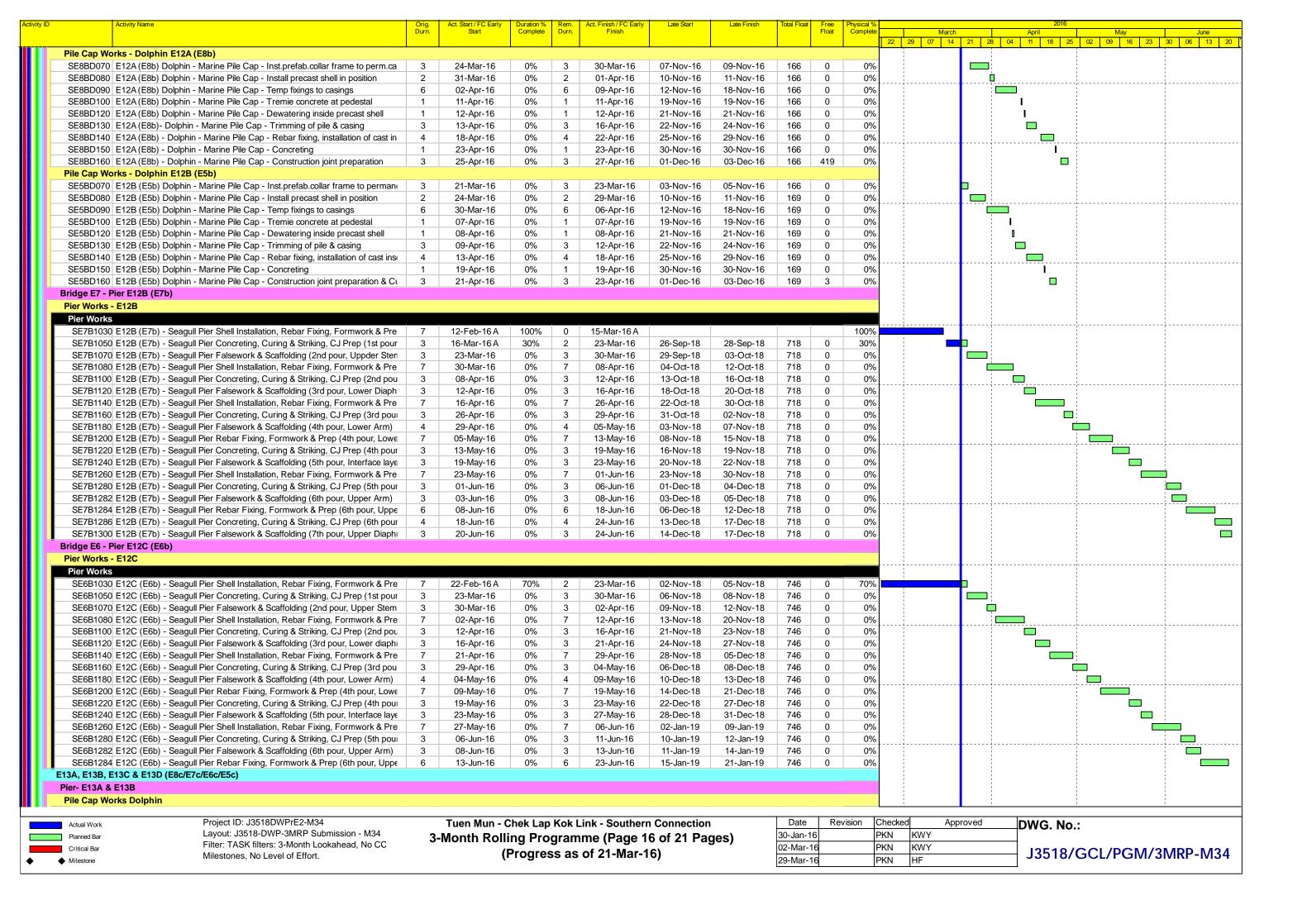
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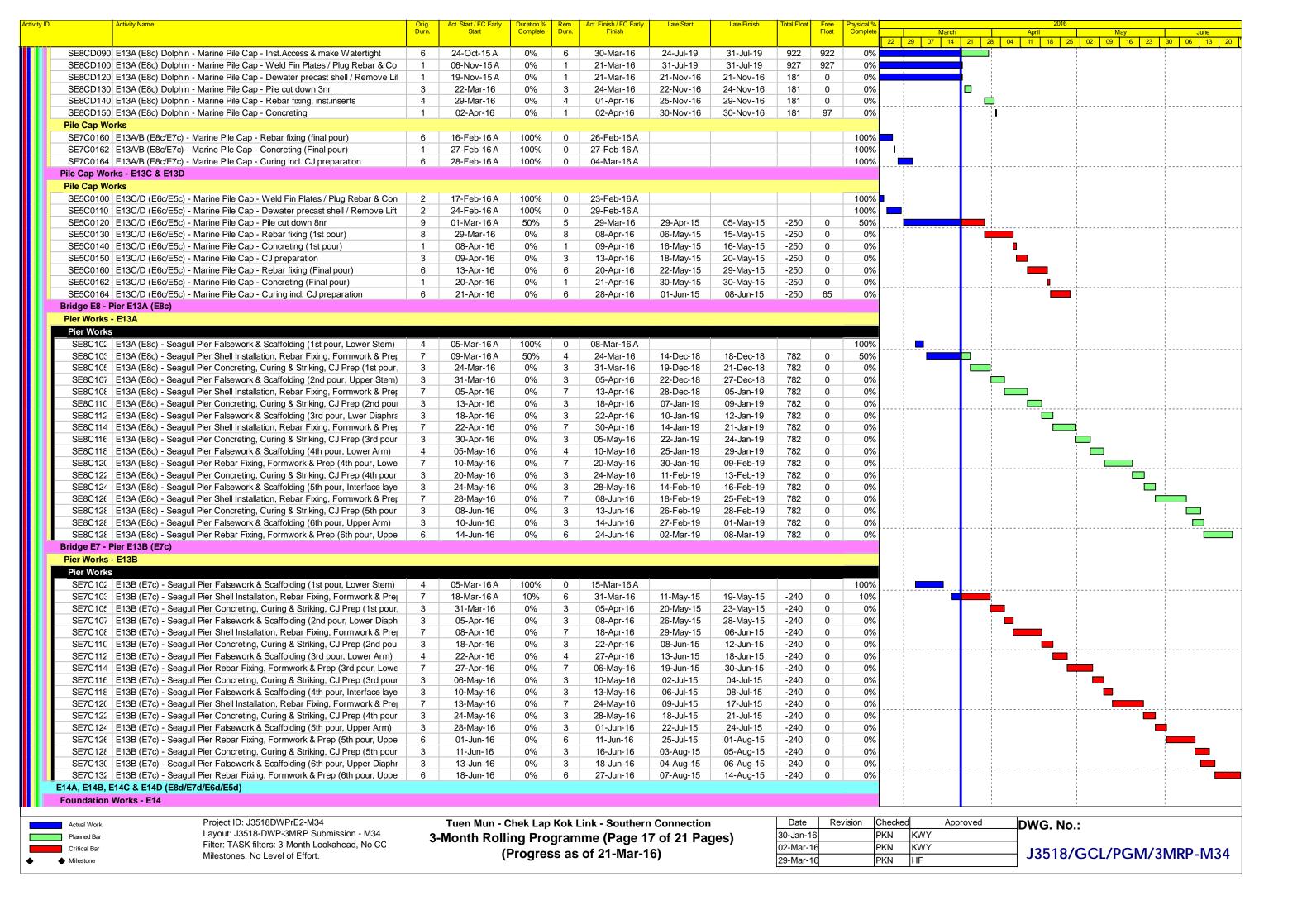
Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 14 of 21 Pages)
(Progress as of 21-Mar-16)

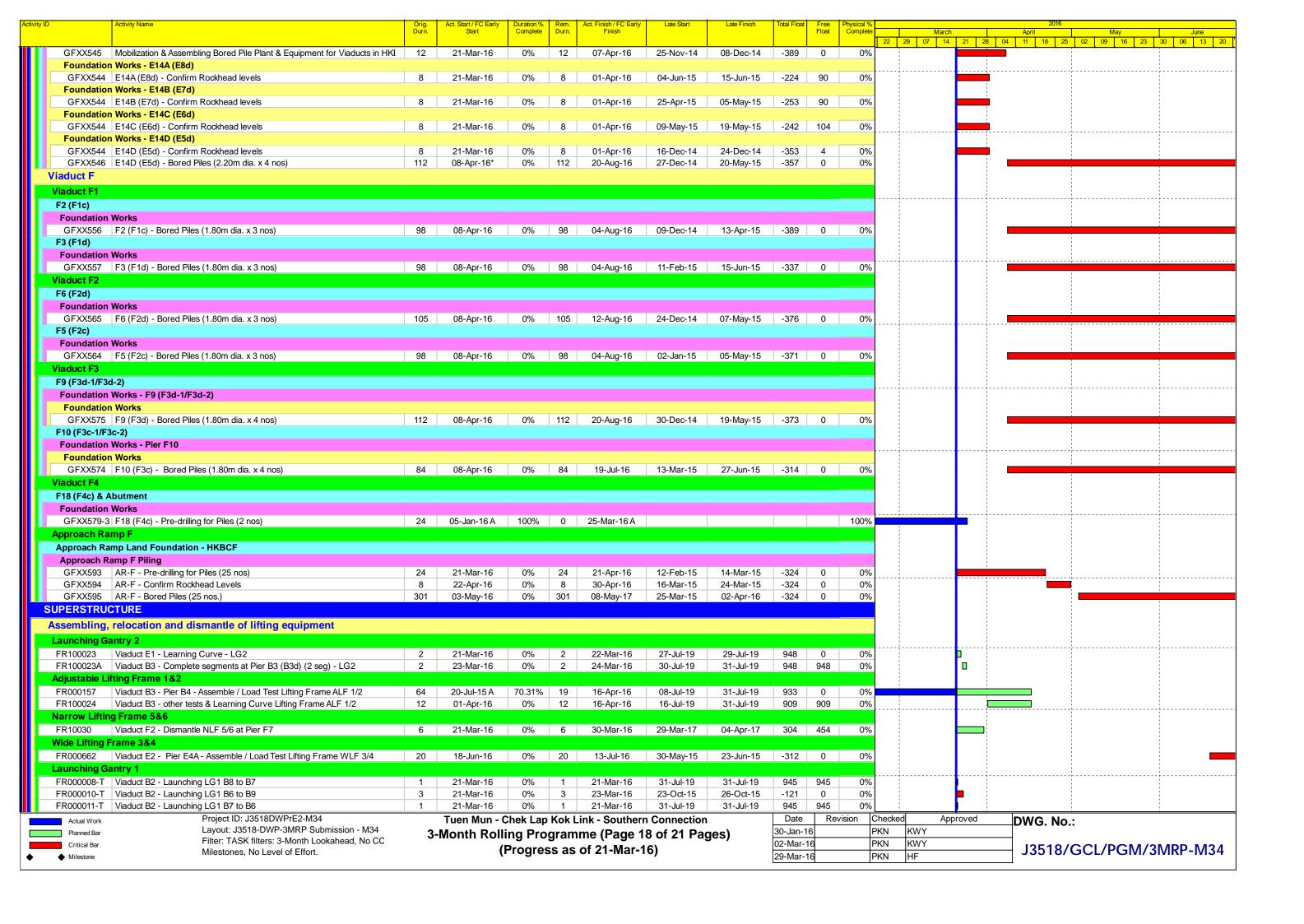
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02-Mar-16		PKN	KWY
29-Mar-16		PKN	HF

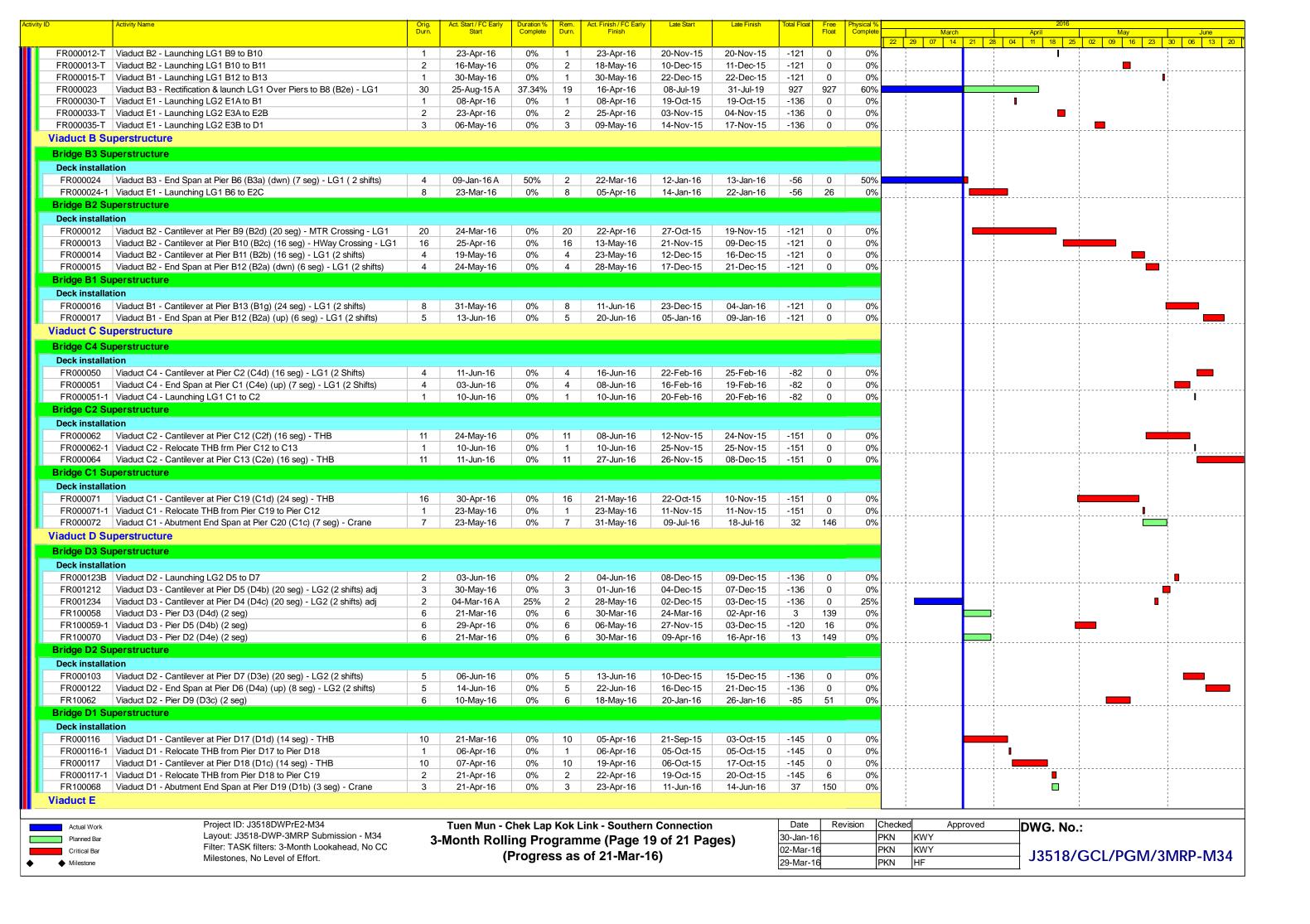
J3518/GCL/PGM/3MRP-M34

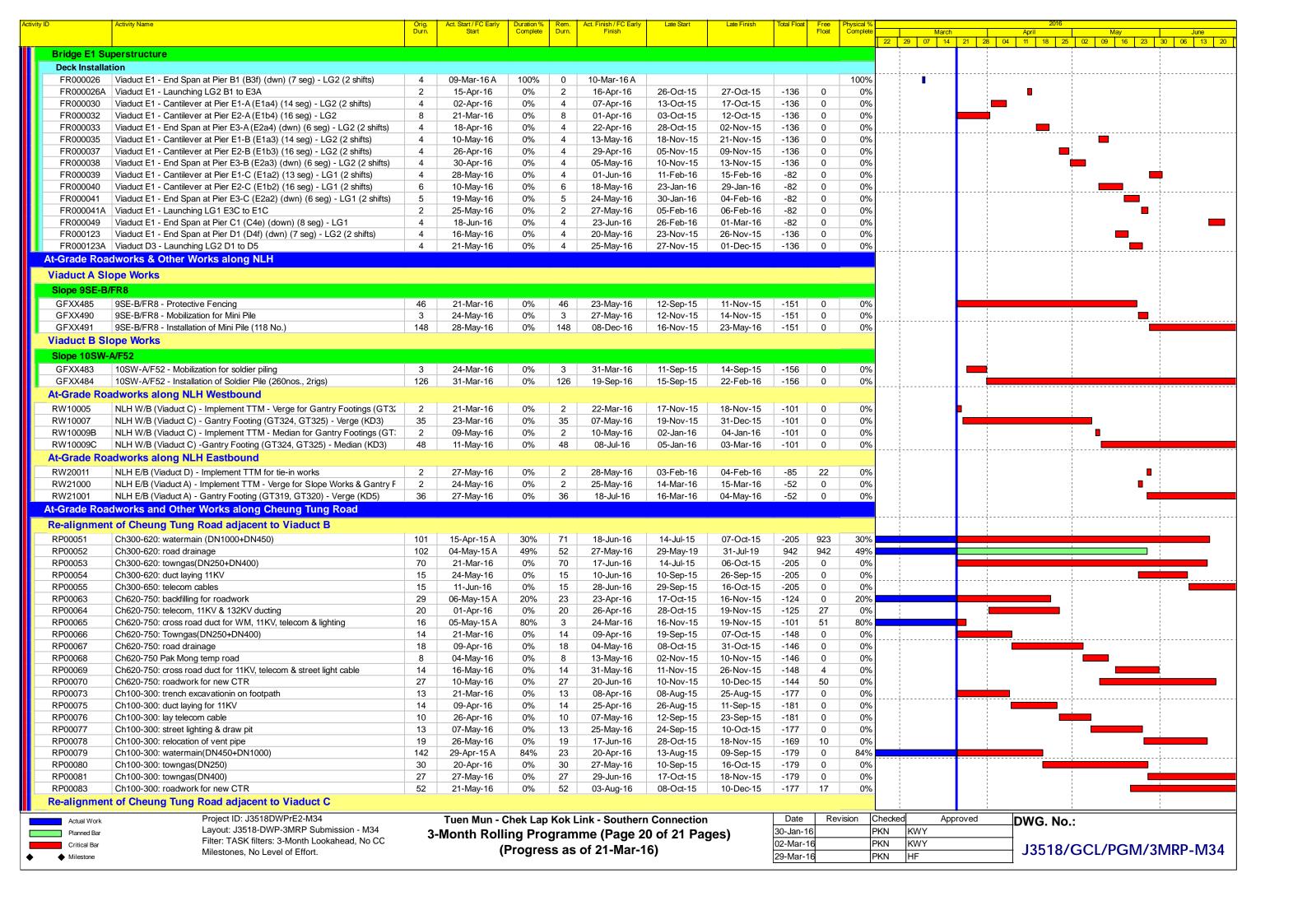


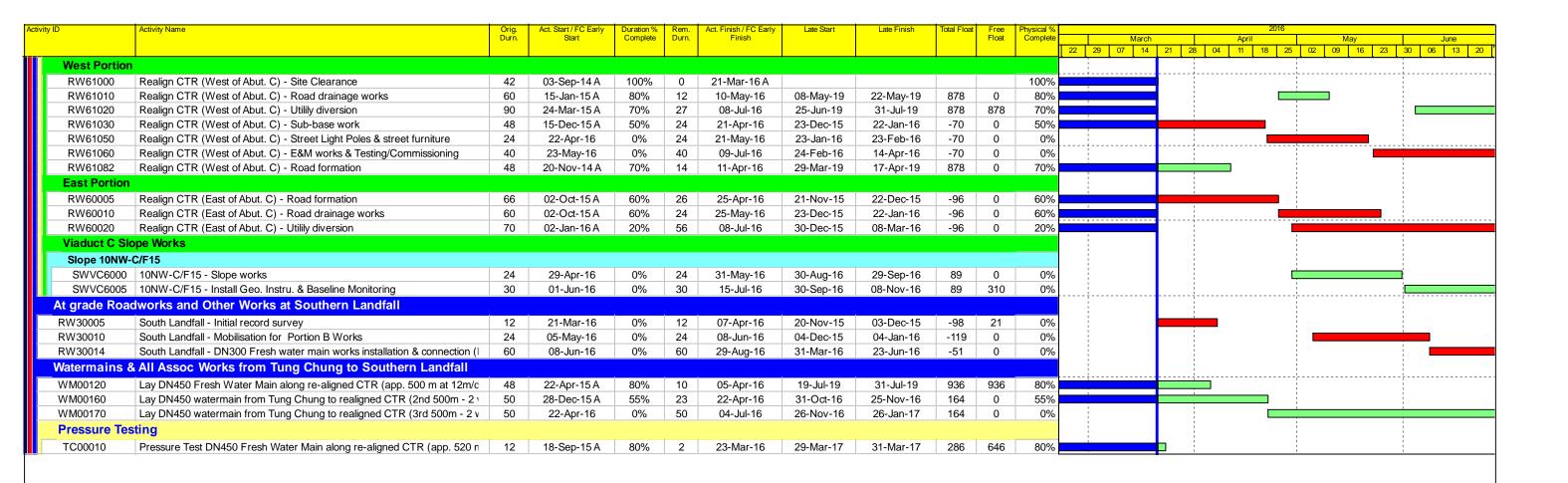












Actual Work
Planned Bar
Critical Bar

Milestone

Project ID: J3518DWPrE2-M34 Layout: J3518-DWP-3MRP Submission - M34 Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort. Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 21 of 21 Pages)
(Progress as of 21-Mar-16)

Date	Revision	Checked	Approved
30-Jan-16		PKN	KWY
02-Mar-16		PKN	KWY
29-Mar-16		PKN	HF

DWG. No.:

J3518/GCL/PGM/3MRP-M34

Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

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

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	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	mplementation Stages		Implementation Stages		-		-		Status
	Reference					D	С	О							
Air Qualit	Y														
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	Environmental Protection Measures	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages				Status
	Reference					D	С	О		
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			<u>i</u>	<u>i</u>	<u>.i.</u>	.4			<u>i</u>	
5.11	Section 4	Noise monitoring	All existing representative sensitive receivers / during North Lantau Viaduct construction	Contractor	EM&A Manual		Y		~	
Water Qua	LITY	ı.	<u>i</u>	<u>i</u>	<u>.i.</u>	.1			<u>i</u>	
General Mar	rine Works									
6.10	-	Bored piling to be undertaken within a metal casing.	Marine viaducts of TM-CLKL and HKLR/ bored piling	Contractor	TM-EIAO		Y		✓	
6.10	-	Barges and hopper dredgers shall have tight fitting seals to their bottom openings to prevent leakage of material.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓	

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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lement Stage:		Status
	Reference					D	С	О	
		proposed at station SR4a In case elevated SS or turbidity is identified during the water quality monitoring, the source of pollution will be tracked down and be removed as soon as possible. In case depletion of dissolved oxygen is identified, artificial aeration will be arranged at the monitoring station SR4a,	staging works						
Land Works									
6.10	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Sewage effluent and discharges from on- site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	All areas/ throughout construction period	Contractor	TM-EIAO		Υ		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		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		Υ		~
6.10	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		<>

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/Timing Implementation Relevant Standar or Requirement		1	-			Status
	Reference					D	С	О	
6.10	-	Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		⇔
6.10	5.8	Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		*
6.10	-	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for offsite disposal.	All areas/ throughout construction period	Contractor	TM-EIAO		Υ		*
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	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	Stages		Implementation Stages		_ :		_		-		_				- :		Stages		Stages		Stages		Status
	Reference					D	С	О																					
6.10	-	All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		~																				
6.10	-	Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓																				
6.10	-	Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals.	Roadside/design and operation	Design Consultant/ Contractor	TM-EIAO	Y		Y	~																				
6.10	Section 5	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout construction period	Contractor	EM&A Manual		Y		✓																				
Water Qual	ity Monitoring	g		•	•																								
6.10	Section 5	Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Nutrients and metal parameters shall also be measured for Mf sediment operations (only HKBCF and HKLR required handling of Mf sediment) during baseline, backfilling and post construction period. One year operation phase water quality monitoring at designated stations	Designated monitoring stations as defined in EM&A Manual, Section 5/ Before, through-out marine construction period, post construction and monthly operational phase water quality monitoring for a year.	Contractor	EM&A Manual		Y	Y	•																				
Ecology																													
8.14	6.3	Specification for and implement pre, during and post construction dolphin abundance monitoring.	All Areas/Detailed Design/ during construction works/post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y	✓																				
8.14	6.3	Specification for bored piling monitoring	Detailed Design	Design Consultant	TMEIA	Y			n/a																				
8.14	6.3	Implement any recommendations of the bored piling monitoring	Southern marine viaduct/Throughout	Contractor	TMEIA		Y		✓																				

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

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lemen Stage		Status
	Reference					D	C	О	
			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	Υ		~

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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Imp	Implementation Stages		Status
	Reference					D	С	О	
10.9	7.6	Recycle/Reuse all felled trees and vegetation, e.g. mulching (CM9)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a No felled trees or vegetation for recycle
10.9	7.6	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006 (CM10).	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Re-vegetation of affected woodland/shrubland with native species (OM1)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be implemented by AFCD/HyD/ L CSD
10.9	7.6	Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities (OM2)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Υ	Υ	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	Υ	Y	n/a. To be implemented by HyD/LCSD

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lemen Stage	tation s	Status
	Reference					D	С	О	•
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be implemented by HyD
Waste					·A	4			
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		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	All areas / throughout construction period	Contractor	TMEIA		Y		✓

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

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

EIA Reference	EM&A Manual	nual erence	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
	Reference					D	С	О	
		 Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Incompatible materials are adequately separated. 							
12.6	8.1	Waste oils, chemicals or solvents shall not be disposed of to drain,	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them.	All areas / throughout construction period	Contractor	TMEIA		Υ		✓
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances Bylaws. 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		Υ		<>
12.6	8.1	All waste containers shall be in a secure area on hard standing;	All areas / throughout construction period	Contractor	TMEIA		Υ		✓
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		Υ		✓
12.6	8.1	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to	Site Offices/ throughout	Contractor	TMEIA		Y		✓

Reference Manual		Environmental Protection Measures	, , , ,		Relevant Standard or Requirement	Implementation Stages			Status
	Reference					D	С	О	
		warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	construction period	1					
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 H	ERITAGE		•				-	-	
11.8	Section 9	EM&A in the form of audit of the mitigation measures	All areas / throughout construction period	Highways Department	EIAO-TM		Y		n/a

Notes:

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

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

Status:

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

Appendix D

Summary of Action and Limit Levels

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

Parameters	Action	Limit
24 Hour TSP Level in μg/m³	ASR9A/ASR8A = 178 ASR9C/ASR8/ASR9 = 178	260
1 Hour TSP Level in $\mu g / m^3$	ASR9A/ASR8A = 394 ASR9C/ASR8/ ASR9 = 393	500

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

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

Table D3 Action and Limit Levels for Water Quality

Parameter	Action Level#	Limit Level#
DO in mg/L (a)	Surface and Middle	Surface and Middle
	5.0 mg/L	4.2 mg/L
	<u>Bottom</u>	<u>Bottom</u>
	4.7 mg/L	3.6 mg/L
Turbidity in NTU (Depthaveraged (b), (c))	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e.,	130% of upstream control station at the same tide of the same day and 99%-ile of baseline data, i.e.,
	27.5 NTU	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	a 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 &	STG < 70% of baseline &			
	ANI < 70% of baseline	ANI < 70% of baseline			
Limit Level	[STG < 40% of baseling	ne & ANI < 40% of baseline]			
		and			
	STG < 40% of baseling	ne & 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 Lanta	u Social Cluster
	NEL	NWL
Action Level	STG < 4.2 & ANI< 15.5	STG < 6.9 & ANI < 31.3
Limit Level	[STG < 2.4	4 & ANI <8.9]
		and
	[STG < 3.9	& ANI <17.9]

Appendix E

Calibration Certificates of Monitoring Equipments

<u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

Location : ASR8(A)
Calibrated by : P.F.Yeung
Date : 30/03/2016

Sampler

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

Calibration Orfice and Standard Calibration Relationship

Serial Number : 2454

 Service Date
 :
 14 Mar 2016

 Slope (m)
 :
 2.10326

 Intercept (b)
 :
 -0.06696

 Correlation Coefficient(r)
 :
 0.99989

Standard Condition

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

Calibration Condition

Pa (hpa) : 1014 Ta(K) : 295

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.2	3.365	1.632	55	55.31
2	13 holes	9.2	3.050	1.482	51	51.28
3	10 holes	7.0	2.660	1.297	45	45.25
4	7 holes	4.6	2.157	1.057	38	38.21
5	5 holes	2.8	1.683	0.832	30	30.17

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):31.363 Intercept(b): 4.528 Correlation Coefficient(r): 0.9991

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

<u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

Location : ASR9
Calibrated by : P.F.Yeung
Date : 30/03/2016

Sampler

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

Calibration Orfice and Standard Calibration Relationship

Serial Number : 2454

 Service Date
 : 14 Mar 2016

 Slope (m)
 : 2.10326

 Intercept (b)
 : -0.06696

 Correlation Coefficient(r)
 : 0.99989

Standard Condition

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

Calibration Condition

Pa (hpa) : 1014 Ta(K) : 295

Resistance Plate		dH [green liquid]	Z	X=Qstd IC		Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.6	3.425	1.660	58	58.32
2	13 holes	9.0	3.017	1.466	51	51.28
3	10 holes	6.8	2.622	1.279	44	44.25
4	7 holes	4.6	2.157	1.057	36	36.20
5	5 holes	2.8	1.683	0.832	26	26.14

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):38.511 Intercept(b):-5.238 Correlation Coefficient(r): 0.9992

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



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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ma	ar 14, 201	Ta (K) -	295			
Operator	Tisch	Pa (mm) -	- 745.49			
PLATE OR Run # 1 2 3 4 5	VOLUME START (m3) NA NA NA NA NA	VOLUME STOP (m3) NA NA NA NA NA	DIFF VOLUME (m3) 1.00 1.00 1.00 1.00	DIFF TIME (min) 1.4020 1.0060 0.9010 0.8590 0.7090	METER DIFF Hg (mm) 3.2 6.4 7.9 8.8 12.8	ORFICE DIFF H2O (in.) 2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9866 0.9824 0.9803 0.9792 0.9738	0.7037 0.9765 1.0880 1.1399 1.3735	1.4078 1.9909 2.2259 2.3345 2.8155		0.9957 0.9914 0.9893 0.9882 0.9828	0.7102 0.9855 1.0980 1.1504 1.3862	0.8896 1.2581 1.4066 1.4753 1.7792
Qstd slop intercept coefficie	(b) = nt (r) =	2.10326 -0.06696 0.99989		Qa slope intercept coefficie	(b) =	1.31703 -0.04232 0.99989
y axis = SQRT[H2O(Pa/760)(298/Ta)]				y axis =	SQRT [H2O (T	 a/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 = $1/m\{[SQRT H2O(Ta/Pa)] - b\}$



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C153241

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC15-1330)

Date of Receipt / 收件日期: 10 June 2015

Description / 儀器名稱

Sound Level Calibrator

Manufacturer/製造商

Rion

Model No. / 型號 Serial No. / 編號

NC-73 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 : $(23 \pm 2)^{\circ}$ 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

14 June 2015

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
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By

測試

Project Engineer

Certified By

核證

Date of Issue 簽發日期

16 June 2015

Engineer

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

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗所

c/o 香港新界屯門興安里一號青山灣機樓四樓 Tel/電話: 2927 2606 Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C153241

證書編號

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

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

3. Test equipment:

Equipment ID CL130 CL281 TST150A <u>Description</u>
Universal Counter
Multifunction Acoustic Calibrator
Measuring Amplifier

Certificate No. C143868 DC130171 C141558

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

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

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.986	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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Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C153940

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC15-1557)

Date of Receipt / 收件日期: 13 July 2015

Description / 儀器名稱

Sound Level Meter

Manufacturer / 製造商

Rion

Model No. / 型號 Serial No. / 編號

NL-31 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 / 温度 :

Relative Humidity / 相對濕度 :

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

22 July 2015

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
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By

測試

H T Wong

Assistant Technical Officer

Certified By

核證

Date of Issue 簽發日期

22 July 2015

Project Engineer

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



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C153940

證書編號

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

- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment:

Equipment ID CL280 CL281

<u>Description</u>
40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

Certificate No. C150014 DC130171

- 5. Test procedure: MA101N.
- 6. Results:
- 6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

	UUT Setting			Applied Value		UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	A	Fast	94.00	1	93.5	± 1.1

6.1.2 Linearity

UUT Setting			Applied Value		UUT	
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
30 - 120	L_{A}	A	Fast	94.00	1	93.5 (Ref.)
				104.00		103.5
				114.00		113.5

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

6.2 Time Weighting

UUT Setting		Applied	Applied Value		IEC 61672 Class 1		
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L_{A}	A	Fast	94.00	1	93.5	Ref.
			Slow			93.5	± 0.3

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Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C153940

證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

11- Weighting		T. C'			. 1 7 7 1	Y TY YOU	TEG (1 (EG G)
	UUT Setting				ied Value	UUT	IEC 61672 Class 1
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Spec. (dB)
30 - 120	L _A	A	Fast	94.00	63 Hz	67.1	-26.2 ± 1.5
					125 Hz	_ 77.3	-16.1 ± 1.5
					250 Hz	84.7	-8.6 ± 1.4
					500 Hz	90.2	-3.2 ± 1.4
					1 kHz	93.5	Ref.
					2 kHz	94.7	$+1.2 \pm 1.6$
					4 kHz	94.6	$+1.0 \pm 1.6$
					8 kHz	92.4	-1.1 (+2.1; -3.1)
					12.5 kHz	89.5	-4.3 (+3.0; -6.0)

6.3.2 C-Weighting

٦,	C- Weighting							
		UU	T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
	Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
	(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
	30 - 120	L_{C}	C	Fast	94.00	63 Hz	92.5	-0.8 ± 1.5
						125 Hz	93.3	-0.2 ± 1.5
						250 Hz ·	93.4	0.0 ± 1.4
						500 Hz	93.5	0.0 ± 1.4
						1 kHz	93.5	Ref.
						2 kHz	93.4	-0.2 ± 1.6
						4 kHz	92.8	-0.8 ± 1.6
						8 kHz	90.5	-3.0 (+2.1; -3.1)
						12.5 kHz	87.7	-6.2 (+3.0; -6.0)

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

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB : 63 Hz - 125 Hz : \pm 0.35 dB

12.5 kHz : \pm 0.70 dB

104 dB : 1 kHz : \pm 0.10 dB (Ref. 94 dB) 114 dB : 1 kHz : \pm 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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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

A-d				A. C.	A 4.	
	****	MINA	***		No.	
1 '.4	11111				1 3 6 9	
┛	1 444	\sim 111 \sim	'AAL	TOTO	1 1 U .	

