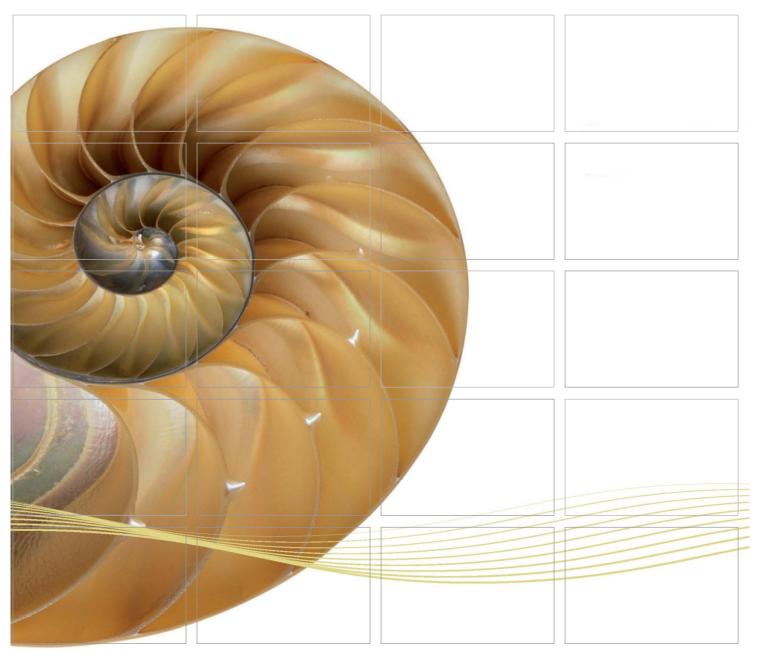
REPORT



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

Forty-Third Monthly EM&A Report

12 June 2017

Environmental Resources Management

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

www.erm.com





Ref.: HYDHZMBEEM00_0_5459L.17

13 June 2017

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

43rd Monthly EM&A Report for May 2017 (EP-354/2009/D)

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (May 2017) (ET's ref.: "0215660_43rd Monthly EM&A_20170612.doc" dated 12 June 2017) certified by the ET Leader and provided to us via e-mail on 13 June 2017.

Please be informed that we have no adverse comments on the captioned 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. Tsana

Independent Environmental Checker

Tuen Mun - Chek Lap Kok Link

c.c.

HyD - Mr. Stephen Chan (By Fax: 3188 6614)

HyD - Mr. Vico Cheung (By Fax: 3188 6614)

AECOM - Mr. Conrad Ng (By Fax: 3922 9797)

ERM - Mr. Jovy Tam (By Fax: 2723 5660)

Gammon - Mr. Roy Leung (By Fax: 3520 0486)

Internal: DY, YH, PSC, ENPO Site

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

Forty-Third 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	0215660			
Summary	:	Date: 12 June Approved			
This document presents the Forty-Third Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.					
		Mr Crai	y Neiu		
		Certified I	ov:		
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		Mr Jovy ET Leade			
	Forty-Third Monthly EM&A Report	VAR	JT	CAR	12/06/17
Revision	Description	Ву	Checked	Approved	Date
'ERM Hong- Contract wit taking accou	has been prepared by Environmental Resources Management the trading name of Kong, Limited', with all reasonable skill, care and diligence within the terms of the the client, incorporating our General Terms and Conditions of Business and ant of the resources devoted to it by agreement with the client. I any responsibility to the client and others in respect of any matters outside the above.	Distribution Internal Public Confidential		Certificate	5 18001:2007 No. OHS 515956 BSJ No. OHS 515956 BSJ No. OHS 515956 BSJ No. OHS 515956



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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.

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

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

This is the Forty-third Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 May 2017 for the Southern Connection Viaduct Section in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

Marine Works

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

Installation of deck segment and pier head segment.

Land-based Works

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

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

24-hour TSP Monitoring 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 5 sessions

Breaches of Action and Limit Levels for Air Quality

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

Breaches of Action and Limit Levels for Noise

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

Breaches of Action and Limit Levels for Water Quality

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

Impact Dolphin Monitoring

One (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between March and May 2017, whilst no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) 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, in which 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 Chinese White Dolphin was recorded in May 2017 during the exclusion zone monitoring.

Environmental Complaints, Non-compliance & Summons

There was one (1) environmental case referred by Environmental Project Office (ENPO) on 18 April 2017 regarding an enquiry from Environmental Protection Department (EPD) related to suspected muddy water discharge from Hong Kong - Zhuhai - Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) reported in the news on 17 April 2017. Upon investigation, the environmental case is considered as an enquiry and no complaint report would be included in this monthly EM&A report according to Environmental Complaint Handling Procedure (*Fig* 2.6).

There was one (1) complaint received from EPD on 31 May 2017 regarding construction dust nuisance near site exit of Hong Kong Boundary Crossing Facilities of Hong Kong-Zhuhai-Macao Bridge related Hong Kong projects in the reporting period. As the case is under investigation, a detailed investigation report will be provided in the next reporting period.

There was no 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 June 2017 include the following:

Marine Works

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

Land-based Works

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

Future Key Issues

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of June 2017 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

1.1 BACKGROUND

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

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

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

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

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

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

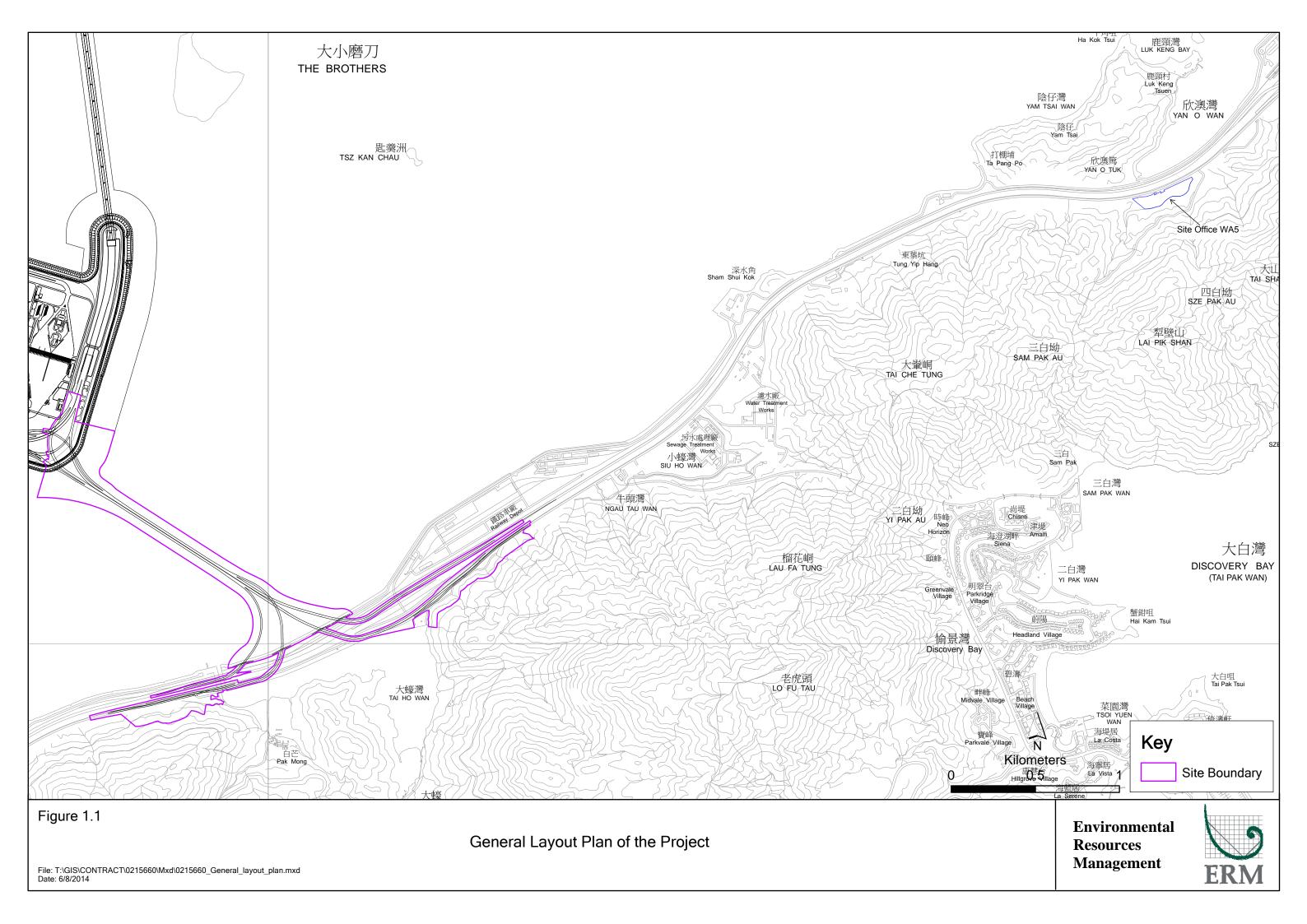
The general layout plan of the Contract components is presented in *Figures 1.1* & 1.2a to 1.

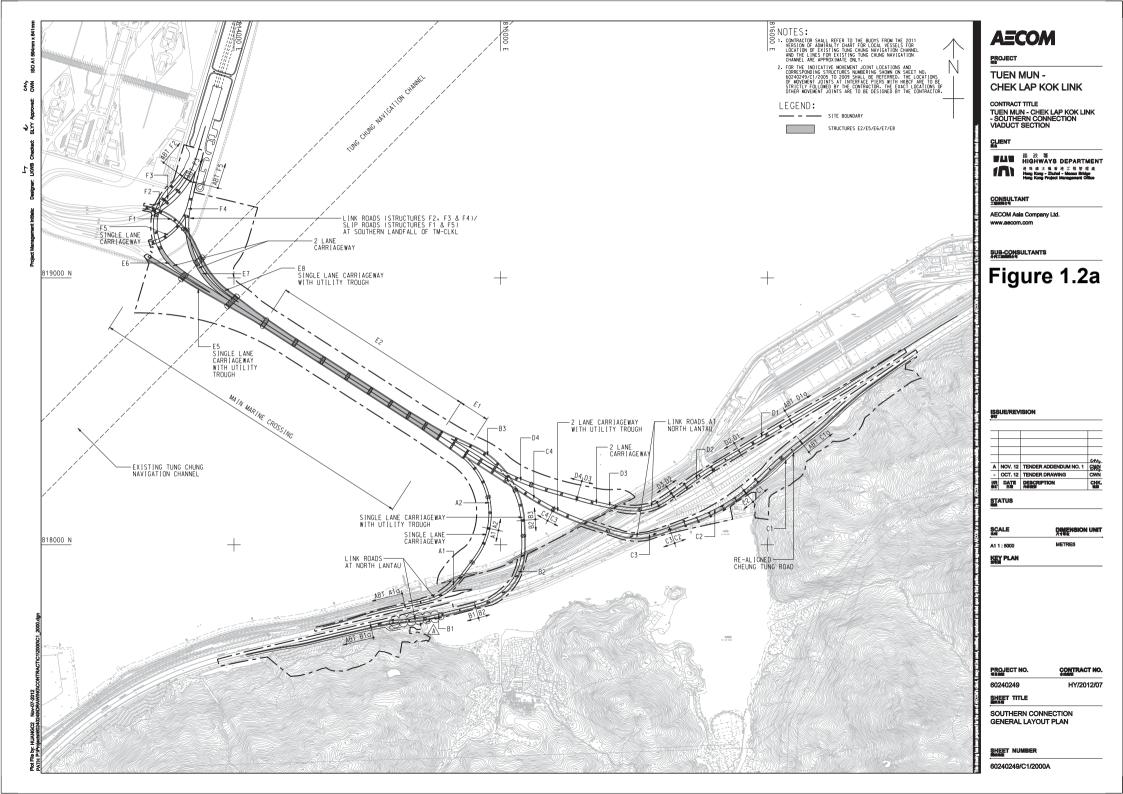
1.2 SCOPE OF REPORT

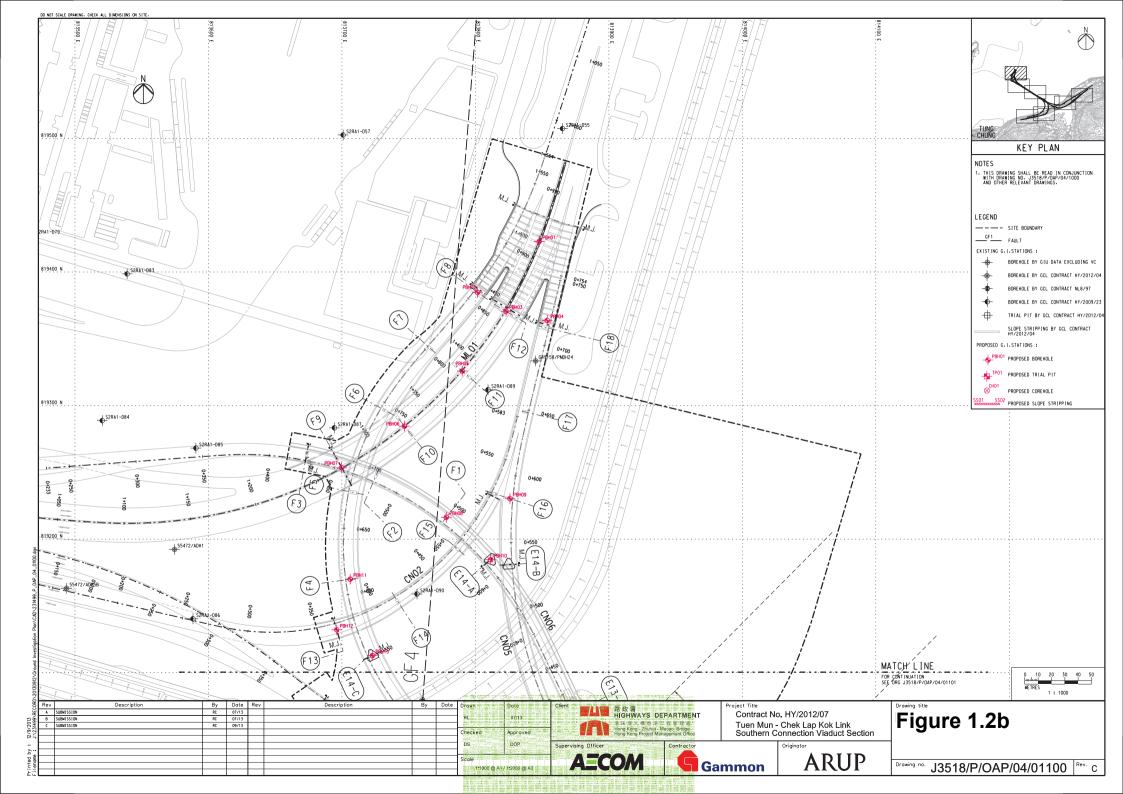
This is the Forty-third Monthly EM&A Report under the *Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.* This report presents a summary of the environmental monitoring and audit works in May 2017.

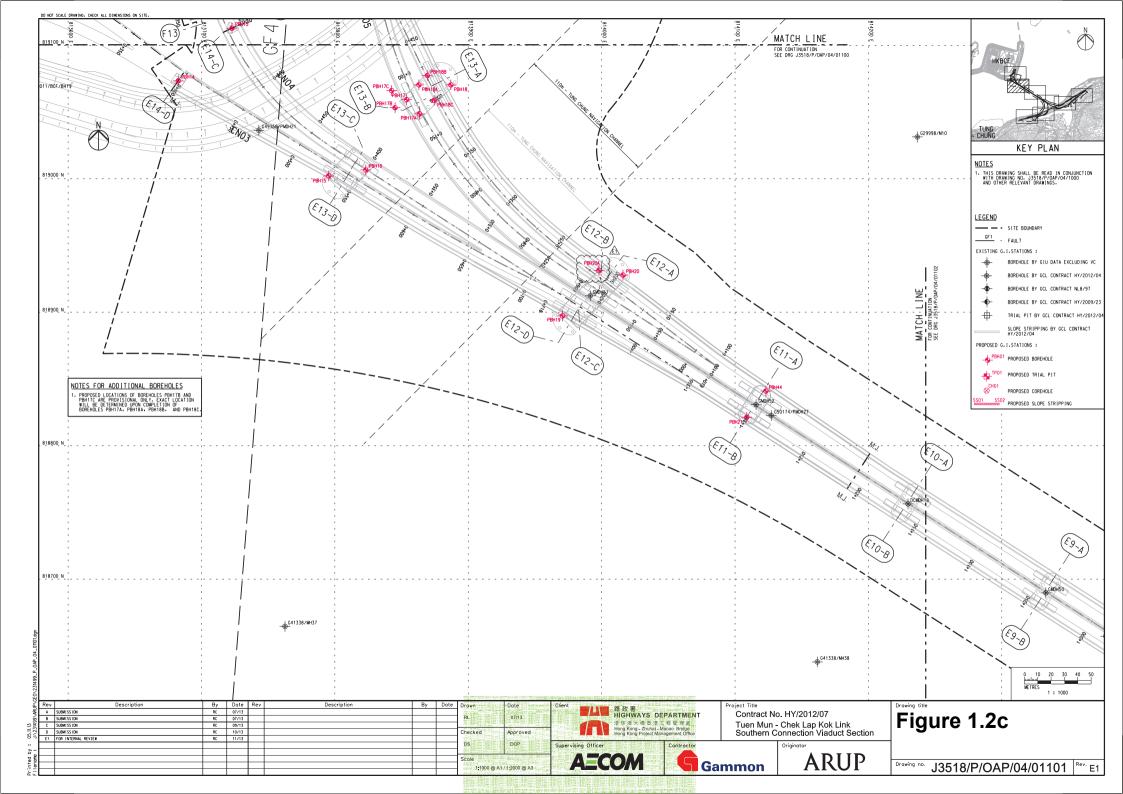
1.3 ORGANIZATION STRUCTURE

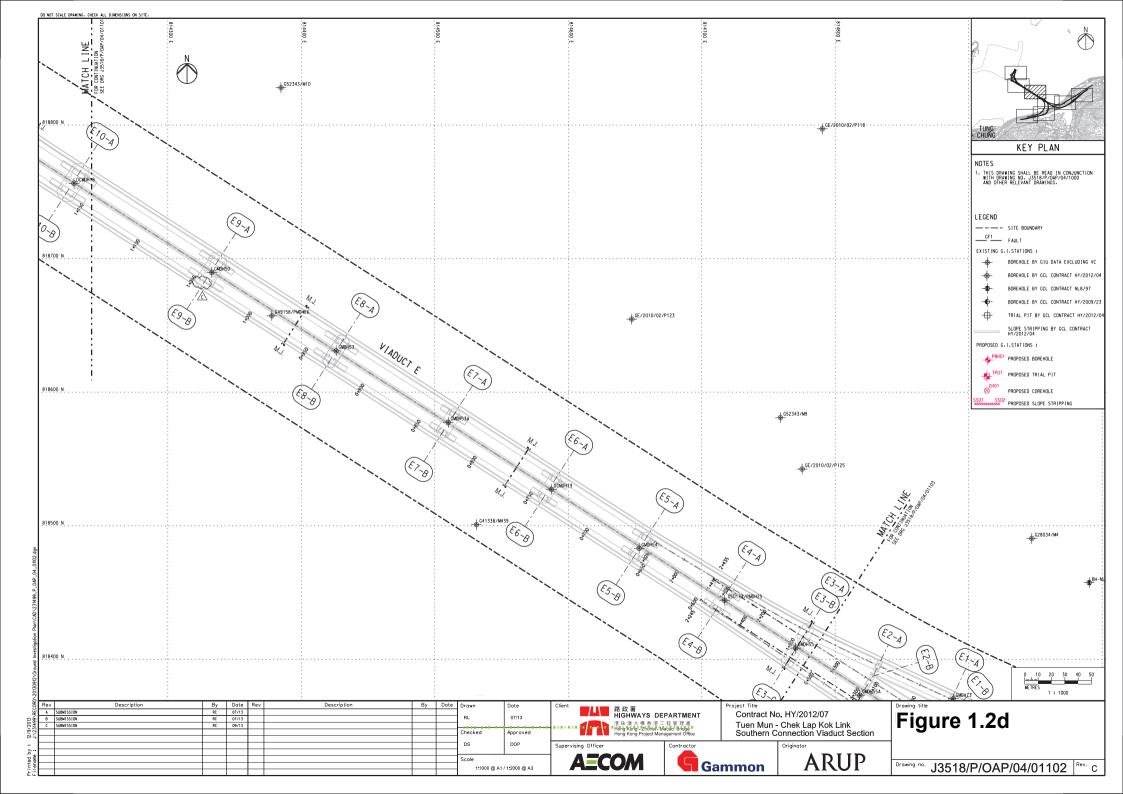
The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

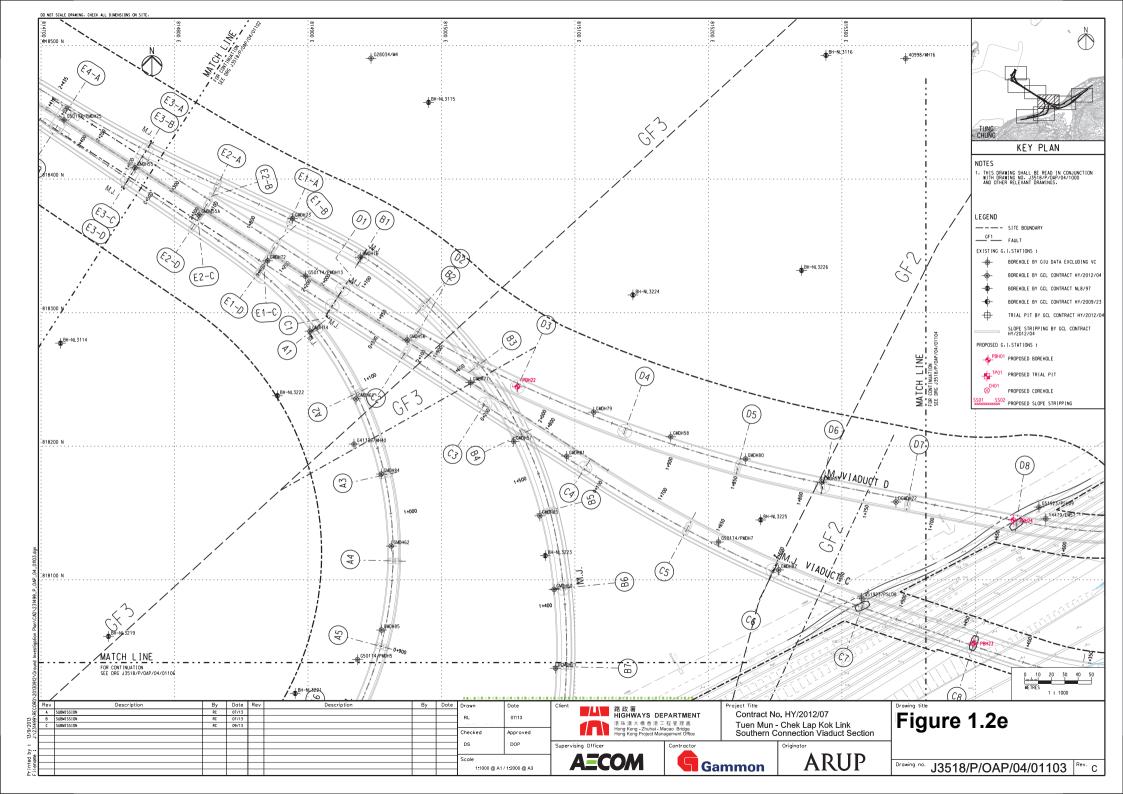


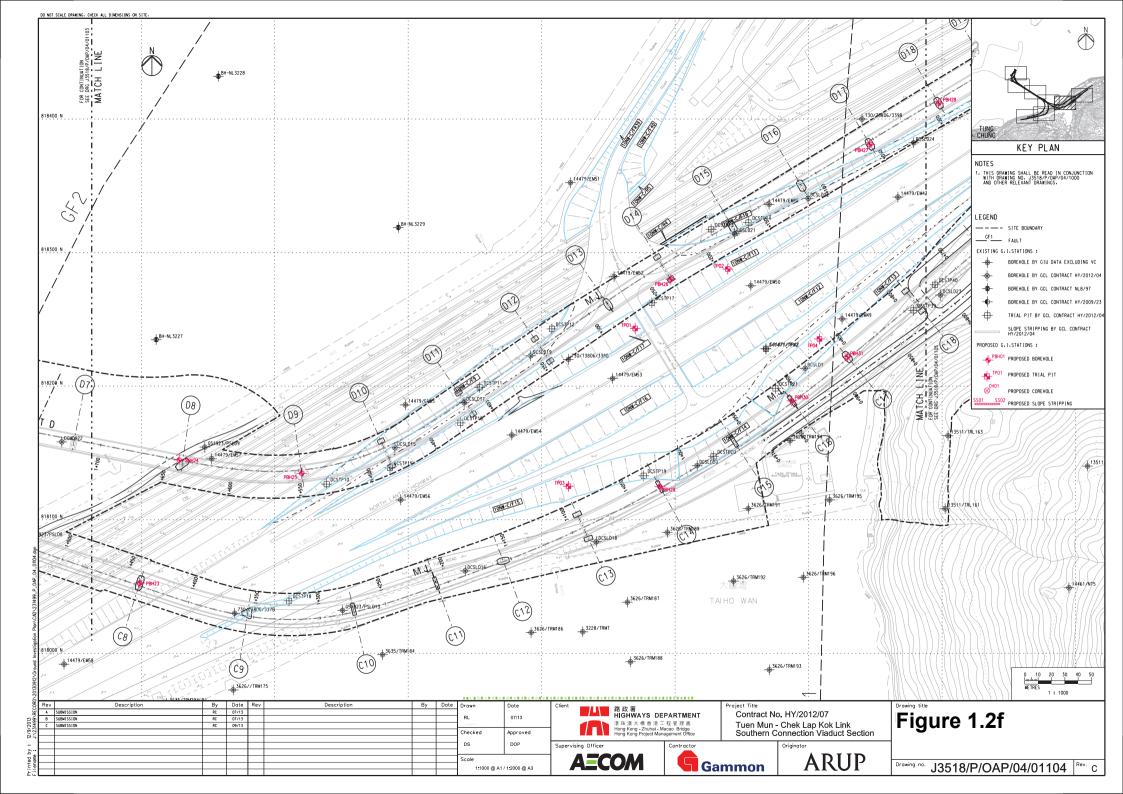


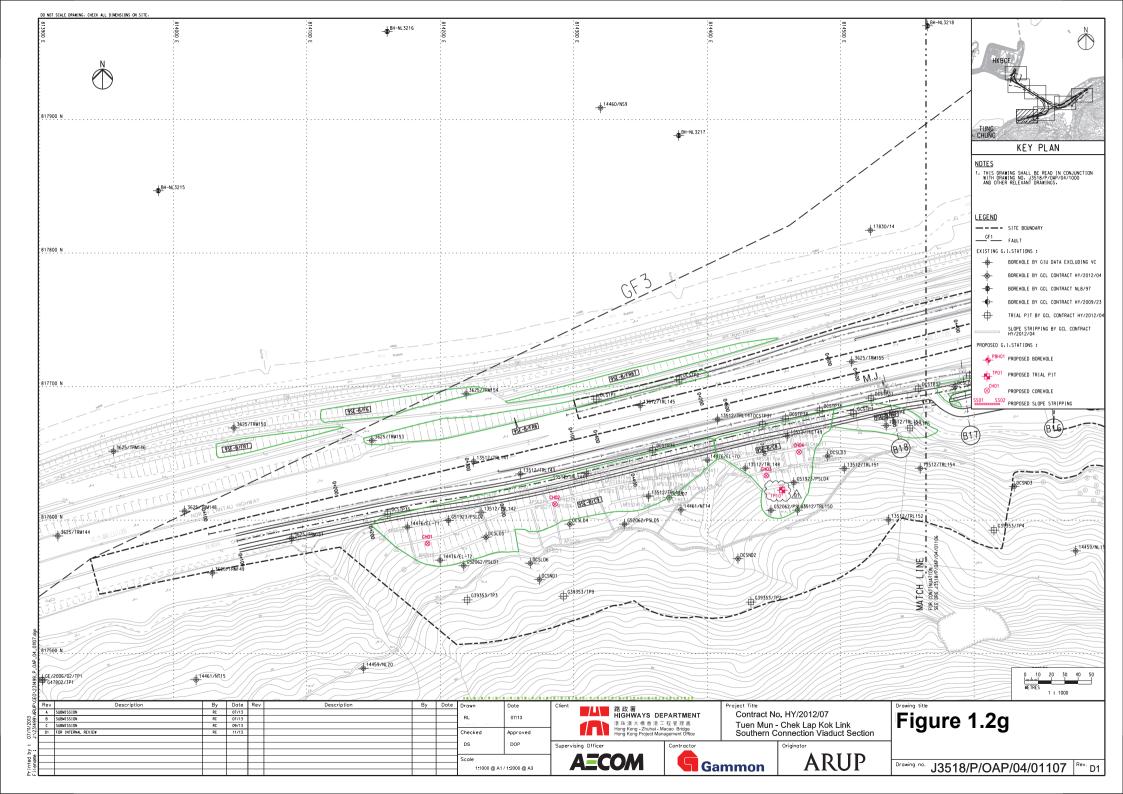


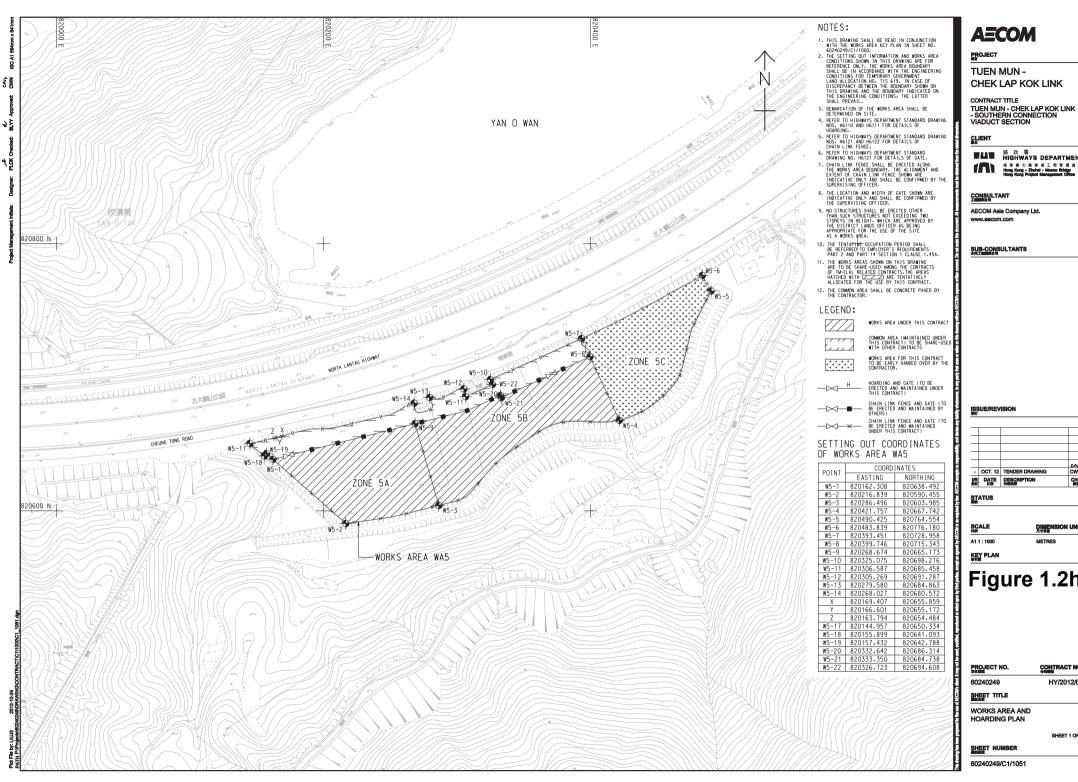












AECOM

TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

■ B 政 署 HIGHWAYS DEPARTMENT

CONSULTANT

AECOM Asia Company Ltd.

SUB-CONSULTANTS

ISSUE/REVISION

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

Figure 1.2h

PROJECT NO.

CONTRACT NO. HY/2012/07

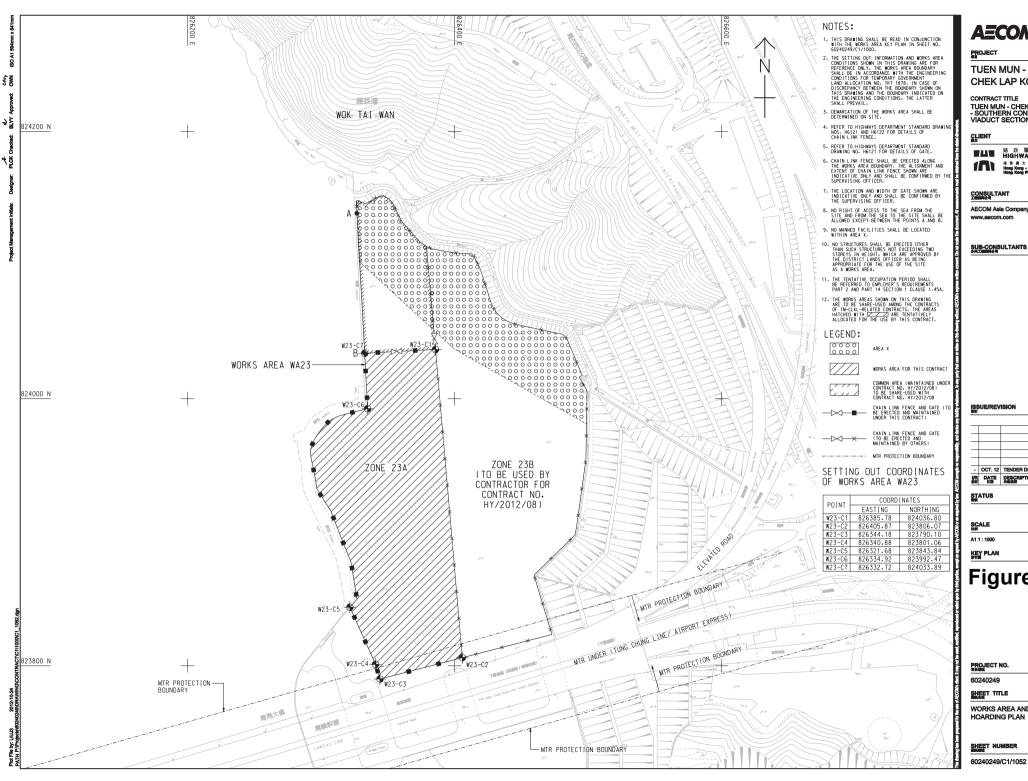
SHEET TITLE

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.