: ET/0505/014

Manufacturer

: HACH

Model No.

: 21000

Serial No.

: 13110C029448

Date of Calibration

: <u>26/02/2015</u>

Due Date

: 25/05/2016

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	20.4	2.00
100	98.5	-1.50
800	780	-2.50

(*) 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:



	'Form E/CE/L/15/Issue 2 (1/1) [04/1:
Internal Calibration & Performa	nce Check of pH Meter
Equipment Ref. No. : <u>ET/EW007/004</u> Manufact	turer : <u>Thermo Scientific</u>
Model No. : <u>Orion 2 Star</u> Serial No	. : <u>B29792</u>
Date of Calibration : <u>05/03/2016</u> Calibratio	on Due Da:04/04/2016
Liquid Junction Error	222/5 2/222/2 / (2275)
Drimany Standard Salution Head . Dhaonhata	003/5.2/002/01 (20°C)
	. of Primary Solution: 003/5.2/002/02 (25℃)
•	$\Delta pH_{\frac{1}{2}} = \frac{+0.01}{0.00} + \frac{10.01}{0.00}$
pH value of diluted buffer : 6.90 / 6.92	pH (S) = $\frac{6.86}{}$ / $\frac{6.88}{}$
$\Delta pH = pH(S)$ - pH of diluted buffer = 0.04 / 0.04 Liquid Junction Error (ΔpH_i) = $\Delta pH - \Delta pH_{1/4}$ = 0.03 /	(Observed Deviation) 0.03
Liquid Junction Error $(\Delta pH_j) = \Delta pH - \Delta pH_{1/2} = 0.03$ /	0.03
Shift on Stirring	
pH of buffer solution (with stirring), pH _s = 6.90 /	6.04
	6.91
Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_j = 0.01$	0.00
Noise	
Noise, ΔpH_n = difference between max and min reading:	0.01 / 0.01
Verification of ATC	
Ref. No. of reference thermometer used:	ET/0521/019
Temperature record from the reference thermometer (T _R):	25 / 20.0 °C
Temperature record from the ATC (T _{ATC}):	24.8 / 19.8 °C
Temperature Difference, T _R - T _{ATC}	0.2 / 0.2 ° C
Correction	+0.2 / +0.2 ° C
Acceptance Criteria	
Performance Characteristic	Acceptable Range
Liquid Junction Error ΔpHj	≤0.05
Shift on Stirring ΔpHs	≤0.02
Noise ΔpHn	≤0.02
Verifcation of ATC Temperature Difference	≤0.5°C
The pH meter complies * /-does-not-comply-* with the specif	find requirements and is deemed
acceptable * / unacceptable * for use. Measurements are tra	
* Delete as appropriate	นออนมอ เอ กินแอกิน วิเนกินสิเนิง.
/	<i>a</i> /
Calibrated by: Che	ecked by:
-	



'Form E/CE/L/15/Issue 2 (1/1) [04/15]

Internal Calibration	8.	Performance	Check	of	рΗ	Meter
-----------------------------	----	-------------	-------	----	----	-------

Equipment Ref. No. : ET/EW007/004 Manufacturer : Thermo Scientific

Model No. : Orion 2 Star Serial No. : B29792

Date of Calibration : 05/04/2016 Calibration Due Da: 04/05/2016

Liquid Junction Error

003/5.2/002/01 (20°C)

Primary Standard Solution Used: Phosphate Io. of Primary Solution: 003/5.2/002/02 (25°C)

Temperature of Solution : 25.0 / 20.0 $\Delta pH_{\frac{1}{2}} = +0.01 / +0.01$ pH value of diluted buffer : 6.91 / 6.92 pH (S) = 6.86 / 6.88

 $\Delta pH = pH(S) - pH$ of diluted buffer = 0.05 / 0.04 (Observed Deviation)

Liquid Junction Error (ΔpH_1) = $\Delta pH - \Delta pH_{\frac{1}{2}} = 0.04$ / 0.03

Shift on Stirring

pH of buffer solution (with stirring), pH_s = $\frac{6.90}{1000}$ / $\frac{6.91}{1000}$ Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_s = \frac{6.90}{1000}$ / $\frac{6.91}{1000}$

Noise

Noise, ΔpH_n = difference between max and min reading : 0.01 / 0.01

Verification of ATC

Ref. No. of reference thermometer used: ET/0521/019

Temperature record from the reference thermometer (T_R): 25 / 20.0 °C

Temperature record from the ATC (T_{ATC}): 24.8 / 19.8 ° C

Temperature Difference, | T_R - T_{ATC} | 0.2 / 0.2 ° C

Correction +0.2 / +0.2 ° C

Acceptance Criteria

Performa	Acceptable Range	
Liquid Junction Error	∆рНj	≤0.05
Shift on Stirring	ΔpHs	≤0.02
Noise	ΔpHn	≤0.02
Verifcation of ATC	Temperature Difference	≤0.5°C

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

* Delete as appropriate

Calibrated by:

Checked by :



Manufacturer YSI : ET/EW/008/004 Equipment Ref. No.

Serial No. 10F 101978 Pro 2030 Model No.

39/01/2016 25 /y Calibration Due Date **29**704/2016 Date of Calibration

Temperature Verification

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

Ref. No. of Water Bath:

		Ter	nperature (°C)	
Reference Thermometer reading	Measured	19.9	Corrected	19.8
DO Meter reading	Measured	20.0	Difference	-0.2

Standardization of sodium thiosulphate (Na 2S 2O 3) solution

Reagent No. of Na ₂ S ₂ O ₃ titrant	CPE/012/4.5/001/13	Reagent No. of 0.025N K ₂ Cr ₂ O ₇	CPE/012/4.4/002/06
		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	20.50
Vol. of Na ₂ S ₂ O ₃ used (ml)		10.20	10.30
Normality of Na ₂ S ₂ O ₃ solution (N)		0.02451	0.02427
Average Normality (N) of Na ₂ S ₂ O ₃ s	solution (N)	0.02439	
Acceptance criteria, Deviation		Less than ± 0.	.001N

Calculation:

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

Lineality Checking

Determination of dissolved oxygen content by Winkler Titration *

Purging Time (min)		2		5	1	.0
Trial	1	2	1	2	1	2
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	11.10	22.00	0.00	6.90	10.40
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.10	22.00	28.80	6.90	10.40	14.20
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	11.10	10.90	6.80	6.90	3.50	3.80
Dissolved Oxygen (DO), mg/L	7.27	7.14	4.45	4.52	2.29	2.49
Acceptance criteria, Deviation	Less that	n + 0.3mg/L	Less than	+ 0.3mg/L	Less than	+ 0.3mg/L

Calculation:

DO $(mg/L) = V \times N \times 8000/298$

D in time	DO t	neter reading	g, mg/L	Winkler	Titration res	ult *, mg/L	Difference (%) of DO
Purging time, min	1	2	Average	1	2	Average	Content
2	7.48	7.55	7.52	7.27	7.14	7.21	4.21
5	4.44	4.31	4.38	4.45	4.52	4.49	2.48
10	2.25	2.31	2.28	2.29	2.49	2.39	4.71
Linea	r regression	coefficient				0.9984	



Zoro	Point	Checking	o
zero	rom	CHECKIN	ς.

DO meter reading, mg/L	0.00

Salinity Checking

	1		
Reagent No. of NaCl (10ppt)	CPE/012/4.7/003/14	Reagent No. of NaCl (30ppt)	CPE/012/4.8/003/14
reagener to the transfer of th			

Determination of dissolved oxygen content by Winkler Titration **

Salinity (ppt)	10		30		
Trial	1	2	1	2	
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	11.40	22.80	32.50	
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.40	22.80	32.50	42.10	
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	11.40	11.40	9.70	9.60	
Dissolved Oxygen (DO), mg/L	7.46	7.46	6.35	6.29	
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less that	n + 0.3mg/L	

Calculation:

DO $(mg/L) = V \times N \times 8000/298$

	DO	meter reading	g, mg/L	Winkler	Titration resu	ılt**, mg/L	Difference (%) of DO
Salinity (ppt)	1	2	Average	1	2	Average	Content
10	7.28	7.25	7.27	7.46	7.46	7.46	2.58
30	6.58	6.54	6.56	6.35	6.29	6.32	3.73

Acceptance Criteria

- (1) Differenc between temperature readings from temperature sensor of DO probe and reference thermometer : $< 0.5~^{\circ}\mathrm{C}$
- (2) Linear regression coefficient: >0.99
- (3) Zero checking: 0.0mg/L
- (4) Difference (%) of DO content from the meter reading and by winkler titration : within \pm 5%

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

" Delete as appropriate

Calibrated by	:	Approved by:	of the second



Performan	nce Check of	f Salinity Meter
Equipment Ref. No. : <u>ET/EW</u>	7/008/004	Manufacturer : YSI
Model No. : Pro 202	30	Serial No. : <u>10F 101978</u>
Date of Calibration : $\frac{30/01/2}{2}$	2016	Due Date : 29/04/2016
Ref. No. of Salinity Stand	lard used (30ppt)	S/001/5
Salinity Standard (ppt)	Measured Salinit	Difference * (%)
30.0	29.7	-3.00
(*) Difference (%) = (Measured	Salinity – Salinity Sta	andard value) / Salinity Standard value x 100
Acceptance Criteria	Difference : -10 %	o to 10 %
The salinity meter complies and is deemed acceptable * national standards.	s * / does not comp / unacceptable * f	ly * with the specified requirements or use. Measurements are traceable to
Checked by :	Ap	proved by:



Equipment Ref. No.

ET/EW/008/004

Manufacturer

YSI

Model No.

Pro 2030

Serial No.

10F 101978

Date of Calibration

26/04/2016

Calibration Due Date

25/07/2016

Temperature Verification

Ref. No. of Reference Thermometer:

ET/0521/017

Ref. No. of Water Bath:

	Temperature (°C)					
Reference Thermometer reading	Measured	19.9	Corrected	19.8		
DO Meter reading	Measured	20.0	Difference	-0.2		

Standardization of sodium thiosulphate (Na 2 S 2 O 3) solution

Reagent No. of Na ₂ S ₂ O ₃ titrant	CPE/012/4.5/001/13	Reagent No. of 0.025N K ₂ Cr ₂ O ₇	CPE/012/4.4/002/09	
		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	20.40	
Vol. of Na ₂ S ₂ O ₃ used (ml)		10.20	10.20	
Normality of Na ₂ S ₂ O ₃ solution (N)		0.02451	0.02451	
Average Normality (N) of Na ₂ S ₂ O ₃ s	olution (N)	0.02451		
Acceptance criteria, Deviation		Less than ± 0.001N		

Calculation:

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

Lineality Checking

Determination of dissolved oxygen content by Winkler Titration *

Purging Time (min)	2			5		10	
Trial	1	2	1	2	1	2	
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	10.90	21.90	0.00	6.80	10.50	
Final Vol. of Na ₂ S ₂ O ₃ (ml)	10.90	21.90	28.50	6.80	10.50	14.10	
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	10.90	11.00	6.60	6.80	3.70	3.60	
Dissolved Oxygen (DO), mg/L	7.17	7.24	4.34	4.47	2.43	2.37	
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than	+ 0.3mg/L	Less than	+ 0.3mg/L	

Calculation:

DO (mg/L) = $V \times N \times 8000/298$

Purging time, min	DO meter reading, mg/L			Winkler Titration result *, mg/L			Difference (%) of DO
i dignig time, iimi	1	2	Average	1	2	Average	Content
2	7.42	7.34	7.38	7.17	7.24	7.21	2.33
5	4.56	4.59	4.58	4.34	4.47	4.41	3.78
10	2.35	2.22	2.29	2.43	2.37	2.40	4.69
Linear regression coefficient					0.9986		



Zero	Point	Checking
------	-------	----------

DO meter reading, mg/L	0.00

Salinity Checking

			,
1			
Daggart No. of NoCl (10mmt)	CDE/012/4 7/002/14	D NI CNI-CL (20	CDP:/010/4.0/002/14
Reagent No. of NaCl (10ppt)	CPE/012/4.7/003/14	Reagent No. of NaCl (30ppt)	CPE/012/4.8/003/14
		the contract of the contract o	

Determination of dissolved oxygen content by Winkler Titration **

Salinity (ppt)	10		30		
Trial	1	2	1	2	
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	11.30	22.70	32.30	
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.30	22.70	32.30	41.90	
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	11.30	11.40	9.60	9.60	
Dissolved Oxygen (DO), mg/L	7.44	7.50	6.32	6.32	
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than	n + 0.3mg/L	

Calculation:

DO (mg/L) = $V \times N \times 8000/298$

Salinity (ppt)	DO meter reading, mg/L			Winkler Titration result**, mg/L			Difference (%) of DO
, , , , , , , , , , , , , , , , , , ,	1	2	Average	1	2	Average	Content
10	7.18	7.25	7.22	7.44	7.50	7.47	3.40
30	6.58	6.54	6.56	6.32	6.32	6.32	3.73

Acceptance Criteria

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

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

" Delete as appropriate

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Calibrated by	:	Approved by :	or and the second secon

CEP/012/W



Performa	nce Check o	f Salinity Meter
Equipment Ref. No. : ET/E	W/008/004	Manufacturer : <u>YSI</u>
Model No. : Pro 20)30	Serial No. : <u>10F 101978</u>
Date of Calibration : 26/04	/2016	Due Date : <u>25/07/2016</u>
Ref. No. of Salinity Stan	dard used (30ppt)	S/001/5
Salinity Standard (ppt)	Measured Salinit (ppt)	Difference * (%)
30.0	29.4	-2.00
(*) Difference (%) = (Measured	Salinity – Salinity Sta	ndard value) / Salinity Standard value x 100
Acceptance Criteria	Difference : -10 %	to 10 %
The salinity meter complies and is deemed acceptable * national standards.	s * / does not compl / unacceptable -* fo	y * with the specified requirements ruse. Measurements are traceable to
Checked by:	Appı	roved by:

ENVIROTECH SERVICES CO.

Calibration Report of Wind Meter

Date of Calibration :	28 January 2016
Brand of Test Meter:	Global Water
Model:	Speed Sensor: WE550 (S/N:E1337005099)
	Direction Senor: WE570 (S/N:153500564)
Location:	Pak Mong, Siu Ho Wan
Procedures:	
1. Wind Still Test:	The wind speed sensor was hold by hand until it keep still
2. Wind Speed Test:	The wind meter was on-site calibrated against the Anemometer
3.Wind Direction Test :	The wind meter was on-site calibrated against the marine compass at four directions
Results:	

Wind Still Test

	Wind Speed	(m/s)	
I	0.00		

Wind Speed Test

Global Water (m/s)	Anemometer (m/s)
0.27	0.2
1.18	1.3
1.46	1.6

Wind Direction Test

Global Water (o)	Marine Compass (o)
270.88	270
0.07	0
90.81	90
181.39	180

Calibrated by: Fai Checked by: Ho Kam Fat

(Technical Officer) (Senior Technical Officer)



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C160461

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC16-0158)

Date of Receipt / 收件日期: 19 January 2016

Description / 儀器名稱

Anemometer

Manufacturer / 製造商

Lutron

Model No. / 型號

AM-4201

Serial No./編號

AF.27513

Supplied By / 委託者 : Envirotech Services Co.

Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,

New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (2

 $(23 \pm 2)^{\circ}$ 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

27 January 2016

TEST RESULTS / 測試結果

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

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

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

- Testo Industrial Services GmbH, Germany

Tested By

測試

M T Leung

Assistant Technical Officer

Certified By

核證

Ihm Ch

H C Chan Engineer Date of Issue

27 January 2016

簽發日期

Cnan ***

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
本證書所載校正用之測試器材均可溯源至國際標準。 局部複印本證書需先獲本實驗所書面批准。



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C160461

證書編號

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

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

3. Test equipment:

> Equipment ID CL386

Description

Certificate No.

Multi-function Measuring Instrument S12109

4. Test procedure: MA130N.

5. Results:

Air Velocity

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

Remarks: - The Measured Corrections are defined as:

Value = Applied Value - UUT Reading

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

Note:

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

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

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

Appendix F

EM&A Monitoring Schedules

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

Alternative Noise Monitoring at Pak Mong Village Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					01-Apr	
03-Apr	04-Apr	05-Apr	06-Apr	07-Apr	08-Apr	09-Ap
03-Арг	04-Арг	Noise Impact	06-Арг	07-Apr	υδ-Αρι	U9-Ap
		Monitoring				
		INIOTHIOTHIG				
10-Apr		12-Apr	13-Apr		15-Apr	16-Ap
	Noise Impact			Noise Impact		
	Monitoring			Monitoring		
47 Apr	10 Apr	10 Apr	20 Apr	24 Apr	22 Apr	22. An
17-Apr	18-Apr				22-Apr	23-Ap
			Noise Impact Monitoring			
24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Ap
·	·	Noise Impact	·	·	Noise Impact	
		Monitoring			Monitoring	

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

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					01-Apr	02-Apr
03-Apr	04-Apr	05-Apr	06-Apr	07-Apr	08-Apr	09-Apr
	· · ·	1-hr TSP Monitoring		-		
		24-hr TSP Monitoring				
40.4	44.0	40.4	40.4	4.4.0	45.0	40.4
10-Apr		12-Apr	13-Apr		15-Apr	16-Apr
	1-hr TSP Monitoring			1-hr TSP Monitoring		
	24-hr TSP Monitoring			24-hr TSP Monitoring		
17-Apr	18-Apr	19-Apr		21-Apr	22-Apr	23-Apr
			1-hr TSP Monitoring			
			24-hr TSP Monitoring			
24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr
Z+ Api	20 Αρί	1-hr TSP Monitoring	21 //pi	20 Αρι	1-hr TSP Monitoring	OU Apr
		24-hr TSP Monitoring			24-hr TSP Monitoring	

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

Alternative Noise Monitoring at Pak Mong Village Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-May	02-May	03-May	04-May	05-May	06-May	07-May
				Noise Impact		
				Monitoring		
08-May	09-May				13-May	14-May
			Noise Impact Monitoring			
15-May	16-May		18-May	19-May	20-May	21-May
		Noise Impact				
		Monitoring				
20.14	20.14	04.14	05.14	00.14	07.14	20.14
22-May		24-May	25-May			28-May
	Noise Impact				Noise Impact	
	Monitoring				Monitoring	
00.14	00.14	04.14				
29-May	30-May	31-May				

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 Air Quality Monitoring Schedule (1 to 31 May 2016)

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

Sunday 01-May	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
O I Way	02-May	03-May	04-May		06-May	07-Ma
		·	·	1-hr TSP Monitoring		
				24-hr TSP Monitoring		
08-May	09-May	10-May	11-May	12-May	13-May	14-Ma
Š		į.	1-hr TSP Monitoring	•		
			24-hr TSP Monitoring			
			-			
15 Mov	16 May	17 Mov	10 Mov	40 May	20 May	24 Ma
15-May	16-May	17-May	18-May	19-May	20-May	21-Ma
		I-hr TSP Monitoring 24-hr TSP Monitoring				
	2	24-III TOP Monitoring				
22-May	23-May	24-May	25-May	26-May	·	28-Ma
	hr TSP Monitoring				1-hr TSP Monitoring	
24	4-hr TSP Monitoring				24-hr TSP Monitoring	
20 May	20 May	24 Mov				
29-May	30-May	31-May				

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

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
					01-Apr	WQM	02-Apr
						Mid-Ebb	
						9:27	
						(08:00 - 11:00)	
						Mid-Flood	
						14:04	
						(12:19 - 15:49)	
03-Apr	04-Apr	05-Apr	06-Apr	07-Apr	08-Apr	(12110 10110)	09-Apr
•		WQM	•	WQM	·	WQM	•
		Mid-Ebb		Mid-Ebb		Mid-Flood	
		11:44		12:58		7:55	
		(09:59 - 13:29)		(11:13 - 14:43)		(06:10 - 09:40)	
		Mid-Flood		Mid-Flood		Mid-Ebb	
		17:22		19:07		14:20	
		(15:37 - 19:07)		(17:22 - 20:52)		(12:35 - 16:05)	
10-Apr	11-Apr		13-Apr	14-Apr	15-Apr		16-Apr
		WQM		WQM		WQM	
		Mid-Flood		Mid-Flood		Mid-Ebb 10:03	
		9:46 (08:01 - 11:31)		11:31 (09:46 - 13:16)		(08:18 - 11:48)	
		(08.01 - 11.31) Mid-Ebb		(09.46 - 13.16) Mid-Ebb		Mid-Flood	
		16:44		18:55		15:06	
		(14:59 - 18:29)		(17:10 - 20:40)		(13:21 - 16:51)	
17-Apr	18-Apr		20-Apr	21-Apr	22-Apr		23-Apr
17.74		WQM	207.01	WQM	22 / 101	WQM	20 7 (p.
		Mid-Ebb		Mid-Ebb		Mid-Flood	
		11:50		12:45		7:50	
		(10:05 - 13:35)		(11:00 - 14:30)		(06:05 - 09:35)	
		Mid-Flood		Mid-Flood		Mid-Ebb	
		17:47		19:06		13:43	
		(16:02 - 19:32)		(17:21 - 20:51)		(11:58 - 15:28)	
24-Apr	25-Apr		27-Apr		29-Apr		30-Apr
		WQM		WQM		WQM	
		Mid-Flood		Mid-Flood		Mid-Flood	
		8:41		9:47		11:49	
		(06:56 - 10:26) Mid-Ebb		(08:02 - 11:32) Mid-Ebb		(10:04 - 13:34) Mid-Ebb	
		MIG-EDD 15:21		16:50		18:53	
				(15:05 - 18:35)		(17:08 - 20:38)	
		(13:36 - 17:06)		[(10.05 - 16.35)	<u> </u>	(17.00 - 20:38)	

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturda	
01-May	02-May	03-May	04-May		-May 06-May		07-May
		WQM		WQM		WQM	
		Mid-Ebb		Mid-Ebb		Mid-Ebb	
		10:37		11:56		13:20	
		(08:52 - 12:22)		(10:11 - 13:41)		(11:35 - 15:05)	
		Mid-Flood		Mid-Flood		Mid-Flood	
		16:11		18:07		20:01	
00.14	20.14	(14:26 - 17:56)	44.14	(16:22 - 19:52)	10.14	(18:16 - 21:46)	44.14
08-May	09-May	10-May WQM	11-May	WQM	-May 13-May	WQM	14-May
		Mid-Flood					
		8:41		Mid-Flood 10:08		Mid-Flood 12:51	
		(06:56 - 10:26)		(08:23 - 11:53)		(11:06 - 14:36)	
		(06.56 - 10.26) Mid-Ebb		(06.23 - 11.53) Mid-Ebb		(11.06 - 14.36) Mid-Ebb	
		15:37		17:18		19:35	
		(13:52 - 17:22)		(15:33 - 19:03)		(17:50 - 21:20)	
15-May	16-May	(13.52 - 17.22) 17-May	18-May		-May 20-May		21-May
13-iviay	10-iviay	WQM	10-iviay	WQM	-May 20-May	WQM	21-iviay
		Mid-Ebb		Mid-Ebb		Mid-Ebb	
		10:46		11:50		12:51	
		(09:01 - 12:31)		(10:05 - 13:35)		(11:06 - 14:36)	
		Mid-Flood		Mid-Flood		Mid-Flood	
		16:42		18:15		19:36	
		(14:57 - 18:27)		(16:30 - 20:00)		(17:51 - 21:21)	
22-May	23-May	24-May	25-May		-May 27-May		28-May
		WQM		WQM		WQM	
		Mid-Flood		Mid-Flood		Mid-Flood	
		7:44		8:54		10:27	
		(05:59 - 09:29)		(07:09 - 10:39)		(08:42 - 12:12)	
		Mid-Ebb		Mid-Ebb		Mid-Ebb	
		14:29		15:47		17:24	
		(12:44 - 16:14)		(14:02 - 17:32)		(15:39 - 19:09)	
29-May	30-May	31-May	01-Jun		2-Jun 03-Jur		04-Jun
		WQM		WQM		WQM	
		Mid-Ebb		Mid-Ebb		Mid-Ebb	
		9:15		10:51		12:21	
		(07:30 - 11:00)		(09:06 - 12:36)		(10:36 - 14:06)	
		Mid-Flood		Mid-Flood		Mid-Flood	
		14:43		17:02		19:06	
		(12:58 - 16:28)		(15:17 - 18:47)		(17:21 - 20:51)	

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					01-Apr	02-Apr
03-Apr	04-Apr	05-Apr	06-Apr	07-Apr	08-Apr	09-Apr
•	•	Impact Dolphin		•	·	•
		Monitoring				
10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr
107451	1174	Impact Dolphin	107451	1174	Impact Dolphin	107451
		Monitoring			Monitoring	
		Ŭ				
17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr
11 Αρι	10 Αρι	Impact Dolphin	20 Αρι	21 Αρι	ΖΖ Αρι	20 Αρι
		Monitoring				
24.4	05.4	00.4	07.4	00.4	22.4	00.4
24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-May	02-May	03-May	04-May	05-May	06-May	07-May
		Impact Dolphin				
		Monitoring				
08-May	09-May	10-May	11-May	12-May	13-May	14-May
		Impact Dolphin	j	j	Í	j
		Monitoring				
15-May	16-May	17-May	18-May	19-May	20-May	21-May
	Impact Dolphin	.,,		, and the same of		,
	Monitoring					
22-May	23-May	24-May	25-May	26-May	27-May	28-May
	Impact Dolphin	Z+ May	20 May	20 May	27 May	20 May
	Monitoring					
00.14	00.14	04.14				
29-May	30-May	31-May				

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)
_	HY/2012/07		ASR8A	9:00	1-hr TSP	224	, .c <u>2010</u> , (49/1110)	
	HY/2012/07		ASR8A	10:02	1-hr TSP	200		
	HY/2012/07		ASR8A	11:04	1-hr TSP	187		
TMCLKL	HY/2012/07	2016-04-11	ASR8A	8:42	1-hr TSP	111	-	
TMCLKL	HY/2012/07	2016-04-11	ASR8A	9:44	1-hr TSP	122		
TMCLKL	HY/2012/07	2016-04-11	ASR8A	10:46	1-hr TSP	79		
TMCLKL	HY/2012/07	2016-04-14	ASR8A	8:40	1-hr TSP	58		
TMCLKL	HY/2012/07	2016-04-14	ASR8A	9:42	1-hr TSP	63	1	500
TMCLKL	HY/2012/07	2016-04-14	ASR8A	10:44	1-hr TSP	67	394	
TMCLKL	HY/2012/07	2016-04-20	ASR8A	8:24	1-hr TSP	124	394	
TMCLKL	HY/2012/07	2016-04-20	ASR8A	9:26	1-hr TSP	123		
TMCLKL	HY/2012/07	2016-04-20	ASR8A	10:28	1-hr TSP	86		
TMCLKL	HY/2012/07	2016-04-26	ASR8A	8:10	1-hr TSP	60		
TMCLKL	HY/2012/07	2016-04-26	ASR8A	9:12	1-hr TSP	69		
TMCLKL	HY/2012/07	2016-04-26	ASR8A	10:14	1-hr TSP	53		
TMCLKL	HY/2012/07	2016-04-29	ASR8A	8:20	1-hr TSP	44		
TMCLKL	HY/2012/07	2016-04-29	ASR8A	9:22	1-hr TSP	65		
TMCLKL	HY/2012/07	2016-04-29	ASR8A	10:24	1-hr TSP	73		
					Average	100		
					Min.	44		

Max.

224

62

129

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

1-nour 18	SP Monitoring							
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	2016-04-05	ASR9	9:10	1-hr TSP	117		
TMCLKL	HY/2012/07	2016-04-05	ASR9	10:12	1-hr TSP	72		
TMCLKL	HY/2012/07	2016-04-05	ASR9	11:14	1-hr TSP	80		
TMCLKL	HY/2012/07	2016-04-11	ASR9	8:52	1-hr TSP	87		
TMCLKL	HY/2012/07	2016-04-11	ASR9	9:54	1-hr TSP	62		
TMCLKL	HY/2012/07	2016-04-11	ASR9	10:56	1-hr TSP	72		
TMCLKL	HY/2012/07	2016-04-14	ASR9	8:50	1-hr TSP	70		
TMCLKL	HY/2012/07	2016-04-14	ASR9	9:52	1-hr TSP	114	393	500
TMCLKL	HY/2012/07	2016-04-14	ASR9	10:54	1-hr TSP	66		
TMCLKL	HY/2012/07	2016-04-20	ASR9	8:35	1-hr TSP	79	393	
TMCLKL	HY/2012/07	2016-04-20	ASR9	9:37	1-hr TSP	91		
TMCLKL	HY/2012/07	2016-04-20	ASR9	10:39	1-hr TSP	91		
TMCLKL	HY/2012/07	2016-04-26	ASR9	8:20	1-hr TSP	119		
TMCLKL	HY/2012/07	2016-04-26	ASR9	9:22	1-hr TSP	65		
TMCLKL	HY/2012/07	2016-04-26	ASR9	10:24	1-hr TSP	77		
TMCLKL	HY/2012/07	2016-04-29	ASR9	8:30	1-hr TSP	129		
TMCLKL	HY/2012/07	2016-04-29	ASR9	9:32	1-hr TSP	99		
TMCLKL	HY/2012/07	2016-04-29	ASR9	10:34	1-hr TSP	65		
					Average	86		

Min.

Max.

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	2016-04-05	ASR8A	12:06	24-hr TSP	81		
TMCLKL	HY/2012/07	2016-04-11	ASR8A	11:48	24-hr TSP	49		
TMCLKL	HY/2012/07	2016-04-14	ASR8A	11:46	24-hr TSP	43	178	260
TMCLKL	HY/2012/07	2016-04-20	ASR8A	11:30	24-hr TSP	61	170	
TMCLKL	HY/2012/07	2016-04-26	ASR8A	11:16	24-hr TSP	48		
TMCLKL	HY/2012/07	2016-04-29	ASR8A	11:26	24-hr TSP	57		
-					Average	57		
					Min.	43		
					Max.	81		

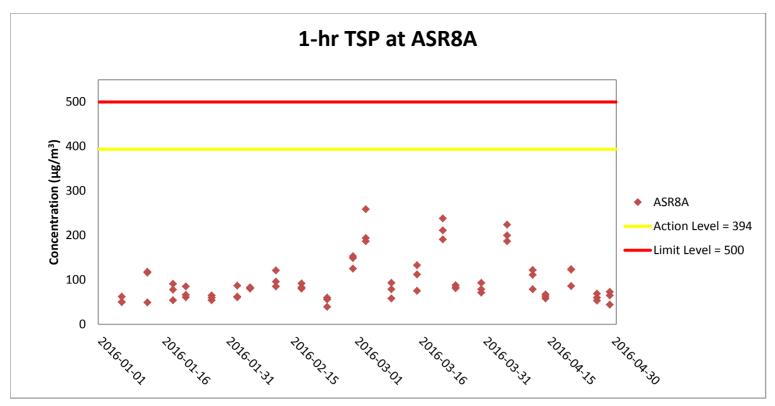
24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR9

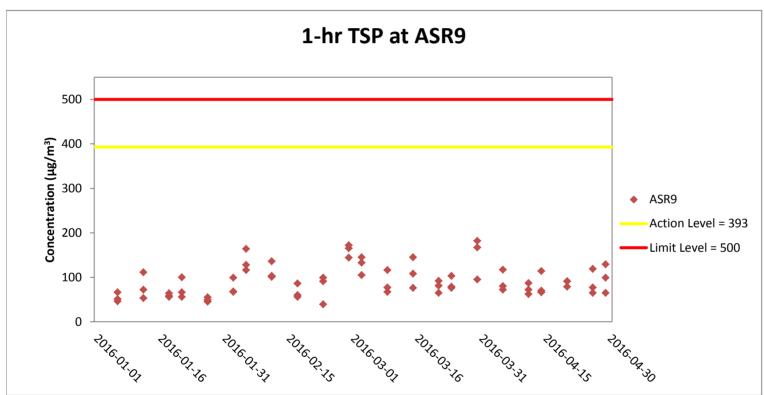
Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2016-04-05	ASR9	12:16	24-hr TSP	62	· · · · · · · · · · · · · · · · · · ·	,
TMCLKL	HY/2012/07	2016-04-11	ASR9	11:58	24-hr TSP	52		260
TMCLKL	HY/2012/07	2016-04-14	ASR9	11:56	24-hr TSP	51	178	
TMCLKL	HY/2012/07	2016-04-20	ASR9	11:41	24-hr TSP	60	170	
TMCLKL	HY/2012/07	2016-04-26	ASR9	11:26	24-hr TSP	53		
TMCLKL	HY/2012/07	2016-04-29	ASR9	11:36	24-hr TSP	73		
					Avorago	50		

Average 59
Min. 51
Max. 73

Action Level Exceedance

Limit Level Exceedance

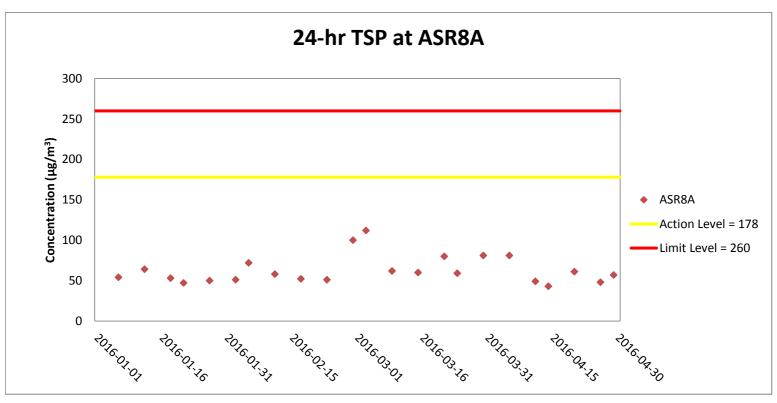


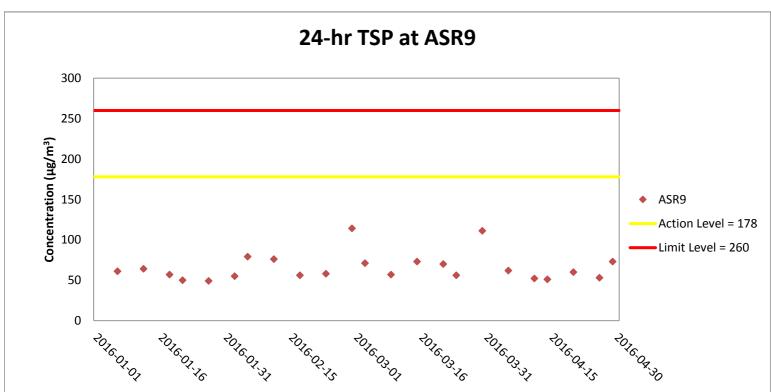


Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Pier construction; Re-alignment of Cheung Tung Road; Construction of land section of berth at Southern Landfall; Installation of pier head and deck segments; and Slope work of Viaducts A, B & C.

Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.





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

Major construction works undertaken within the reporting period include Pier construction; Re-alignment of Cheung Tung Road; Construction of land section of berth at Southern Landfall; Installation of pier head and deck segments; and Slope work of Viaducts A, B & C. Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.

Appendix H

Meteorological Data for the Reporting Month

Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
05-04-2016	7	1.0	165
05-04-2016	8	0.9	186
05-04-2016	9	1.1	176
05-04-2016	10	2.7	182
05-04-2016	11	2.1	189
05-04-2016	12	2.0	170
05-04-2016	13	1.7	183
05-04-2016	14	1.9	183
05-04-2016	15	1.4	163
05-04-2016	16	1.4	165
05-04-2016	17	1.1	186
05-04-2016	18	0.6	185
05-04-2016	19	2.3	188
05-04-2016	20	1.8	175
05-04-2016	21	2.4	176
05-04-2016	22	2.1	182
05-04-2016	23	0.9	176
06-04-2016	0	0.1	177
06-04-2016	1	0.2	165
06-04-2016	2	0.5	180
06-04-2016	3	2.4	171
06-04-2016	4	2.3	160
06-04-2016	5	1.8	165
06-04-2016	6	3.0	156
06-04-2016	7	2.1	
	8	1.4	145 138
06-04-2016	9	1.4	126
06-04-2016			
06-04-2016	10	1.5	141
06-04-2016	11	1.1	151
06-04-2016	12	0.4	140
11-04-2016	7	0.1	211
11-04-2016	8	0.0	211
11-04-2016	9	1.7	203
11-04-2016	10	3.3	157
11-04-2016	11	2.9	146
11-04-2016	12	3.4	146
11-04-2016	13	4.0	159
11-04-2016	14	1.6	128
11-04-2016	15	2.4	181
11-04-2016	16	4.4	140
11-04-2016	17	5.3	151
11-04-2016	18	3.1	145
11-04-2016	19	2.6	152
11-04-2016	20	4.7	166
11-04-2016	21	5.1	150
11-04-2016	22	4.6	153
11-04-2016	23	5.0	152
12-04-2016	0	4.6	147
12-04-2016	1	3.0	150
12-04-2016	2	0.9	142

Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
12-04-2016	3	1.4	155
12-04-2016	4	4.7	154
12-04-2016	5	6.8	152
12-04-2016	6	2.6	148
12-04-2016	7	3.6	156
12-04-2016	8	3.8	158
12-04-2016	9	3.6	147
12-04-2016	10	3.3	159
12-04-2016	11	4.3	155
12-04-2016	12	3.7	160
14-04-2016	7	2.8	156
14-04-2016	8	1.5	149
14-04-2016	9	0.6	121
14-04-2016	10	3.4	140
14-04-2016	11	1.6	161
14-04-2016	12	0.4	204
14-04-2016	13	1.3	176
14-04-2016	14	1.3	155
14-04-2016	15	3.1	145
14-04-2016	16	2.4	138
14-04-2016	17	1.7	139
14-04-2016	18	1.7	131
	19	1.7	137
14-04-2016			
14-04-2016	20	2.0	148
14-04-2016	21	1.8	166
14-04-2016	22	1.0	151
14-04-2016	23	0.7	148
15-04-2016	0	0.2	115
15-04-2016	1	0.0	133
15-04-2016	2	0.2	118
15-04-2016	3	0.7	114
15-04-2016	4	0.6	150
15-04-2016	5	0.4	119
15-04-2016	6	0.2	92
15-04-2016	7	0.1	106
15-04-2016	8	0.0	119
15-04-2016	9	0.0	204
15-04-2016	10	1.8	131
15-04-2016	11	3.1	153
15-04-2016	12	2.4	171
20-04-2016	7	1.7	148
20-04-2016	8	3.1	158
20-04-2016	9	4.4	180
20-04-2016	10	4.3	168
20-04-2016	11	4.5	169
20-04-2016	12	3.0	164
20-04-2016	13	3.0	176
20-04-2016	14	3.0	170
20-04-2016	15	4.1	155
20-04-2016	16	3.0	149

Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
20-04-2016	17	3.6	164
20-04-2016	18	4.9	164
20-04-2016	19	2.4	184
20-04-2016	20	3.2	161
20-04-2016	21	1.3	180
20-04-2016	22	0.6	172
20-04-2016	23	1.6	177
21-04-2016	0	0.2	143
21-04-2016	1	2.1	167
21-04-2016	2	2.0	165
21-04-2016	3	1.2	152
21-04-2016	4	1.4	173
21-04-2016	5	1.9	159
21-04-2016	6	1.4	177
21-04-2016	7	0.5	164
21-04-2016	8	0.0	273
21-04-2016	9	0.1	249
21-04-2016	10	0.1	327
21-04-2016	11	0.2	330
21-04-2016	12	0.1	294
26-04-2016	7	3.4	157
26-04-2016	8	3.0	161
26-04-2016	9	3.8	163
26-04-2016	10	4.9	170
26-04-2016	11	4.7	161
26-04-2016	12	4.3	163
26-04-2016	13	4.3	153
26-04-2016	14	4.3	166
26-04-2016	15	4.8	163
26-04-2016	16	3.7	159
26-04-2016	17	3.2	168
	18	2.4	154
26-04-2016 26-04-2016	19	3.0	167
26-04-2016	20	2.8	182
	20	1.5	164
26-04-2016	22		
26-04-2016		1.9	158
26-04-2016	23	2.9	178 197
27-04-2016			
27-04-2016	1	0.1	208
27-04-2016	2	0.6	205
27-04-2016	3	0.2	150
27-04-2016	4	0.0	67
27-04-2016	5	0.0	107
27-04-2016	6	0.1	126
27-04-2016	7	0.0	246
27-04-2016	8	0.0	235
27-04-2016	9	0.0	230
27-04-2016	10	0.0	247
27-04-2016	11	0.0	311
27-04-2016	12	0.1	319

Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
29-04-2016	7	2.9	155
29-04-2016	8	1.7	170
29-04-2016	9	2.3	156
29-04-2016	10	4.1	158
29-04-2016	11	4.0	147
29-04-2016	12	2.0	122
29-04-2016	13	3.9	151
29-04-2016	14	4.8	150
29-04-2016	15	3.5	166
29-04-2016	16	4.1	158
29-04-2016	17	4.6	152
29-04-2016	18	6.3	152
29-04-2016	19	3.4	181
29-04-2016	20	2.5	170
29-04-2016	21	4.6	150
29-04-2016	22	3.5	154
29-04-2016	23	1.8	158
30-04-2016	0	1.2	155
30-04-2016	1	1.3	156
30-04-2016	2	2.3	151
30-04-2016	3	0.3	133
30-04-2016	4	0.5	159
30-04-2016	5	1.4	172
30-04-2016	6	2.4	159
30-04-2016	7	2.0	168
30-04-2016	8	2.7	157
30-04-2016	9	2.5	147
30-04-2016	10	2.7	150
30-04-2016	11	2.3	150
30-04-2016	12	4.3	149

Appendix I

Impact Noise Monitoring Results and Graphical Presentation

Project	Works	Data (vassy mm dd)	Station	Weather Condition	Time (blumm 24bour)	Noise L	evel for 30-	min, dB(A)	Limit Level	Wind Speed	Noise Meter	Calibrator
Project	VVOIKS	Date (yyyy-mm-dd)	Station	vveatrier Condition	Time (hh:mm, 24hour)	Leq	L10	L90	dB(A)	(m/s)	Model/ID	Model/ID
TMCLKL	HY/2012/07	2016-04-05	NSR1A	Sunny	10:23	61	63	54	75	0.3	RION NL31 (S/N	RION NC73 (S/N
TWOLKE	111/2012/07	2010-04-03	NONIA	Sullily	10.23	O I	03	3-7	73	0.3	00603867)	10997142)
TMCLKL	HY/2012/07	2016-04-11	NSR1A	Cloudy	10:03	59	62	54	75	0.3	RION NL31 (S/N	RION NC73 (S/N
TWOLKE	111/2012/07	2010-04-11	NOINIA	Cloudy	10.03	39	02	J 4	73	0.5	00603867)	10997142)
TMCLKL	HY/2012/07	2016-04-14	NSR1A	Cloudy	11:03	60	62	54	75	0.2	RION NL31 (S/N	RION NC73 (S/N
TWOLKE	111/2012/07	2010-04-14	NONIA	Cloudy	11.03	00	02	54	73	0.2	00603867)	10997142)
TMCLKL	HY/2012/07	2016-04-20	NSR1A	Cloudy	9:46	60	62	54	75	0.2	RION NL31 (S/N	RION NC73 (S/N
TWICERE	H1/2012/07	2010-04-20	NOKIA	Cloudy	9.40	00	02	54	75	0.2	00603867)	10997142)
TMCLKL	HY/2012/07	2016-04-26	NSR1A	Sunny	10:35	59	61	53	75	0.2	RION NL31 (S/N	RION NC73 (S/N
TWOLKE	111/2012/07	2010-04-20	NONIA	Sullity	10.55	39	01	55	73	0.2	00603867)	10997142)
TMCLKL	HY/2012/07	2016-04-29	NSR1A	Cuppy	9:40	58	60	52	75	0.3	RION NL31 (S/N	RION NC73 (S/N
INICERE		2010-04-29	NOKIA	Sunny	9.40	36	00	60 53	75	0.3	00603867)	10997142)

58

61

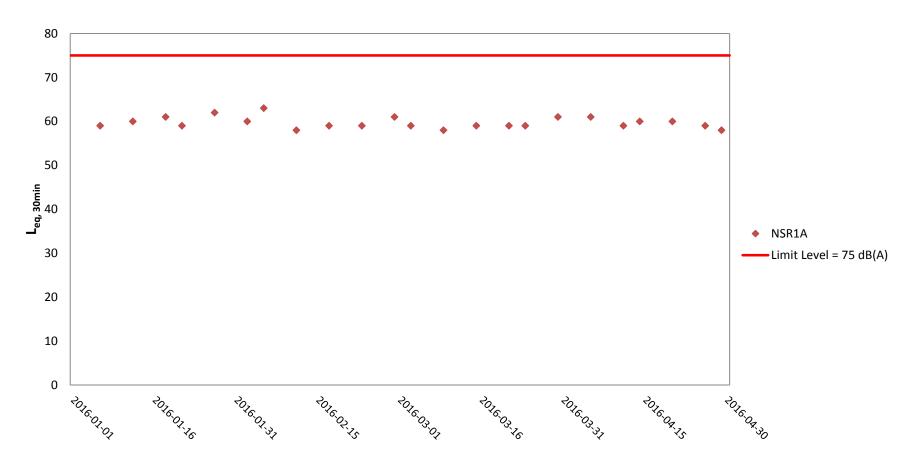
59

Min.

Max.

Average

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



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

Major construction works undertaken within the reporting period include Pier construction; Re-alignment of Cheung Tung Road; Construction of land section of berth at Southern Landfall; Installation of pier head and deck segments; and Slope work of Viaducts A, B & C.

Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.

Appendix J

Impact Water Quality Monitoring Results and Graphical Presentation

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	CS(Mf)5	12:19	Surface	1	1	19.1	7.77	27.3	7.41	8.54	11.1
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	CS(Mf)5	12:19	Surface	1	2	19	7.73	27.4	7.38	8.62	12.9
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	CS(Mf)5	12:19	Middle	2	1	18.9	7.78	27.5	7.29	9.6	11.5
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	CS(Mf)5	12:19	Middle	2	2	18.9	7.73	27.6	7.24	9.67	11.6
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	CS(Mf)5	12:19	Bottom	3	1	18.6	7.69	27.7	7.1	10.5	12.6
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	CS(Mf)5	12:19	Bottom	3	2	18.6	7.71	27.7	7.06	9.93	13.9
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	SR4a	12:45	Surface	1	1	18.9	7.69	27.2	7.29	8.39	11.7
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	SR4a	12:45	Surface	1	2	19	7.72	27.3	7.31	8.44	11.8
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	SR4a	12:45	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	SR4a	12:45	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	SR4a	12:45	Bottom	3	1	19	7.71	27.4	7.03	9.52	14.3
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	SR4a	12:45	Bottom	3	2	18.9	7.73	27.3	7	9.61	11.5
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	SR4	13:03	Surface	1	1	19	7.77	27.1	7.39	8.39	12.6
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	SR4	13:03	Surface	1	2	19	7.79	27.2	7.34	8.44	11.8
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	SR4	13:03	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	SR4	13:03	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	SR4	13:03	Bottom	3	1	18.9	7.76	27.2	7.18	9.4	13.2
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	SR4	13:03	Bottom	3	2	18.9	7.78	27.2	7.21	9.49	13.3
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS8	13:21	Surface	1	1	19	7.81	27.1	7.31	8.5	12.8
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS8	13:21	Surface	1	2	18.9	7.83	27.1	7.29	8.42	10.1
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS8	13:21	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS8	13:21	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS8	13:21	Bottom	3	1	18.9	7.79	27.2	7.15	9.53	11.4
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS8	13:21	Bottom	3	2	18.9	7.81	27.1	7.12	9.61	13.5
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS(Mf)16	13:40	Surface	1	1	18.9	7.82	27.1	7.11	8.6	12.9
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS(Mf)16	13:40	Surface	1	2	18.9	7.85	27.1	7.08	8.52	11.9
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS(Mf)16	13:40	Middle	2	1	18.9	7.81	27.2	7.02	9.63	13.5
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS(Mf)16	13:40	Middle	2	2	18.8	7.83	27.2	6.99	9.7	15.5
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS(Mf)16	13:40	Bottom	3	1	18.5	7.79	27.4	6.84	9.89	14.8
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS(Mf)16	13:40	Bottom	3	2	18.4	7.8	27.4	6.81	9.94	13.9
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS(Mf)9	14:03	Surface	1	1	18.9		27.1	7.23	8.38	10.1
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS(Mf)9	14:03	Surface	1	2	19	7.73	27.1	7.2	8.45	10.1
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS(Mf)9	14:03	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS(Mf)9	14:03	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS(Mf)9	14:03	Bottom	3	1	19.9	7.79	27.1	7.04	9.6	13.4
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	IS(Mf)9	14:03	Bottom	3	2	18.9	7.81	27.2	7.01	9.67	14.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	CS(Mf)3	14:24	Surface	1	1	19	7.79	27	7.28	8.5	11.1
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	CS(Mf)3	14:24	Surface	1	2	19	7.81	27	7.25	8.41	10.1
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	CS(Mf)3	14:24	Middle	2	1	18.9	7.8	27.2	7.08	9.37	12.2
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	CS(Mf)3	14:24	Middle	2	2	18.9	7.78	27.1	7.04	9.44	14.2
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	CS(Mf)3	14:24	Bottom	3	1	18.6	7.81	27.2	6.88	10.2	15.3
TMCLKL	HY/2012/07	02-04-2016	Mid-Flood	CS(Mf)3	14:24	Bottom	3	2	18.5	7.8	27.3	6.91	11.1	14.4
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	CS(Mf)5	10:44	Surface	1	1	18.7	7.75	27.2	7.24	8.86	12.4
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	CS(Mf)5	10:44	Surface	1	2	18.6	7.79	27.3	7.19	8.93	12.5
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	CS(Mf)5	10:44	Middle	2	1	18.5	7.78	27.4	7.03	9.96	12.9
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	CS(Mf)5	10:44	Middle	2	2	18.6	7.75	27.5	7.05	10.1	13.1
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	CS(Mf)5	10:44	Bottom	3	1	18.5	7.76	27.6	6.98	11.4	18.2
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	CS(Mf)5	10:44	Bottom	3	2	18.4	7.79	27.5	6.93	10.8	16.2
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	SR4a	10:20	Surface	1	1	18.5	7.82	27.1	7.13	8.75	12.3
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	SR4a	10:20	Surface	1	2	18.6	7.79	27.2	7.09	8.81	14.1
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	SR4a	10:20	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	SR4a	10:20	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	SR4a	10:20	Bottom	3	1	18.5	7.76	27.3	6.9	9.94	13.9
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	SR4a	10:20	Bottom	3	2	18.4	7.79	27.2	6.94	9.99	14
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	SR4	9:58	Surface	1	1	18.6	7.81	27	7.27	8.63	12.1
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	SR4	9:58	Surface	1	2	18.5	7.82	27.1	7.23	8.55	11.1
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	SR4	9:58	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	SR4	9:58	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	SR4	9:58	Bottom	3	1	18.5	7.76	27.2	7.06	7.79	12.7
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	SR4	9:58	Bottom	3	2	18.4	7.75	27.1	7.04	7.78	13.7
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS8	19:36	Surface	1	1	18.5	7.79	26.9	7.22	8.65	13
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS8	19:36	Surface	1	2	18.4	7.83	27	7.18	8.74	10.5
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS8	19:36	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS8	19:36	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS8	19:36	Bottom	3	1	18.3	7.77	27.1	7	9.82	12.8
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS8	19:36	Bottom	3	2	18.4	7.75	27	7.03	9.89	11.9
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS(Mf)16	9:14	Surface	1	1	18.4	7.8	27	7.04	8.79	11.4
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS(Mf)16	9:14	Surface	1	2	18.5	7.84	26.9	7.01	8.72	10.5
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS(Mf)16	9:14	Middle	2	1	18.4			6.95	9.8	
	HY/2012/07	02-04-2016	Mid-Ebb	IS(Mf)16		Middle	2	2				6.93	9.85	
	HY/2012/07	02-04-2016		IS(Mf)16		Bottom	3	1	18.2				9.96	
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS(Mf)16	9:14	Bottom	3	2	i e	7.78	27.3	6.76	10.1	13.1

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS(Mf)9	8:52	Surface	1	1	18.6	7.76	26.9	7.09	8.69	12.2
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS(Mf)9	8:52	Surface	1	2	18.5	7.79	27	7.12	8.76	14
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS(Mf)9	8:52	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS(Mf)9	8:52	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS(Mf)9	8:52	Bottom	3	1	18.5	7.78	27	6.97	9.91	13.9
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	IS(Mf)9	8:52	Bottom	3	2	18.4	7.82	27.1	6.92	9.98	14
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	CS(Mf)3	12:00	Surface	1	1	18.5	7.8	26.7	7.18	8.82	12.3
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	CS(Mf)3	12:00	Surface	1	2	18.4	7.85	26.8	7.15	8.74	13.1
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	CS(Mf)3	12:00	Middle	2	1	18.3	7.83	26.9	6.97	9.9	14.9
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	CS(Mf)3	12:00	Middle	2	2	18.4	7.86	26.8	7.01	9.94	
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	CS(Mf)3	12:00	Bottom	3	1	18.2	7.82	27	6.74	11.3	
TMCLKL	HY/2012/07	02-04-2016	Mid-Ebb	CS(Mf)3	12:00	Bottom	3	2	18.3	7.85	27.1	6.71	10.7	13.9
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	CS(Mf)5	15:37	Surface	1	1	18.8	7.76	27.3	7.26	8.52	11.9
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	CS(Mf)5	15:37	Surface	1	2	18.8	7.72	27.4	7.25	8.5	12.8
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	CS(Mf)5	15:37	Middle	2	1	18.8	7.68	27.6	7.2	8.76	
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	CS(Mf)5	15:37	Middle	2	2	18.8	7.66	27.6	7.22	8.72	13.1
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	CS(Mf)5	15:37	Bottom	3	1	18.8	7.72	27.8	7.02	9.28	13.9
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	CS(Mf)5	15:37	Bottom	3	2	18.7	7.74	27.8	7.04	9.32	12.1
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	SR4a	16:03	Surface	1	1	18.8	7.74	27.3	7.26	7.52	15.2
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	SR4a	16:03	Surface	1	2	18.9	7.78	27.4	7.28	7.56	13.4
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	SR4a	16:03	Middle	2	1						
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	SR4a	16:03	Middle	2	2	,					
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	SR4a	16:03	Bottom	3	1	18.8	7.74	27.4	7.08	8.24	
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	SR4a	16:03	Bottom	3	2	18.8	7.76	27.4	7.04	8.42	10.9
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	SR4	16:20	Surface	1	1	18.9	7.78	27.4	7.18	7.02	
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	SR4	16:20	Surface	1	2	18.9	7.76	27.5	7.14	7.14	10.7
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	SR4	16:20	Middle	2	1						
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	SR4	16:20	Middle	2	2	,					
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	SR4		Bottom	3	1	18.8	7.72	27.5	7.02	8.26	10.7
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	SR4	16:20	Bottom	3	2	18.8	7.7	27.6	7.06	8.3	13.3
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS8	16:37	Surface	1	1	18.9	7.74	27.5	7.84	7.83	10.2
TMCLKL	HY/2012/07		Mid-Flood		16:37	Surface	1	2	19	7.76	27.5	7.22	7.88	10.2
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS8	16:37	Middle	2	1						
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS8	16:37	Middle	2	2						
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS8	16:37	Bottom	3	1	18.9	7.76	27.5	7	9.53	14.3
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS8	16:37	Bottom	3	2	18.9	7.77	27.6	6.96	9.56	12.4

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS(Mf)16	16:55	Surface	1	1	19	7.68	27.5	7.1	8.34	10.8
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS(Mf)16	16:55	Surface	1	2	18.9	7.66	27.5	7.06	8.39	11.7
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS(Mf)16	16:55	Middle	2	1	18.9	7.65	27.6	7.01	8.62	13.8
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS(Mf)16	16:55	Middle	2	2	18.9	7.64	27.6	7.03	8.68	11.3
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS(Mf)16	16:55	Bottom	3	1	18.9	7.64	22.6	6.83	9.34	13.1
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS(Mf)16	16:55	Bottom	3	2	18.8	7.65	27.7	6.87	9.38	15
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS(Mf)9	17:16	Surface	1	1	18.9	7.73	27.5	7.23	8.26	13.2
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS(Mf)9	17:16	Surface	1	2	18.9	7.75	27.5	7.25	8.3	11.6
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS(Mf)9	17:16	Middle	2	1						
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS(Mf)9	17:16	Middle	2	2						
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS(Mf)9	17:16	Bottom	3	1	18.9	7.78	27.6	7.1	9.19	14.7
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	IS(Mf)9	17:16	Bottom	3	2	18.9	7.79	27.6	7.08	9.15	13.7
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	CS(Mf)3	17:34	Surface	1	1	18.9	7.72	27.5	7.2	8.86	10.6
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	CS(Mf)3	17:34	Surface	1	2	18.9	7.73	27.5	7.18	8.83	10.6
TMCLKL	HY/2012/07	05-04-2016		CS(Mf)3	17:34	Middle	2	1	18.8	7.67	27.6	7.22	9.84	14.8
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	CS(Mf)3	17:34	Middle	2	2	18.9	7.66	27.6	7.21	9.27	12.1
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	CS(Mf)3	17:34	Bottom	3	1	18.8	7.64	27.8	7.03	9.67	12.6
TMCLKL	HY/2012/07	05-04-2016	Mid-Flood	CS(Mf)3	17:34	Bottom	3	2	18.8	7.65	27.9	7.02	9.63	15.4
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	CS(Mf)5	13:02	Surface	1	1	18.9	7.78	27.2	7.27	8.43	11
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	CS(Mf)5	13:02	Surface	1	2	19	7.75	27.3	7.3	8.6	10.3
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	CS(Mf)5	13:02	Middle	2	1	18.9	7.69	27.5	7.21	8.81	12.3
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	CS(Mf)5	13:02	Middle	2	2	18.9	7.72	27.5	7.18	8.97	11.7
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	CS(Mf)5		Bottom	3	1	18.8	7.7	27.7	7.04	9.56	14.3
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	CS(Mf)5	13:02	Bottom	3	2	18.7	7.74	27.8	7.01	9.42	11.3
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	SR4a	12:36	Surface	1	1	18.9	7.69	27.2	7.38	7.43	9.7
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	SR4a	12:36	Surface	1	2	18.9	7.72	27.2	7.34	7.36	11.8
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	SR4a	12:36	Middle	2	1						
	HY/2012/07	05-04-2016	Mid-Ebb	SR4a	12:36	Middle	2	2						
	HY/2012/07	05-04-2016		SR4a	12:36	Bottom	3	1	18.9	7.7	27.5	7.17	8.2	13.1
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	SR4a	12:36	Bottom	3	2	18.8			7.14	8.37	10.9
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	SR4	12:17	Surface	1	1	19	7.76	27.3	7.26	6.98	9.1
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	SR4	12:17	Surface	1	2	18.9	7.73	27.4	7.22	7.11	11.4
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	SR4	12:17	Middle	2	1						
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	SR4	12:17	Middle	2	2						
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	SR4	12:17	Bottom	3	1	18.9	7.74	27.4	7.09	8.34	10.8
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	SR4	12:17	Bottom	3	2	18.9	7.76	27.4	7.11	8.51	11.9

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS8	12:01	Surface	1	1	. 19	7.76	27.4	7.21	7.75	9.3
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS8	12:01	Surface	1	2	19	7.79	27.4	7.18	7.86	11.8
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS8	12:01	Middle	2	1						
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS8	12:01	Middle	2	2	2					
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS8	12:01	Bottom	3	1	. 19	7.73	27.4	7.04	9.73	13.6
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS8	12:01	Bottom	3	2	18.9	7.75	27.5	7.01	7.64	12.5
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS(Mf)16	11:40	Surface	1	1	. 19	7.69	27.4	7.09	8.27	11.6
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS(Mf)16	11:40	Surface	1	2	19	7.71	27.3	7.12	8.35	12.5
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS(Mf)16	11:40	Middle	2	1	. 19	7.64	27.4	7.03	8.7	13.1
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS(Mf)16	11:40	Middle	2	2	18.9	7.62	27.5	7	8.81	11.5
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS(Mf)16	11:40	Bottom	3	1	18.8	7.63	27.7	6.86	9.52	12.4
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS(Mf)16	11:40	Bottom	3	2	18.8	7.66	27.7	6.89	9.44	14.2
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS(Mf)9	11:21	Surface	1	1	18.9	7.76	27.4	7.3	8.48	10.2
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS(Mf)9	11:21	Surface	1	2	18.9	7.7	27.4	7.24	8.54	11.1
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS(Mf)9	11:21	Middle	2	1						
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS(Mf)9	11:21	Middle	2	2	2					
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS(Mf)9	11:21	Bottom	3	1	18.9	7.74	27.5	7.13	9.07	13.6
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	IS(Mf)9	11:21	Bottom	3	2	18.9	7.76	27.6	7.1	9.14	14.6
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	CS(Mf)3	10:59	Surface	1	1	18.8	7.73	27.4	7.23	8.97	10.8
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	CS(Mf)3	10:59	Surface	1	2	18.9	7.7	27.5	7.18	9.06	13.6
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	CS(Mf)3	10:59	Middle	2	1	18.8	7.68	27.5	7.27	9.42	11.3
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	CS(Mf)3	10:59	Middle	2	2	18.8	7.71	27.6	7.24	9.33	13.1
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	CS(Mf)3	10:59	Bottom	3	1	18.8	7.63	27.8	7.06	9.89	12.9
TMCLKL	HY/2012/07	05-04-2016	Mid-Ebb	CS(Mf)3	10:59	Bottom	3	2	18.7	7.66	27.8	7.02	9.95	14.9
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	CS(Mf)5	17:22	Surface	1	1	19.2	7.8	27.4	7.28	8.23	9.9
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	CS(Mf)5	17:22	Surface	1	2	19.1	7.83	27.4	7.24	8.3	11.6
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	CS(Mf)5	17:22	Middle	2	1	19.1	7.79	27.6	7.19	8.61	12.9
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	CS(Mf)5	17:22	Middle	2	2	19	7.77	27.6	7.16	8.55	
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	CS(Mf)5		Bottom	3	1	18.9	7.81	27.8	7.03	9.2	13.8
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	CS(Mf)5	17:22	Bottom	3	2	18.8	7.78	27.8	7	9.29	13
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	SR4a	17:50	Surface	1	1	19.1	7.78	27.3	7.33	7.66	10.7
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	SR4a	17:50	Surface	1	2	19.1	7.81	27.4	7.28	7.57	10.6
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	SR4a	17:50	Middle	2	1						
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	SR4a	17:50	Middle	2	2						
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	SR4a	17:50	Bottom	3	1	. 19	7.79	27.4	7.14	7.93	12.7
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	SR4a	17:50	Bottom	3	2	19	7.76	27.4	7.1	8.01	12