SUB-CONSULTANTS

SSUE/REVISION

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CONTRACT NO. HY/2012/07

SHEET TITLE

WORKS AREA AND HOARDING PLAN

SHEET 2 OF 2

SHEET NUMBER

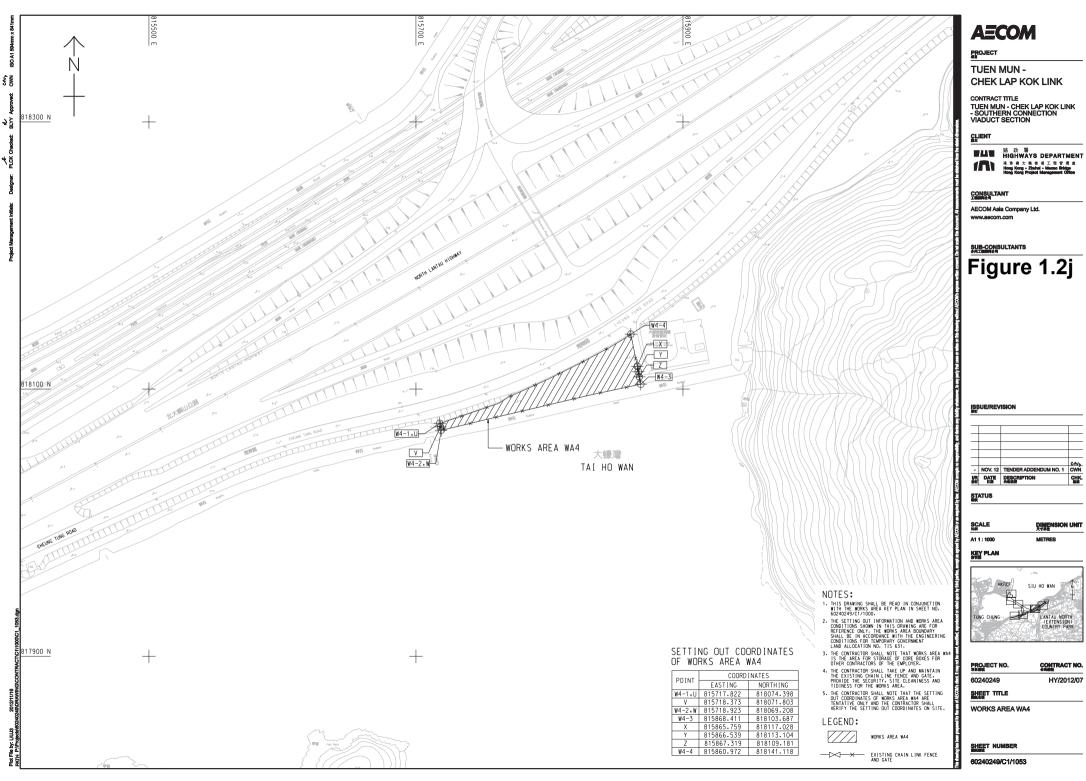
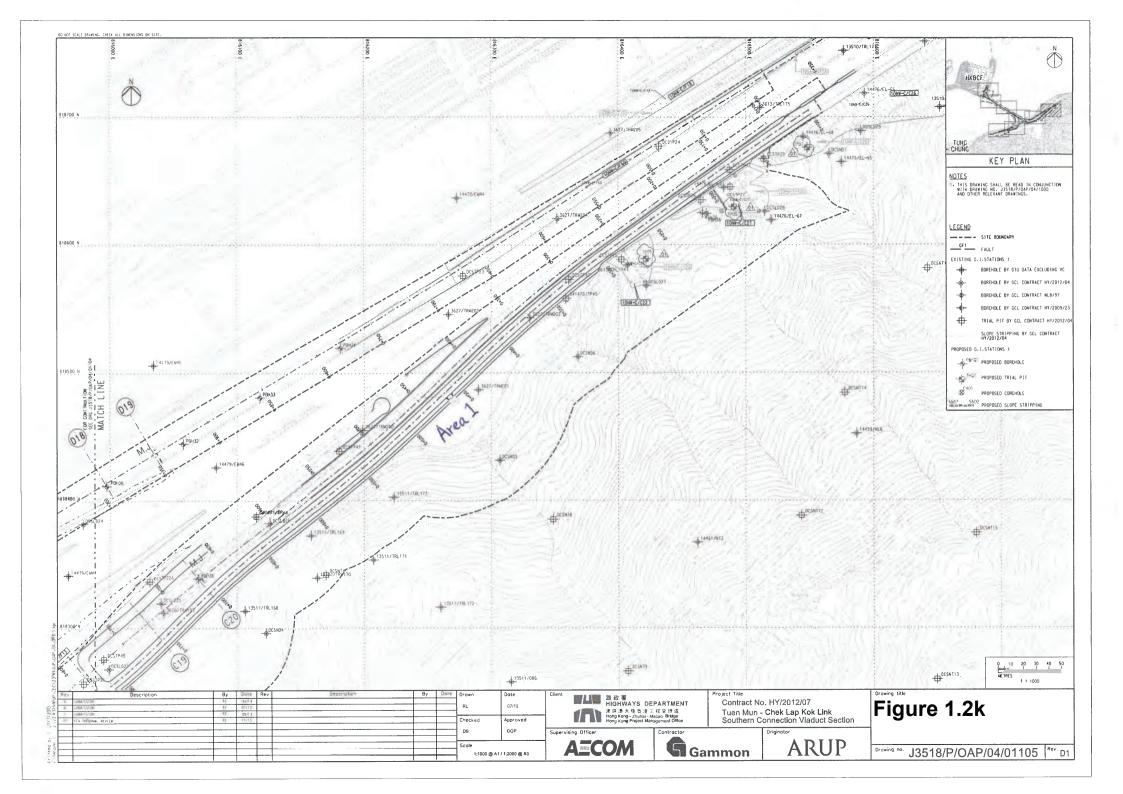


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HY/2012/07



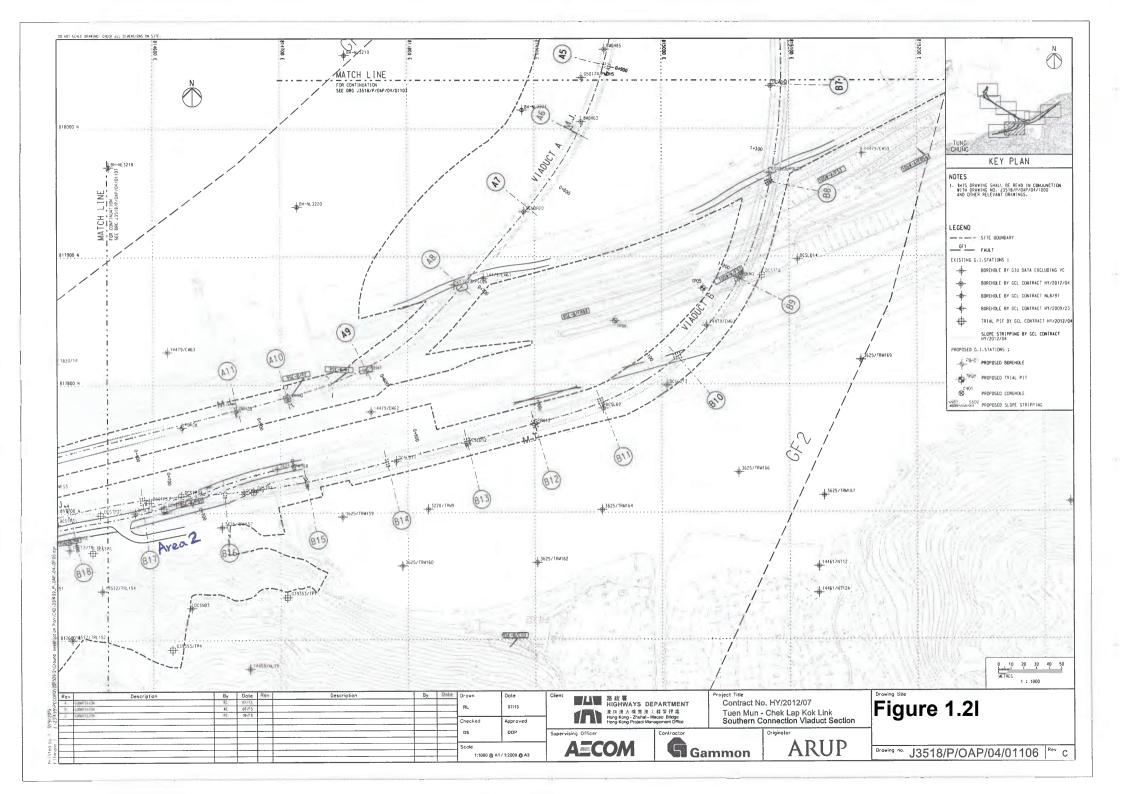


Table 1.1 Contact Information of Key Personnel

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	3465 2850	3465 2899
Hong Kong Ltd.)	IEC	Dr. F.C. Tsang	3465 2851	3465 2899
Contractor (Gammon Construction Limited)	Environmental Manager	Brian Kam	3520 0387	3520 0486
,	Environmental Officer	Roy Leung	3520 0387	3520 0486
	24-hour Complaint Hotline		9738 4332	
ET (ERM-HK)	ET Leader	Jovy Tam	2271 3113	2723 5660

1.4 SUMMARY OF CONSTRUCTION WORKS

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

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

Marine Works

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

Land-based Works

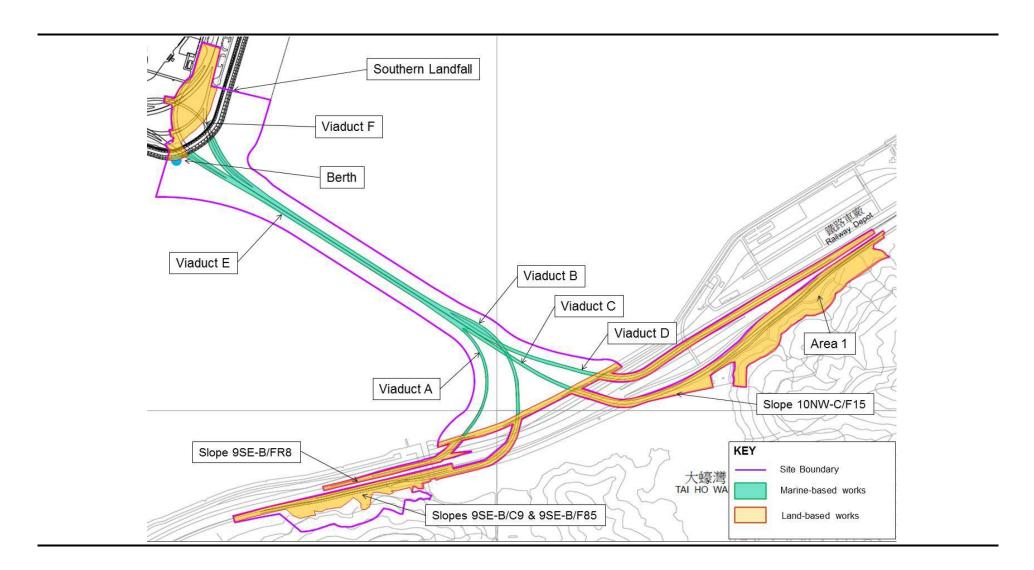
- Pier construction;
- Re-alignment of Cheung Tung Road;
- Road works along North Lantau Highway;

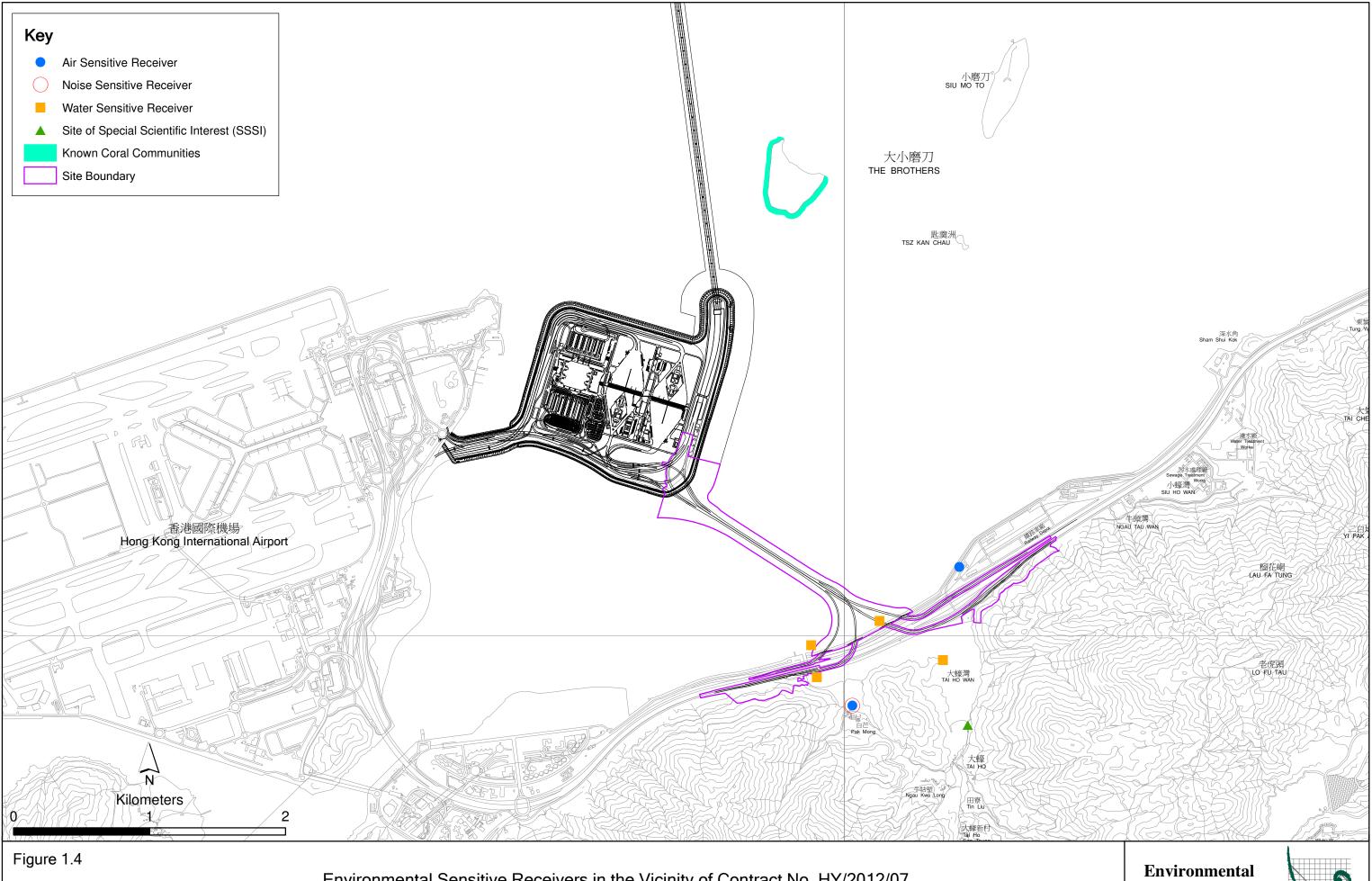
- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

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

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

Figure 1.3 Locations of Major Construction Activities in the Reporting Month





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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	2, 6, 12, 18, 24 and 27
		MTR Depot Entrance	May 2017
ASR 8A	Area 4	On ground at the works	2, 6, 12, 18, 24 and 27
		area, Area 4	May 2017

High Volume Samplers (HVSs) were used for carried out 1-hour and 24-hour TSP monitoring on 2, 6, 12, 18, 24 and 27 May 2017 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 meter 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*.