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	SR4	18:07	Surface	1	1	19.1	7.78	27.4	7.24	7.08	9.9
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	SR4	18:07	Surface	1	2	19	7.81	27.4	7.21	7.12	10
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	SR4	18:07	Middle	2	1	-					
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	SR4	18:07	Middle	2	2	2					
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	SR4	18:07	Bottom	3	1	. 19	7.74	27.5	7.11	8.09	12.9
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	SR4	18:07	Bottom	3	2	18.9	7.77	27.5	7.07	8.17	10.6
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS8	18:24	Surface	1	1	19.1	7.8	27.5	7.18	7.62	11.4
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS8	18:24	Surface	1	2	19.2	7.83	27.5	7.15	7.56	10.6
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS8	18:24	Middle	2	1	-					
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS8	18:24	Middle	2	2	2					
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS8	18:24	Bottom	3	1	19.1	7.76	27.5	7.03	9.68	11.6
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS8	18:24	Bottom	3	2	19.1	7.79		6.99	9.55	
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS(Mf)16	18:42	Surface	1	1	19.2	7.77	27.5	7.12	8.04	10.5
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS(Mf)16	18:42	Surface	1	2	19.2	7.8	27.5	7.09	8.12	10.6
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS(Mf)16	18:42	Middle	2	1	19.1	7.76	27.6	7.01	8.39	
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS(Mf)16	18:42	Middle	2	2	19.1	7.72	27.7	6.97	8.44	12.7
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS(Mf)16	18:42	Bottom	3	1	. 19	7.67	27.8	6.86	9.27	11.1
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS(Mf)16	18:42	Bottom	3	2	18.9	7.7	27.8	6.81	9.38	13.1
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS(Mf)9	19:03	Surface	1	1	19.1	7.79	27.4	7.28	8.27	12.4
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS(Mf)9	19:03	Surface	1	2	19.1	7.8	27.4	7.24	8.35	10.9
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS(Mf)9	19:03	Middle	2	1	-					
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS(Mf)9	19:03	Middle	2	2	2					
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS(Mf)9	19:03	Bottom	3	1	. 19	7.8	27.5	7.07	8.9	14.2
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	IS(Mf)9	19:03	Bottom	3	2	2 19	7.78	27.6	7.04	9.01	14.4
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	CS(Mf)3	19:23	Surface	1	1	19.1	7.77	27.4	7.22	8.74	11.4
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	CS(Mf)3	19:23	Surface	1	2	19.2	7.79	27.5	7.2	8.83	13.2
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	CS(Mf)3	19:23	Middle	2	1	19.1	7.78	27.6	7.16	9.08	14.5
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	CS(Mf)3	19:23	Middle	2	2	19.1	7.75	27.6	7.12	9.13	11.9
TMCLKL	HY/2012/07	07-04-2016		CS(Mf)3		Bottom	3		. 19				9.62	
TMCLKL	HY/2012/07	07-04-2016	Mid-Flood	CS(Mf)3	19:23	Bottom	3	2	18.9	7.75	27.9	6.9	9.71	11.7
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	CS(Mf)5	13:27	Surface	1	1	19.1	7.84	27.3	7.18	8.49	11.9
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	CS(Mf)5	13:27	Surface	1	2	19.1	7.81	27.4	7.21	8.46	10.2
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	CS(Mf)5	13:27	Middle	2	1	18.9	7.75	27.6	7.12	8.87	12.4
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	CS(Mf)5	13:27	Middle	2	2	19	7.78	27.5	7.09	8.91	11.6
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	CS(Mf)5	13:27	Bottom	3	1	18.8	7.76	27.8	6.95	9.47	14.2
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	CS(Mf)5	13:27	Bottom	3	2	18.7	7.8	27.9	6.92	9.49	14.2

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	SR4a	13:03	Surface	1	1	18.9	7.75	27.3	7.29	7.49	12
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	SR4a	13:03	Surface	1	2	19	7.78	27.2	7.25	7.42	10.4
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	SR4a	13:03	Middle	2	1						
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	SR4a	13:03	Middle	2	2						
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	SR4a	13:03	Bottom	3	1	18.7	7.76	27.4	7.08	8.26	11.6
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	SR4a	13:03	Bottom	3	2	18.8	7.8	27.5	7.05	8.43	12.6
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	SR4	12:41	Surface	1	1	18.9	7.82	27.4	7.17	7.14	9.3
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	SR4	12:41	Surface	1	2	. 19	7.79	27.3	7.13	7.21	11.5
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	SR4	12:41	Middle	2	1						
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	SR4	12:41	Middle	2	2	,					
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	SR4	12:41	Bottom	3	1	18.9	7.8	27.4	7	8.4	11.8
	HY/2012/07	07-04-2016	Mid-Ebb	SR4	12:41	Bottom	3	2	18.8	7.82	27.5	7.02	8.57	12.9
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS8		Surface	1	1	19	7.82	27.4	7.12	7.81	10.9
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS8	12:19	Surface	1	2	19.1	7.85	27.5	7.09	7.92	11.9
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS8	12:19	Middle	2	1						
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS8		Middle	2	2	,					
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS8	12:19	Bottom	3	1	19	7.79	27.6	6.95	9.79	14.7
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS8	12:19	Bottom	3	2	18.9	7.81	27.5	6.92	9.7	11.6
	HY/2012/07	07-04-2016	Mid-Ebb	IS(Mf)16		Surface	1	1	19.1	7.75		7	8.33	13.3
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS(Mf)16	11:57	Surface	1	2	19	7.77	27.5	7.03	8.41	12.6
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS(Mf)16	11:57	Middle	2	1	18.9	7.7		6.94	8.76	11.4
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS(Mf)16	11:57	Middle	2	2	. 19	7.68	27.5	6.91	8.87	11.5
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS(Mf)16	11:57	Bottom	3	1	18.9	7.69		6.77	9.58	13.4
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS(Mf)16	11:57	Bottom	3	2	18.8	7.72	27.8	6.8	9.5	11.4
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS(Mf)9	11:35	Surface	1	1	19	7.82	27.4	7.21	8.54	10.2
TMCLKL	HY/2012/07	07-04-2016		IS(Mf)9		Surface	1	2	18.9	7.76	27.5	7.15	8.6	12
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS(Mf)9	11:35	Middle	2	1						
TMCLKL	HY/2012/07	07-04-2016		IS(Mf)9		Middle	2	2	,					
	HY/2012/07	07-04-2016		IS(Mf)9		Bottom	3		18.9	7.8				
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	IS(Mf)9	11:35	Bottom	3	2	18.8			7.01	9.2	14.7
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	CS(Mf)3	11:13	Surface	1	1	18.9	7.79		7.14	1	
	HY/2012/07	07-04-2016		CS(Mf)3		Surface	1	2	. 19				1	
	HY/2012/07	07-04-2016		CS(Mf)3	11:13	Middle	2	1	18.9			7.18	9.48	
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	CS(Mf)3	11:13	Middle	2	2	18.8	7.77	27.6	7.15	9.39	13.1
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	CS(Mf)3	11:13	Bottom	3	1	18.8	7.69		6.97	9.95	12.9
TMCLKL	HY/2012/07	07-04-2016	Mid-Ebb	CS(Mf)3	11:13	Bottom	3	2	18.7	7.72	27.9	6.93	10.1	16.2

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	CS(Mf)5	7:45	Surface	1	1	19	8.12	27.5	7.36	7.92	10.3
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	CS(Mf)5	7:45	Surface	1	2	18.9	8.14	27.6	7.38	7.94	11.1
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	CS(Mf)5	7:45	Middle	2	1	18.7	7.91	27.7	7.25	8.12	11.4
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	CS(Mf)5	7:45	Middle	2	2	18.8	7.93	27.8	7.23	8.14	11.4
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	CS(Mf)5	7:45	Bottom	3	1	18.6	8	27.9	7.11	8.2	13.1
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	CS(Mf)5	7:45	Bottom	3	2	18.5	8.02	28	7.09	8.22	12.3
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	SR4a	8:03	Surface	1	1	18.9	7.92	27.6	7.45	7.25	11.6
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	SR4a	8:03	Surface	1	2	18.9	7.94	27.7	7.47	7.27	10.9
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	SR4a	8:03	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	SR4a	8:03	Middle	2	2	,					
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	SR4a	8:03	Bottom	3	1	18.7	7.67	27.8	7.28	7.44	9.7
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	SR4a	8:03	Bottom	3	2	18.6	7.69	27.9	7.3	7.46	10.4
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	SR4	8:15	Surface	1	1	19	7.7	27.5	7.45	6.72	10.1
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	SR4	8:15	Surface	1	2	19	7.72	27.6	7.47	6.74	8.8
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	SR4	8:15	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	SR4	8:15	Middle	2	2	,					
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	SR4	8:15	Bottom	3	1	18.7	7.85	27.7	7.3	6.92	9
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	SR4	8:15	Bottom	3	2	18.6	7.87	27.8	7.28	6.94	10.4
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS8	8:35	Surface	1	1	18.9	7.85	27.5	7.3	6.8	9.5
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS8	8:35	Surface	1	2	18.8	7.87	27.5	7.32	6.82	8.9
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS8	8:35	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS8	8:35	Middle	2	2	,					
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS8	8:35	Bottom	3	1	18.7	7.92	27.6	7.24	6.99	10.5
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS8	8:35	Bottom	3	2	18.6	7.94	27.7	7.22	7.01	10.5
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS(Mf)16	8:53	Surface	1	1	18.9	7.92	27.5	7.14	6.65	10
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS(Mf)16	8:53	Surface	1	2	18.9	7.94	27.6	7.16	6.67	10.7
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS(Mf)16	8:53	Middle	2	1	18.7	8.16	27.7	7.03	6.74	10.8
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS(Mf)16	8:53	Middle	2	2	18.6	8.18	27.8	7.05	6.76	10.1
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS(Mf)16	8:53	Bottom	3	1	18.5	8	27.9	6.94	6.8	10.2
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS(Mf)16	8:53	Bottom	3	2	18.6	8.02	28	6.96	6.82	10.2
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS(Mf)9	9:15	Surface	1	1	19	7.94	27.5	7.34	8	9.6
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS(Mf)9	9:15	Surface	1	2	18.9	7.96	27.6	7.36	8.02	9.6
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS(Mf)9	9:15	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS(Mf)9	9:15	Middle	2	2	,					
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS(Mf)9	9:15	Bottom	3	1	18.7	8.13	27.7	7.16	8.14	11.4
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	IS(Mf)9	9:15	Bottom	3	2	18.8	8.15	27.8	7.14	8.16	9.8

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	CS(Mf)3	9:30	Surface	1	1	19	8.12	27.4	7.3	7.65	11.5
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	CS(Mf)3	9:30	Surface	1	2	19	8.14	27.5	7.28	7.67	11.5
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	CS(Mf)3	9:30	Middle	2	1	18.9	7.96	27.6	7.17	7.8	10.9
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	CS(Mf)3	9:30	Middle	2	2	18.8	7.94	27.7	7.15	7.82	11.7
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	CS(Mf)3	9:30	Bottom	3	1	18.7	8	27.8	7.03	8.03	11.2
TMCLKL	HY/2012/07	09-04-2016	Mid-Flood	CS(Mf)3	9:30	Bottom	3	2	18.6	8.02	27.9	7.01	8.05	11.3
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	CS(Mf)5	14:49	Surface	1	1	19.1	7.9	27.5	7.24	8.4	11.8
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	CS(Mf)5	14:49	Surface	1	2	19.2	7.87	27.4	7.27	8.37	10.9
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	CS(Mf)5	14:49	Middle	2	1	19	7.81	27.6	7.18	8.78	11.4
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	CS(Mf)5	14:49	Middle	2	2	18.9	7.84	27.7	7.15	8.82	13.2
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	CS(Mf)5	14:49	Bottom	3	1	18.7	7.82	27.9	7.01	9.38	14.1
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	CS(Mf)5	14:49	Bottom	3	2	18.6	7.86	28	6.98	9.4	12.2
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	SR4a	14:41	Surface	1	1	19.1	7.81	27.3	7.35	7.4	9.6
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	SR4a	14:41	Surface	1	2	19.1	7.84	27.4	7.31	7.33	11
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	SR4a	14:41	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	SR4a	14:41	Middle	2	2						
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	SR4a	14:41	Bottom	3	1	18.9	7.82	27.6	7.14	8.17	12.3
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	SR4a	14:41	Bottom	3	2	18.8	7.86	27.5	7.11	8.25	10.7
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	SR4	14:03	Surface	1	1	19.1	7.88	27.4	7.23	7.05	11.3
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	SR4	14:03	Surface	1	2	19	7.85	27.5	7.19	7.12	10.7
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	SR4	14:03	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	SR4	14:03	Middle	2	2						
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	SR4	14:03	Bottom	3	1	19	7.86	27.6	7.06	8.31	10.8
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	SR4	14:03	Bottom	3	2	19.1	7.88	27.5	7.08	8.42	12.6
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS8	13:41	Surface	1	1	19.1	7.88	27.5	7.18	7.72	11.6
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS8	13:41	Surface	1	2	19.2	7.91	27.6	7.15	7.83	9.4
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS8	13:41	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS8	13:41	Middle	2	2						
TMCLKL	HY/2012/07	09-04-2016		IS8		Bottom	3	1	19.1	7.85	27.6	7.01	9.7	13.6
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS8	13:41	Bottom	3	2	19	7.87	27.7	6.98	9.61	14.4
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS(Mf)16	13:19	Surface	1	1	19.2	7.81	27.6	7.06	8.24	12.4
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS(Mf)16	13:19	Surface	1	2	19.1	7.83	27.5	7.09	8.32	10.8
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS(Mf)16	13:19	Middle	2	1	19.1	7.76	27.6	7	8.67	13
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS(Mf)16	13:19	Middle	2	2	19	7.74	27.7	6.97	8.78	14
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS(Mf)16	13:19	Bottom	3	1	18.9	7.75	27.8	6.83	9.49	15.2
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS(Mf)16	13:19	Bottom	3	2	19	7.78	27.9	6.86	9.41	14.1

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS(Mf)9	12:57	Surface	1	1	19.1	7.88	27.5	7.27	8.45	13.5
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS(Mf)9	12:57	Surface	1	2	19	7.82	27.6	7.21	8.51	11.9
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS(Mf)9	12:57	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS(Mf)9	12:57	Middle	2	2						
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS(Mf)9	12:57	Bottom	3	1	19	7.86	27.8	7.02	9.04	10.8
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	IS(Mf)9	12:57	Bottom	3	2	18.9	7.88	27.7	7.07	9.11	12.8
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	CS(Mf)3	12:35	Surface	1	1	19	7.85	27.7	7.2	8.94	11.6
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	CS(Mf)3	12:35	Surface	1	2	19.1	7.82	27.6	7.15	9.03	11.7
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	CS(Mf)3	12:35	Middle	2	1	19	7.8	27.7	7.24	9.39	15
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	CS(Mf)3	12:35	Middle	2	2	18.9	7.83	27.8	7.21	9.3	13
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	CS(Mf)3	12:35	Bottom	3	1	18.9	7.75	27.9	7.03	9.86	12.8
TMCLKL	HY/2012/07	09-04-2016	Mid-Ebb	CS(Mf)3	12:35	Bottom	3	2	18.8	7.78	28	6.99	9.92	13.9
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	CS(Mf)5	9:01	Surface	1	1	19.8	7.64	27.1	7.18	6.84	10.3
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	CS(Mf)5	9:01	Surface	1	2	19.9	7.61	27	7.14	6.73	10.1
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	CS(Mf)5	9:01	Middle	2	1	19.8	7.6	27.2	7.06	6.43	10.3
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	CS(Mf)5	9:01	Middle	2	2	19.8	7.63	27.3	7.02	6.3	10.1
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	CS(Mf)5	9:01	Bottom	3	1	19.8	7.58	27.5	6.88	7.28	9.5
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	CS(Mf)5	9:01	Bottom	3	2	19.7	7.62	27.4	6.85	7.33	11.7
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	SR4a	9:25	Surface	1	1	19.9	7.73	26.9	7.13	6.59	8.6
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	SR4a	9:25	Surface	1	2	20	7.7	26.9	7.1	6.66	10
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	SR4a	9:25	Middle	2	1						
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	SR4a	9:25	Middle	2	2						
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	SR4a	9:25	Bottom	3	1	19.9	7.67	27	6.97	7.02	9.8
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	SR4a	9:25	Bottom	3	2	19.9	7.7	27	6.93	7.11	10.7
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	SR4	9:43	Surface	1	1	20	7.77	27	7.07	6.23	8.1
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	SR4	9:43	Surface	1	2	20	7.74	27	7.11	6.3	8.8
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	SR4	9:43	Middle	2	1						
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	SR4	9:43	Middle	2	2						
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	SR4	9:43	Bottom	3	1	19.9	7.73	27	6.9	6.67	10
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	SR4	9:43	Bottom	3	2	19.9	7.71	27.1	6.87	6.84	8.9
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS8	10:00	Surface	1	1	20	7.66	27	7.04	6.34	8.9
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS8	10:00	Surface	1	2	19.9	7.61	26.9	7.01	6.42	8.3
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS8	10:00	Middle	2	1						
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS8	10:00	Middle	2	2						
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS8	10:00	Bottom	3	1	19.9	7.65	27	6.84	7.02	9.1
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS8	10:00	Bottom	3	2	19.8	7.7	27.1	6.8	6.9	8.3

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS(Mf)16	10:18	Surface	1	1	20	7.68	26.9	7.14	6.62	8.6
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS(Mf)16	10:18	Surface	1	2	20	7.62	26.9	7.12	6.49	8.4
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS(Mf)16	10:18	Middle	2	1	19.9	7.64	26.9	7	6.33	8.2
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS(Mf)16	10:18	Middle	2	2	19.9	7.61	27	7.03	6.27	8.2
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS(Mf)16	10:18	Bottom	3	1	19.9	7.58	27.2	6.83	7.14	10
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS(Mf)16	10:18	Bottom	3	2	18.7	7.61	27.2	6.78	7.23	9.4
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS(Mf)9	10:39	Surface	1	1	20	7.64	27	7.18	6.74	9.4
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS(Mf)9	10:39	Surface	1	2	19.8	7.62	27	7.21	6.65	8
TMCLKL	HY/2012/07	12-04-2016		IS(Mf)9	10:39	Middle	2	1						
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS(Mf)9	10:39	Middle	2	2						
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS(Mf)9	10:39	Bottom	3	1	19.9	7.6	27.1	6.96	7	11.2
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	IS(Mf)9	10:39	Bottom	3	2	19.8	7.63	27	6.92	7.09	10.6
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	CS(Mf)3	11:00	Surface	1	1	20	7.74	27.1	7.26	6.89	8.3
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	CS(Mf)3	11:00	Surface	1	2	20.1	7.7	27.1	7.22	6.96	10.4
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	CS(Mf)3	11:00	Middle	2	1	20	7.65	27	7.29	6.67	10
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	CS(Mf)3	11:00	Middle	2	2	19.9	7.62	27.2	7.31	6.6	8.6
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	CS(Mf)3	11:00	Bottom	3	1	19.8	7.67	27.3	6.99	7.24	9.4
TMCLKL	HY/2012/07	12-04-2016	Mid-Flood	CS(Mf)3	11:00	Bottom	3	2	19.8	7.7	27.3	7.03	7.35	9.6
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	CS(Mf)5	16:58	Surface	1	1	19.6	7.68	27.1	7.08	6.96	10.4
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	CS(Mf)5	16:58	Surface	1	2	19.7	7.66	27.2	7.04	7.03	8.4
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	CS(Mf)5	16:58	Middle	2	1	19.6	7.64	27.3	6.97	7.18	11.5
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	CS(Mf)5	16:58	Middle	2	2	19.5	7.13	27.2	6.94	7.23	10.1
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	CS(Mf)5	16:58	Bottom	3	1	19.7	7.6	27.4	6.83	7.29	9.5
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	CS(Mf)5	16:58	Bottom	3	2	19.6	7.61	27.3	6.81	7.33	8.8
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	SR4a	16:38	Surface	1	1	19.7	7.69	27	7.08	7.1	9.2
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	SR4a	16:38	Surface	1	2	19.8	7.65	27.1	7.04	7.02	9.1
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	SR4a	16:38	Middle	2	1						
	HY/2012/07	12-04-2016	Mid-Ebb	SR4a	16:38	Middle	2	2						
	HY/2012/07	12-04-2016		SR4a	16:38	Bottom	3	1	19.6	7.71	27.2	6.89	7.17	10
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	SR4a	16:38	Bottom	3	2	19.7			6.88	7.12	
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	SR4	16:18	Surface	1	1	19.8	7.72	27.1	7.01	6.35	8.9
TMCLKL	HY/2012/07	12-04-2016		SR4	16:18	Surface	1	2	19.7	7.7	27.2	6.99	6.41	10.3
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	SR4	16:18	Middle	2	1						
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	SR4	16:18	Middle	2	2						
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	SR4	16:18	Bottom	3	1	19.7	7.67	27.3	6.91	6.76	10.1
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	SR4	16:18	Bottom	3	2	19.6	7.63	27.2	6.88	6.83	10.2

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS8	16:01	Surface	1	1	19.7	7.68	27.1	7.12	6.51	9.8
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS8	16:01	Surface	1	2	19.6	7.64	27	7.13	6.47	8.4
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS8	16:01	Middle	2	1						
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS8	16:01	Middle	2	2						
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS8	16:01	Bottom	3	1	19.5	7.71	27.2	7.05	6.98	9.1
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS8	16:01	Bottom	3	2	19.6	7.73	27.1	7.01	7.05	10.6
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS(Mf)16	15:42	Surface	1	1	19.7	7.71	27	7.09	6.82	8.2
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS(Mf)16	15:42	Surface	1	2	19.6	7.74	26.9	7.07	6.75	8.1
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS(Mf)16	15:42	Middle	2	1	19.8	7.62	27	6.96	7.12	10
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS(Mf)16	15:42	Middle	2	2	19.7	7.65	27.1	9.98	7.18	10.8
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS(Mf)16	15:42	Bottom	3	1	19.6	7.68	27.2	6.81	7.38	10.3
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS(Mf)16	15:42	Bottom	3	2	19.5	7.7	27.3	6.78	7.28	10.9
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS(Mf)9	15:25	Surface	1	1	19.7	7.68	27	7.11	6.87	9.6
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS(Mf)9	15:25	Surface	1	2	19.6	7.65	26.9	7.13	6.81	8.9
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS(Mf)9	15:25	Middle	2	1						
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS(Mf)9	15:25	Middle	2	2						
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS(Mf)9	15:25	Bottom	3	1	19.6	7.62	27.1	6.84	7.12	10.7
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	IS(Mf)9	15:25	Bottom	3	2	19.5	7.64	27	6.88	7.16	9.3
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	CS(Mf)3	14:59	Surface	1	1	19.7	7.71	27	7.14	6.97	9.1
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	CS(Mf)3	14:59	Surface	1	2	19.6	7.72	27	7.1	7.08	9.2
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	CS(Mf)3	14:59	Middle	2	1	19.5	7.63	27.1	7.08	7.28	10.2
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	CS(Mf)3	14:59	Middle	2	2	19.6	7.64	27	7.06	7.24	10.9
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	CS(Mf)3	14:59	Bottom	3	1	19.4	7.68	27.2	6.95	7.32	9.5
TMCLKL	HY/2012/07	12-04-2016	Mid-Ebb	CS(Mf)3	14:59	Bottom	3	2	19.3	7.65	27.3	6.92	7.29	9.5
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	CS(Mf)5	10:46	Surface	1	1	19.9	7.7	27.1	7.24	6.75	9.5
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	CS(Mf)5	10:46	Surface	1	2	20	7.67	27.2	7.2	6.64	8.6
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	CS(Mf)5	10:46	Middle	2	1	19.9	7.66	27.3	7.12	6.34	8.2
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	CS(Mf)5	10:46	Middle	2	2	19.8	7.69	27.4	7.08	6.21	8.1
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	CS(Mf)5	10:46	Bottom	3	1	19.7	7.64	27.6	6.94	7.19	9.3
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	CS(Mf)5	10:46	Bottom	3	2	19.8	7.68	27.5	6.91	7.24	10.9
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	SR4a	11:08	Surface	1	1	20.1	7.79	26.9	7.19	6.5	9.8
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	SR4a	11:08	Surface	1	2	20	7.76	27	7.16	6.57	8.5
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	SR4a	11:08	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	SR4a	11:08	Middle	2	2						
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	SR4a	11:08	Bottom	3	1	19.9	7.73	27	7.03	6.93	9.7
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	SR4a	11:08	Bottom	3	2	20	7.76	27.1	6.99	7.02	9.1

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	SR4	11:30	Surface	1	1	20	7.83	27	7.13	6.14	
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	SR4	11:30	Surface	1	2	20.1	7.8	27.1	7.17	6.21	7.5
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	SR4	11:30	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	SR4	11:30	Middle	2	2	,					
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	SR4	11:30	Bottom	3	1	20	7.79	27.2	6.96	6.58	
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	SR4	11:30	Bottom	3	2	19.9	7.77	27.1	6.93	6.55	9.2
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS8	11:52	Surface	1	1	20.1	7.72	27	7.1	6.25	
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS8	11:52	Surface	1	2	20	7.67	27.1	7.07	6.33	9.5
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS8	11:52	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS8	11:52	Middle	2	2	,					
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS8	11:52	Bottom	3	1	19.9	7.71	27.1	6.9	6.93	10.4
TMCLKL	HY/2012/07	14-04-2016		IS8	11:52	Bottom	3	2	20	7.76		6.86	6.81	10.9
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS(Mf)16	12:14	Surface	1	1	20.1	7.74	26.9	7.2	6.53	9.8
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS(Mf)16	12:14	Surface	1	2		7.68	27	7.18	6.4	9.6
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS(Mf)16	12:14	Middle	2	1	20	7.7	27	7.06	6.24	9.7
TMCLKL	HY/2012/07	14-04-2016		IS(Mf)16	12:14	Middle	2	2	19.9	7.67	27.1	7.09	6.18	
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS(Mf)16	12:14	Bottom	3	1	19.8	7.64	27.2	6.89	7.05	8.5
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS(Mf)16	12:14	Bottom	3	2	19.9	7.67	27.3	6.84	7.14	9.3
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS(Mf)9	12:36	Surface	1	1	19.9	7.7	27	7.24	6.65	9.3
	HY/2012/07	14-04-2016	Mid-Flood	IS(Mf)9	12:36	Surface	1	2	20	7.68	27.1	7.27	6.56	8.5
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS(Mf)9	12:36	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS(Mf)9		Middle	2	2	,					
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	IS(Mf)9	12:36	Bottom	3	1	19.9	7.66		7.02	6.91	9
TMCLKL	HY/2012/07	14-04-2016		IS(Mf)9	12:36	Bottom	3	2		7.69		6.98	7	9.1
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood	CS(Mf)3	13:00	Surface	1	1	20.2	7.8		7.32	6.8	10.2
	HY/2012/07	14-04-2016	Mid-Flood	CS(Mf)3	13:00	Surface	1	2		7.76	27.2	7.28	6.87	8.9
	HY/2012/07	14-04-2016		CS(Mf)3		Middle	2	1	20.1	7.71	27.2	7.35	6.58	10.5
	HY/2012/07	14-04-2016		CS(Mf)3	13:00	Middle	2	2	20.1	7.68		7.37	6.51	9.8
	HY/2012/07	14-04-2016		CS(Mf)3		Bottom	3	1	19.9	7.73		7.05	7.15	
TMCLKL	HY/2012/07	14-04-2016	Mid-Flood		13:00	Bottom	3	2	19.0					
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	CS(Mf)5	19:25	Surface	1	1	20	7.83		7.2	6.98	
TMCLKL	HY/2012/07	14-04-2016		CS(Mf)5		Surface	1	2	20			7.24	6.94	
	HY/2012/07	14-04-2016		CS(Mf)5		Middle	2	1	19.8	7.85		7.11	7.43	
	HY/2012/07	14-04-2016		CS(Mf)5	19:25	Middle	2	2	19.8	7.85		7.08	7.4	
TMCLKL	HY/2012/07	14-04-2016		CS(Mf)5	19:25	Bottom	3	1	19.9	7.76		6.86		11.3
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	CS(Mf)5	19:25	Bottom	3	2	19.8	7.76	27.4	6.82	7.47	12

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	SR4a	19:10	Surface	1	1	20.1	7.82	26.8	7.09	7.02	8.4
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	SR4a	19:10	Surface	1	2	20	7.8	26.9	7.05	7.09	8.5
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	SR4a	19:10	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	SR4a	19:10	Middle	2	2						
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	SR4a	19:10	Bottom	3	1	19.9	7.78	26.9	6.91	7.44	10.4
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	SR4a	19:10	Bottom	3	2	19.9	7.75	27	6.94	7.4	11.1
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	SR4	18:40	Surface	1	1	20.2	7.78	27	7.02	7.34	10.3
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	SR4	18:40	Surface	1	2	20.1	7.79	26.9	7.06	7.38	11.1
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	SR4	18:40	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	SR4	18:40	Middle	2	2						
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	SR4	18:40	Bottom	3	1	20	7.82	27.3	6.84	7.95	10.3
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	SR4	18:40	Bottom	3	2	19.9	7.81	27.3	6.8	7.91	11.9
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS8	18:15	Surface	1	1	20.1	7.75	26.9	7.08	6.97	9.8
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS8	18:15	Surface	1	2	20	7.74	26.8	7.05	6.94	8.3
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS8	18:15	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS8	18:15	Middle	2	2						
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS8	18:15	Bottom	3	1	20.1	7.78	27.2	6.92	7.34	10.3
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS8	18:15	Bottom	3	2	20	7.76	27.2	6.95	7.3	9.5
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS(Mf)16	17:50	Surface	1	1	20.1	7.77	26.9	7.15	7.24	10.1
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS(Mf)16	17:50	Surface	1	2	20.1	7.76	26.9	7.11	7.2	9.4
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS(Mf)16	17:50	Middle	2	1	20.1	7.83	27.1	7.01	7.67	10.7
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS(Mf)16	17:50	Middle	2	2	20	7.84	27	7.05	7.62	12.2
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS(Mf)16	17:50	Bottom	3	1	19.9	7.8	27.3	6.77	7.59	10.6
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS(Mf)16	17:50	Bottom	3	2	19.9	7.79	27.3	6.74	7.51	9.8
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS(Mf)9	17:30	Surface	1	1	20.1	7.74	27	7.18	6.97	9.1
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS(Mf)9	17:30	Surface	1	2	20.1	7.75	27	7.14	6.94	10.4
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS(Mf)9	17:30	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS(Mf)9	17:30	Middle	2	2						
TMCLKL	HY/2012/07	14-04-2016		IS(Mf)9		Bottom	3	1	19.8	7.7	27.2	7.15	7.27	8.7
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	IS(Mf)9	17:30	Bottom	3	2	19.9	7.71	27.2	7.11	7.29	10.9
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	CS(Mf)3	17:10	Surface	1	1	20.1	7.73	27.2	7.2	7.04	9.9
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	CS(Mf)3	17:10	Surface	1	2	20.2	7.74	27.2	7.24	7.08	11.3
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	CS(Mf)3	17:10	Middle	2	1	20.1	7.79	27.3	7.17	7.43	9.7
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	CS(Mf)3	17:10	Middle	2	2	20.1	7.8	27.2	7.14	7.48	9
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	CS(Mf)3	17:10	Bottom	3	1	20	7.72	27.3	7.02	7.55	11.3
TMCLKL	HY/2012/07	14-04-2016	Mid-Ebb	CS(Mf)3	17:10	Bottom	3	2	19.9	7.74	27.4	7.06	7.5	12

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	CS(Mf)5	13:21	Surface	1	1	20.4	7.78	27	7.27	7.76	11.6
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	CS(Mf)5	13:21	Surface	1	2	20.3	7.81	26.9	7.23	7.82	10.9
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	CS(Mf)5	13:21	Middle	2	1	20.2	7.74	27.2	7.08	8.01	12
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	CS(Mf)5	13:21	Middle	2	2	20.1	7.76	27.3	7.12	7.95	11.9
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	CS(Mf)5	13:21	Bottom	3	1	20	7.79	27.5	7	8.27	10.8
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	CS(Mf)5	13:21	Bottom	3	2	20	7.82	27.6	6.97	8.18	10.6
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	SR4a	13:46	Surface	1	1	20.4	7.8	27.2	7.09	7.86	11
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	SR4a	13:46	Surface	1	2	20.4	7.77	27.1	7.12	7.78	12.4
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	SR4a	13:46	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	SR4a	13:46	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	SR4a	13:46	Bottom	3	1	20.4	7.75	27.3	7.06	8.04	9.6
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	SR4a	13:46	Bottom	3	2	20.3	7.78	27.3	7.03	8.13	9.8
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	SR4	14:03	Surface	1	1	20.4	7.76	27.1	7.04	7.99	11.2
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	SR4	14:03	Surface	1	2	20.5	7.78	27	7	7.82	10.2
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	SR4	14:03	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	SR4	14:03	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	SR4	14:03	Bottom	3	1	20.4	7.73	27.1	7.11	8.01	12.8
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	SR4	14:03	Bottom	3	2	20.4	7.71	27.2	7.07	7.9	10.3
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS8	14:20	Surface	1	1	20.5	7.83	27	7.13	7.8	11.7
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS8	14:20	Surface	1	2	20.5	7.8	27	7.16	7.88	10.2
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS8	14:20	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS8	14:20	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS8	14:20	Bottom	3	1	20.5	7.78	27.1	7.08	7.99	12
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS8	14:20	Bottom	3	2	20.4	7.75	27.1	7.1	8.05	11.3
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS(Mf)16	14:39	Surface	1	1	20.5	7.87	27	7.22	7.77	10.1
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS(Mf)16	14:39	Surface	1	2	20.4	7.83	27.1	7.18	7.83	11
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS(Mf)16	14:39	Middle	2	1	20.4	7.81	27.1	7.15	8	10.4
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS(Mf)16	14:39	Middle	2	2	20.4	7.84	27.1	7.13	7.94	10.3
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS(Mf)16	14:39	Bottom	3	1	20.3	7.77	27.3	7.04	8.31	12.5
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS(Mf)16	14:39	Bottom	3	2	20.4	7.8	27.3	7.06	8.23	11.5
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS(Mf)9	15:01	Surface	1	1	20.5	7.74	26.9	7.18	7.68	10
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS(Mf)9	15:01	Surface	1	2	20.5	7.71	27	7.22	7.74	11.6
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS(Mf)9	15:01	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2016		IS(Mf)9	15:01	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS(Mf)9	15:01	Bottom	3	1	20.4	7.73	27	7.05	7.88	11.8
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	IS(Mf)9	15:01	Bottom	3	2	20.4	7.7	27.1	7.02	7.95	10.3

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	CS(Mf)3	15:21	Surface	1	1	20.5	7.79	27.1	7.27	7.92	11.9
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	CS(Mf)3	15:21	Surface	1	2	20.6	7.83	27	7.23	7.84	12.5
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	CS(Mf)3	15:21	Middle	2	1	20.5	7.74	27.2	7.21	8.08	12.1
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	CS(Mf)3	15:21	Middle	2	2	20.4	7.76	27.2	7.18	8.15	10.6
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	CS(Mf)3	15:21	Bottom	3	1	20.4	7.77	27.3	6.94	8.4	11.8
TMCLKL	HY/2012/07	16-04-2016	Mid-Flood	CS(Mf)3	15:21	Bottom	3	2	20.4	7.81	27.4	6.97	8.49	11
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	CS(Mf)5	11:30	Surface	1	1	20.1	7.8	27	7.09	7.55	9.8
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	CS(Mf)5	11:30	Surface	1	2	20.1	7.81	27.1	7.13	7.51	12
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	CS(Mf)5	11:30	Middle	2	1	20	7.83	27.4	6.97	7.97	12
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	CS(Mf)5	11:30	Middle	2	2	20	7.82	27.4	6.95	7.94	11.9
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	CS(Mf)5	11:30	Bottom	3	1	19.9	7.85	27.4	6.9	8.02	10.4
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	CS(Mf)5	11:30	Bottom	3	2	19.9	7.84	27.5	6.96	8.06	10.5
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	SR4a	11:07	Surface	1	1	20.2	7.79	27.2	7.15	7.74	10.1
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	SR4a	11:07	Surface	1	2	20.1	7.78	27.1	7.18	7.7	10
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	SR4a	11:07	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	SR4a	11:07	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	SR4a	11:07	Bottom	3	1	20.1	7.77	27.3	7.01	7.97	12
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	SR4a	11:07	Bottom	3	2	20.1	7.75	27.2	7.05	7.94	11.9
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	SR4	10:45	Surface	1	1	20.2	7.84	27	7.18	8.04	11.3
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	SR4	10:45	Surface	1	2	20.2	7.85	26.9	7.14	8.08	12.9
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	SR4	10:45	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	SR4	10:45	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	SR4	10:45	Bottom	3	1	20.1	7.8	27.2	6.95	8.27	10.5
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	SR4	10:45	Bottom	3	2	20.1	7.81	27.3	6.98	8.33	11.7
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS8	10:28	Surface	1	1	20.3	7.75	27	7.21	8.15	11.4
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS8	10:28	Surface	1	2	20.2	7.78	27.1	7.18	8.11	10.5
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS8	10:28	Middle	2	1						
	HY/2012/07	16-04-2016	Mid-Ebb	IS8	10:28	Middle	2	2						
	HY/2012/07	16-04-2016		IS8		Bottom	3	1	20.1	7.8	27.2	7.03	8.33	12.5
TMCLKL	HY/2012/07	16-04-2016		IS8	10:28	Bottom	3	2	20.1			7.05	8.27	11.6
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS(Mf)16	10:07	Surface	1	1	20.3	7.74	27.1	7.24	7.95	10.3
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS(Mf)16	10:07	Surface	1	2	20.3	7.77	27.1	7.27	7.99	11.2
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS(Mf)16	10:07	Middle	2	1	20.1	7.82	27.3	7.11	8.37	12.6
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS(Mf)16	10:07	Middle	2	2	20	7.81	27.4	7.15	8.34	12.5
	HY/2012/07	16-04-2016	Mid-Ebb	IS(Mf)16	10:07	Bottom	3	1	20.1	7.8	27.4	6.92	8.67	13.9
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS(Mf)16	10:07	Bottom	3	2	20.1	7.81	27.4	6.96	8.62	11.2

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS(Mf)9	9:50	Surface	1	1	20.2	7.78	27	7.09	7.9	12.6
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS(Mf)9	9:50	Surface	1	2	20.3	7.79	27.1	7.05	7.96	11.1
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS(Mf)9	9:50	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS(Mf)9	9:50	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS(Mf)9	9:50	Bottom	3	1	20.1	7.8	27.3	6.99	8.17	13.1
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	IS(Mf)9	9:50	Bottom	3	2	20.1	7.81	27.2	6.97	8.1	10.5
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	CS(Mf)3	9:30	Surface	1	1	20.3	7.82	27.1	7.15	8.04	10.5
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	CS(Mf)3	9:30	Surface	1	2	20.3	7.81	27.1	7.12	8.08	12.1
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	CS(Mf)3	9:30	Middle	2	1	20.1	7.8		7.01	8.43	11
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	CS(Mf)3	9:30	Middle	2	2	20	7.8	27.3	7.04	8.48	13.6
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	CS(Mf)3	9:30	Bottom	3	1	20	7.85	27.4	6.88	8.82	11.5
TMCLKL	HY/2012/07	16-04-2016	Mid-Ebb	CS(Mf)3	9:30	Bottom	3	2	19.9	7.86	27.5	6.84	8.78	12.3
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	CS(Mf)5	16:02	Surface	1	1	20.6	7.78	27.3	7.25	7.76	10.1
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	CS(Mf)5	16:02	Surface	1	2	20.5	7.74	27.2	7.27	7.71	10
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	CS(Mf)5	16:02	Middle	2	1	20.4	7.82	27.4	7.17	7.98	10.4
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	CS(Mf)5	16:02	Middle	2	2	20.5	7.79	27.3	7.14	7.89	12.6
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	CS(Mf)5	16:02	Bottom	3	1	20.4	7.72	27.5	7.11	8.16	11.4
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	CS(Mf)5	16:02	Bottom	3	2	20.3	7.75	27.4	7.08	8.23	12.3
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	SR4a	16:29	Surface	1	1	20.5	7.82	27.3	7.11	7.61	10.7
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	SR4a	16:29	Surface	1	2	20.6	7.8	27.4	7.14	7.72	12.4
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	SR4a	16:29	Middle	2	1						
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	SR4a	16:29	Middle	2	2						
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	SR4a	16:29	Bottom	3	1	20.5	7.78	27.3	7.05	7.86	11.8
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	SR4a	16:29	Bottom	3	2	20.5	7.75	27.4	7.08	7.91	12.7
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	SR4	16:44	Surface	1	1	20.7	7.78	27.3	7.08	7.84	10.2
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	SR4	16:44	Surface	1	2	20.6	7.74	27.4	7.04	7.89	11
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	SR4	16:44	Middle	2	1						
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	SR4	16:44	Middle	2	2	,					
	HY/2012/07	19-04-2016		SR4	16:44	Bottom	3	1	20.5	7.72	27.5		7.92	10.3
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	SR4	16:44	Bottom	3	2	20.4	7.76	27.4	6.97	7.97	9.6
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS8	17:02	Surface	1	1	20.6	7.83	27.3	7.16	7.68	9.9
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS8	17:02	Surface	1	2	20.5	7.79	27.2	7.18	7.58	11.4
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS8	17:02	Middle	2	1						
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS8	17:02	Middle	2	2						
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS8	17:02	Bottom	3	1	20.4	7.75	27.4	7.13	7.74	11.6
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS8	17:02	Bottom	3	2	20.5	7.71	27.4	7.12	7.83	12.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS(Mf)16	17:19	Surface	1	1	20.5	7.84	27.4	7.17	7.81	11.7
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS(Mf)16	17:19	Surface	1	2	20.6	7.89	27.3	7.2	7.71	10.8
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS(Mf)16	17:19	Middle	2	1	20.5	7.8	27.5	7.13	7.92	11.1
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS(Mf)16	17:19	Middle	2	2	20.6	7.82	27.4	7.17	7.83	10.2
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS(Mf)16	17:19	Bottom	3	1	20.4	7.73	27.7	7.08	8.14	11.4
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS(Mf)16	17:19	Bottom	3	2	20.5	7.74	27.6	7.09	8.22	12.3
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS(Mf)9	17:39	Surface	1	1	20.5	7.82	27.3	7.19	7.76	10.9
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS(Mf)9		Surface	1	2	20.4	7.8	27.2	7.16	7.64	11.5
TMCLKL	HY/2012/07	19-04-2016		IS(Mf)9	17:39	Middle	2	1						
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS(Mf)9		Middle	2	2						
TMCLKL	HY/2012/07	19-04-2016		IS(Mf)9		Bottom	3	1	20.3	7.76	27.4	7.12	7.83	10.2
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	IS(Mf)9	17:39	Bottom	3	2	20.4	7.78	27.3	7.09	7.86	12.6
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	CS(Mf)3	18:04	Surface	1	1	20.5	7.82	27.4	7.23	7.74	10.1
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	CS(Mf)3	18:04	Surface	1	2	20.6	7.84	27.3	7.21	7.79	11.7
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	CS(Mf)3	18:04	Middle	2	1	20.5	7.76	27.5	7.16	7.85	11
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	CS(Mf)3	18:04	Middle	2	2	20.4	7.71	27.4	7.18	7.91	11.1
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	CS(Mf)3	18:04	Bottom	3	1	20.3	7.85	27.5	7.09	8.11	10.5
TMCLKL	HY/2012/07	19-04-2016	Mid-Flood	CS(Mf)3	18:04	Bottom	3	2	20.2	7.88	27.6	7.06	8.02	12
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	CS(Mf)5	13:19	Surface	1	1	20.4	7.84	27	7.18	7.82	10.2
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	CS(Mf)5	13:19	Surface	1	2	20.5	7.87	27.1	7.14	7.88	9.5
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	CS(Mf)5	13:19	Middle	2	1	20.3	7.8	27.3	6.99	8.07	11.3
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	CS(Mf)5		Middle	2	2	20.2	7.82	27.4	7.03	8.01	11.2
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	CS(Mf)5	13:19	Bottom	3	1	20.1	7.85	27.7	6.91	8.33	12.5
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	CS(Mf)5	13:19	Bottom	3	2	20	7.88	27.6	6.88	8.24	10.7
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	SR4a	12:55	Surface	1	1	20.5	7.86	27.2	7	7.92	11.1
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	SR4a	12:55	Surface	1	2	20.4	7.83	27.3	7.03	7.84	11
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	SR4a	12:55	Middle	2	1						
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	SR4a	12:55	Middle	2	2						
	HY/2012/07	19-04-2016		SR4a		Bottom	3	1	20.4	7.81	27.4	6.97	8.1	12.2
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	SR4a	12:55	Bottom	3	2	20.3			6.94	8.19	13.1
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	SR4	12:33	Surface	1	1	20.6	7.82	27.2	6.95	8.05	10.5
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	SR4		Surface	1	2	20.5	7.84	27.1	6.91	7.88	11
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	SR4	12:33	Middle	2	1						
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	SR4	12:33	Middle	2	2						
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	SR4	12:33	Bottom	3	1	20.4	7.79	27.2	7.02	8.07	12.1
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	SR4	12:33	Bottom	3	2	20.5	7.77	27.3	6.98	7.96	9.6

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS8	12:11	Surface	1	1	20.6	7.89	27.1	7.04	7.86	11
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS8	12:11	Surface	1	2	20.5	7.86	27	7.07	7.94	12.7
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS8	12:11	Middle	2	1						
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS8	12:11	Middle	2	2						
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS8	12:11	Bottom	3	1	20.5	7.84	27.1	6.99	7.98	11.2
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS8	12:11	Bottom	3	2	20.5	7.81	27.2	7.01	7.96	11.1
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS(Mf)16	11:49	Surface	1	1	20.6	7.93	27.1	7.13	7.83	10.2
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS(Mf)16	11:49	Surface	1	2	20.5	7.89	27.2	7.09	7.89	10.3
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS(Mf)16	11:49	Middle	2	1	20.4	7.87	27.2	7.06	8.06	11.3
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS(Mf)16	11:49	Middle	2	2	20.5	7.9	27.3	7.04	8	12
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS(Mf)16	11:49	Bottom	3	1	20.4	7.83	27.3	6.95	8.37	10.9
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS(Mf)16	11:49	Bottom	3	2	20.3	7.86	27.4	6.97	8.29	10.8
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS(Mf)9	11:27	Surface	1	1	20.6	7.8	27	7.09	7.74	9.3
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS(Mf)9	11:27	Surface	1	2	20.5	7.77	27.1	7.13	7.8	10.1
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS(Mf)9	11:27	Middle	2	1						
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS(Mf)9	11:27	Middle	2	2						
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS(Mf)9	11:27	Bottom	3	1	20.5	7.79	27.1	6.96	7.94	10.3
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	IS(Mf)9	11:27	Bottom	3	2	20.4	7.76	27.2	6.93	8.01	12
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	CS(Mf)3	11:05	Surface	1	1	20.7	7.85	27.1	7.18	7.98	12.8
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	CS(Mf)3	11:05	Surface	1	2	20.6	7.89	27.2	7.14	8	12.8
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	CS(Mf)3	11:05	Middle	2	1	20.5	7.8	27.3	7.12	8.14	9.8
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	CS(Mf)3	11:05	Middle	2	2	20.6	7.82	27.2	7.09	8.21	11.5
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	CS(Mf)3	11:05	Bottom	3	1	20.5	7.83	27.4	6.85	8.46	12.7
TMCLKL	HY/2012/07	19-04-2016	Mid-Ebb	CS(Mf)3	11:05	Bottom	3	2	20.4	7.87	27.5	6.88	8.55	13.7
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	CS(Mf)5	17:21	Surface	1	1	20.6	7.75	27.2	7.24	8.73	11.3
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	CS(Mf)5	17:21	Surface	1	2	20.5	7.78	27.1	7.2	8.79	13.2
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	CS(Mf)5	17:21	Middle	2	1	20.5	7.71	27.4	7.05	8.98	11.7
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	CS(Mf)5	17:21	Middle	2	2	20.4	7.73	27.3	7.09	8.92	10.7
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	CS(Mf)5	17:21	Bottom	3	1	20.1	7.76	27.5	6.97	9.24	14.8
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	CS(Mf)5	17:21	Bottom	3	2	20.2	7.79	27.6	6.94	9.15	13.7
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	SR4a	17:43	Surface	1	1	20.6	7.77	27.3	7.06	8.83	13.2
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	SR4a	17:43	Surface	1	2	20.6	7.74	27.4	7.09	8.75	11.4
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	SR4a	17:43	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	SR4a	17:43	Middle	2	2						
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	SR4a	17:43	Bottom	3	1	20.5	7.72	27.5	7.03	9.01	10.8
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	SR4a	17:43	Bottom	3	2	20.4	7.75	27.4	7	9.1	10.9

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	SR4	18:05	Surface	1	1	20.7	7.73	27.2	7.01	7.96	11.9
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	SR4	18:05	Surface	1	2	20.6	7.75	27.3	6.97	7.94	11.9
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	SR4	18:05	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	SR4	18:05	Middle	2	2						
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	SR4	18:05	Bottom	3	1	20.6	7.7	27.4	7.08	7.98	12
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	SR4	18:05	Bottom	3	2	20.5	7.68	27.3	7.04	7.87	11.8
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS8	18:27	Surface	1	1	20.6	7.8	27.1	7.1	8.77	11.4
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS8	18:27	Surface	1	2	20.7	7.77	27.2	7.13	8.85	12.4
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS8	18:27	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS8	18:27	Middle	2	2						
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS8	18:27	Bottom	3	1	20.6	7.75	27.2	7.05	8.89	14.2
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS8	18:27	Bottom	3	2	20.6	7.72	27.3	7.07	8.87	14.2
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS(Mf)16	18:49	Surface	1	1	20.7	7.84	27.2	7.19	8.74	13.1
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS(Mf)16	18:49	Surface	1	2	20.6	7.8	27.3	7.15	8.8	12.3
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS(Mf)16	18:49	Middle	2	1	20.6	7.78	27.4	7.12	8.97	10.8
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS(Mf)16	18:49	Middle	2	2	20.5	7.81	27.3	7.1	8.91	10.7
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS(Mf)16	18:49	Bottom	3	1	20.4	7.74	27.4	7.01	9.28	14.8
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS(Mf)16	18:49	Bottom	3	2	20.3	7.77	27.5	7.03	9.2	12.9
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS(Mf)9	19:11	Surface	1	1	20.7	7.71	27.1	7.15	8.65	13.8
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS(Mf)9	19:11	Surface	1	2	20.6	7.68	27.2	7.19	8.71	13.1
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS(Mf)9	19:11	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS(Mf)9	19:11	Middle	2	2						
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS(Mf)9	19:11	Bottom	3	1	20.6	7.7	27.2	7.02	8.85	14.2
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	IS(Mf)9	19:11	Bottom	3	2	20.5	7.67	27.3	6.99	8.92	13.4
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	CS(Mf)3	19:35	Surface	1	1	20.8	7.76	27.2	7.24	8.89	14.2
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	CS(Mf)3	19:35	Surface	1	2	20.7	7.8	27.3	7.2	8.91	11.6
TMCLKL	HY/2012/07	21-04-2016		CS(Mf)3	19:35	Middle	2	1	20.7	7.71	27.3	7.18	9.05	13.6
	HY/2012/07	21-04-2016		CS(Mf)3	19:35	Middle	2	2	20.6	7.73	27.4	7.15	9.12	11.9
	HY/2012/07	21-04-2016		CS(Mf)3		Bottom	3	1	20.5	7.74	27.6	6.91	9.37	15
TMCLKL	HY/2012/07	21-04-2016	Mid-Flood	CS(Mf)3	19:35	Bottom	3	2	20.5			6.94	9.46	12.3
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	CS(Mf)5	14:05	Surface	1	1	20.6	7.69	27.1	7.34	8.6	10.3
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	CS(Mf)5	14:05	Surface	1	2	20.7	7.73	27.1	7.31	8.69	11.3
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	CS(Mf)5	14:05	Middle	2	1	20.6	7.6	27.2	7.18	8.74	11.4
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	CS(Mf)5	14:05	Middle	2	2	20.6	7.61	27.3	7.15	8.81	11.5
	HY/2012/07	21-04-2016	Mid-Ebb	CS(Mf)5	14:05	Bottom	3	1	20.4	7.67	27.5	7.02	9.03	10.8
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	CS(Mf)5	14:05	Bottom	3	2	20.3	7.63	27.5	6.99	9.11	13.7

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	SR4a	13:40	Surface	1	1	20.6	7.73	27.2	7.18	8.72	13.1
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	SR4a	13:40	Surface	1	2	20.5	7.7	27.1	7.21	8.64	13.8
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	SR4a	13:40	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	SR4a	13:40	Middle	2	2						
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	SR4a	13:40	Bottom	3	1	20.6	7.74	27.3	7.09	8.92	11.6
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	SR4a	13:40	Bottom	3	2	20.6	7.7	27.4	7.11	8.99	11.7
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	SR4	13:21	Surface	1	1	20.6	7.74	27.1	7.18	8.3	12.5
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	SR4	13:21	Surface	1	2	20.7	7.71	27.1	7.15	8.16	12.2
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	SR4	13:21	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	SR4	13:21	Middle	2	2	,					
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	SR4	13:21	Bottom	3	1	20.6	7.81	27.1	7.06	8.02	12
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	SR4	13:21	Bottom	3	2	20.6	7.77	27.2	7.09	7.97	10.4
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS8	13:03	Surface	1	1	20.6	7.78	27	7.24	8.64	11.2
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS8	13:03	Surface	1	2	20.6	7.75	27.1	7.22	8.58	12.9
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS8	13:03	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS8	13:03	Middle	2	2	,					
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS8	13:03	Bottom	3	1	20.6	7.81	27.2	7.1	8.88	13.3
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS8	13:03	Bottom	3	2	20.5	7.78	27.2	7.14	8.79	13.2
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS(Mf)16	12:42	Surface	1	1	20.6	7.79	27.1	7.08	8.48	12.7
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS(Mf)16	12:42	Surface	1	2	20.5	7.82	27.2	7.13	8.55	11.1
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS(Mf)16	12:42	Middle	2	1	20.6	7.73	27.3	7.15	8.7	13.9
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS(Mf)16		Middle	2	2	20.6	7.75	27.3	7.11	8.77	11.4
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS(Mf)16	12:42	Bottom	3	1	20.5	7.76	27.5	6.86	9.09	12.7
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS(Mf)16	12:42	Bottom	3	2	20.5	7.71	27.6	6.89	9.16	11
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS(Mf)9	12:22	Surface	1	1	20.5	7.69	27	7.2	8.29	13.3
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS(Mf)9	12:22	Surface	1	2	20.6	7.73	26.9	7.17	8.33	11.7
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS(Mf)9	12:22	Middle	2	1						
	HY/2012/07	21-04-2016	Mid-Ebb	IS(Mf)9	12:22	Middle	2	2	,					
	HY/2012/07	21-04-2016		IS(Mf)9		Bottom	3	1	20.6	7.7	27.1	7.08	8.64	12.1
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	IS(Mf)9	12:22	Bottom	3	2	20.6			7.11	8.55	12
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	CS(Mf)3	12:00	Surface	1	1	20.6	7.79	27.1	7.09	8.49	12.7
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	CS(Mf)3	12:00	Surface	1	2	20.7	7.76	27	7.13	8.57	13.7
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	CS(Mf)3	12:00	Middle	2	1	20.7	7.7	27.2	7.17	8.8	12.3
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	CS(Mf)3	12:00	Middle	2	2	20.7	7.73	27.3	7.15	8.92	11.6
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	CS(Mf)3	12:00	Bottom	3	1	20.6	7.74	27.5	6.92	9.08	12.7
TMCLKL	HY/2012/07	21-04-2016	Mid-Ebb	CS(Mf)3	12:00	Bottom	3	2	20.5	7.71	27.5	6.88	9.14	11.9

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	CS(Mf)5	7:05	Surface	1	1	. 21	7.68	27.1	7.39	7.93	11.1
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	CS(Mf)5	7:05	Surface	1	2	21	7.7	27.1	7.41	7.99	10.4
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	CS(Mf)5	7:05	Middle	2	1	20.9	8.14	27.2	7.24	8.16	12.2
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	CS(Mf)5	7:05	Middle	2	2	20.8	8.16	27.3	7.22	8.18	12.3
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	CS(Mf)5	7:05	Bottom	3	1	20.7	8	27.4	7.16	8.3	11.6
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	CS(Mf)5	7:05	Bottom	3	2	20.6	8.02	27.4	7.14	8.32	11.6
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	SR4a	7:25	Surface	1	1	20.9	7.84	26.9	7.19	7.74	10.1
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	SR4a	7:25	Surface	1	2	20.8	7.82	27	7.21	7.76	11.6
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	SR4a	7:25	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	SR4a	7:25	Middle	2	2	2					
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	SR4a	7:25	Bottom	3	1	20.7	8.03	27.1	7.04	7.81	10.2
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	SR4a	7:25	Bottom	3	2	20.7	8.05	27.2	7.06	7.83	
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	SR4	7:40	Surface	1	1	. 21	7.84	27.1	7.29	7.65	9.2
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	SR4	7:40	Surface	1	2	20.9	7.86	27.2	7.31	7.67	9.2
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	SR4	7:40	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	SR4	7:40	Middle	2	2)					
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	SR4	7:40	Bottom	3	1	20.7	8.14	27.3	7.2	7.82	10.9
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	SR4	7:40	Bottom	3	2	20.8	8.16	27.4	7.28	7.84	12.5
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS8	8:03	Surface	1	1	20.9	8.03	27	7.18	8.05	11.3
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS8	8:03	Surface	1	2	20.9	8.05	26.9	7.2	8.07	11.3
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS8	8:03	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS8	8:03	Middle	2	2)					
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS8	8:03	Bottom	3	1	20.8	7.92	27.1	7.04	8.14	13
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS8	8:03	Bottom	3	2	20.7	7.94	27.2	7.06	8.16	10.6
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS(Mf)16	8:25	Surface	1	1	. 21	7.83	27.1	7.38	8.24	10.7
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS(Mf)16	8:25	Surface	1	2	21	7.85	27	7.36	8.26	10.7
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS(Mf)16	8:25	Middle	2	1	20.9	7.92	27.2	7.25	8.33	11.7
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS(Mf)16	8:25	Middle	2	2	20.8	7.94	27.2	7.25	8.35	11.7
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS(Mf)16	8:25	Bottom	3	1	20.7	8.15	27.3	7.11	8.4	10.9
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS(Mf)16	8:25	Bottom	3	2	20.7	8.17	27.4	7.13	8.42	10.9
	HY/2012/07	23-04-2016	Mid-Flood	IS(Mf)9		Surface	1	1	. 21	7.69		7.19	7.68	
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS(Mf)9	8:47	Surface	1	2	20.9	7.71	27.1	7.21	7.7	10.8
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS(Mf)9	8:47	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS(Mf)9	8:47	Middle	2	2						
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS(Mf)9		Bottom	3	1	20.8	7.82	27.3	7.03	7.43	11.9
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	IS(Mf)9	8:47	Bottom	3	2	20.7	7.84	27.3	7.05	7.45	

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	CS(Mf)3	9:10	Surface	1	1	21	8.13	27.1	7.32	8.13	12.2
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	CS(Mf)3	9:10	Surface	1	2	21	8.15	27.2	7.34	8.15	
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	CS(Mf)3	9:10	Middle	2	1	20.9	7.92	27.3	7.16	8.3	10.8
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	CS(Mf)3	9:10	Middle	2	2	20.8	7.94	27.3	7.14	8.32	12.5
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	CS(Mf)3	9:10	Bottom	3	1	20.7	8.01	27.4	7.07	8.45	12.7
TMCLKL	HY/2012/07	23-04-2016	Mid-Flood	CS(Mf)3	9:10	Bottom	3	2	20.6	8.03	27.5	7.09	8.47	11.9
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	CS(Mf)5	14:12	Surface	1	1	20.8	7.81	27.2	7.15	8.79	
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	CS(Mf)5	14:12	Surface	1	2	20.7	7.84	27.3	7.11	8.85	13.3
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	CS(Mf)5	14:12	Middle	2	1	20.5	7.77	27.4	6.96	9.04	11.8
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	CS(Mf)5	14:12	Middle	2	2	20.6	7.79	27.5	7	8.98	10.8
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	CS(Mf)5	14:12	Bottom	3	1	20.3	7.82	27.7	6.88	9.3	13
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	CS(Mf)5	14:12	Bottom	3	2	20.2	7.85	27.6	6.85	9.21	13.8
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	SR4a	13:48	Surface	1	1	20.7	7.83	27.4	6.97	8.89	13.3
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	SR4a	13:48	Surface	1	2	20.6	7.8	27.5	7	8.81	12.3
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	SR4a	13:48	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	SR4a	13:48	Middle	2	2	,					
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	SR4a	13:48	Bottom	3	1	20.6	7.78	27.6	6.94	9.07	13.6
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	SR4a	13:48	Bottom	3	2	20.5	7.81	27.5	6.91	9.16	12.8
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	SR4	13:26	Surface	1	1	20.8	7.79	27.3	6.92	8.02	11.2
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	SR4	13:26	Surface	1	2	20.7	7.81	27.4	6.88	8	11.2
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	SR4	13:26	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	SR4	13:26	Middle	2	2	,					
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	SR4	13:26	Bottom	3	1	20.7	7.76	27.4	6.99	9.04	13.6
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	SR4	13:26	Bottom	3	2	20.6	7.74	27.5	6.95	8.94	10.7
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS8	13:04	Surface	1	1	20.7	7.86	27.2	7.01	8.83	14.1
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS8	13:04	Surface	1	2	20.8	7.83	27.3	7.04	9.01	14.4
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS8	13:04	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS8	13:04	Middle	2	2	,					
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS8	13:04	Bottom	3	1	20.7	7.81	27.4	6.96	8.95	11.6
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS8	13:04	Bottom	3	2	20.6	7.78	27.3	6.98	8.93	12.5
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS(Mf)16	12:42	Surface	1	1	20.8	7.9	27.3	7.1	8.8	14.1
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS(Mf)16	12:42	Surface	1	2	20.7	7.86	27.4	7.06	8.86	11.5
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS(Mf)16	12:42	Middle	2	1	20.7	7.84	27.4	7.03	9.03	11.7
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS(Mf)16	12:42	Middle	2	2	20.6	7.87	27.5	7.01	8.97	10.8
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS(Mf)16	12:42	Bottom	3	1	20.5	7.8	27.6	6.92	9.34	12.1
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS(Mf)16	12:42	Bottom	3	2	20.5	7.83	27.5	6.94	9.26	13.9

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS(Mf)9	12:20	Surface	1	1	20.7	7.77	27.2	7.06	8.71	13.9
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS(Mf)9	12:20	Surface	1	2	20.8	7.74	27.3	7.1	8.77	13.2
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS(Mf)9	12:20	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS(Mf)9	12:20	Middle	2	2	,					
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS(Mf)9	12:20	Bottom	3	1	20.7	7.76	27.3	6.93	8.91	12.5
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	IS(Mf)9	12:20	Bottom	3	2	20.6	7.73	27.4	6.9	8.98	13.5
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	CS(Mf)3	11:58	Surface	1	1	20.9	7.82	27.3	7.15	8.95	13.4
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	CS(Mf)3	11:58	Surface	1	2	20.8	7.86	27.4	7.11	8.97	14.4
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	CS(Mf)3	11:58	Middle	2	1	20.7	7.77	27.5	7.09	9.11	13.7
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	CS(Mf)3	11:58	Middle	2	2	20.8	7.79	27.4	7.06	9.18	11.9
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	CS(Mf)3	11:58	Bottom	3	1	20.6	7.8	27.6	6.82	9.43	14.1
TMCLKL	HY/2012/07	23-04-2016	Mid-Ebb	CS(Mf)3	11:58	Bottom	3	2	20.5	7.84	27.7	6.85	9.52	
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	CS(Mf)5	7:59	Surface	1	1	20.6	7.83	27.6	7.12	8.73	12.2
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	CS(Mf)5	7:59	Surface	1	2	20.7	7.8	27.5	7.13	8.84	12.4
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	CS(Mf)5	7:59	Middle	2	1	20.7	7.78	27.7	7.04	8.67	13
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	CS(Mf)5	7:59	Middle	2	2	20.6	7.74	27.6	7.01	8.61	12.1
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	CS(Mf)5	7:59	Bottom	3	1	20.4	7.85	27.7	6.93	8.93	12.5
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	CS(Mf)5	7:59	Bottom	3	2	20.3	7.86	27.8	6.91	8.99	14.4
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	SR4a	8:20	Surface	1	1	20.8	7.85	27.5	6.95	7.87	11.8
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	SR4a	8:20	Surface	1	2	20.5	7.88	27.4	6.94	7.82	10.9
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	SR4a	8:20	Middle	2	1						
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	SR4a	8:20	Middle	2	2	,					
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	SR4a	8:20	Bottom	3	1	20.5	7.84	27.6	6.87	7.94	11.9
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	SR4a	8:20	Bottom	3	2	20.4	7.83	27.5	6.84	8.01	12
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	SR4	8:44	Surface	1	1	20.7	7.89	27.5	6.94	7.96	
TMCLKL	HY/2012/07	26-04-2016		SR4	8:44	Surface	1	2	20.6	7.84	27.6	6.96	7.89	10.3
	HY/2012/07	26-04-2016		SR4	8:44	Middle	2	1						
	HY/2012/07	26-04-2016	Mid-Flood	SR4	8:44	Middle	2	2	,					
	HY/2012/07	26-04-2016		SR4		Bottom	3	1	20.6				8.26	
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	SR4	8:44	Bottom	3	2	20.5	7.81	27.7	6.85	8.34	13.3
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS8	9:02	Surface	1	1	20.6	7.86	27.5	7.03	7.74	12.4
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS8	9:02	Surface	1	2	20.6	7.85	27.4	7.07	7.81	10.9
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS8	9:02	Middle	2	1						
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS8	9:02	Middle	2	2	,					
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS8	9:02	Bottom	3	1	20.6	7.82	27.6	6.93	8.25	10.7
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS8	9:02	Bottom	3	2	20.5	7.29	27.5	6.91	8.31	10.3