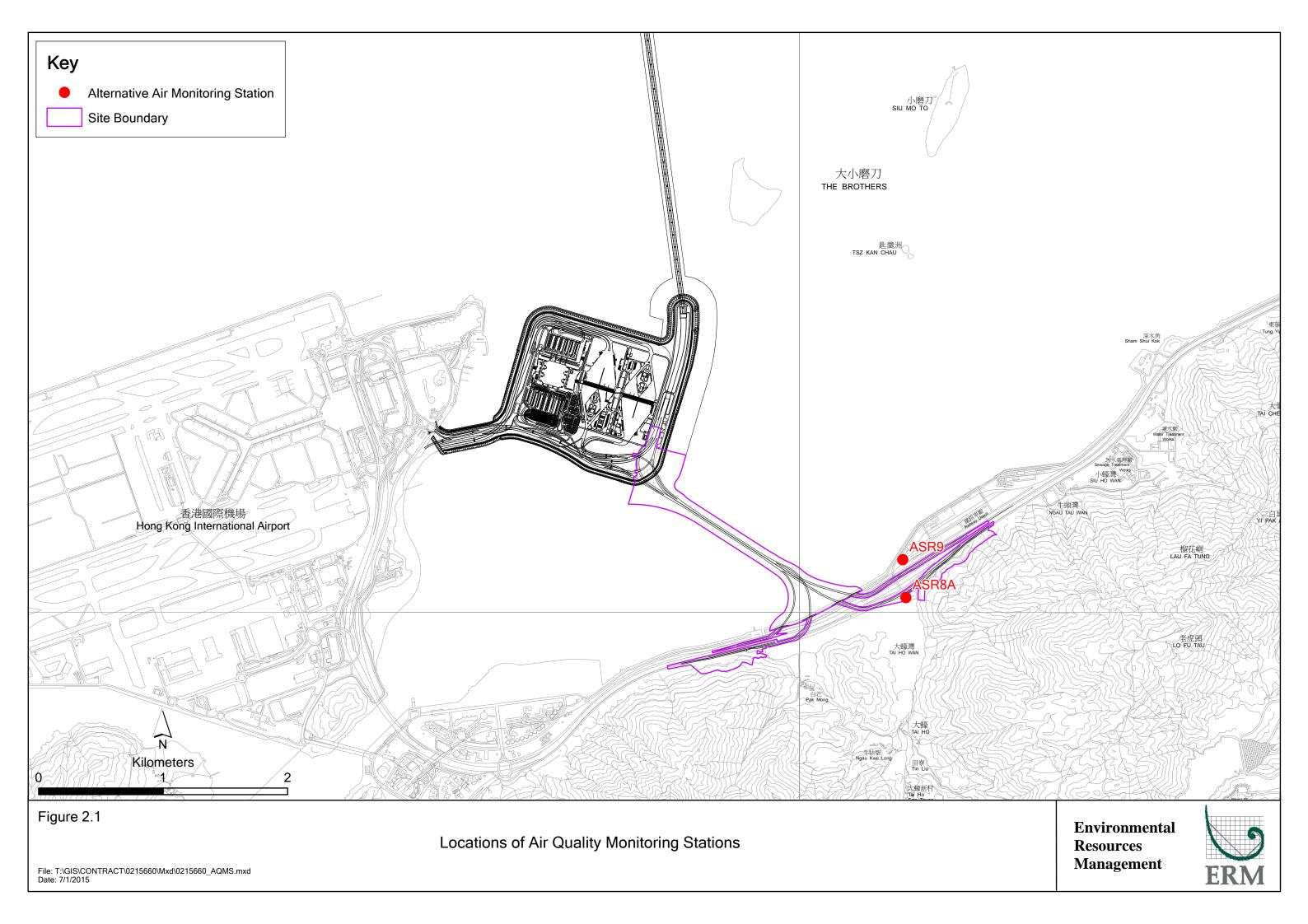


Table 2.2 Air Quality Monitoring Equipment

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 May 2017 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	91	50-200	394	500
ASR 9	131	66-263	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	47	39-65	178	260
ASR 9	59	48-67	178	260

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

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

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

2.2 Noise Monitoring

2.2.1 Monitoring Requirements and Equipment

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

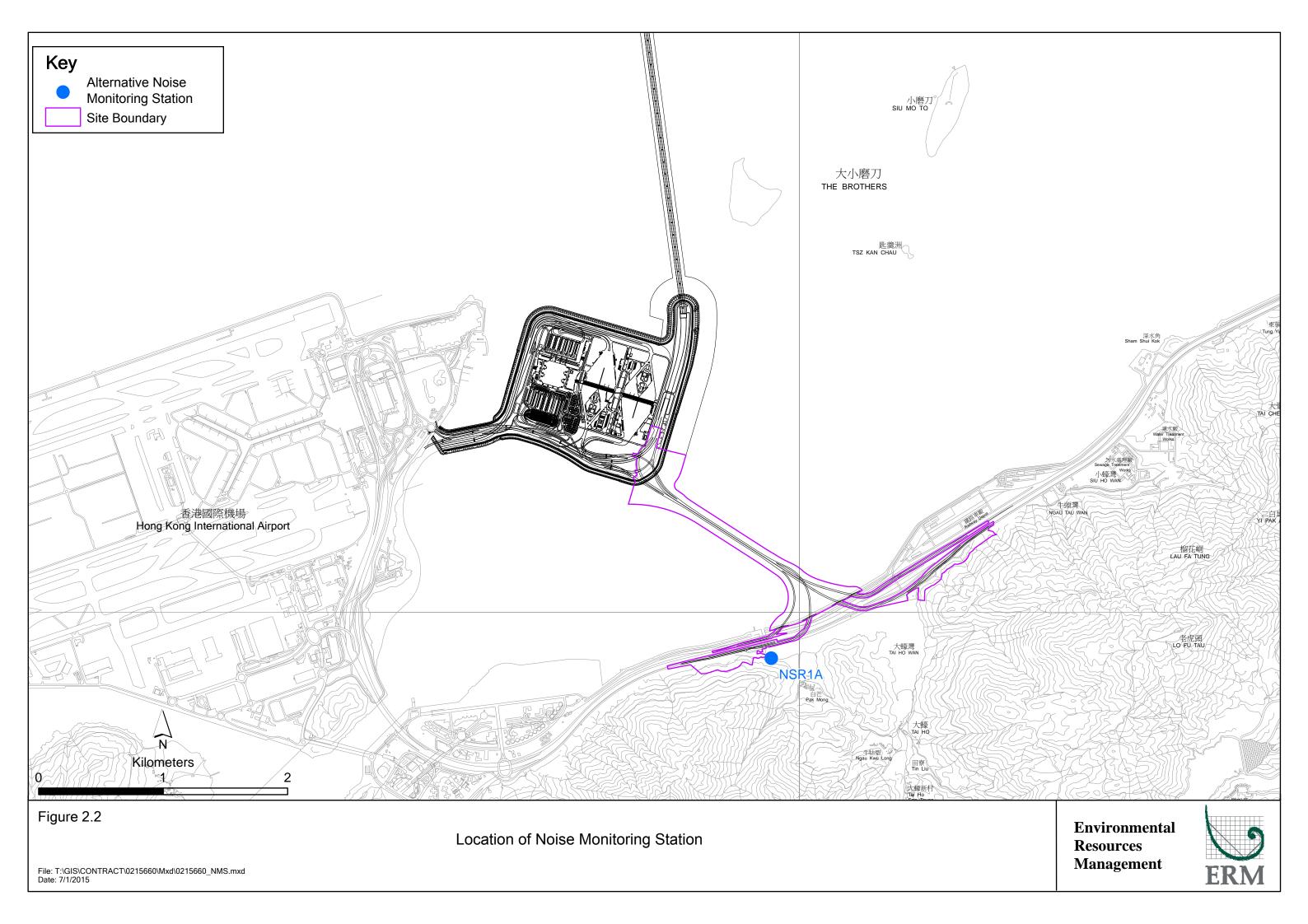
Noise monitoring was performed on 2, 6, 12, 18, 24 and 27 May 2017 using sound level meter at the designated monitoring station NSR1A (*Figure 2.2*; *Table 2.5*) in accordance with the requirements stipulated in the Updated EM&A Manual. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Details of the deployed equipment are provided in *Table 2.6*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

Table 2.5 Location of Impact Noise Monitoring Station

Monitoring Station	Location	Description	Parameter	Frequency and Duration	Monitoring Dates
NSR 1A	Pak Mong Village Pavilion	On the ground at the village entrance	30-minute measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L _{eq} , L ₁₀ and L ₉₀ would be recorded.	At least once per week	2, 6, 12, 18, 24 and 27 May 2017

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	61	60-63	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, hammering and sawing, 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*.

Due to Three-Runway System (3RS) marine construction works, an alternative water quality control station CS(Mf)3(N) was proposed to replace control station CS(Mf)3. The *Proposal of Alternative Water Quality Monitoring Station* ⁽¹⁾ was submitted to EPD on 31 March 2017 and granted on 6 April 2017. Water quality monitoring at CS(Mf)3(N) is undertaken since 2 May 2017. The locations of the monitoring stations under the Contract are shown in *Figure 2.3* and *Table 2.8*.

The Proposal of Alternative Water Quality Monitoring Station with the verification letter from IEC was submitted to EPD on 31 March 2017, and subsequently replied with no objection on.6 April 2017.

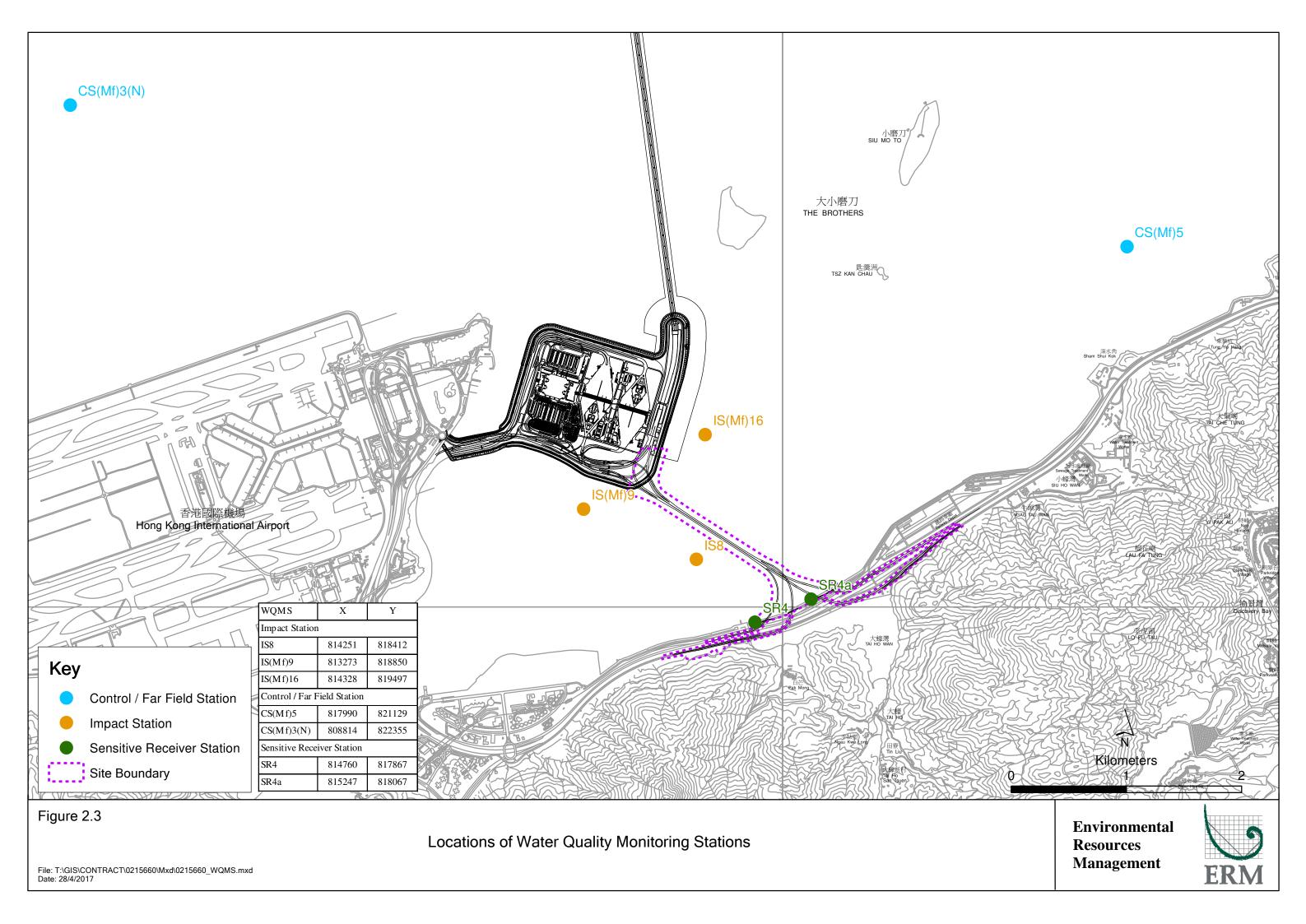


Table 2.8 Locations of Impact Water Quality Monitoring Stations and its Corresponding Monitoring Requirements

Station ID	Type	Coord	linates	*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)			 Dissolved 	mid-ebb tides	less than 3m, mid-
IS8	Impact Station	814251	818412	Oxygen (DO)	during the	depth sampling
	(Close to HKBCF			(mg/L and % of	construction	only. If water
	construction site)			saturation)	period of the	depth less than 6m,
SR4	Sensitive receiver	814760	817867	• Suspended Solid	Contract	mid-depth may be
	(Tai Ho Inlet)			(SS) (mg/L)		omitted
SR4a	Sensitive receiver	815247	818067			
CS(Mf)3(Control Station	808814	822355			
N)						
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.

Water Quality Monitoring Station CS(Mf)3 was relocated to CS(Mf)3(N) since 2 May 2017.

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	HANNA HI8314 / HANNA HI9125
Positioning Equipment	Koden913MK2 with KBG-3 DGPS antenna
Water Depth Detector	Speedtech Instrument SM-5
147	V 4500 (4500 C05) 0.011
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 May 2017 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 Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) from the Contract. 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

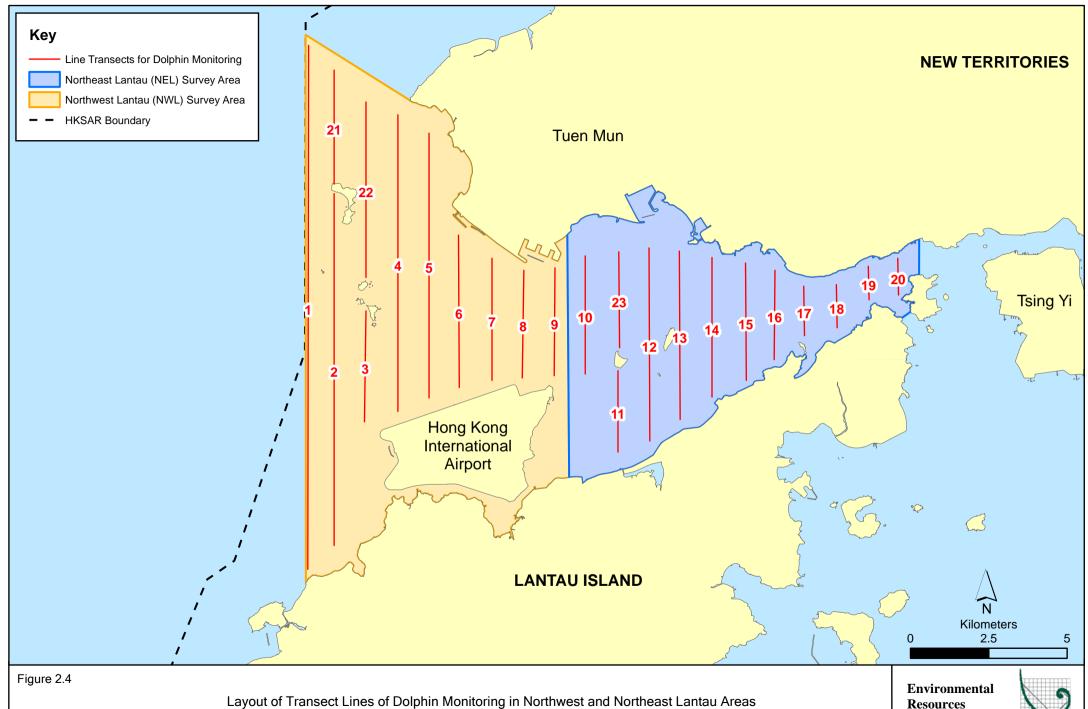
Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC
	Geo One Phottix
Camera	Nikon D90 300m 2.8D fixed focus Nikon D90 20-300m zoom lens
Laser Binoculars	Infinitor LRF 1000
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules
Vessel for Monitoring	65 foot single engine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



File: T:\GIS\CONTRACT\0212330\Mxd\0212330_Transect_of_Dolphin_Monitoring.mxd Date: 10/12/2013

Resources Management



 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 18, 22, 24 and 26 May 2017 (*Appendix F*).

2.4.7 Results and Observations

A total of 273.34 km of survey effort was collected, with 97.70% 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 May 2017. Among the two areas, 109.60 km and 163.74 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 189.43 km and 83.91 km, respectively. The survey efforts are summarized in *Appendix K*.

One (1) group of 2 Chinese White Dolphins were sighted during the two sets of monitoring surveys in May 2017. The lone (1) dolphin sighting was made in NWL, while none was sighted in NEL. During the surveys in May 2017, the sighting was made during on-effort search on primary lines. The dolphin group was not associated with operating fishing vessel and was not 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 May 2017 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: May 18th / 22nd	0.0	0.0
NEL	Set 2: May 24th / 26th	0.0	0.0
NWL	Set 1: May 18th / 22nd	1.9	3.7
INVVL	Set 2: May 24th / 26th	0.0	0.0

Note: Dolphin Encounter Rates are deduced from the two sets of surveys (two surveys in each set) in May 2017 in Northeast (NEL) and Northwest Lantau (NWL)

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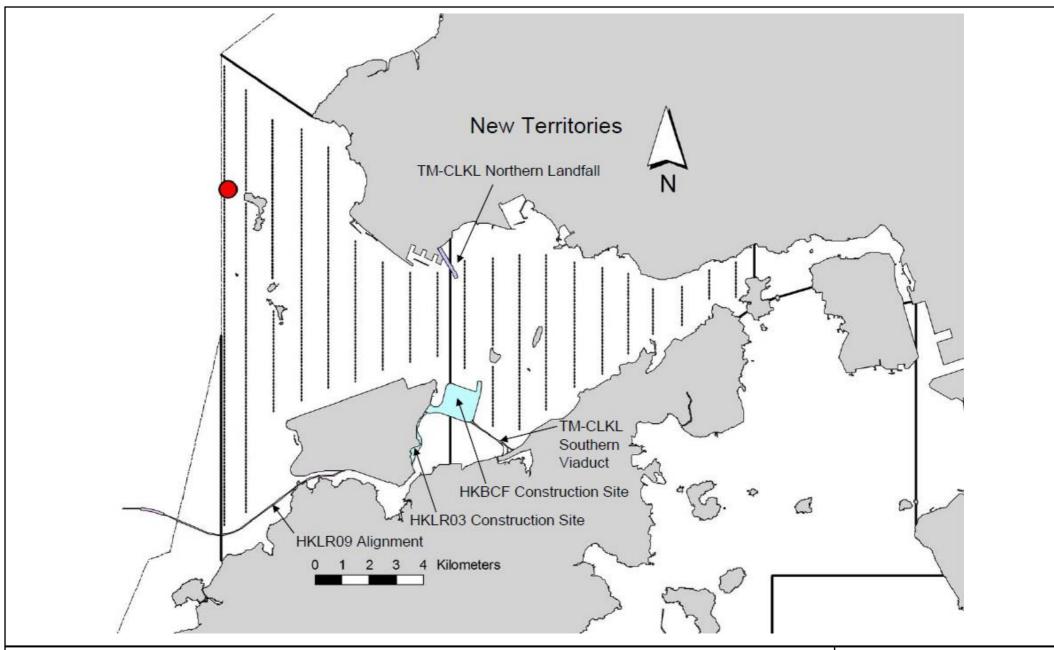


Figure 2.5

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 May 2017)

Environmental Resources Management



Table 2.13 Monthly Average Encounter Rates

	(no. of on-effort	rate (STG) dolphin sightings survey effort)	Encounter rate (ANI) (no. of dolphins from all on-ef sightings per 100 km of surv 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	0.9	1.8	1.6	1.3				

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in May 2017 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau

During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) 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, in which 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 Chinese White Dolphin was recorded in May 2017 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, five (5) site inspections were carried out on 4, 11, 16, 26 and 31 May 2017.