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS(Mf)16	9:19	Surface	1	1	20.7	7.79	27.6	7.18	8.01	11.2
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS(Mf)16	9:19	Surface	1	2	20.6	7.83	27.5	7.19	8.09	12.1
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS(Mf)16	9:19	Middle	2	1	20.6	7.86	27.7	7.12	7.92	12.7
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS(Mf)16	9:19	Middle	2	2	20.5	7.09	27.6	7.08	7.84	11.8
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS(Mf)16	9:19	Bottom	3	1	20.5	7.85	27.6	7.01	8.16	
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS(Mf)16	9:19	Bottom	3	2	20.5	7.81	27.9	6.97	8.23	10.7
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS(Mf)9	9:40	Surface	1	1	20.7	7.74	27.5	7.08	8.43	13.5
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS(Mf)9	9:40	Surface	1	2	20.6	7.7	27.6	7.06	8.49	11
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS(Mf)9	9:40	Middle	2	1						
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS(Mf)9	9:40	Middle	2	2	,					
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS(Mf)9	9:40	Bottom	3	1	20.6	7.76	27.7	6.95	8.65	
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	IS(Mf)9	9:40	Bottom	3	2	20.6	7.78		6.97	8.73	
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	CS(Mf)3	10:05	Surface	1	1	20.7	7.83	27.5	7.15	8.74	
TMCLKL	HY/2012/07	26-04-2016		CS(Mf)3	10:05	Surface	1	2	20.6	7.87	27.4	7.11	8.81	14.1
TMCLKL	HY/2012/07	26-04-2016		CS(Mf)3	10:05	Middle	2	1	20.5	7.82		7.06	8.43	
TMCLKL	HY/2012/07	26-04-2016		CS(Mf)3	10:05	Middle	2	2		7.81	27.7	7.08	8.36	
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	CS(Mf)3	10:05	Bottom	3	1	20.4	7.75		6.89	8.69	
TMCLKL	HY/2012/07	26-04-2016	Mid-Flood	CS(Mf)3	10:05	Bottom	3	2	20.3	7.79	27.7	6.86	8.74	11.4
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	CS(Mf)5	15:50	Surface	1	1	20.9	7.87	27.3	7.06	7.85	10.2
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	CS(Mf)5	15:50	Surface	1	2	20.9			7.02	7.91	10.3
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	CS(Mf)5	15:50	Middle	2	1	20.7	7.83		6.87	8.1	13
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	CS(Mf)5		Middle	2	2	20.6	7.85		6.91	8.04	
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	CS(Mf)5	15:50	Bottom	3	1	20.5	7.88	27.7	6.79	8.36	
TMCLKL	HY/2012/07	26-04-2016		CS(Mf)5	15:50	Bottom	3	2	2011	7.91	27.8	6.76	8.27	11.6
TMCLKL	HY/2012/07	26-04-2016		SR4a	15:26	Surface	1	1	20.8	7.89	27.5	6.88	7.95	
	HY/2012/07	26-04-2016		SR4a	15:26	Surface	1	2	20.7	7.86	27.6	6.91	7.87	11
	HY/2012/07	26-04-2016	Mid-Ebb	SR4a		Middle	2	1						
	HY/2012/07	26-04-2016	Mid-Ebb	SR4a	15:26	Middle	2	2	,					
	HY/2012/07	26-04-2016		SR4a		Bottom	3	1	20.7	7.84		6.85	8.13	
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	SR4a	15:26	Bottom	3	2	20.0			6.82		
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	SR4	15:04	Surface	1	1	20.8	7.85	27.4	6.83	8.08	
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	SR4		Surface	1	2	20.9	7.87	27.5	6.79	8.06	12.1
	HY/2012/07	26-04-2016		SR4		Middle	2	1						
	HY/2012/07	26-04-2016	Mid-Ebb	SR4		Middle	2	2	,					
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	SR4	15:04	Bottom	3	1	20.7	7.82	27.6	6.9	9.1	13.7
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	SR4	15:04	Bottom	3	2	20.7	7.8	27.5	6.86	9	13.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS8	14:42	Surface	1	1	20.8	7.92	27.3	6.92	7.89	11
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS8	14:42	Surface	1	2	20.8	7.89	27.4	6.95	8.07	11.3
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS8	14:42	Middle	2	1						
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS8	14:42	Middle	2	2						
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS8	14:42	Bottom	3	1	20.7	7.87	27.5	6.87	9.01	12.6
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS8	14:42	Bottom	3	2	20.6	7.84	27.4	6.89	8.89	14.2
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS(Mf)16	14:20	Surface	1	1	20.9	7.96	27.4	7.01	7.86	11
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS(Mf)16	14:20	Surface	1	2	20.8	7.92	27.5	6.97	7.92	9.5
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS(Mf)16	14:20	Middle	2	1	20.8	7.9	27.6	6.94	8.09	12.9
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS(Mf)16	14:20	Middle	2	2	20.7	7.93	27.5	6.92	8.03	12
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS(Mf)16	14:20	Bottom	3	1	20.6	7.86	27.7	6.83	8.4	11.8
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS(Mf)16	14:20	Bottom	3	2	20.5	7.89	27.8	6.85	8.32	12.5
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS(Mf)9	13:58	Surface	1	1	20.9	7.83	27.3	6.97	8.62	11.2
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS(Mf)9	13:58	Surface	1	2	20.8	7.8	27.4	7.01	8.68	12.2
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS(Mf)9	13:58	Middle	2	1						
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS(Mf)9	13:58	Middle	2	2						
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS(Mf)9	13:58	Bottom	3	1	20.7	7.82	27.5	6.84	8.82	13.2
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	IS(Mf)9	13:58	Bottom	3	2	20.8	7.79	27.4	6.81	8.89	12.4
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	CS(Mf)3	13:36	Surface	1	1	21	7.88	27.4	7.06	9.01	14.4
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	CS(Mf)3	13:36	Surface	1	2	20.9	7.92	27.5	7.02	9.03	12.6
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	CS(Mf)3	13:36	Middle	2	1	20.8	7.83	27.6	7	9.17	14.7
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	CS(Mf)3	13:36	Middle	2	2	20.9	7.85	27.5	6.97	9.24	12
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	CS(Mf)3	13:36	Bottom	3	1	20.7	7.86	27.7	6.73	9.49	12.3
TMCLKL	HY/2012/07	26-04-2016	Mid-Ebb	CS(Mf)3	13:36	Bottom	3	2	20.6	7.9	27.8	6.76	9.58	15.3
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	CS(Mf)5	9:02	Surface	1	1	21.9	7.03	27.5	7.22	7.72	11.6
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	CS(Mf)5	9:02	Surface	1	2	21.8	7.08	27.6	7.23	7.79	9.3
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	CS(Mf)5	9:02	Middle	2	1	21.6	7.81	27.7	7.16	7.84	10.2
TMCLKL	HY/2012/07	28-04-2016		CS(Mf)5	9:02	Middle	2	2	21.5	7.77	27.6	7.14	7.92	11.1
	HY/2012/07	28-04-2016		CS(Mf)5		Bottom	3	1	21.4	7.76	27.8	7.1	8.03	12
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	CS(Mf)5	9:02	Bottom	3	2	21.5			7.09	8.11	12.2
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	SR4a	9:27	Surface	1	1	22	7.81	27.4	7.13	7.48	9.7
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	SR4a	9:27	Surface	1	2	21.9	7.78	27.5	7.76	7.56	10.6
TMCLKL	HY/2012/07	28-04-2016		SR4a	9:27	Middle	2	1						
TMCLKL	HY/2012/07	28-04-2016		SR4a	9:27	Middle	2	2						
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	SR4a	9:27	Bottom	3	1	21.9	7.79	27.6	7.11	7.71	11.6
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	SR4a	9:27	Bottom	3	2	21.8	7.76	27.5	7.09	7.67	10.7

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	SR4	9:45	Surface	1	1	22.2	7.84	27.4	7.09	7.53	9
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	SR4	9:45	Surface	1	2	22.2	7.8	27.5	7.07	7.61	11.4
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	SR4	9:45	Middle	2	1						
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	SR4	9:45	Middle	2	2						
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	SR4	9:45	Bottom	3	1	22	7.76	27.6	7.01	7.81	11.5
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	SR4	9:45	Bottom	3	2	22.1	7.74	27.5	6.97	7.88	12.6
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS8	10:02	Surface	1	1	21.9	7.86	27.4	7.12	7.63	10.7
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS8	10:02	Surface	1	2	22	7.88	27.5	7.09	7.69	9.2
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS8	10:02	Middle	2	1						
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS8	10:02	Middle	2	2						
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS8	10:02	Bottom	3	1	21.8	7.82	27.6	6.92	7.74	9.3
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS8	10:02	Bottom	3	2	21.9	7.79	27.6	6.94	7.82	10.2
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS(Mf)16	10:22	Surface	1	1	22.2	7.81	27.6	7.26	7.38	9.6
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS(Mf)16	10:22	Surface	1	2	22.1	7.83	27.5	7.24	7.33	11
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS(Mf)16	10:22	Middle	2	1	22	7.75	27.7	7.16	7.67	11.5
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS(Mf)16	10:22	Middle	2	2	22.1	7.74	27.8	7.19	7.7	10.9
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS(Mf)16	10:22	Bottom	3	1	21	7.78	27.8	7.12	7.92	9.5
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS(Mf)16	10:22	Bottom	3	2	21.7	7.74	27.9	7.09	7.86	9.4
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS(Mf)9	10:44	Surface	1	1	22.4	7.89	27.6	7.24	7.31	9.5
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS(Mf)9	10:44	Surface	1	2	22.3	7.83	27.5	7.22	7.22	10.8
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS(Mf)9	10:44	Middle	2	1						
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS(Mf)9	10:44	Middle	2	2						
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS(Mf)9	10:44	Bottom	3	1	22.2	7.81	27.7	7.18	7.54	11.3
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	IS(Mf)9	10:44	Bottom	3	2	22.1	7.78	27.6	7.17	7.59	11.4
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	CS(Mf)3	11:09	Surface	1	1	22.5	7.79	27.7	7.19	7.61	11.4
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	CS(Mf)3	11:09	Surface	1	2	22.4	7.84	27.6	7.16	7.68	10
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	CS(Mf)3	11:09	Middle	2	1	22.3	7.76	27.8	7.05	7.82	12.5
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	CS(Mf)3	11:09	Middle	2	2	22.2	7.73	27.7	7.09	7.87	11
	HY/2012/07	28-04-2016		CS(Mf)3		Bottom	3	1	22	7.82	27.9	6.89	7.97	11.2
TMCLKL	HY/2012/07	28-04-2016	Mid-Flood	CS(Mf)3	11:09	Bottom	3	2	21.9	7.86	27.8	6.92	8.06	12.1
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	CS(Mf)5	17:19	Surface	1	1	22	7.89	27.6	7.13	7.78	9.3
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	CS(Mf)5	17:19	Surface	1	2	21.9	7.94	27.7	7.15	7.85	11
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	CS(Mf)5	17:19	Middle	2	1	21.7	7.87	27.7	7.07	7.9	10.3
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	CS(Mf)5	17:19	Middle	2	2	21.6	7.83	27.8	7.06	7.98	9.6
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	CS(Mf)5	17:19	Bottom	3	1	21.6	7.82	27.8	7.01	8.09	12.1
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	CS(Mf)5	17:19	Bottom	3	2	21.5	7.81	27.9	6.98	8.17	9.8

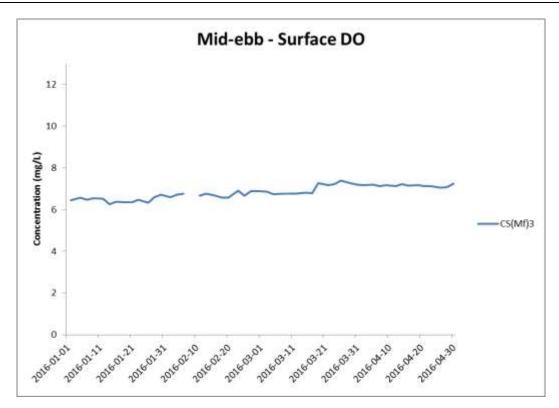
Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	SR4a	16:55	Surface	1	1	. 22	7.87	27.6	7.04	7.54	11.3
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	SR4a	16:55	Surface	1	2	22.1	7.84	27.5	7.07	7.62	9.9
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	SR4a	16:55	Middle	2	1	-					
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	SR4a	16:55	Middle	2	2	2					
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	SR4a	16:55	Bottom	3	1	. 22	7.85	27.6	7.02	7.77	10.1
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	SR4a	16:55	Bottom	3	2	21.9	7.82	27.7	7	7.73	10
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	SR4	16:33	Surface	1	1	22.3	7.9	27.5	7	7.59	11.4
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	SR4	16:33	Surface	1	2	22.2	7.86	27.6	6.98	7.67	10.7
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	SR4	16:33	Middle	2	1	-					
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	SR4	16:33	Middle	2	2	2					
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	SR4	16:33	Bottom	3	1	22.1	7.82	27.6	6.92	7.87	12.6
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	SR4	16:33	Bottom	3	2	2 22	7.8	27.7	6.88	7.94	
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS8	16:11	Surface	1	1	22.1	7.92	27.5	7.03	7.69	10
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS8	16:11	Surface	1	2	2 22	7.94	27.6	7	7.75	10.1
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS8	16:11	Middle	2	1	-					
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS8	16:11	Middle	2	2	2					
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS8	16:11	Bottom	3	1	21.9	7.88	27.7	6.83	7.8	10.9
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS8	16:11	Bottom	3	2	2 22	7.85	27.6	6.85	7.88	
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS(Mf)16	15:49	Surface	1	1	22.2	7.87	27.7	7.17	7.44	8.9
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS(Mf)16	15:49	Surface	1	2	22.3	7.89	27.6	7.15	7.39	
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS(Mf)16	15:49	Middle	2	1	22.1	7.81	27.8	7.07	7.73	10
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS(Mf)16	15:49	Middle	2	2	22.2	7.8	27.9	7.1	7.84	10.2
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS(Mf)16	15:49	Bottom	3	1	21.9	7.84	27.9	7.03	7.98	12.8
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS(Mf)16	15:49	Bottom	3	2	21.8	7.8	28	7	7.92	12.7
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS(Mf)9	15:27	Surface	1	1	22.5	7.95	27.6	7.15	7.37	10.3
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS(Mf)9	15:27	Surface	1	2	22.4	7.89	27.7	7.13	7.28	10.9
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS(Mf)9	15:27	Middle	2	1	-					
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS(Mf)9	15:27	Middle	2	2	2					
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS(Mf)9		Bottom	3	1	22.2	7.87	27.7	7.09	7.6	9.1
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	IS(Mf)9	15:27	Bottom	3	2	22.3	7.84	27.8	7.08	7.65	10.7
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	CS(Mf)3	15:05	Surface	1	1	22.6	7.85	27.7	7.1	7.67	11.5
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	CS(Mf)3	15:05	Surface	1	2	22.5	7.9	27.6	7.07	7.74	12.4
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	CS(Mf)3	15:05	Middle	2	1	22.3	7.82	27.8	6.96	7.88	10.2
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	CS(Mf)3	15:05	Middle	2	2	22.4	7.79	27.9	7	7.93	
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	CS(Mf)3	15:05	Bottom	3	1	22.1	7.88	27.9	6.8	8.03	12.8
TMCLKL	HY/2012/07	28-04-2016	Mid-Ebb	CS(Mf)3	15:05	Bottom	3	2	22	7.92	28	6.83	8.12	

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	CS(Mf)5	11:04	Surface	1	1	22.8	7.74	27.6	7.54	7.92	10.3
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	CS(Mf)5	11:04	Surface	1	2	22.7	7.75	27.5	7.5	7.96	9.6
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	CS(Mf)5	11:04	Middle	2	1	22.6	7.71	27.8	7.27	8.87	14.2
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	CS(Mf)5	11:04	Middle	2	2	22.5	7.72	27.8	7.3	8.82	11.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	CS(Mf)5	11:04	Bottom	3	1	22.5	7.74	27.9	6.96	9.06	13.6
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	CS(Mf)5	11:04	Bottom	3	2	22.6	7.74	27.9	6.94	9.02	14.4
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	SR4a	11:26	Surface	1	1	22.9	7.8	27.5	7.12	8.54	12
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	SR4a	11:26	Surface	1	2	22.8	7.79	27.5	7.08	8.5	12.8
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	SR4a		Middle	2	1						
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	SR4a	11:26	Middle	2	2						
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	SR4a	11:26	Bottom	3	1	22.7	7.76	27.6	6.81	9.09	14.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	SR4a	11:26	Bottom	3	2	22.7	7.77	27.6	6.79	9.01	13.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	SR4	11:43	Surface	1	1	22.6	7.67	27.3	7.32	8.06	10.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	SR4	11:43	Surface	1	2	22.7	7.68	27.4	7.35	8.01	10.4
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	SR4	11:43	Middle	2	1						
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	SR4	11:43	Middle	2	2						
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	SR4	11:43	Bottom	3	1	22.6	7.7	27.4	6.88	8.47	11
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	SR4	11:43	Bottom	3	2	22.5	7.71	27.4	6.84	8.41	13.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS8	11:58	Surface	1	1	22.8	7.69	27.3	7.21	8.19	13.1
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS8	11:58	Surface	1	2	22.8	7.67	27.3	7.25	8.15	10.6
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS8	11:58	Middle	2	1						
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS8		Middle	2	2						
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS8	11:58	Bottom	3	1	22.7	7.8	27.5	6.91	8.68	10.4
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS8	11:58	Bottom	3	2	22.7	7.77	27.4	6.87	8.65	13
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS(Mf)16	12:20	Surface	1	1	22.8	7.74	27.4	7.44	8.27	12.4
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS(Mf)16	12:20	Surface	1	2	22.7	7.75		7.4	8.33	12.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS(Mf)16	12:20	Middle	2	1	22.6	7.81	27.5	7.07	9.02	14.4
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS(Mf)16	12:20	Middle	2	2	22.5	7.83	27.5	7.09	9.06	13.6
	HY/2012/07	30-04-2016		IS(Mf)16		Bottom	3	1	22.5	7.79	27.5	6.78	9.1	14.6
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS(Mf)16	12:20	Bottom	3	2	22.5	7.8	27.6	6.75	9.16	12.8
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS(Mf)9	12:46	Surface	1	1	22.7	7.78	27.4	7.19	8.34	12.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS(Mf)9	12:46	Surface	1	2	22.8	7.79	27.4	7.15	8.3	10.8
TMCLKL	HY/2012/07		Mid-Flood	IS(Mf)9	12:46	Middle	2	1						
TMCLKL	HY/2012/07	30-04-2016		IS(Mf)9	12:46	Middle	2	2						
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS(Mf)9	12:46	Bottom	3	1	22.7	7.75	27.5	7.01	8.87	14.2
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	IS(Mf)9	12:46	Bottom	3	2	22.6	7.74	27.5	7.04	8.8	11.4

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	CS(Mf)3	13:15	Surface	1	1	22.8	7.82	27.5	7.38	8.01	12
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	CS(Mf)3	13:15	Surface	1	2	22.8	7.84	27.4	7.34	8.05	12.1
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	CS(Mf)3	13:15	Middle	2	1	22.5	7.79	27.7	7.12	8.95	11.6
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	CS(Mf)3	13:15	Middle	2	2	22.4	7.8	27.8	7.08	8.92	11.6
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	CS(Mf)3	13:15	Bottom	3	1	22.5	7.81	27.8	6.97	9.06	14.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Flood	CS(Mf)3	13:15	Bottom	3	2	22.6	7.81	27.8	6.94	9.02	13.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	CS(Mf)5	19:10	Surface	1	1	22.9	7.73	27.6	7.37	8.24	12.4
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	CS(Mf)5	19:10	Surface	1	2	22.8	7.71	27.7	7.41	8.33	12.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	CS(Mf)5	19:10	Middle	2	1	22.7	7.77	27.8	7.29	8.94	10.7
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	CS(Mf)5	19:10	Middle	2	2	22.6	7.73	27.9	7.25	9.01	11.7
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	CS(Mf)5	19:10	Bottom	3	1	22.6	7.74	27.9	6.92	9.27	12.1
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	CS(Mf)5	19:10	Bottom	3	2	22.5	7.77	28	6.87	9.2	14.7
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	SR4a	18:47	Surface	1	1	22.9	7.76	27.6	7.09	8.74	11.4
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	SR4a	18:47	Surface	1	2	22.9	7.77	27.5	7.04	9.66	11.3
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	SR4a	18:47	Middle	2	1						
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	SR4a	18:47	Middle	2	2						
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	SR4a	18:47	Bottom	3	1	22.8	7.77	27.7	6.83	8.97	11.7
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	SR4a	18:47	Bottom	3	2	22.7	7.79	27.7	6.77	9.03	11.7
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	SR4	18:29	Surface	1	1	22.9	7.63	27.3	7.27	8.14	9.8
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	SR4	18:29	Surface	1	2	22.9	7.66	27.4	7.24	8.22	11.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	SR4	18:29	Middle	2	1						
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	SR4	18:29	Middle	2	2						
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	SR4	18:29	Bottom	3	1	22.8	7.73	27.5	6.9	8.67	13
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	SR4	18:29	Bottom	3	2	22.7	7.7	27.5	6.86	8.72	13.1
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS8	18:12	Surface	1	1	22.9	7.75	27.4	7.2	8.28	13.2
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS8	18:12	Surface	1	2	22.8	7.73	27.5	7.17	8.34	11.7
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS8	18:12	Middle	2	1						
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS8	18:12	Middle	2	2						
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS8	18:12	Bottom	3	1	28.8	7.77	27.5	6.95	8.87	12.4
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS8	18:12	Bottom	3	2	22.8	7.76	27.6	6.91	8.95	12.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS(Mf)16	17:51	Surface	1	1	22.9	7.73	27.5	7.29	8.48	11.9
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS(Mf)16	17:51	Surface	1	2	22.8	7.71	27.6	7.33	8.4	12.6
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS(Mf)16	17:51	Middle	2	1	22.7	7.77	27.4	7.18	8.99	11.7
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS(Mf)16	17:51	Middle	2	2	22.6	7.74	27.4	7.21	8.9	12.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS(Mf)16	17:51	Bottom	3	1	22.5	7.77	27.6	6.86	9.27	11.1
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS(Mf)16	17:51	Bottom	3	2	22.5	7.8	27.7	6.81	9.2	11

Appendix J1 WQM Results

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS(Mf)9	17:31	Surface	1	1	22.8	7.76	27.3	7.07	8.43	11.8
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS(Mf)9	17:31	Surface	1	2	22.8	7.78	27.4	7.04	8.37	12.6
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS(Mf)9	17:31	Middle	2	1						
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS(Mf)9	17:31	Middle	2	2						
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS(Mf)9	17:31	Bottom	3	1	22.8	7.78	27.6	6.79	8.94	13.4
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	IS(Mf)9	17:31	Bottom	3	2	22.7	7.8	27.5	6.83	9.03	13.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	CS(Mf)3	17:08	Surface	1	1	22.9	7.78	27.5	7.26	8.24	12.4
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	CS(Mf)3	17:08	Surface	1	2	22.9	7.75	27.6	7.22	8.31	12.5
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	CS(Mf)3	17:08	Middle	2	1	22.6	7.77	27.8	7.09	8.79	11.4
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	CS(Mf)3	17:08	Middle	2	2	22.6	7.8	27.7	7.11	8.88	10.7
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	CS(Mf)3	17:08	Bottom	3	1	22.5	7.74	27.9	6.84	9.26	14.8
TMCLKL	HY/2012/07	30-04-2016	Mid-Ebb	CS(Mf)3	17:08	Bottom	3	2	22.5	7.76	27.9	6.87	9.34	14



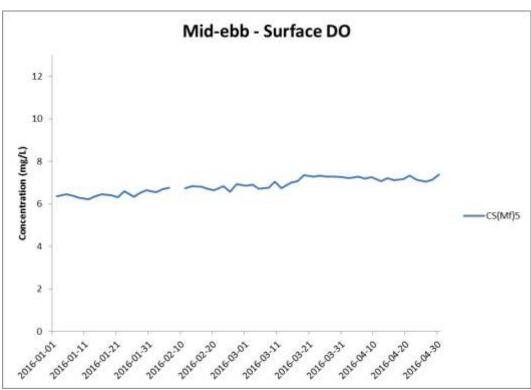
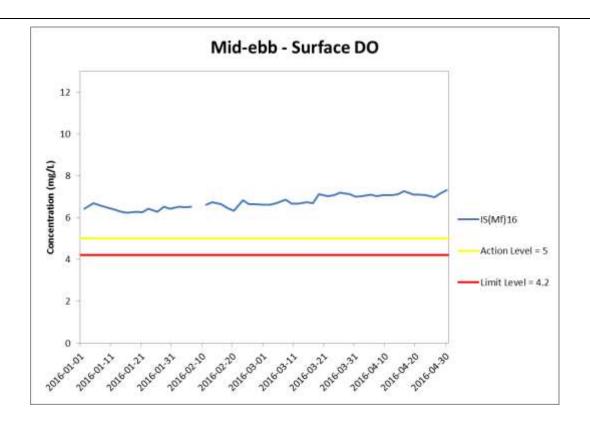


Figure J1 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 January and 30 April 2016 at CS(Mf)3 and CS(Mf)5.





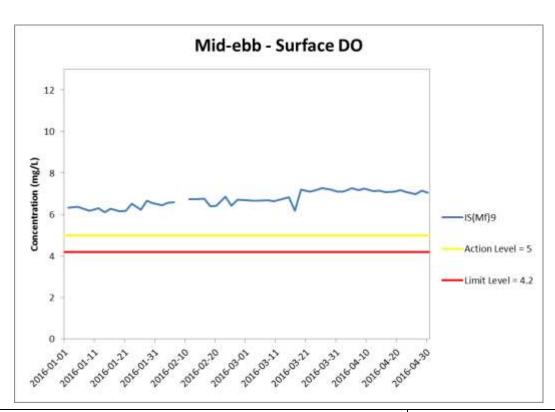
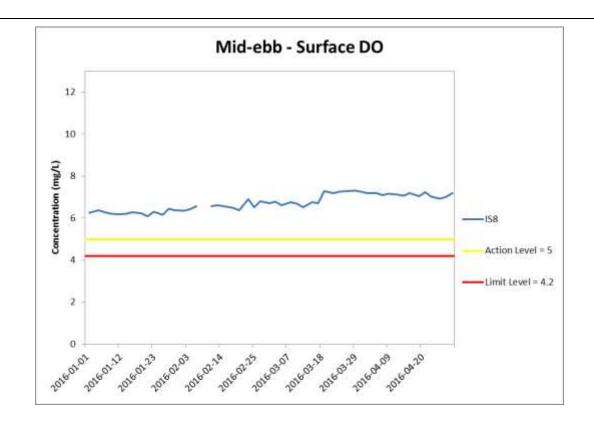


Figure J2 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 January and 30 April 2016 at IS(Mf)16 and IS(Mf)9.





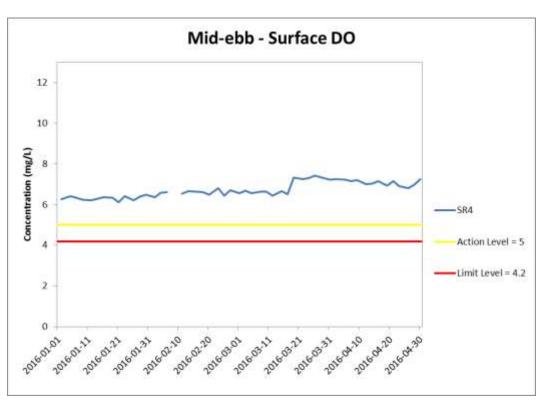


Figure J3 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 January and 30 April 2016 at IS8 and SR4.



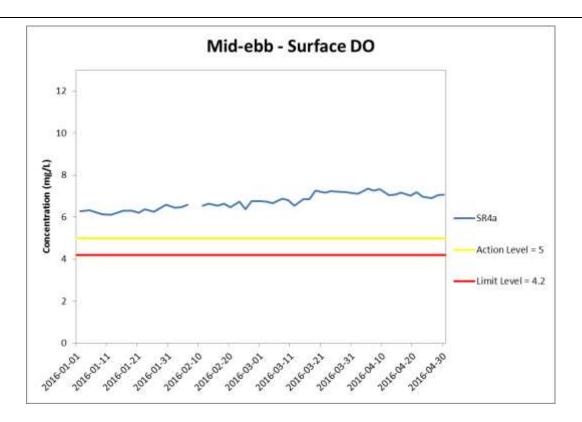
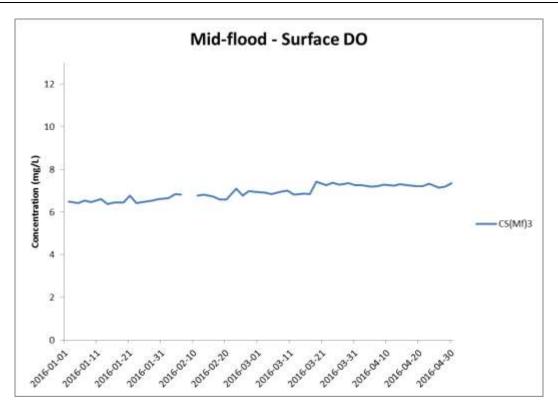


Figure J4 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 January and 30 April 2016 at SR4a.





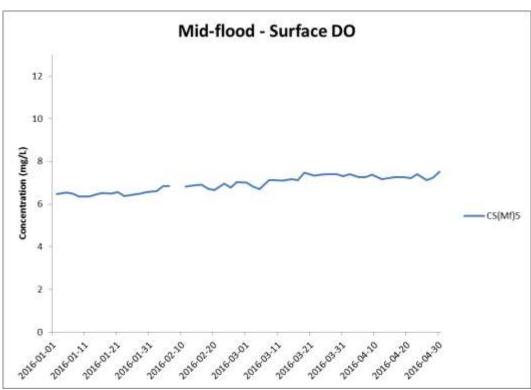
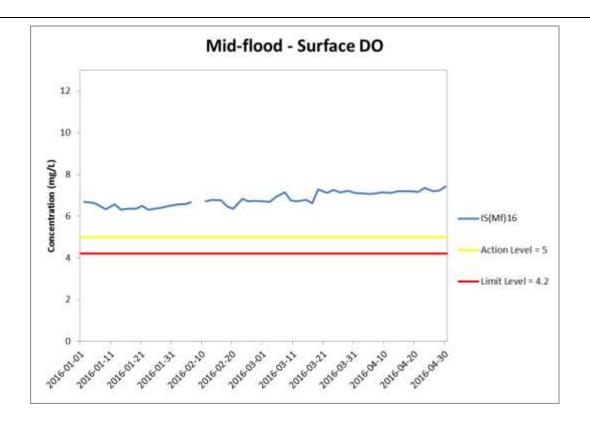


Figure J5 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 January and 30 April 2016 at CS(Mf)3 and CS(Mf)5.





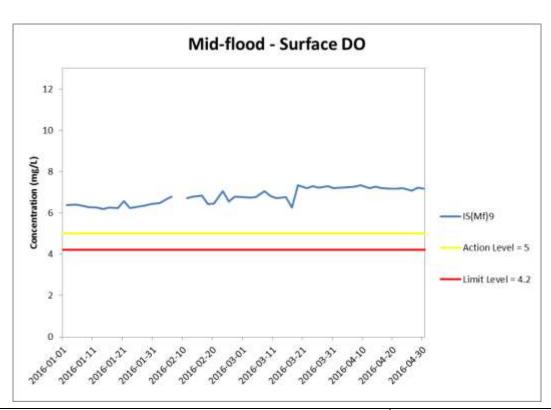
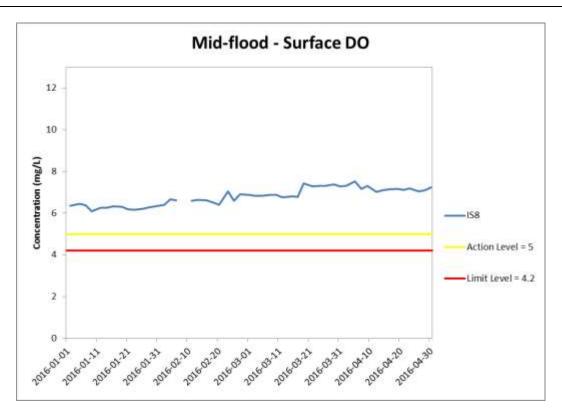


Figure J6 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 January and 30 April 2016 at IS(Mf)16 and IS(Mf)9.





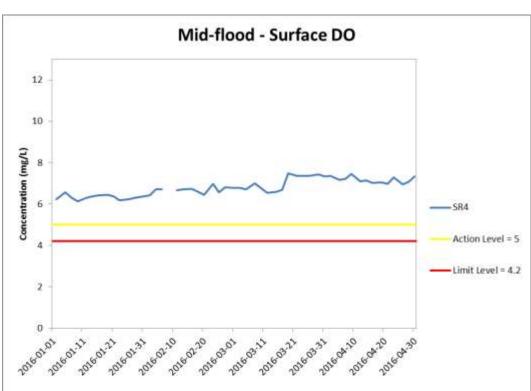


Figure J7 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 January and 30 April 2016 at IS8 and SR4.



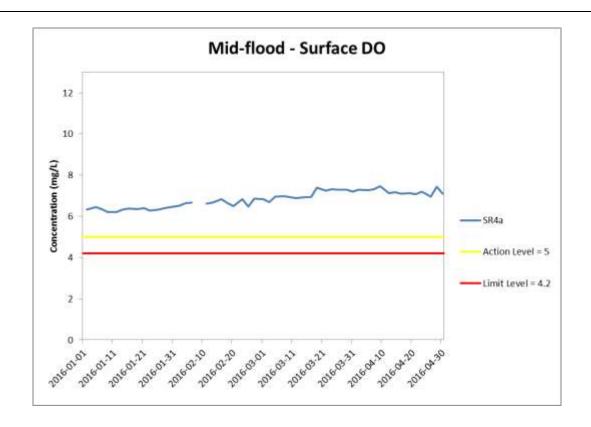
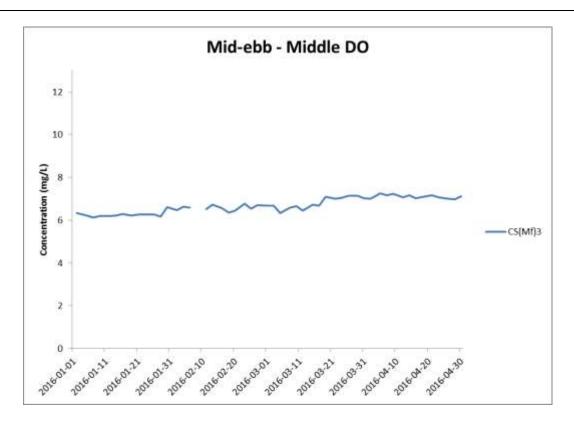


Figure J8 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 January and 30 April 2016 at SR4a.