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
4 May 2017	Viaduct C (Pier C16)	Viaduct C (Pier C16)
	 Chemical containers were observed not 	 The Contractor was reminded to place
	placed in drip tray.	chemical containers in drip tray.
	Ramp C (Area I)	Ramp C (Area I)
	 Accumulated general refuse should be 	 The Contractor was reminded to clear
	cleared regularly.	accumulated general refuse.
	 Chemical containers were observed not 	 The Contractor was reminded to place
	placed in drip tray.	chemical containers in drip tray.
11 May 2017	Southern Landfall Portion A (Portion S-c)	Southern Landfall Portion A (Portion S-c)
	 General refuse should be cleared. 	 The Contractor was reminded to clear
	 Watering should be maintained regularly 	accumulated general refuse.
	on unpaved road.	• The Contractor was reminded to maintain
		watering regularly on unpaved road.
16 May 2017	Viaduct C (Pier C11)	Viaduct C (Pier C11)
	 NRMM label should be displayed clearly 	• The Contractor was reminded to provide a
	on the excavator.	clear NRMM label on the excavator.
	 Sand bund should be provided to avoid 	 The Contractor was reminded to provide
	surface runoff.	sand bund to avoid surface runoff.
26 May 2017	Viaduct E (Pier E3)	Viaduct E (Pier E3)
	Chemical containers were observed not	The Contractor was reminded to place
	placed in drip tray.	chemical containers in drip tray.
	Better housekeeping should be	The Contractor was reminded to keep
	maintained.	better housekeeping.
	Stagnant water inside drip tray should be	The Contractor was reminded to clear
	cleared.	stagnant water inside drip tray.
	Viaduct B (Pier B15)	Viaduct B (Pier B15)
	Accumulated general refuse should be	The Contractor was reminded to clear
21 14 2017	cleared regularly.	accumulated general refuse.
31 May 2017	Viaduct E (Pier E10)	Viaduct E (Pier E10)
	Stagnant water inside drip tray should be	The Contractor was reminded to clear
	cleared. Chemical containers were observed not	stagnant water inside drip tray.
	Chemical containers were observed not	The Contractor was reminded to place
	placed in drip tray. Viaduat E (Pior E11)	chemical containers in drip tray.
	Viaduct E (Pier E11) • Chemical containers were observed not	Viaduct E (Pier E11) The Contractor was reminded to place
		The Contractor was reminded to place The contractor was reminded to place
	placed in drip tray.	chemical containers in drip tray.
	Better housekeeping should be	The Contractor was reminded to keep Astronomy to a service as the servi
	maintained.	better housekeeping.

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

2.6 WASTE MANAGEMENT STATUS

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

Wastes generated during this reporting period include mainly construction wastes (inert and non-inert) and recyclable materials. Reference has been

made to the waste flow table prepared by the Contractor (*Appendix M*). The quantities of different types of wastes are summarized in Table 2.15.

Table 2.15 Quantities of Different Waste Generated in the Reporting Period

Month/Year	Inert C&D	Imported	Inert	Non-inert	Recyclable	Chemical	Marine Sec	diment (m³)
	Materials (a)	Fill (m³)	Construction	Construction	Materials (c)	Wastes	Category	Category
	(m³)		Waste Re-	Waste (b) (kg)	(kg)	(kg)	L	M
			used					(M _p &
			(m³)					$\mathbf{M}_{\mathbf{f}}$)
May 2017	4,134	0	826	171,870	56	0	0	0

Notes:

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

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

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

2.7 ENVIRONMENTAL LICENSES AND PERMITS

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

Table 2.16 Summary of Environmental Licensing and Permit Status

License/ Permit	License or Permit	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/K	11 April 2016	N/A	HyD	Hong Kong Boundary Crossing Facilities
Construction Dust Notification	361571	5 Jul 2013	N/A	GCL	
Construction Dust Notification	362093	17 Jul 2013	N/A	GCL	For Area 23
Chemical Waste Registration	5213-961-G2380-13	10 Oct 2013	N/A	GCL	Chemical waste produced in Contract No. HY/2012/07
					(Area 1 adjacent to Cheng Tung Road, Siu Ho Wan)
Chemical Waste Registration	5213-961-G2380-14	10 Oct 2013	N/A	GCL	Chemical waste produced in Contract No. HY/2012/07
					(Area 2 adjacent to Cheung Tung Road, Pak Mong Village)
Chemical Waste Registration	5213-974-G2588-03	4 Nov 2013	N/A	GCL	Chemical waste produced in Contract No. HY/2012/07
					(WA5 adjacent to Cheung Tung Road, Yam O)
Chemical Waste Registration	5213-951-G2380-17	12 Jun 2014	N/A	GCL	Viaducts A, B, C, D & E
Construction Waste Disposal Account	7017735	10 Jul 2013	N/A	GCL	-
Construction Waste Disposal Account	7019470	3 Mar 2014	N/A	GCL	Vessel CHIT Account
Waste Water Discharge License	WT00019017-2014	13 May 2014	31 May 2019	GCL	Discharge for marine portion
Waste Water Discharge License	WT00019018-2014	13 May 2014	31 May 2019	GCL	Discharge for land portion
Construction Noise Permit for night works and works in general holidays	GW-RW0708-16	20 Dec 2016	18 Jun 2017	GCL	General works at WA5
Construction Noise Permit for night works and works in general holidays	GW-RS1309-16	20 Dec 2016	19 Jun 2017	GCL	Broad Permit for Whole Site Areas
Construction Noise Permit for night works and works in general holidays	GW-RS0157-17	28 Feb 2017	31 May 2017	GCL	Broad Permit for Segment Launching at Land Portion
Construction Noise Permit for night works and works in general holidays	GW-RS0295-17	13 Apr 2017	12 Oct 2017	GCL	Pre-casted pile cap shell installation at E8-E13
Construction Noise Permit for night works and works in general holidays	GW-RS0408-17	11 May 2017	30 Sept 2017	GCL	Pre-casted pile cap shell installation at E8-E13
Marine Dumping Permit	EP-MD-17-153	01 Jan 2017	30 Jun 2017	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

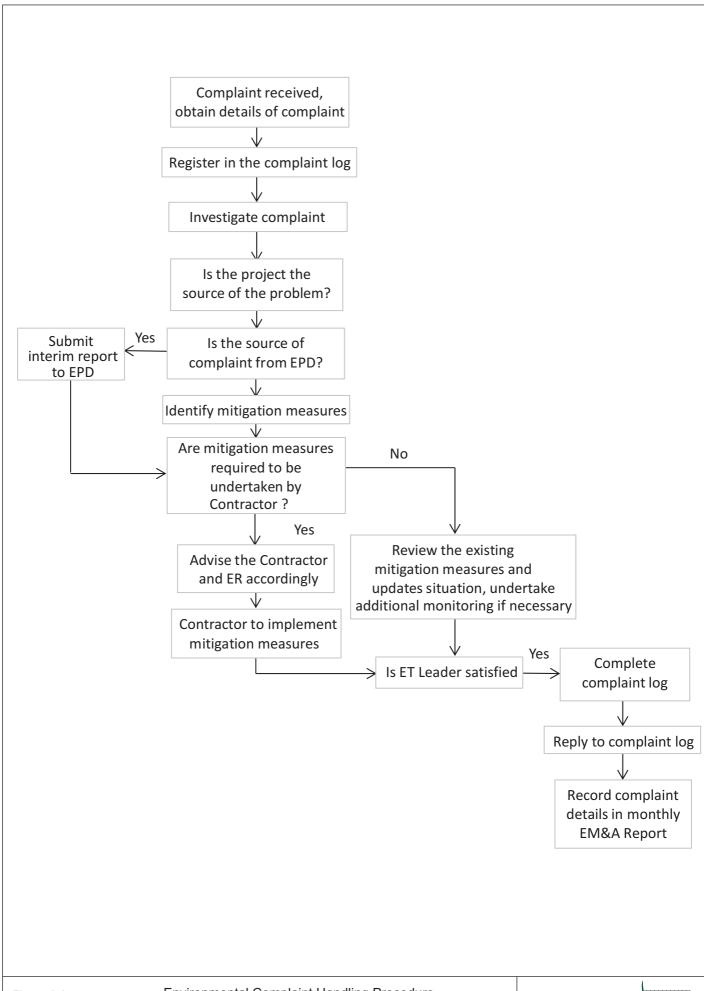
The Environmental Complaint Handling Procedure is provided in *Figure 2.6*.

There was one (1) environmental case referred by Environmental Project Office (ENPO) on 18 April 2017 regarding an enquiry from Environmental Protection Department (EPD) related to suspected muddy water discharge from Hong Kong - Zhuhai - Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) reported in the news on 17 April 2017. Upon investigation, the environmental case is considered as an enquiry and no complaint report would be included in this monthly EM&A report according to Environmental Complaint Handling Procedure (*Fig* 2.6).

There was one (1) complaint received from EPD on 31 May 2017 regarding construction dust nuisance near site exit of Hong Kong Boundary Crossing Facilities of Hong Kong-Zhuhai-Macao Bridge related Hong Kong projects in the reporting period. As the case is under investigation, a detailed investigation report will be provided in the next reporting period.

There was no 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 MONTH

As informed by the Contractor, the major works for this Contract in June 2017 will be:

Marine Works

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

Land-based Works

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

3.2 KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of June 2017 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 June 2017 are provided in *Appendix F*.

4 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This Forty-third Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 May 2017 in accordance with the Updated EM&A Manual and the requirements of the Environmental Permits (*EP-354/2009/D* and *EP-353/2009/K*).

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

One (1) group of 2 Chinese White Dolphins was sighted during the two sets of monitoring surveys in May 2017. One (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between March and May 2017, whilst no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) was noticeable from general observations.

Environmental site inspection was carried out five (5) times in May 2017. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

There was one (1) environmental case referred by Environmental Project Office (ENPO) on 18 April 2017 regarding an enquiry from Environmental Protection Department (EPD) related to suspected muddy water discharge from Hong Kong - Zhuhai - Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) reported in the news on 17 April 2017. Upon investigation, the environmental case is considered as an enquiry and no complaint report would be included in this monthly EM&A report according to Environmental Complaint Handling Procedure (Fig 2.6).

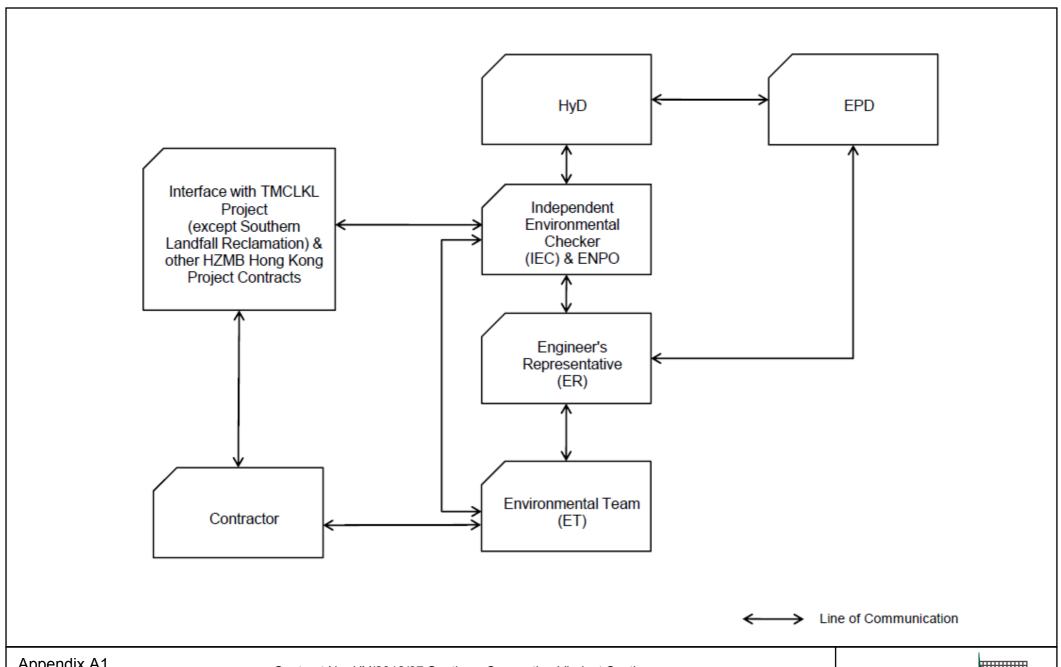
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There was no notification of summons or successful prosecution recorded in the reporting period.

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

Appendix A

Project Organization for Environmental Works



Appendix A1

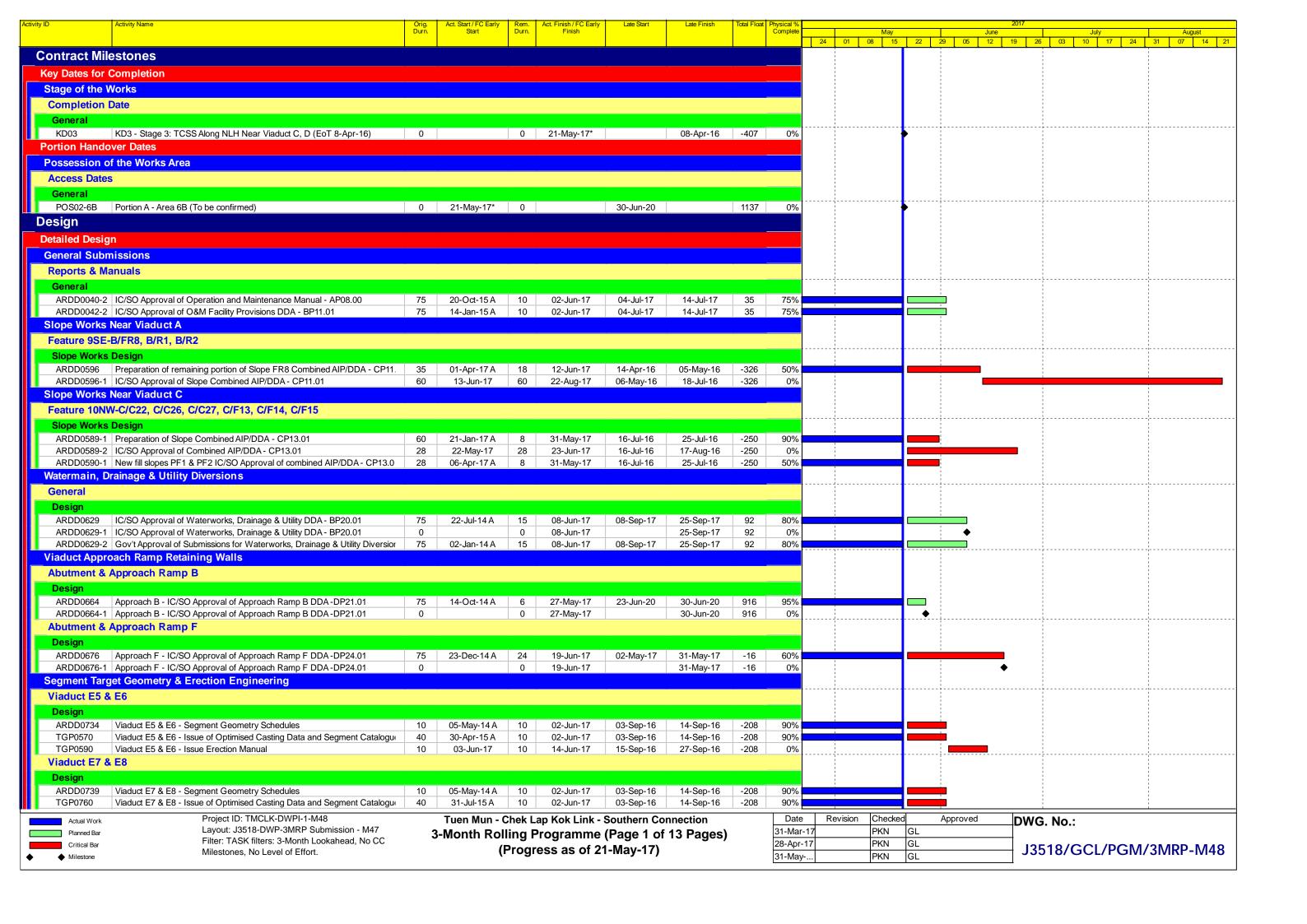
Contract No. HY/2012/07 Southern Connection Viaduct Section **Project Organization**

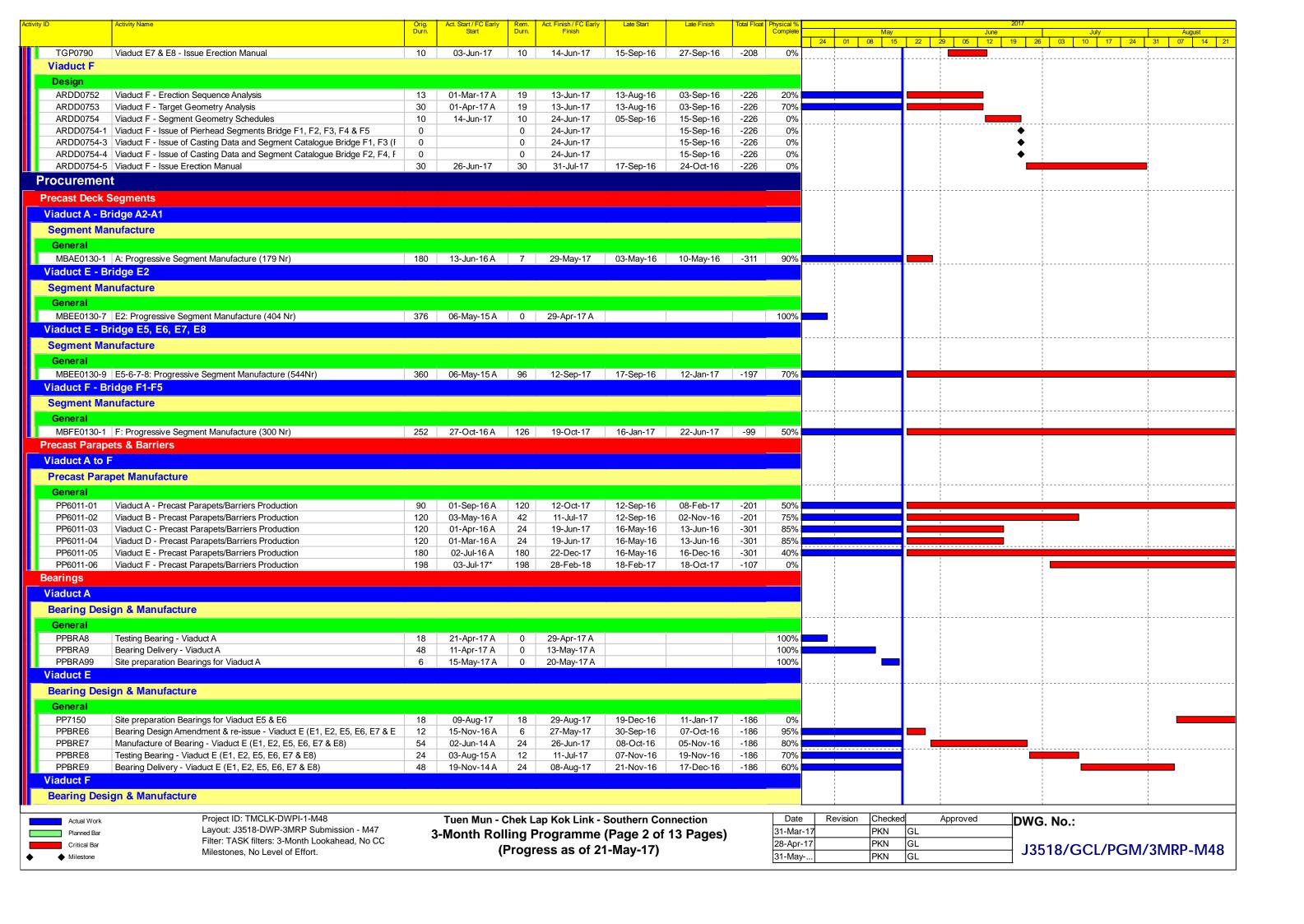
Environmental Resources Management

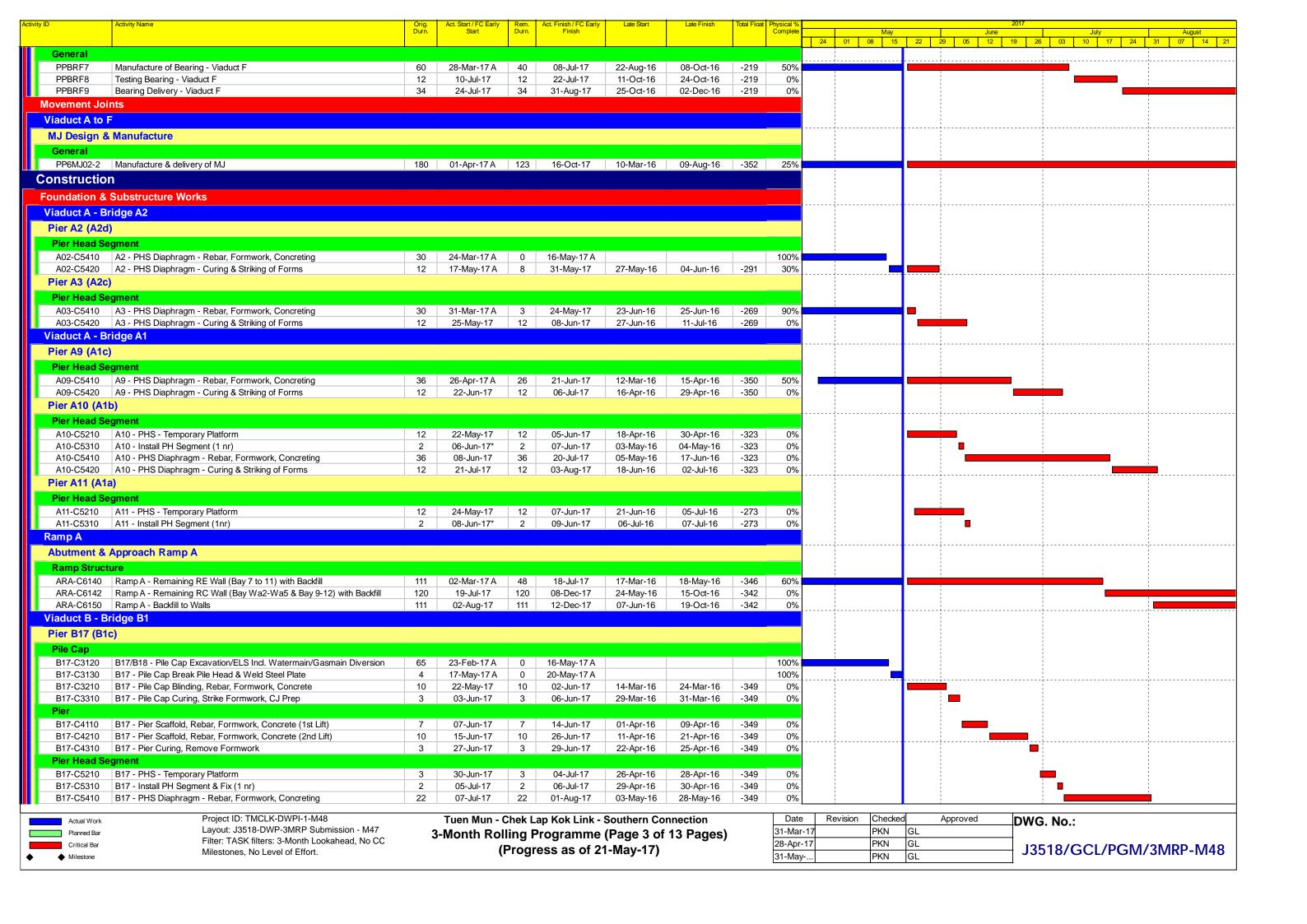


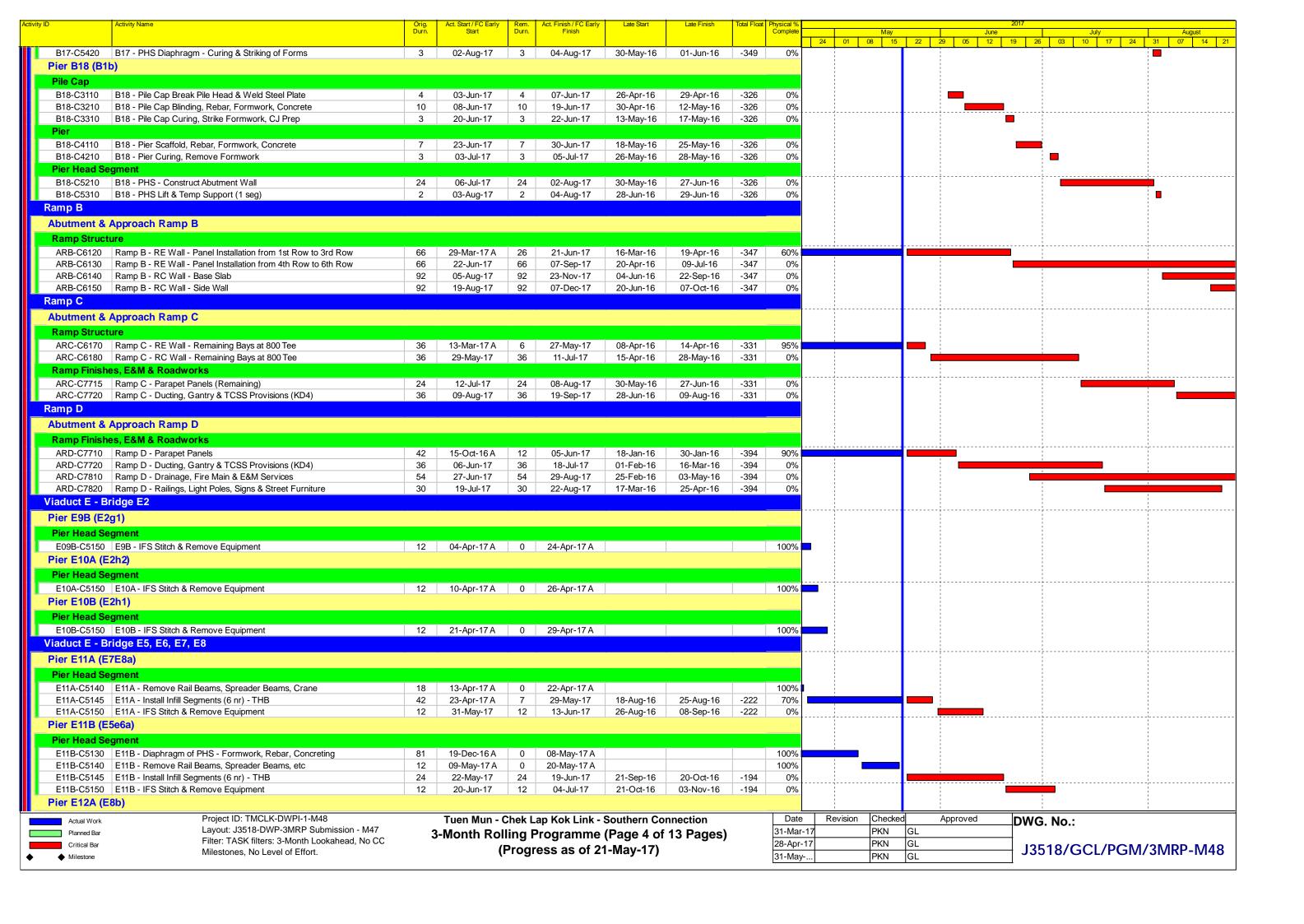
Appendix B

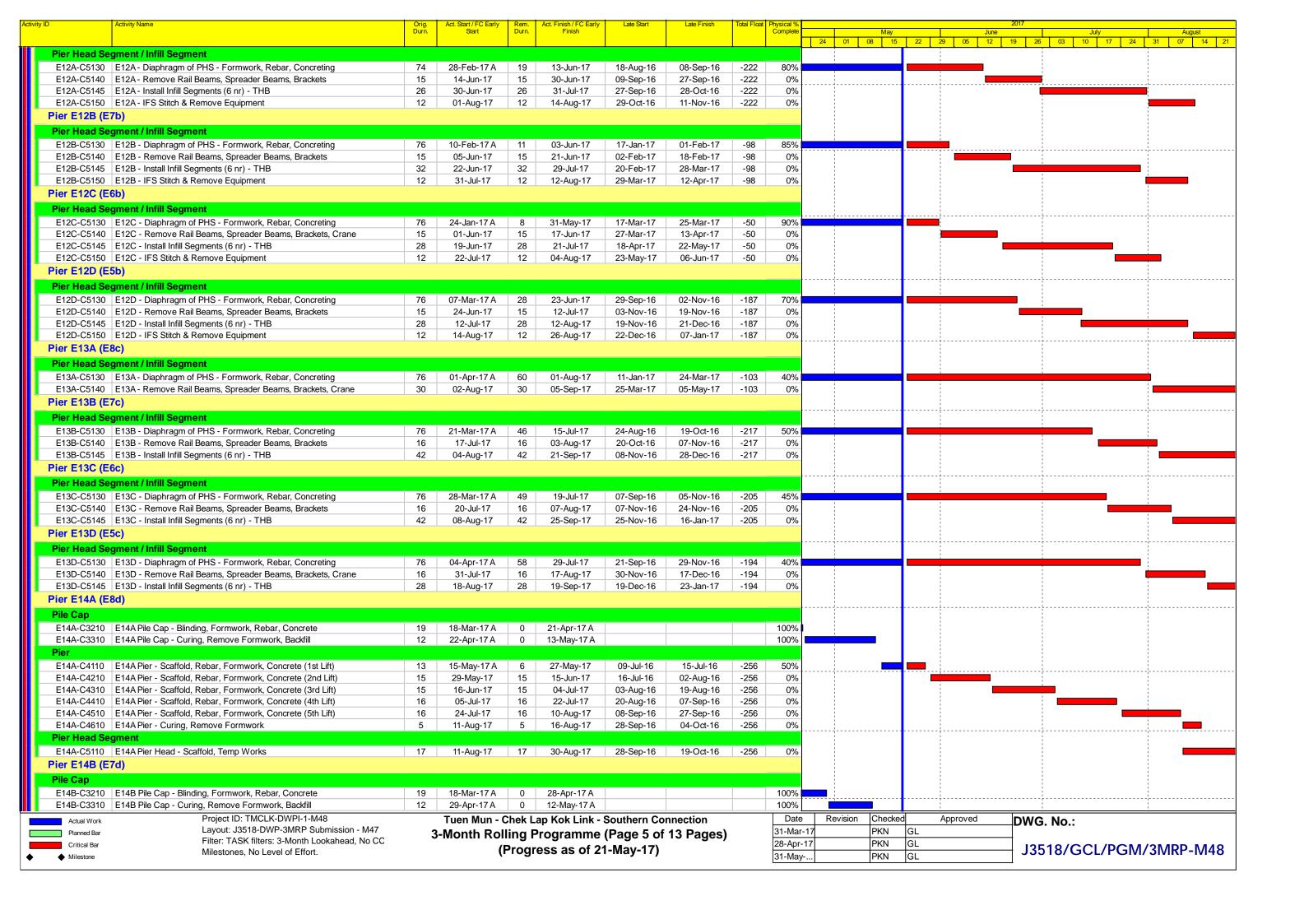
Three-Month Rolling Construction Programme