WQM was cancelled on 9 February 2016 due to suspension of marine works. (Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.





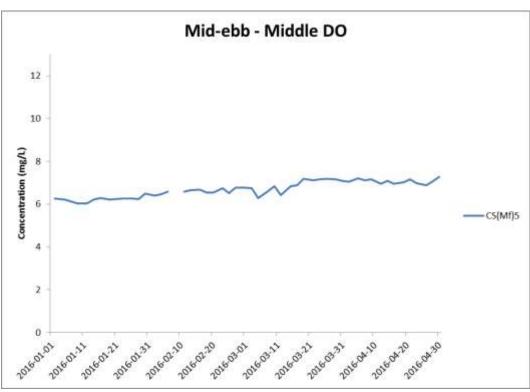


Figure J9 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 January and 30 April 2016 at CS(Mf)3 and CS(Mf)5.



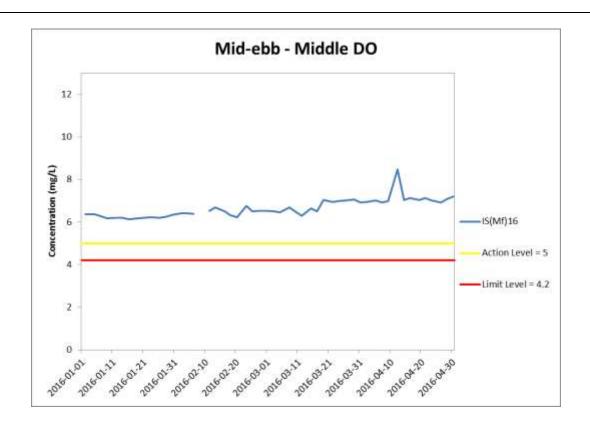
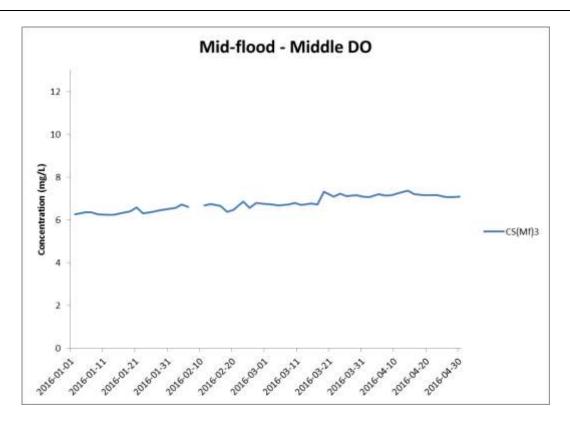


Figure J10 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 January and 30 April 2016 at IS(Mf)16.

WQM was cancelled on 9 February 2016 due to suspension of marine works. (Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.





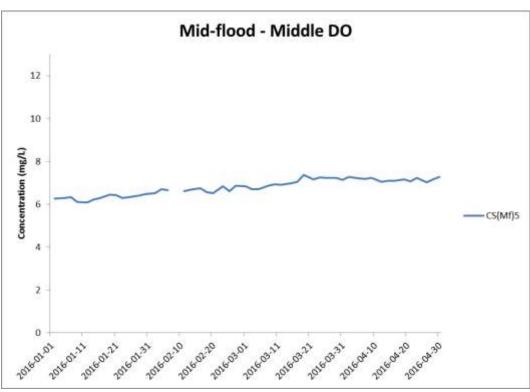


Figure J11 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 January and 30 April 2016 at CS(Mf)3 and CS(Mf)5.



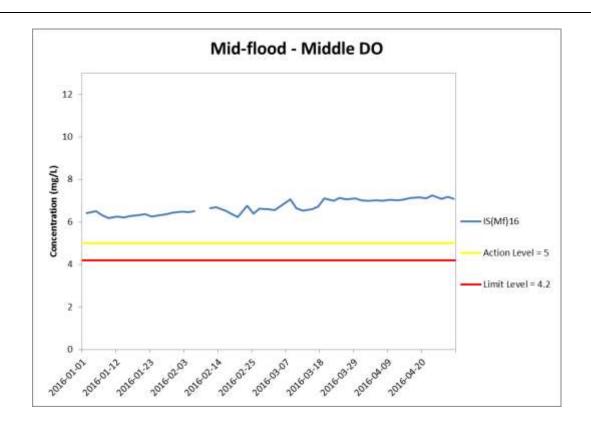
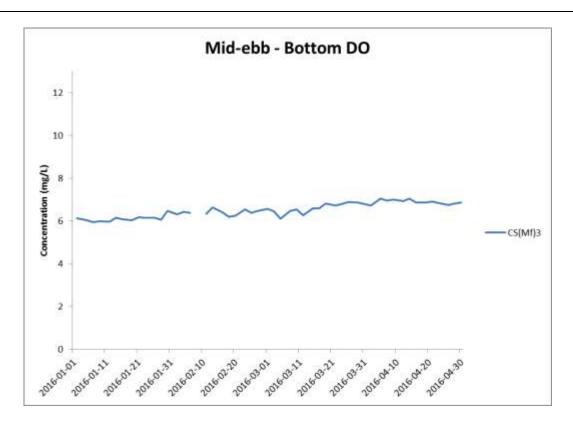


Figure J12 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 January and 30 April 2016 at IS(Mf)16.

WQM was cancelled on 9 February 2016 due to suspension of marine works. (Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.





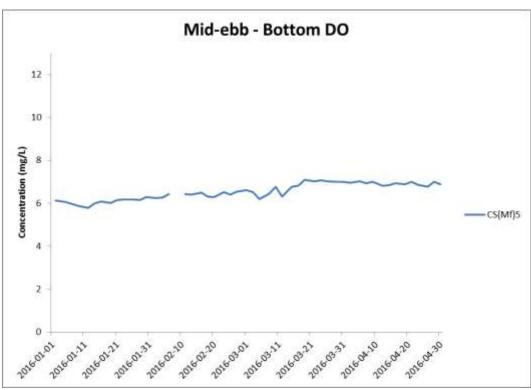
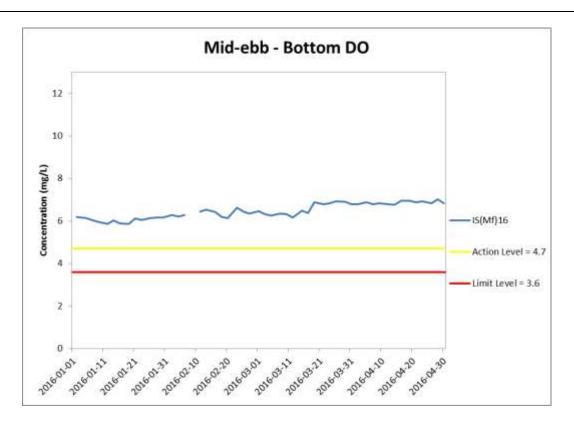


Figure J13 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 January and 30 April 2016 at CS(Mf)3 and CS(Mf)5.





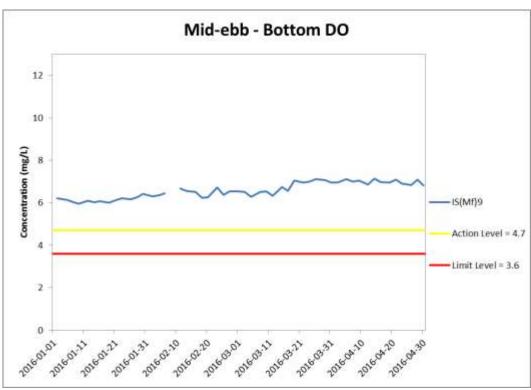
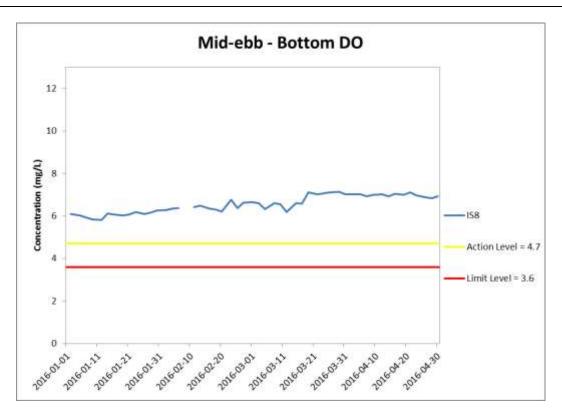


Figure J14 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 January and 30 April 2016 at IS(Mf)16 and IS(Mf)9.





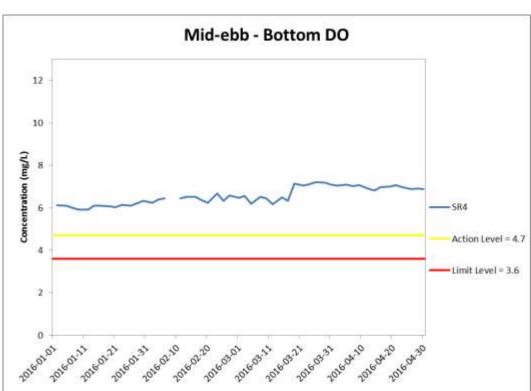


Figure J15 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 January and 30 April 2016 at IS8 and SR4.



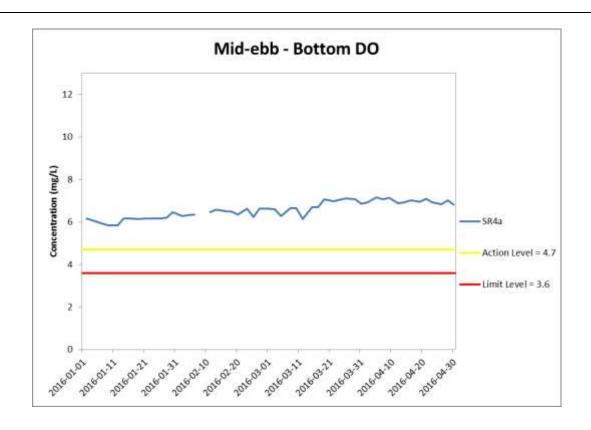
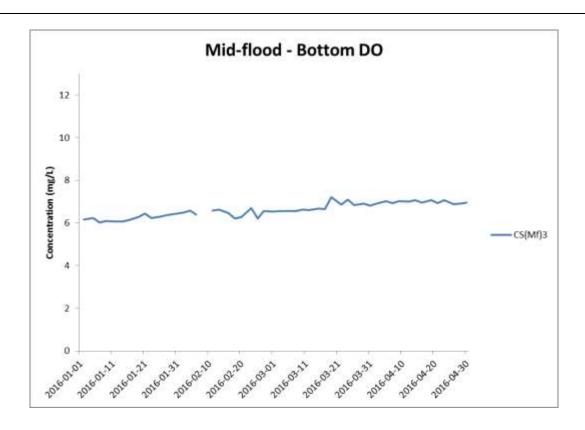


Figure J16 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 January and 30 April 2016 at SR4a.

WQM was cancelled on 9 February 2016 due to suspension of marine works. (Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.





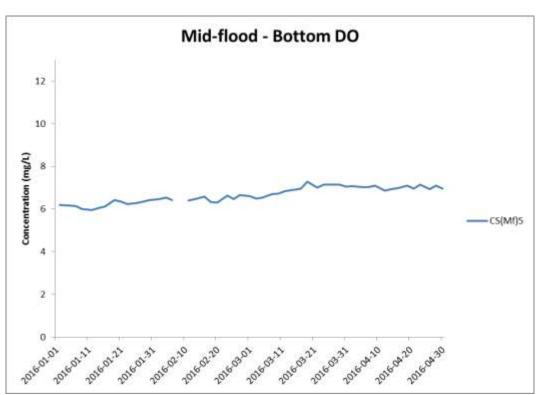
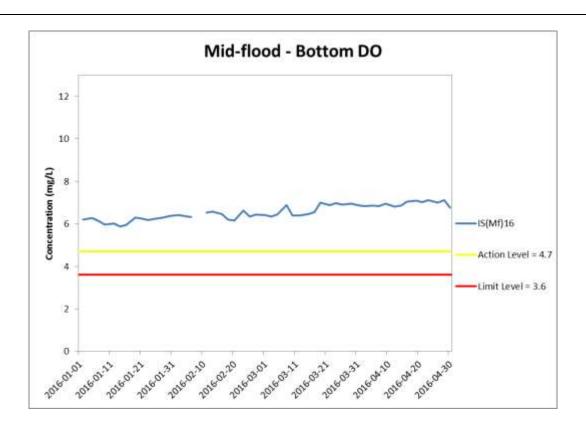


Figure J17 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 January and 30 April 2016 at CS(Mf)3 and CS(Mf)5.





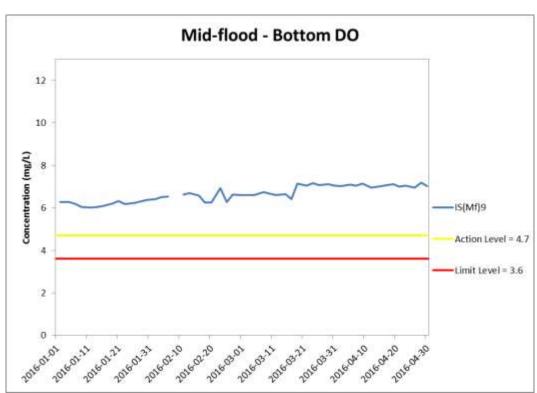
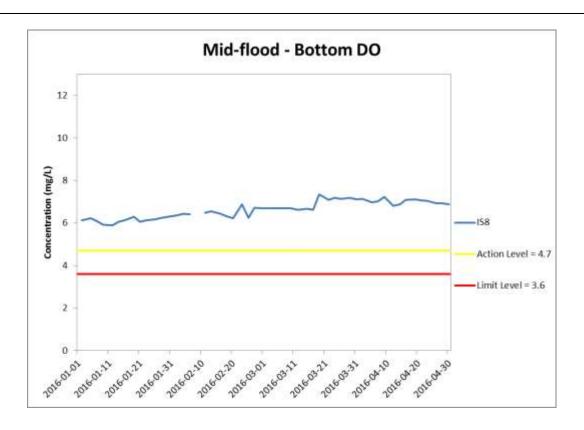


Figure J18 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 January and 30 April 2016 at IS(Mf)16 and IS(Mf)9.





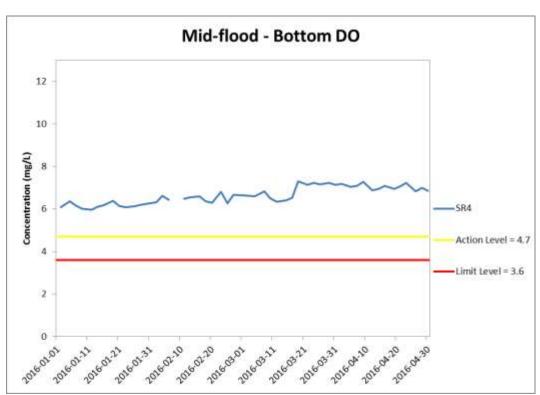


Figure J19 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 January and 30 April 2016 at IS8 and SR4.



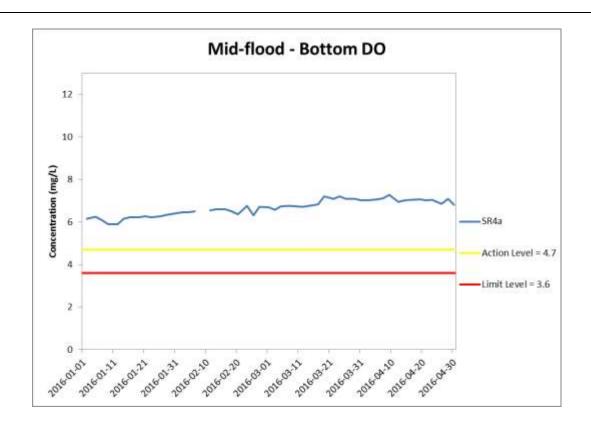
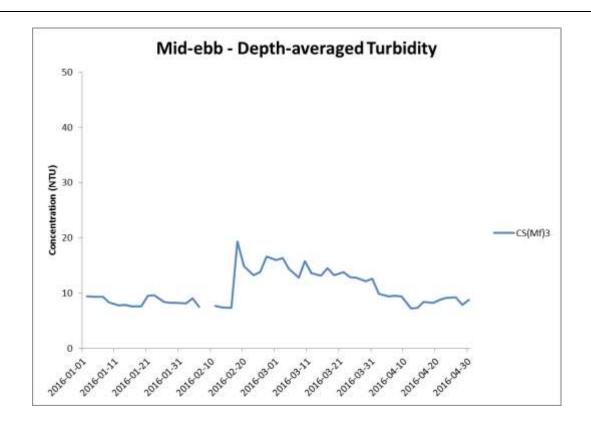


Figure J20 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 January and 30 April 2016 at SR4a.

WQM was cancelled on 9 February 2016 due to suspension of marine works. (Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.





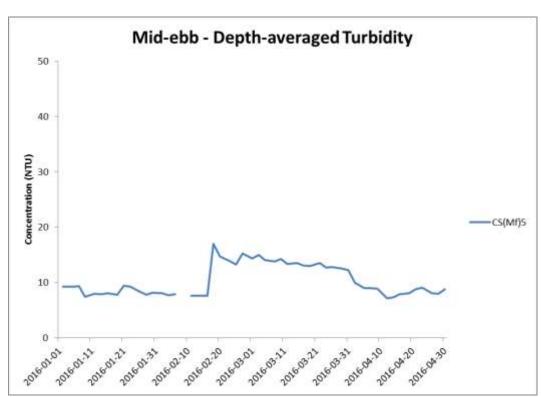
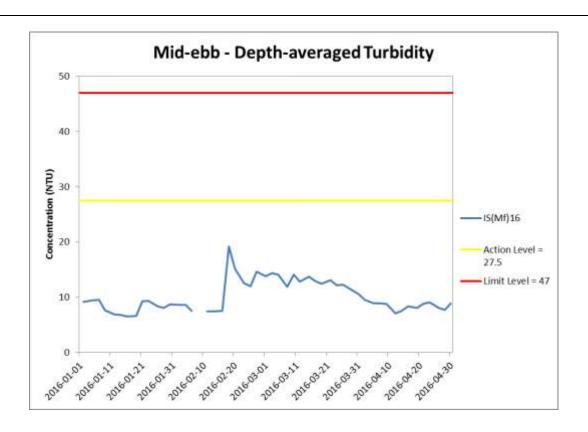


Figure J21 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 January and 30 April 2016 at CS(Mf)3 and CS(Mf)5.





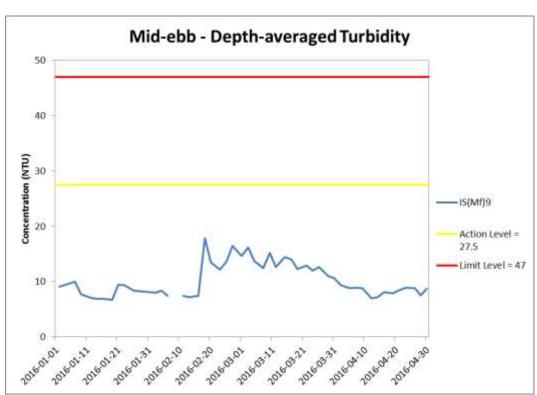
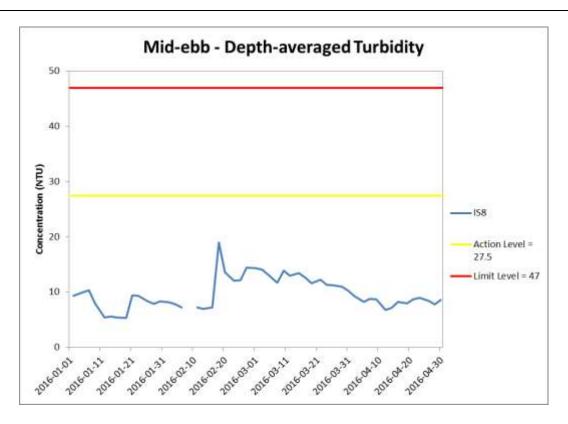


Figure J22 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 January and 30 April 2016 at IS(Mf)16 and IS(Mf)9.





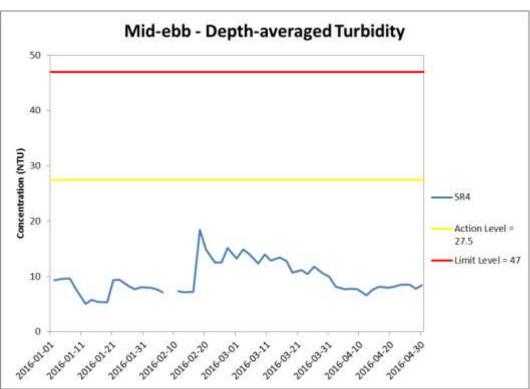


Figure J23 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 January and 30 April 2016 at IS8 and SR4.



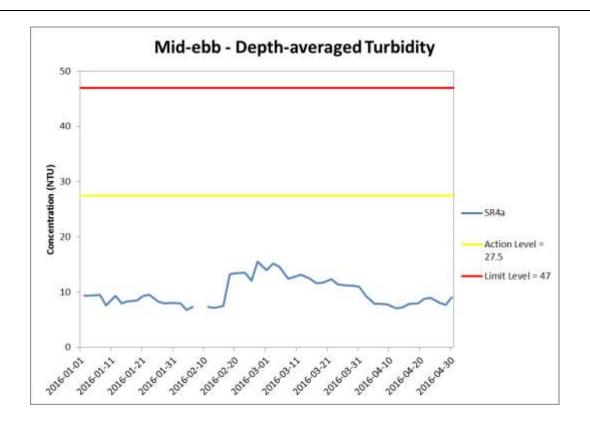
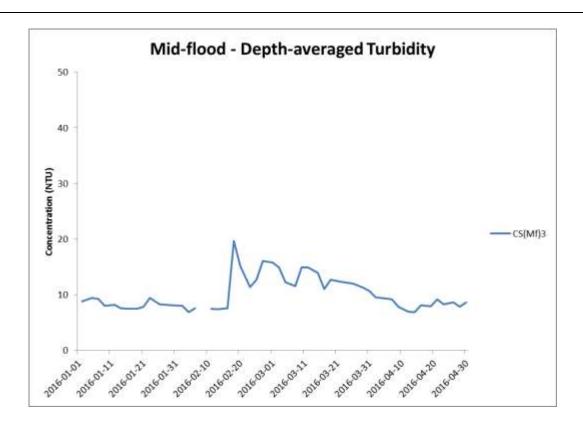


Figure J24 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 January and 30 April 2016 at SR4a.

WQM was cancelled on 9 February 2016 due to suspension of marine works. (Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.





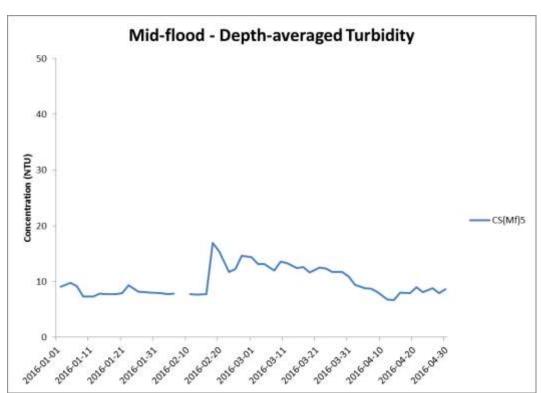
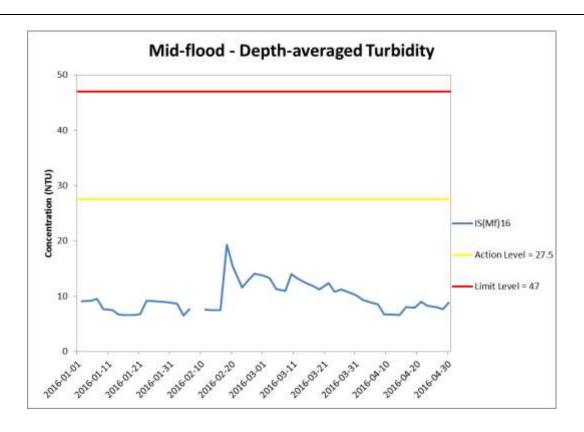


Figure J25 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 January and 30 April 2016 at CS(Mf)3 and CS(MF)5.





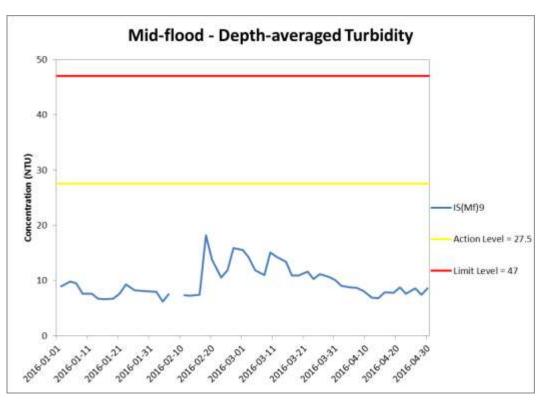
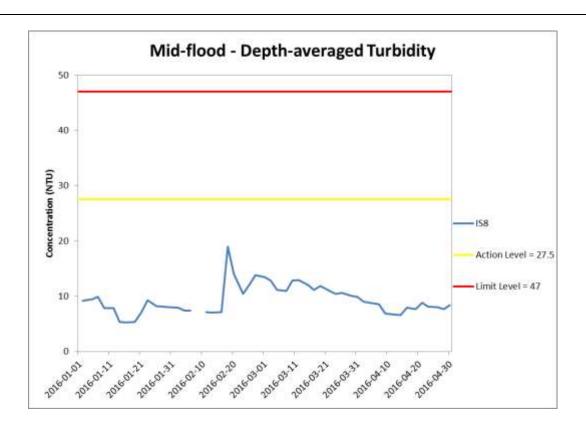


Figure J26 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 January and 30 April 2016 at IS(Mf)16 and IS(Mf)9.





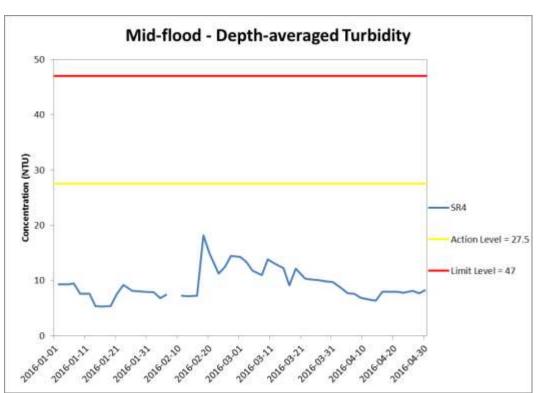


Figure J27 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 January and 30 April 2016 at IS8 and SR4.



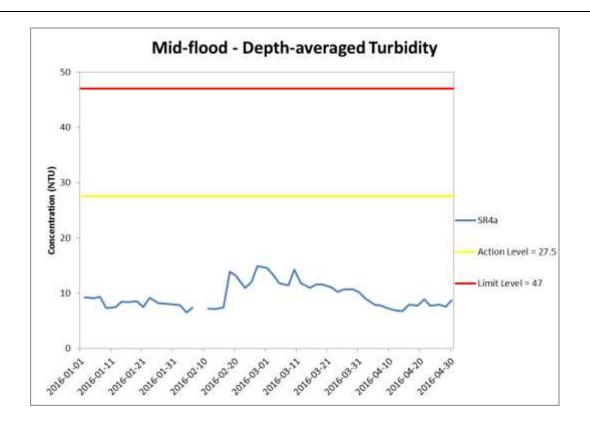
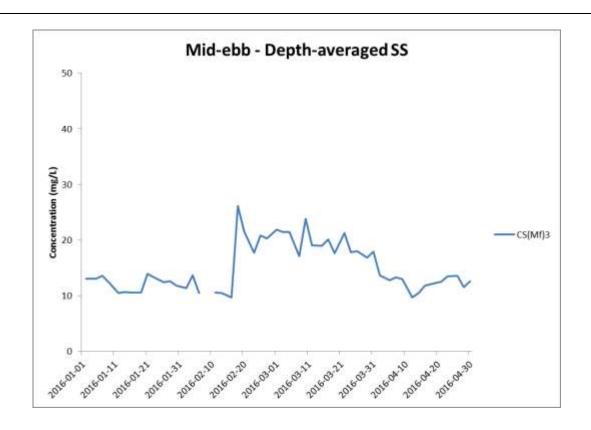


Figure J28 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 January and 30 April 2016 at SR4a.

WQM was cancelled on 9 February 2016 due to suspension of marine works. (Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.





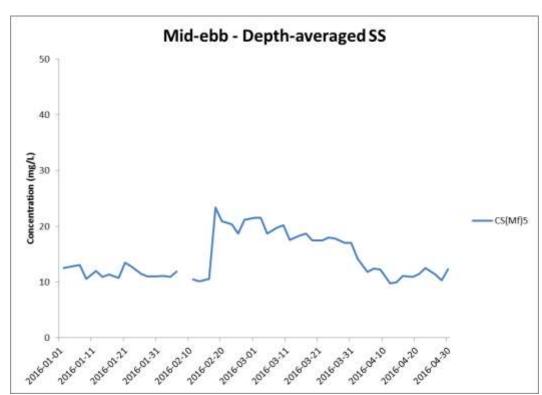
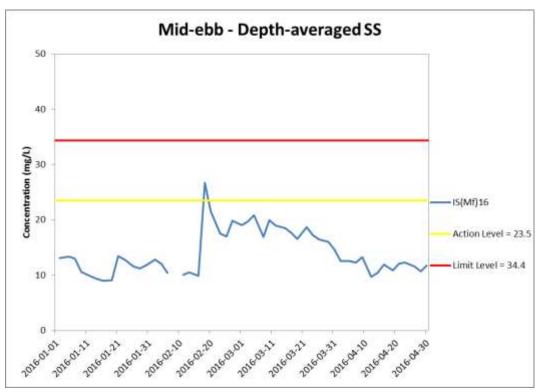


Figure J29 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 January and 30 April 2016 at CS(Mf)3 and CS(Mf)5.





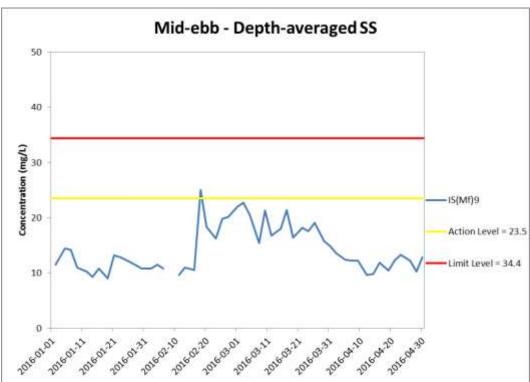
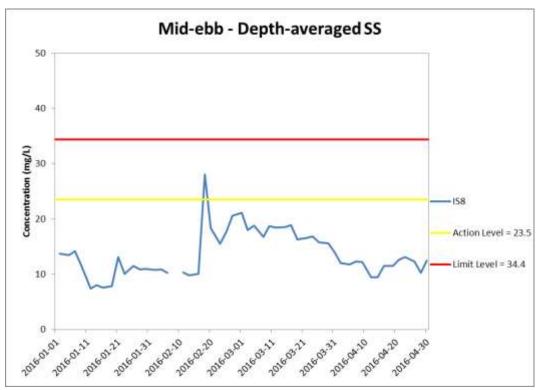


Figure J30 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 January and 30 April 2016 at IS(Mf)16 and IS(Mf)9.

WQM was cancelled on 9 February 2016 due to suspension of marine works. Results higher than Action Level but lower than 120% of upstream control station at the same tide on the same day are not regarded as exceedance. (Weather condition varied between sunny to rainy within the reporting period.)

Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.





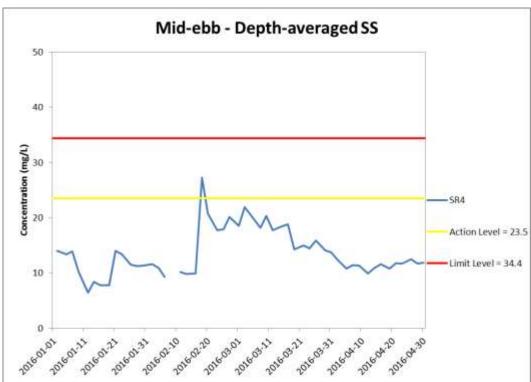


Figure J31 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 January and 30 April 2016 at IS8 and SR4.

WQM was cancelled on 9 February 2016 due to suspension of marine works. Results higher than Action Level but lower than 120% of upstream control station at the same tide on the same day are not regarded as exceedance. (Weather condition varied between sunny to rainy within the reporting period.)

Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.