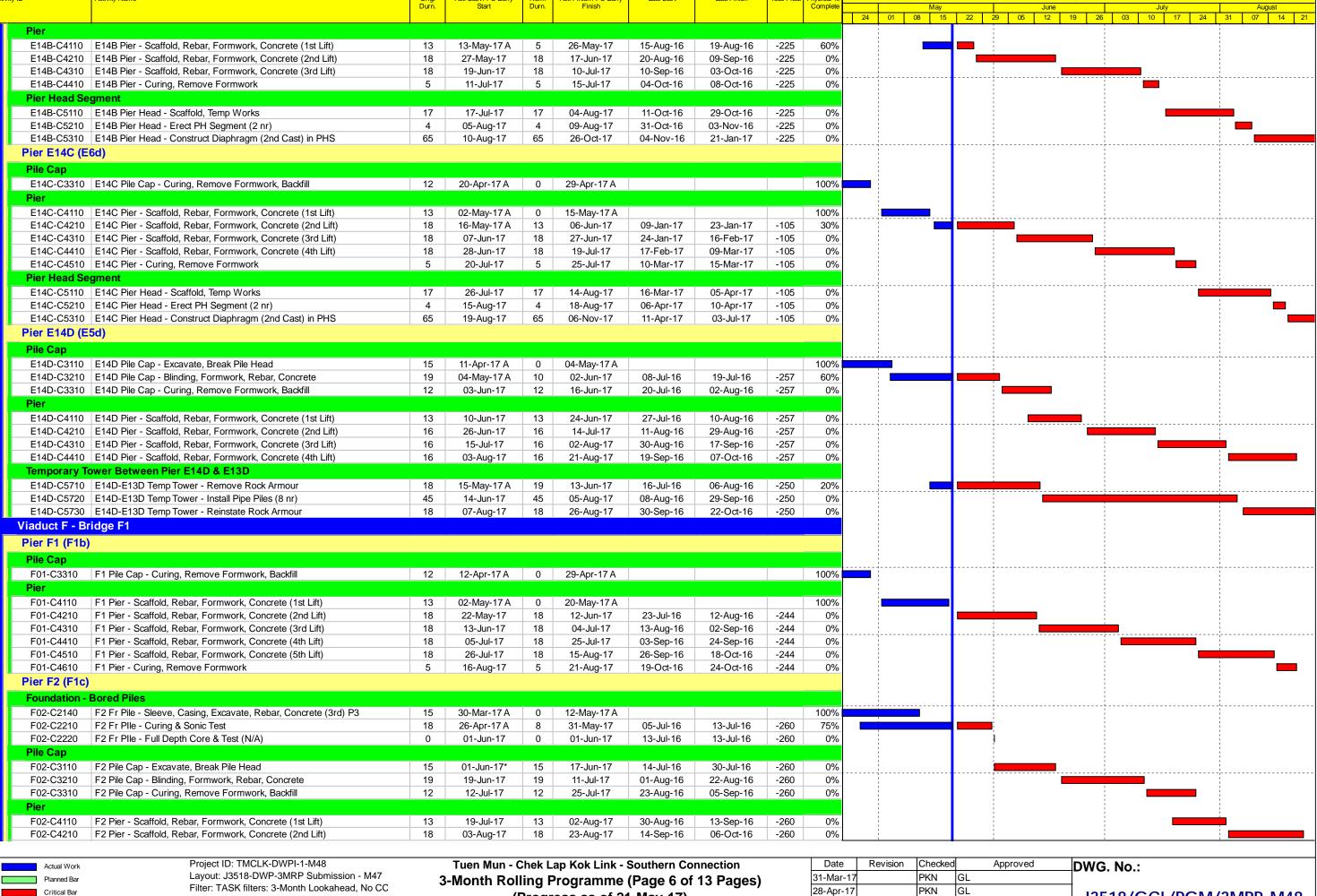












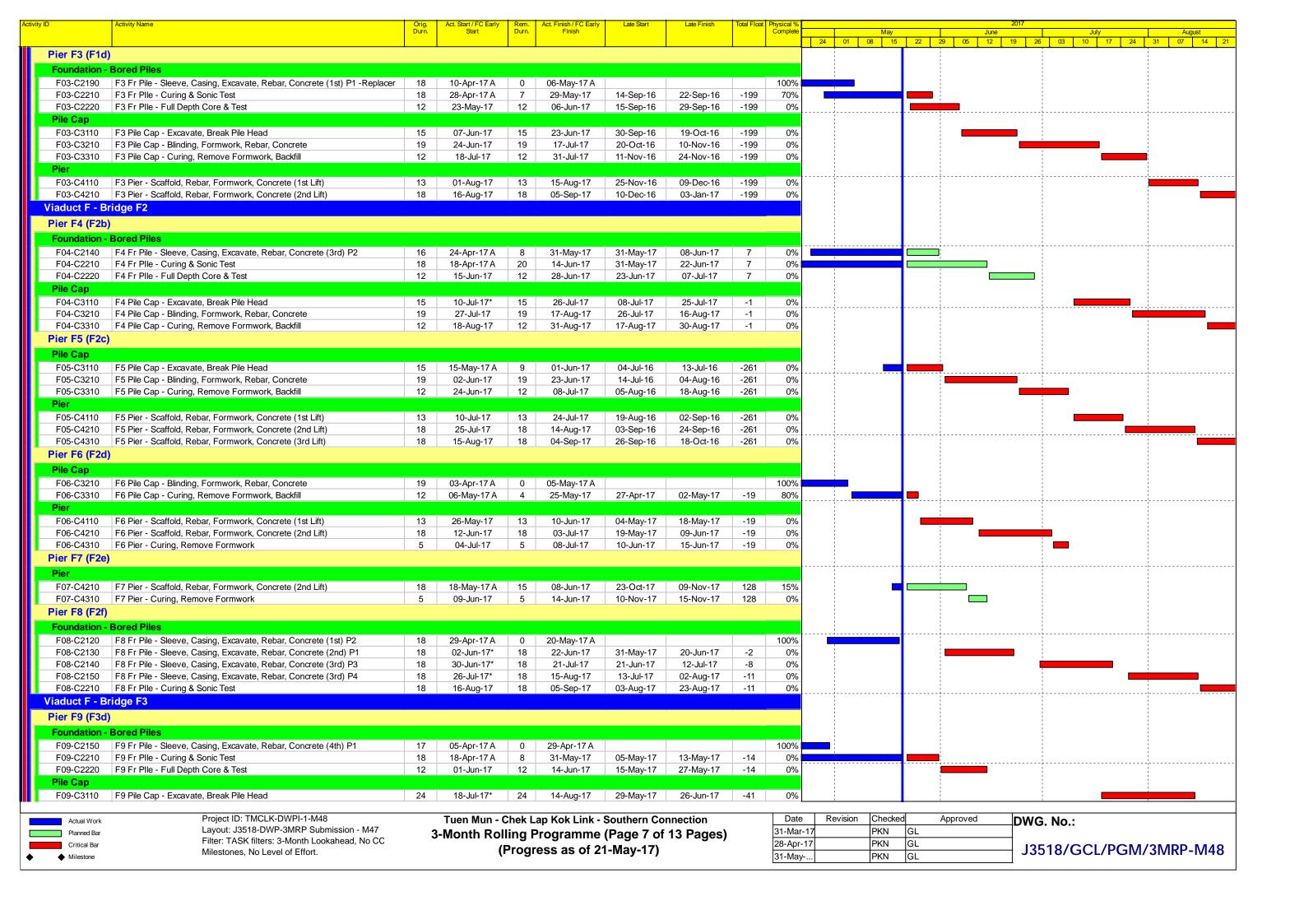
Milestone

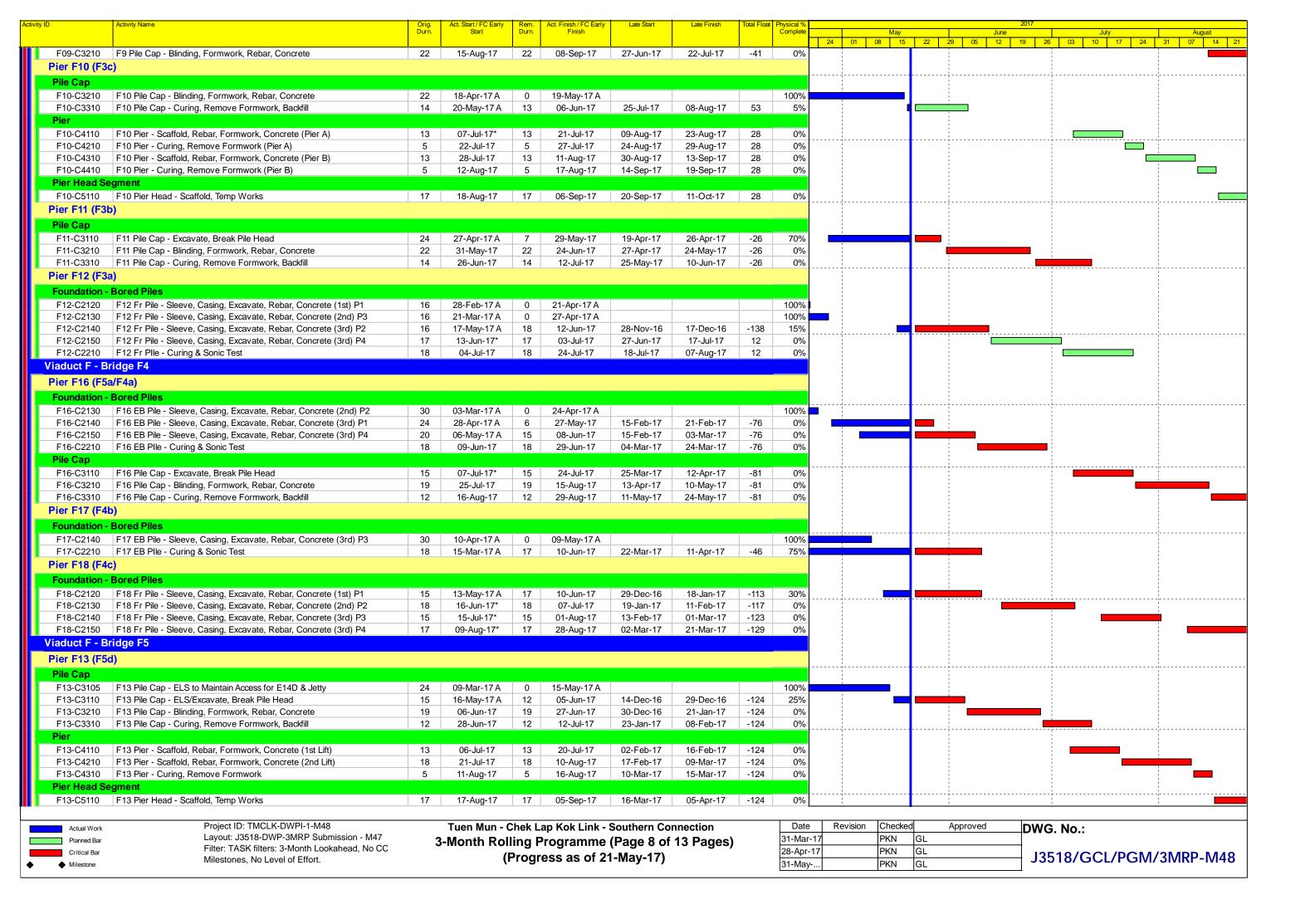
Milestones, No Level of Effort.

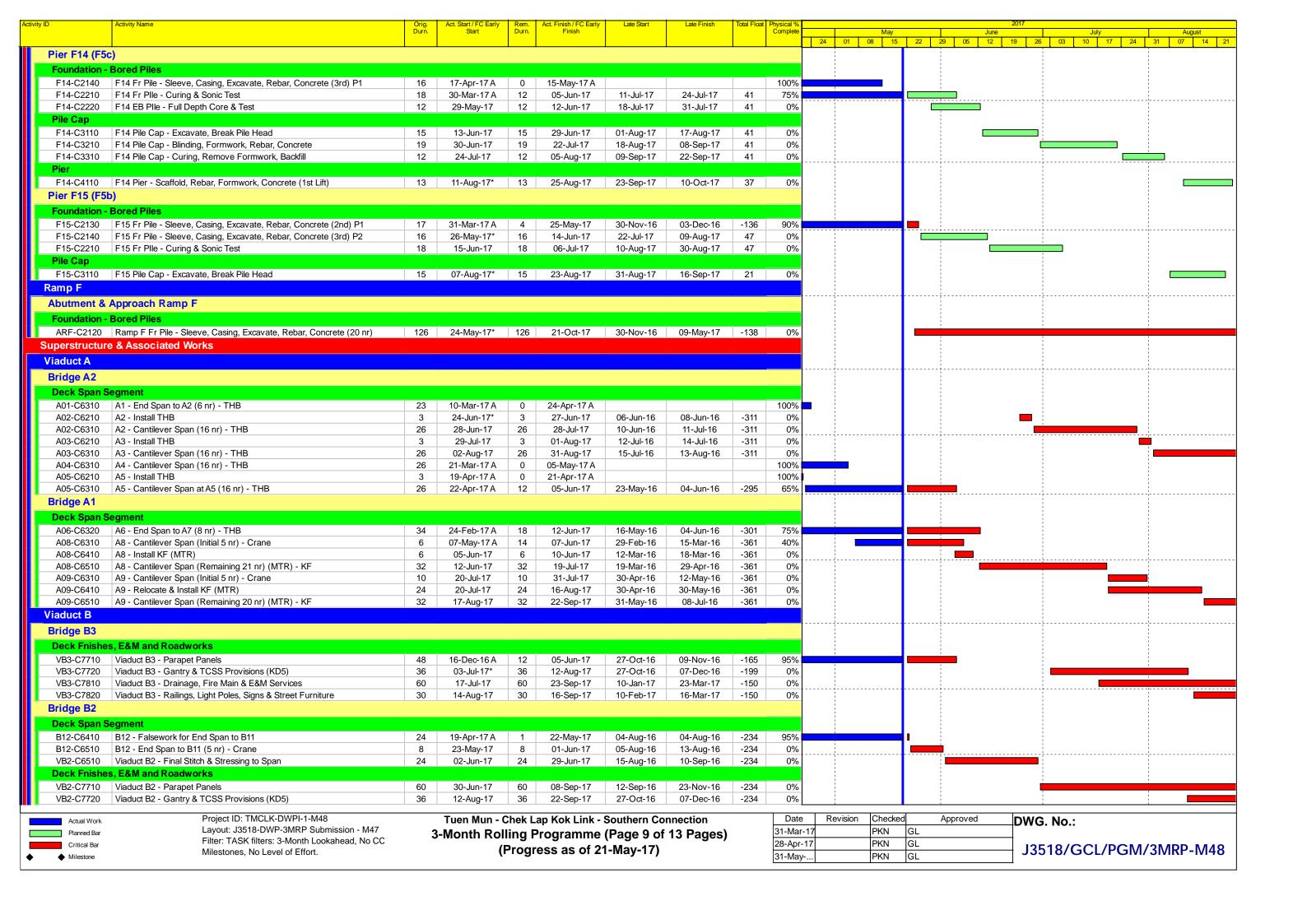
(Progress as of 21-May-17)

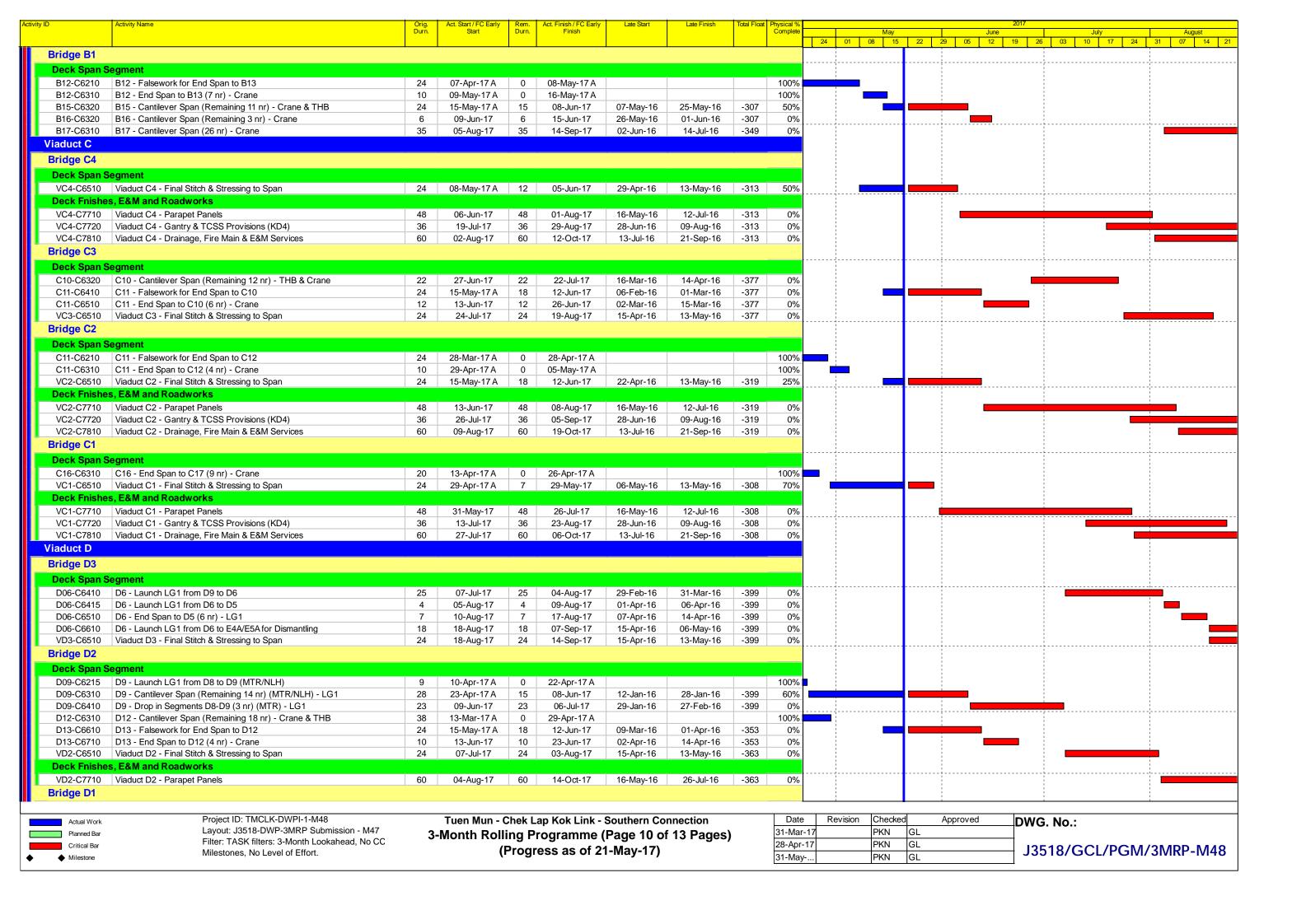
Date	Revision	Checked	Approved
31-Mar-17		PKN	GL
28-Apr-17		PKN	GL
31-May		PKN	GL