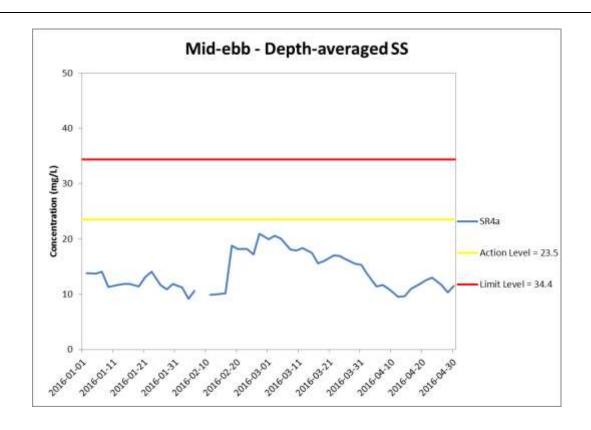
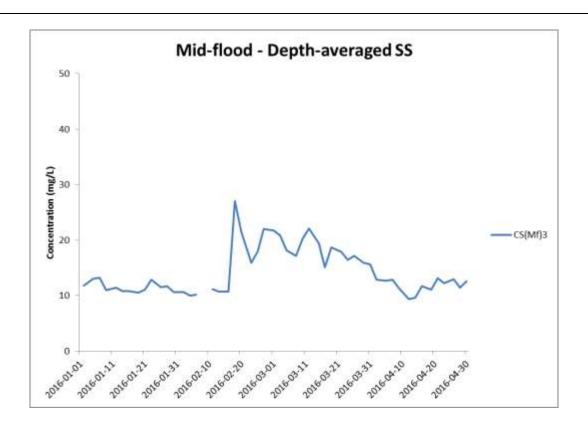


Figure J32 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 January and 30 April 2016 at SR4a.

WQM was cancelled on 9 February 2016 due to suspension of marine works. (Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.





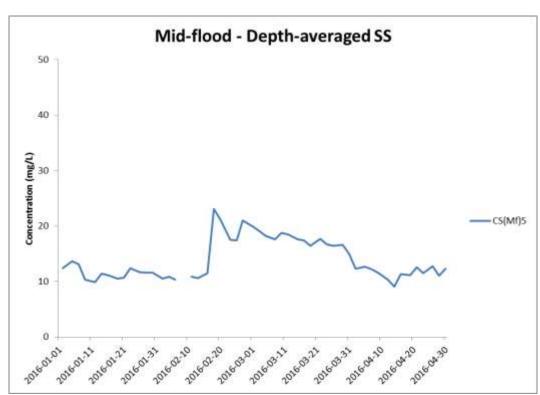
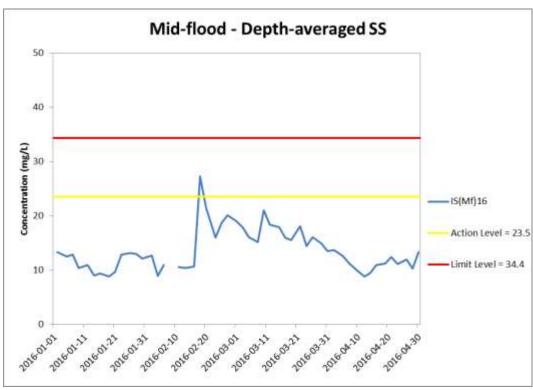


Figure J33 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 January and 30 April 2016 at CS(Mf)3 and CS(Mf)5.





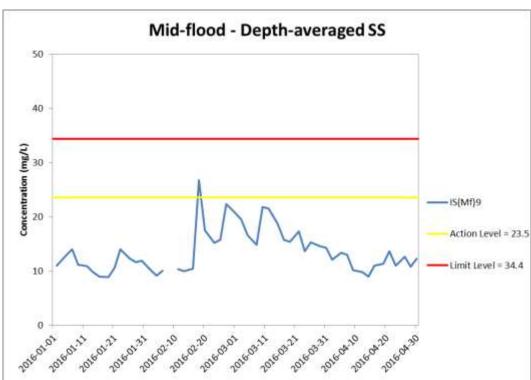
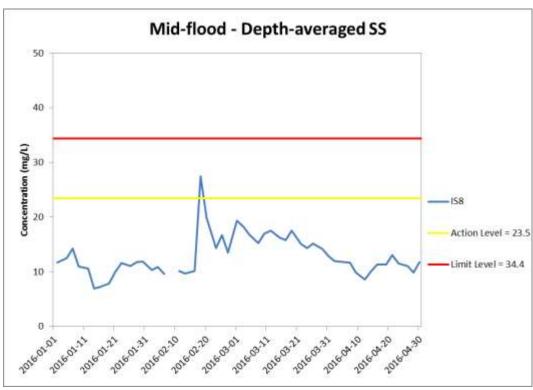


Figure J34 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 January and 30 April 2016 at IS(Mf)16 and IS(Mf)9.

WQM was cancelled on 9 February 2016 due to suspension of marine works. Results higher than Action Level but lower than 120% of upstream control station at the same tide on the same day are not regarded as exceedance. (Weather condition varied between sunny to rainy within the reporting period.)

Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.





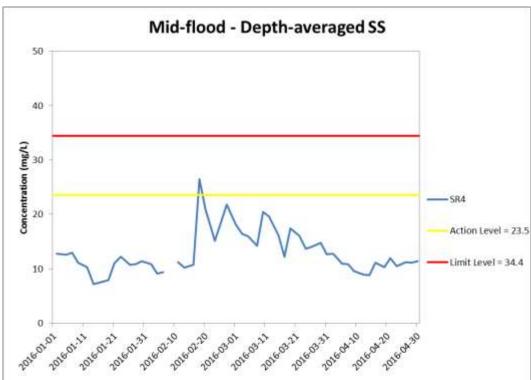


Figure J35 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 January and 30 April 2016 at IS8 and SR4.

WQM was cancelled on 9 February 2016 due to suspension of marine works. Results higher than Action Level but lower than 120% of upstream control station at the same tide on the same day are not regarded as exceedance. (Weather condition varied between sunny to rainy within the reporting period.)

Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.



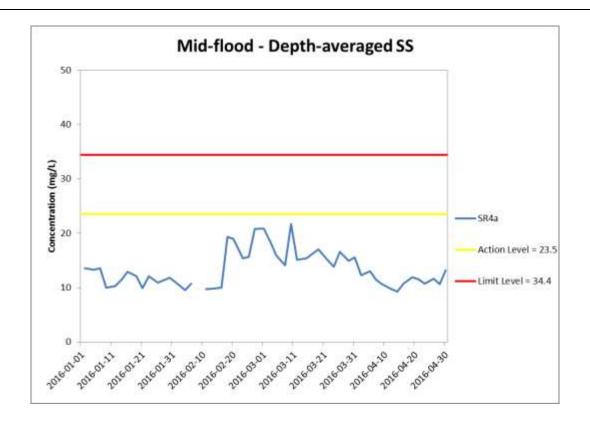


Figure J36 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 January and 30 April 2016 at SR4a.

WQM was cancelled on 9 February 2016 due to suspension of marine works. (Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Construction of marine section of berth at Southern Landfall; Launching gantry operation; and Installation of deck segment and pier head segment.



Appendix K

Impact Dolphin Monitoring Survey Results

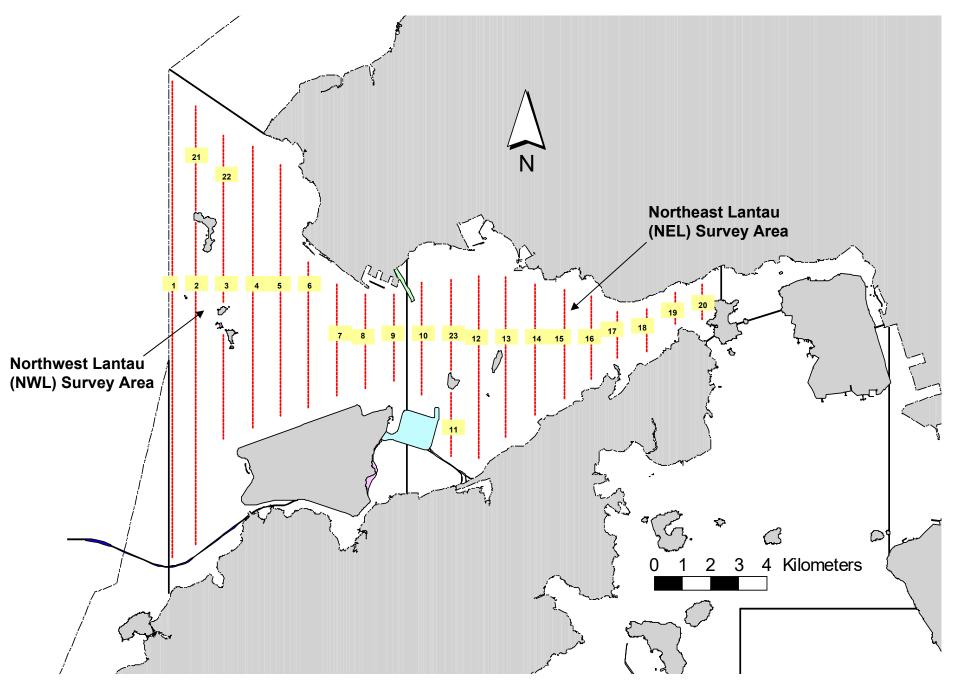


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

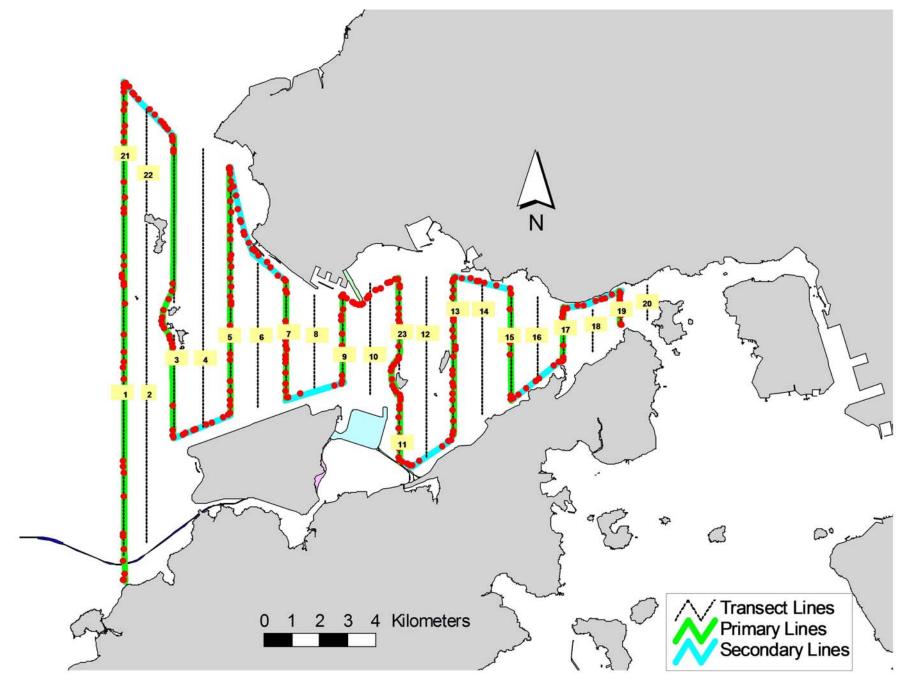


Figure 2. Survey Route on April 5th, 2016 (from HKLR03 project)

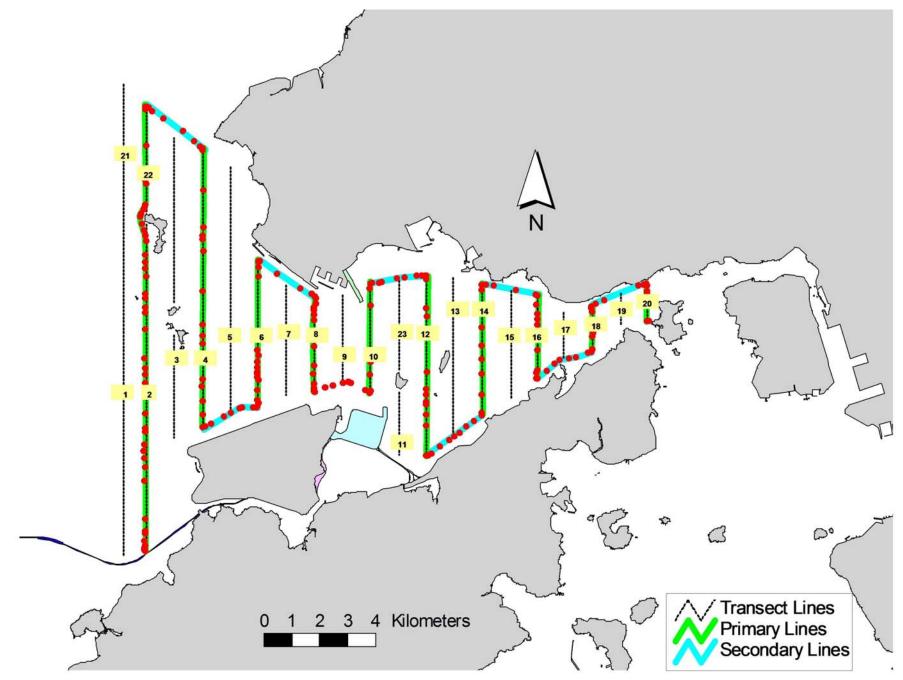


Figure 3. Survey Route on April 12th, 2016 (HKLR03 project)

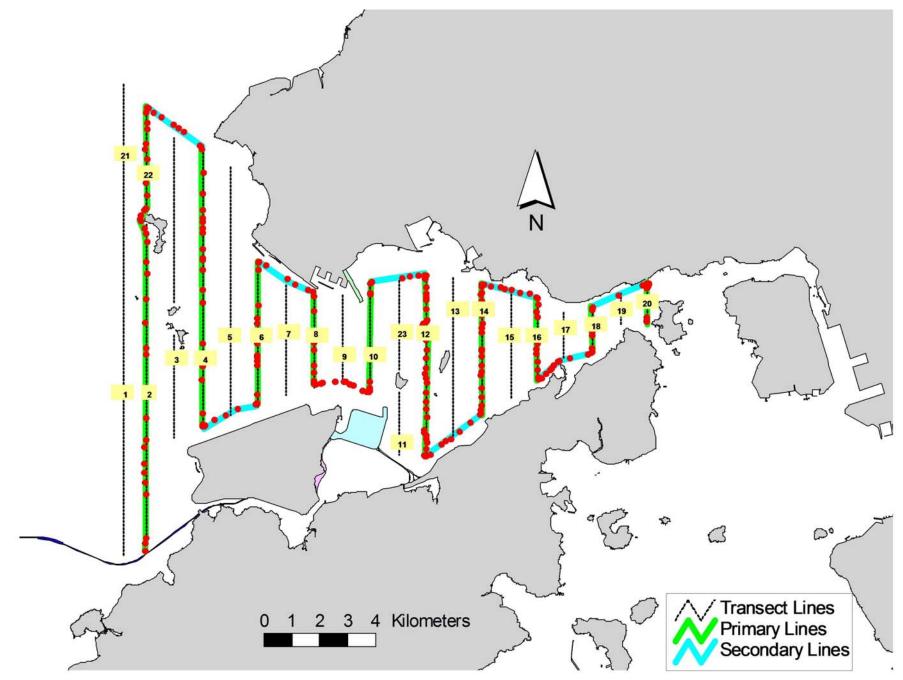


Figure 4. Survey Route on April 15th, 2016 (HKLR03 project)

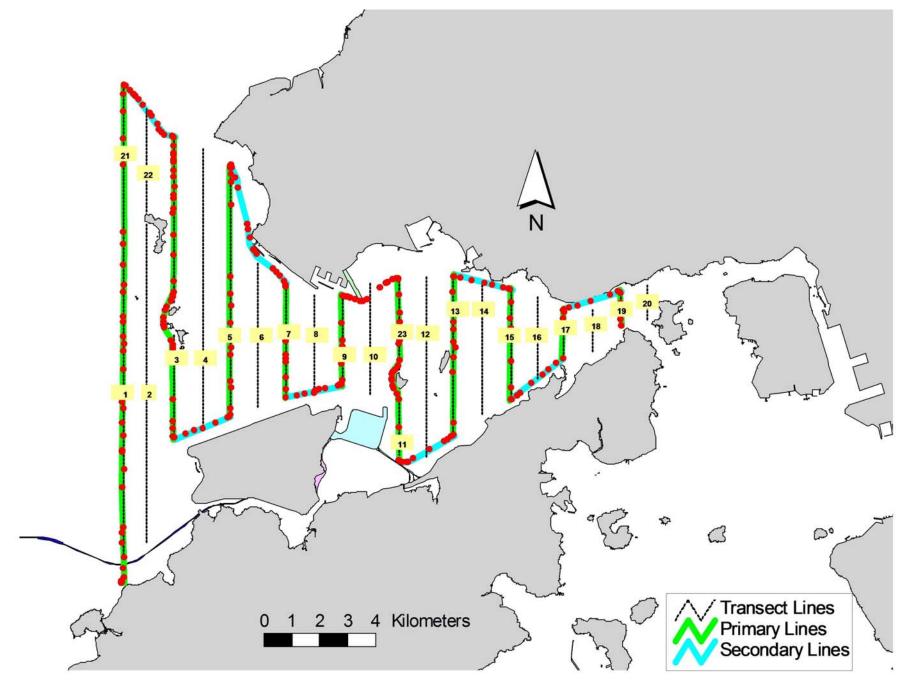


Figure 5. Survey Route on April 19th, 2016 (HKLR03 project)

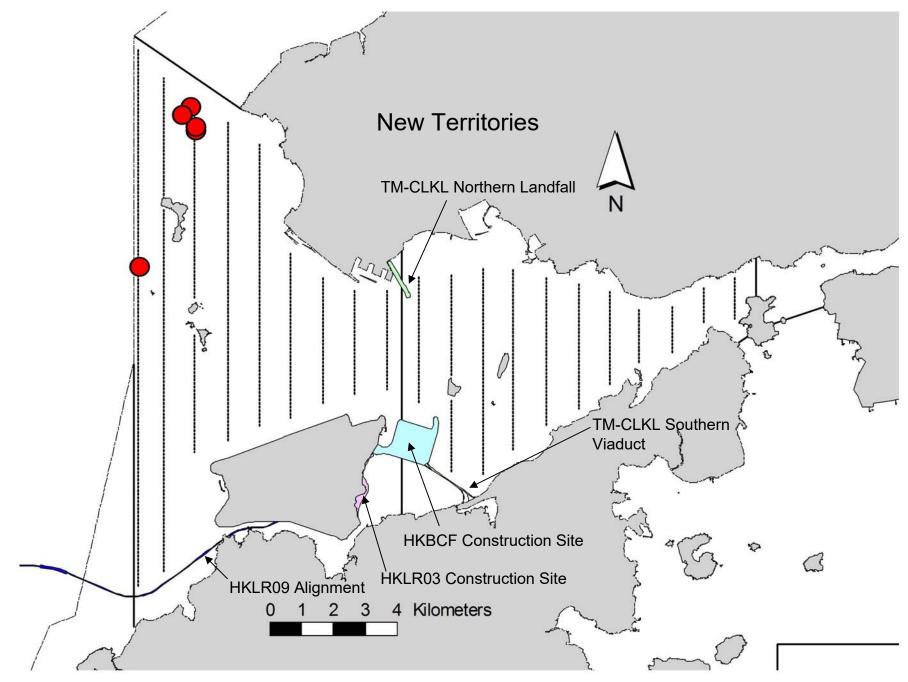


Figure 6. Distribution of Chinese White Dolphin Sightings During April 2016 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (April 2016)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
5-Apr-16	NW LANTAU	0	0.83	SPRING	STANDARD31516	HKLR	Р
5-Apr-16	NW LANTAU	1	5.38	SPRING	STANDARD31516	HKLR	Р
5-Apr-16	NW LANTAU	2	21.07	SPRING	STANDARD31516	HKLR	Р
5-Apr-16	NW LANTAU	3	13.64	SPRING	STANDARD31516	HKLR	Р
5-Apr-16	NW LANTAU	2	3.00	SPRING	STANDARD31516	HKLR	S
5-Apr-16	NW LANTAU	3	10.08	SPRING	STANDARD31516	HKLR	S
5-Apr-16	NE LANTAU	1	1.60	SPRING	STANDARD31516	HKLR	Р
5-Apr-16	NE LANTAU	2	15.44	SPRING	STANDARD31516	HKLR	Р
5-Apr-16	NE LANTAU	1	2.10	SPRING	STANDARD31516	HKLR	S
5-Apr-16	NE LANTAU	2	8.06	SPRING	STANDARD31516	HKLR	S
12-Apr-16	NE LANTAU	2	3.81	SPRING	STANDARD31516	HKLR	Р
12-Apr-16	NE LANTAU	3	13.73	SPRING	STANDARD31516	HKLR	Р
12-Apr-16	NE LANTAU	4	2.60	SPRING	STANDARD31516	HKLR	Р
12-Apr-16	NE LANTAU	2	4.20	SPRING	STANDARD31516	HKLR	S
12-Apr-16	NE LANTAU	3	6.46	SPRING	STANDARD31516	HKLR	S
12-Apr-16	NW LANTAU	3	4.57	SPRING	STANDARD31516	HKLR	Р
12-Apr-16	NW LANTAU	4	25.36	SPRING	STANDARD31516	HKLR	Р
12-Apr-16	NW LANTAU	5	1.90	SPRING	STANDARD31516	HKLR	Р
12-Apr-16	NW LANTAU	3	5.97	SPRING	STANDARD31516	HKLR	S
12-Apr-16	NW LANTAU	4	2.10	SPRING	STANDARD31516	HKLR	S
15-Apr-16	NW LANTAU	2	5.14	SPRING	STANDARD31516	HKLR	Р
15-Apr-16	NW LANTAU	3	20.36	SPRING	STANDARD31516	HKLR	Р
15-Apr-16	NW LANTAU	4	6.20	SPRING	STANDARD31516	HKLR	Р
15-Apr-16	NW LANTAU	2	3.40	SPRING	STANDARD31516	HKLR	S
15-Apr-16	NW LANTAU	3	3.10	SPRING	STANDARD31516	HKLR	S
15-Apr-16	NW LANTAU	4	1.40	SPRING	STANDARD31516	HKLR	S
15-Apr-16	NE LANTAU	2	14.06	SPRING	STANDARD31516	HKLR	Р
15-Apr-16	NE LANTAU	3	6.93	SPRING	STANDARD31516	HKLR	Р
15-Apr-16	NE LANTAU	2	7.11	SPRING	STANDARD31516	HKLR	S
15-Apr-16	NE LANTAU	3	2.90	SPRING	STANDARD31516	HKLR	S
19-Apr-16	NE LANTAU	3	10.81	SPRING	STANDARD31516	HKLR	Р
19-Apr-16	NE LANTAU	4	6.46	SPRING	STANDARD31516	HKLR	Р
19-Apr-16	NE LANTAU	3	10.03	SPRING	STANDARD31516	HKLR	S
19-Apr-16	NW LANTAU	2	6.79	SPRING	STANDARD31516	HKLR	P
19-Apr-16	NW LANTAU	3	15.26	SPRING	STANDARD31516	HKLR	Р
19-Apr-16	NW LANTAU	4	9.20	SPRING	STANDARD31516	HKLR	Р
19-Apr-16	NW LANTAU	5	9.70	SPRING	STANDARD31516	HKLR	Р
19-Apr-16	NW LANTAU	6	1.30	SPRING	STANDARD31516	HKLR	Р
19-Apr-16	NW LANTAU	2	3.83	SPRING SPRING	STANDARD31516	HKLR	S S
19-Apr-16 19-Apr-16	NW LANTAU NW LANTAU	3 4	3.01 6.39	SPRING	STANDARD31516 STANDARD31516	HKLR HKLR	S
19-Api-10	INVV LAINTAU	4	0.38	SEKING	O I CI CUANUNIA I C	HINLIN	٥

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

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

DATE	STG#	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
5-Apr-16	1	1059	8	NW LANTAU	2	454	ON	HKLR	824938	804702	SPRING	NONE	Р
19-Apr-16	1	1426	2	NW LANTAU	2	ND	OFF	HKLR	828998	806471	SPRING	NONE	
19-Apr-16	2	1451	2	NW LANTAU	2	ND	OFF	HKLR	829109	806461	SPRING	NONE	
19-Apr-16	3	1504	3	NW LANTAU	2	177	ON	HKLR	829696	806297	SPRING	NONE	Р
19-Apr-16	4	1519	3	NW LANTAU	2	465	ON	HKLR	829442	806050	SPRING	NONE	S

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

ID#	DATE	STG#	AREA
NL48	05/04/16	1	NW LANTAU
CH65	05/04/16	1	NW LANTAU
NL120	05/04/16	1	NW LANTAU
NL123	05/04/16	1	NW LANTAU
NL145	05/04/16	1	NW LANTAU
NL202	19/04/16	1	NW LANTAU
NL224	05/04/16	1	NW LANTAU
NL259	05/04/16	1	NW LANTAU
NL261	05/04/16	1	NW LANTAU
NL264	05/04/16	1	NW LANTAU
NL285	05/04/16	1	NW LANTAU
NL286	19/04/16	1	NW LANTAU
NL287	05/04/16	1	NW LANTAU
NL288	05/04/16	1	NW LANTAU
NL308	19/04/16	3	NW LANTAU



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



Appendix IV. (cont'd)

Appendix L

Event Action Plan

Appendix L1 Event/Action Plan for Air Quality

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

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

and keep the IEC, the DEP and the SOR informed of the results.

8. If the exceedance stops, cease additional monitoring.

Appendix L2 Event/Action Plan for Construction Noise

		ACTI	ION	
EVENT	ET	IEC	SOR	Contractor
Action Level	 Notify the IEC and the Contractor. Carry out investigation. 	Review the analysed results submitted by the ET.	Confirm receipt of notification of failure in writing.	Submit noise mitigation proposals to IEC
	 Report the results of investigation to the IEC and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation effectiveness. 	measures by the Contractor and advise the SOR accordingly. 3. Supervise the implementation of remedial measures.	 Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. 	Implement noise mitigation proposals
2.3.4.	1. Notify the IEC, the SOR, the DEP and the Contractor.	and the Contractor on the potential	Confirm receipt of notification of failure in writing.	Take immediate action to avoid further exceedance
	 Identify the source. Repeat measurement to confirm findings. 	2 Parriage the Contractor's remodial	 Notify the Contractor. Require the Contractor to propose remedial measures for the analysed 	Submit proposals for remedial actions to IEC within 3 working days of notification
	4. Increase monitoring frequency.5. Carry out analysis of Contractor's working procedures to determine	assure their effectiveness and advise the SOR accordingly.3. Supervise the implementation of remedial measures.	noise problem. 4. Ensure remedial measures are properly implemented.	3. Implement the agreed proposals4. Resubmit proposals if problem still not under control
	possible mitigation to be implemented.6. Inform the IEC, the SOR and the DEP the causes & actions taken for the exceedances.	remediai measures.	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.	5. Stop the relevant activity of works as determined by the SOR until the exceedance is abated.
	 Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results. 			
	If exceedance stops, cease additional monitoring.	1		

Appendix L3 Event/Action Plan for Water Quality

Event	ET	Leader		IEC	S	OR		Contractor
Action level being exceeded by one sampling day	1.	Repeat in situ measurement on next day of exceedance to confirm findings;	1.	Check monitoring data submitted by ET and Contractor's working methods.	1.	Confirm receipt of notification of non-compliance in writing;	1.	Inform the SOR and confirm notification of the non-compliance in writing;
	2.	Identify source(s) of impact;			2.	Notify Contractor.	2.	Rectify unacceptable practice;
	3.	Inform IEC, contractor and SOR;					3.	Amend working methods if appropriate.
	4.	Check monitoring data, all plant, equipment and Contractor's working methods.						··FI
Action level being exceeded by two or more consecutive sampling days	1.	Repeat measurement on next day of exceedance to confirm findings;	1.	Check monitoring data submitted by ET and Contractor's working method;	1.	Discuss with IEC on the proposed mitigation measures;	1.	Inform the Supervising Officer and confirm notification of the non-
	2.	Identify source(s) of impact;	2	D: :1 FE 1.0	•	T		compliance in writing;
	3.	Inform IEC, contractor, SOR and EPD;	2.	Discuss with ET and Contractor on possible remedial actions;	2.	Ensure mitigation measures are properly implemented;	2.	Rectify unacceptable practice;
	4.	Check monitoring data, all plant, equipment and Contractor's working methods;	3.	Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly;	3.	Assess the effectiveness of the implemented mitigation measures.	3.	Check all plant and equipment and consider changes of working methods;
	5.	Discuss mitigation measures with IEC,					4.	Submit proposal of additional
		SOR and Contractor;	4.	Supervise the implementation of mitigation measures.				mitigation measures to SOR within 3 working days of
	6.	Ensure mitigation measures are implemented;		mugutori measures.				notification and discuss with ET, IEC and SOR;
	7.	Increase the monitoring frequency to daily until no exceedance of Action level;					5.	Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	1.	Repeat measurement on next day of exceedance to confirm findings;	1.	Check monitoring data submitted by ET and Contractor's working method;	1.	Confirm receipt of notification of failure in writing;	1.	Inform the SOR and confirm notification of the non-compliance in writing;

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

Appendix L4 Implementation of Event-Action Plan for Dolphin Monitoring

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

Event ET Leader	IEC	SOR	Contractor
 Repeat statistical data analysis to confirm finding 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; Identify source(s) of impact; Inform the IEC, ER/SOR and Contractor of findings; Check monitoring data; Repeat review to ensure all the dolphin protective measures are fully and properly implemented an advise on additional measures if necessary; If ET proves that the source of impact is caused be 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. 	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.	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	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

Appendix L5 Event and Action Plan on Dolphin Acoustic Behaviour

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

EVENT		ACTION		
	ET Leader	IEC	SO	Contractor
Limit Level With the numerical values presented in Table 5.7 of <i>Baseline Monitoring Report</i> , when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 40% lower or higher than that recorded in the baseline	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;	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring with the ET and the Contractor;	1. Discuss with the IEC the repeat monitoring and any other measures proposed by the ET;	 Inform the SO and confirm notification of the non-compliance in writing; Discuss with the ET and
monitoring (see Table 5.8 of <i>Baseline Monitoring Report</i>), or when there is a difference of 40% in dolphin acoustic signal detection at nighttime at Site C1 only, the limit level should be triggered	 Identify source(s) of impact; Inform the IEC, SO and Contractor; Check monitoring data; Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary 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. 	3. Review proposals for additional monitoring and any other measures submitted by the Contractor and advise ER accordingly.	Make agreement on measures to be implemented.	the IEC and propose measures to the IEC and the SO; 3. Implement the agreed measures.

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

Appendix M

Monthly Summary of Waste Flow Table

Contract No.: HY/2012/07

Tuen Mun Chek Lap Kok Link – Southern Connection Viaduct Section Monthly Summary Waste Flow Table for 2016 (Year)

Month\Material	Actual Quantities of Inert C&D Materials Generation					Actual Quantities of C&D wastes Generation					Actual Quantities of Recyclables Generation					
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fills	Imported Fill	Marine Sediment, Cat. L	Marine Sediment, Cat. Mp	Marine Sediment, Cat. Mf	Marine Sediment, Cat. H	Chemical Waste	General Refuse	Metals	Felled trees	Paper/ cardboard packaging	Plastics
Unit	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)
Jan	1.941	0.263	0.606	-	1.334	-	-	-	-	-	-	69.400	-	-	0.105	-
Feb	0.783	0.185	0.092	-	0.692	-	-	-	-	-	-	85.890	-	-	0.112	-
Mar	1.502	0.429	0.537	-	0.965	-	-	-	-	-	2.000	88.360	-	-	-	-
Apr	1.354	0.402	0.789	-	0.565	-	-	=	-	-	3.000	79.580	-	8.640	0.084	-
May	-		-													
Jun	-		-													
SUB-TOTAL	5.580	1.278	2.024	-	3.556	0.000	-	-	-	-	5.000	323.230	-	8.640	0.301	-
Jul																
Aug																
Sep																
Oct																
Nov																
Dec																
TOTAL	5.580	1.278	2.024	-	3.556	-	-		-	-	5.000	323.230	-	8.640	0.301	-

Notes:

- 1 The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- 2 Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- 3 Broken concrete for recycling into aggregates.
- 4 Assumed 5 kg per damaged water-filled barrier.
- 5 'Reused in the Contract' and 'Disposed as Public Fills' include 'Hard Rock and Large Broken Concrete'.

Appendix N

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

Appendix N1 Cumulative Statistics on Exceedances

		Total No. recorded in this reporting month	Total No. recorded since project commencement
1-Hr TSP	Action	0	0
	Limit	0	0
24-Hr TSP	Action	0	2
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Water Quality	Action	0	2
	Limit	0	0
Impact Dolphin	Action	0	9
Monitoring	Limit	0	4

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

Reporting Period	Cumulative Statistics						
	Complaints	Notifications of	Successful				
		Summons	Prosecutions				
This Reporting Month (April 2016)	0	0	0				
Total No. received since project commencement	4	0	0				