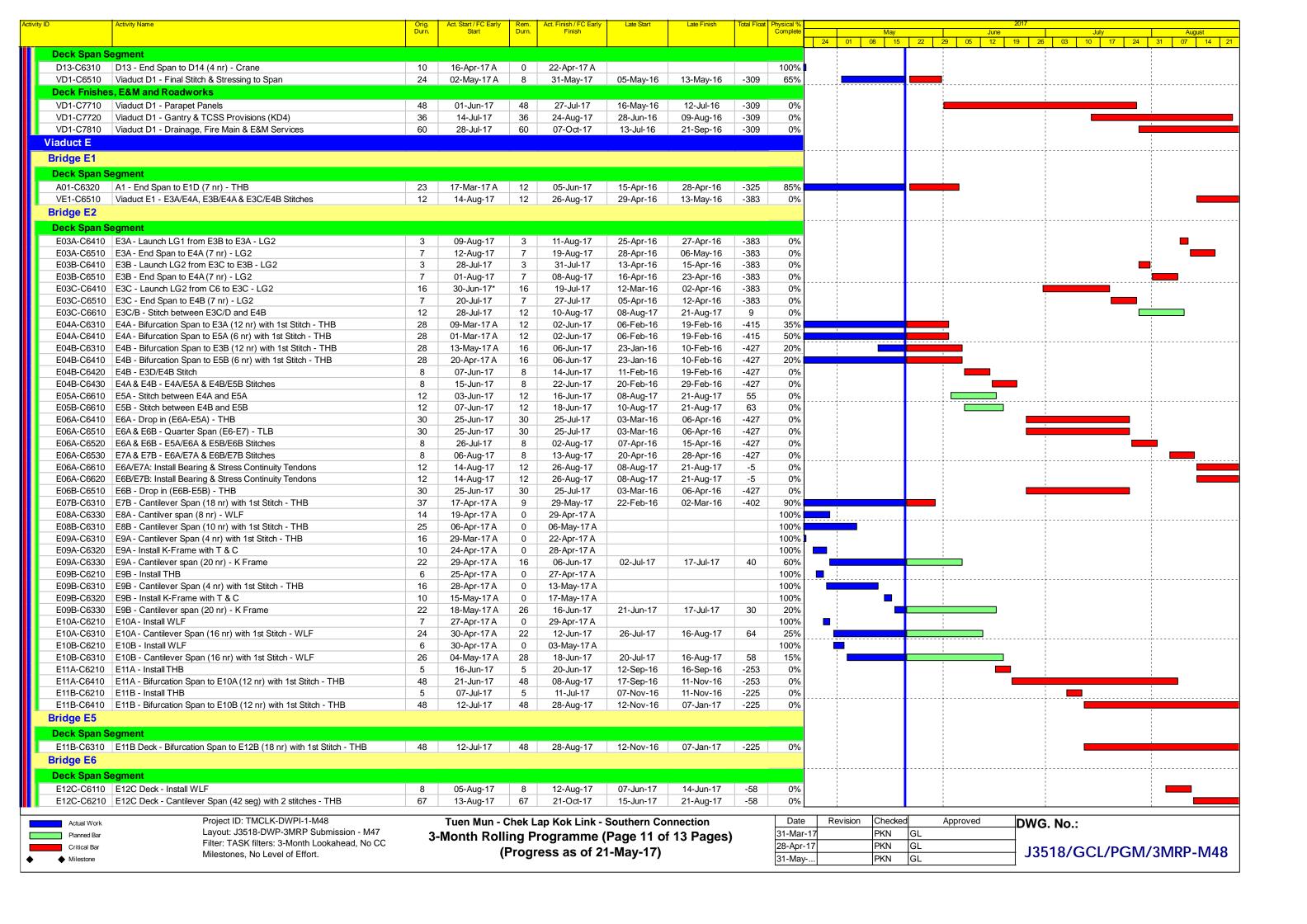
J3518/GCL/PGM/3MRP-M48

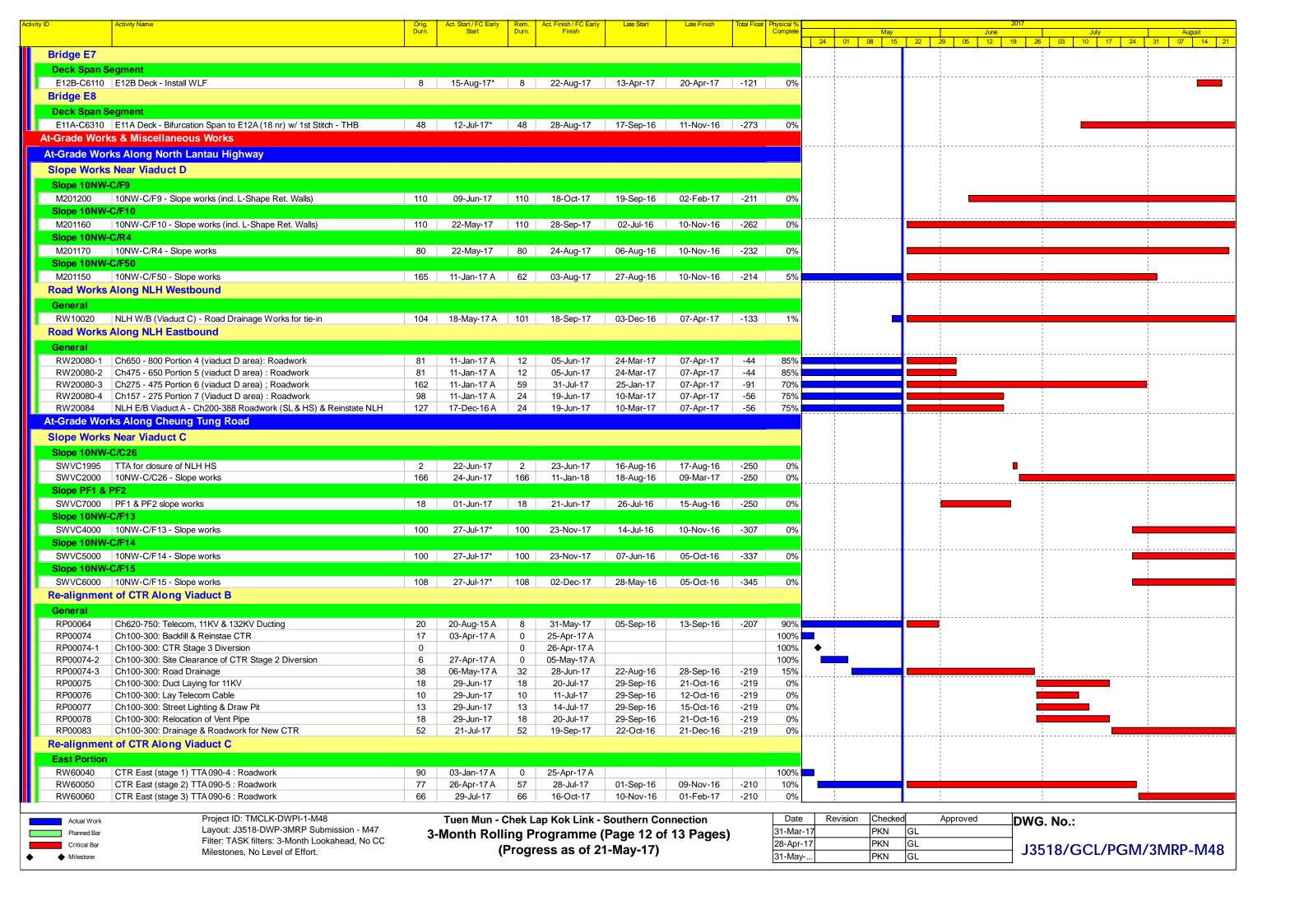












Activ	vity ID	Activity Name	Orig.	Act. Start / FC Early	Rem.		Late Start	Late Finish	Total Float	Physical %							2017					
			Durn.	Start	Durn.	Finish				Complete			May	Jur		June	June July		y August		August	
											24	01	08 15	22	29 05	12	19 2	26 03	10	17 24	31	07 14 21
	RW60080	CTR Tie in Works	116	18-May-17 A	113	03-Oct-17	19-Nov-16	07-Apr-17	-145	1%	-											
	Watermain fr	om Tung Chung to Southern Landfall																			!	
	Watermain \	Works									 										1	
	General																				!	
	WM00120	Lay DN450 Fresh Water Main at Re-aligned CTR (approx. 500m)	48	22-Apr-15 A	30	26-Jun-17	08-Nov-17	12-Dec-17	141	75%											1	
	WM00170	Lay DN450 Watermain Tung Chung to Re-aligned CTR (3rd 500m)	50	01-Jun-16 A	0	06-May-17 A				100%												



Project ID: TMCLK-DWPI-1-M48
Layout: J3518-DWP-3MRP Submission - M47
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 13 of 13 Pages)
(Progress as of 21-May-17)

Date	Revision	Checked	Approved
31-Mar-17		PKN	GL
28-Apr-17		PKN	GL
31-May		PKN	GL

DWG. No.:

J3518/GCL/PGM/3MRP-M48

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	lement Stage		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	Implementatio Stages			Status
	Reference					D	C	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		i	<u>.i.</u>	.i	<u>.i.</u>		.1		i
5.11	Section 4	Noise monitoring	All existing representative sensitive receivers / during North Lantau Viaduct construction	Contractor	EM&A Manual		Y		✓
Water Qua	LITY	i.	.i.	.i.	.i.				.i
General Mai	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 Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						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	å.	ık		<u>.</u>				i
	5.2	Regular inspection for the accumulation of floating refuse and collection of floating refuse if required	During temporary staging works	Contractor			Y		✓
	5.2	Provision of temporary drainage system on the temporary staging for collection of construction site runoff to allow appropriate treatment before discharge into the sea	During temporary staging works	Contractor			Y		<>
	5.2	Wastewater generated from construction works such as bored / drilling water will be collected, treated, neutralized and de-silted through silt trap or sedimentation tank before disposal	During temporary staging works	Contractor			Y		✓
	5.2	One additional water quality monitoring station is	During temporary	Contractor			Y		✓

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	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		Υ		✓
6.10	-	Sewage effluent and discharges from on- site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Implementation Relevant Standard or Requirement	Imp	lement Stages		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		Υ		✓
6.10	-	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for offsite disposal.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance		Y		✓

EIA Reference	EM&A Manual		Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lemen Stage		Status
	Reference					D	C	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		Υ	✓
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	3	···		····			-	-
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	Υ	✓
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	nnual	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lemen Stage		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		Υ		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 $3,600 \text{ m}^2$ 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	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lemen Stage		Status
	Reference					D	C	О	•
			season/construction phase						<u> </u>
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		.i.		.i.			<u>L</u>	i.
10.9	7.6	Round angle, patterned finishes, and oval shaped pier were considered in the viaduct design, and further details will be developed under ACABAS submission (DM3)	All areas/detailed design	Design Consultant	TMEIA	Y			n/a
10.9	7.6	Details of the street furniture will be developed in the detailed design stage (DM4)	All areas/detailed design	Design Consultant	TMEIA	Y			n/a
10.9	7.6	Aesthetic design of the viaduct, retaining wall and other structures will be developed under ACABAS submission (DM5)	All areas/detailed design	Design Consultant	TMEIA	Y			n/a
10.9	7.6	Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		*

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lemen Stage		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	Υ		✓ 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	lemen Stage		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 suitable for recycle
10.9	7.6	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006 (CM10).	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		~
10.9	7.6	Re-vegetation of affected woodland/shrubland with native species (OM1)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Υ	Υ	n/a. To be implemented by AFCD/HyD/ L CSD
10.9	7.6	Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities (OM2)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Y	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	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be implemented by

EIA Reference	EM&A Manual	ual	Location/ Timing Implementation Agent	-	i e	Implementation Stages			Status
	Reference					D	С	О	-
		(OM4)							HyD/LCSD
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Υ	n/a. To be implemented by HyD
Waste									
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		✓
12.6		The Contractor shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established.	Contract mobilisation	Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y		
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling.	Contract Mobilisation	Contractor	TMEIA		Y		✓
12.6	8.1	The extent of cutting operation should be optimised	All areas / throughout	Contractor	TMEIA		Y		✓
			.4		.4		4		4

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

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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lement Stages		Status
	Reference					D	С	О	
		 Adequate ventilation; Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Incompatible materials are adequately separated. 							
12.6	8.1	Waste oils, chemicals or solvents shall not be disposed of to drain,	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them.	All areas / throughout construction period	Contractor	TMEIA		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		Y		✓
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.	All areas / throughout construction period	Contractor	TMEIA		Y		~
12.6	8.1	Office wastes can be reduced by recycling of	Site Offices/	Contractor	TMEIA		Υ		✓

EIA Reference	EM&A Manual	ual	, ,		Relevant Standard or Requirement	Implementation Stages			Status
	Reference					D	С	О	
		paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	throughout construction period						
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	All areas / throughout construction period	Contractor	EM&A Manual		Υ		✓
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

Para	meter	Action Level#	Limit Level#
(e)	The 1%-ile of baseline dat	a for surface and mide	lle 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 baseline & ANI < 40% of baseline			

Notes:

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

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

	North 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 : 28/03/2017

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

 Service Date
 :
 20 Mar 2017

 Slope (m)
 :
 2.08464

 Intercept (b)
 :
 -0.03684

 Correlation Coefficient(r)
 :
 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1015 Ta(K) : 293

Resistance Plate dH [green liquid]		Z	X=Qstd	IC	Y	
(inch water)			(cubic meter/min)	(chart)	(corrected)	
1	18 holes	11.9	3.482	1.688	54	54.51
2	13 holes	9.6	3.128	1.519	48	48.46
3	10 holes	7.0	2.671	1.302	42	42.40
4	7 holes	4.5	2.141	1.050	34	34.32
5	5 holes	2.5	1.596	0.791	26	26.25

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):31.202 Intercept(b): 1.567 Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan Date: 01/04/2017

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

Location : ASR9
Calibrated by : P.F.Yeung
Date : 28/03/2017

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

 Service Date
 :
 20 Mar 2017

 Slope (m)
 :
 2.08464

 Intercept (b)
 :
 -0.03684

 Correlation Coefficient(r)
 :
 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1015 Ta(K) : 293

Resistance Plate dH [green liquid]		Z	X=Qstd	IC	Y	
(inch water)			(cubic meter/min)	(chart)	(corrected)	
1	18 holes	11.6	3.438	1.667	58	58.55
2	13 holes	9.2	3.062	1.488	51	51.48
3	10 holes	6.8	2.632	1.283	44	44.42
4	7 holes	4.4	2.118	1.039	36	36.34
5	5 holes	2.6	1.628	0.806	27	27.26

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):35.784 Intercept(b):-1.348 Correlation Coefficient(r): 0.9995

Checked by: Magnum Fan Date: 01/04/2017



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 Operator		Rootsmeter Orifice I.I	-	438320 2454	Ta (K) - Pa (mm) -	293 759.46
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00	1.4390 1.0240 0.9170 0.8730 0.7200	3.2 6.4 7.9 8.8 12.8	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0120 1.0078 1.0057 1.0045 0.9992	0.7033 0.9842 1.0967 1.1507 1.3878	1.4257 2.0163 2.2543 2.3643 2.8514		0.9958 0.9916 0.9895 0.9884 0.9831	0.6920 0.9683 1.0791 1.1322 1.3654	0.8784 1.2423 1.3889 1.4567 1.7568
Qstd slop intercept coefficie	(b) =	2.08464 -0.03684 0.99994		Qa slope intercept coefficie	= (b) $=$	1.30 537 -0.02 2 70 0.99994
y axis =	SQRT [H2O (Pa/760)(298/	ra)]	y axis =	SQRT [H20(7	[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.:

C163248

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC16-1307)

Date of Receipt / 收件日期: 10 June 2016

Description / 儀器名稱

Sound Level Calibrator

Manufacturer / 製造商

Rion

Model No. / 型號 Serial No. / 編號 NC-73

Supplied By / 委託者

10997142 Envirotech Services Co.

Environment services co.

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

New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C

Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$

Line Voltage / 電壓 : --

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

15 June 2016

TEST RESULTS / 測試結果

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

The results do not exceed manufacturer's specification.

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

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

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

Tested By

測試

HT Wong

Technical Officer

Certified By

核證

Tr _

K C/Lee Project/Engineer Date of Issue

17 June 2016

簽發日期

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

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Sun Creation Engineering Limited - Calibration & Testing Laboratory

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輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門興安里一號青山灣機樓四樓

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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.: C163248

證書編號

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

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

3. Test equipment:

Equipment ID CL130 CL281 TST150A Description
Universal Counter
Multifunction Acoustic Calibrator
Measuring Amplifier

Certificate No. C153519 PA160023 C161175

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

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

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

Note:

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

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.: C163758

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC16-1465)

Date of Receipt / 收件日期: 29 June 2016

Description / 儀器名稱

Sound Level Meter

Manufacturer / 製造商

Rion

Model No. / 型號 Serial No. / 編號

NL-31 00603867

Supplied By / 委託者

Envirotech Services Co.

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

New Territories, Hong Kong

TEST CONDITIONS/測試條件

Temperature / 溫度 $(23 \pm 2)^{\circ}$ 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

11 July 2016

TEST RESULTS / 測試結果

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

The results do not exceed manufacturer's specification.

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

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

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

Tested By

測試

H T Wong

Technical Officer

Certified By

核證

Lee Project Engineer Date of Issue

12 July 2016

簽發日期

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

Certificate No.:

C163758

證書編號

校正證書

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

Description 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

Certificate No. C160077 PA160023

5. Test procedure: MA101N.

6. Results:

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

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

6.1.2 Linearity

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

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

6.2 Time Weighting

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

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E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com



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Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C163758

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6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT Setting			Appl	Applied Value		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	77.1	-16.1 ± 1.5
					250 Hz	84.7	-8.6 ± 1.4
					500 Hz	90.1	-3.2 ± 1.4
					1 kHz	93.4	Ref.
					2 kHz	94.7	$+1.2 \pm 1.6$
					4 kHz	94.5	$+1.0 \pm 1.6$
					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

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

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

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value: 94 dB

: 63 Hz - 125 Hz : \pm 0.35 dB 250 Hz - 500 Hz : \pm 0.30 dB 1 kHz $\pm 0.20 \text{ dB}$ 2 kHz - 4 kHz : $\pm 0.35 \text{ dB}$ 8 kHz $\pm 0.45 \text{ dB}$ 12.5 kHz $\pm 0.70 \text{ dB}$

104 dB : 1 kHz $\pm 0.10 \text{ dB (Ref. 94 dB)}$

114 dB : 1 kHz $\pm 0.10 \text{ dB (Ref. 94 dB)}$

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

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

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

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com



Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/014 Manufacturer : HACH

Model No. : <u>2100Q</u> Serial No. : <u>13110C029448</u>

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	20.4	2.0
100	98.2	-1.8
800	775	-3.1

(*) 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: Riemo Checked by:



Performance Check of Turbidity Meter

Equipment Ref. No.

: ET/0505/012

Manufacturer

: HACH

Model No.

: 2100Q

Serial No.

: 12060 C 018447

Date of Calibration

: 25/04/2017

Due Date

24/07/2017

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

005/6.1/001/10

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	19.6	-0.2
100	103	3.0
800	809	1.1

(*) 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) [04/15]
Internal Calibration & Perforn	nance Check of pH Meter
Equipment Ref. No. : ET/EW007/010 Manuf	acturer : HANNA
Model No. : HI9125 Serial	No. : J0046897
Date of Calibration : 26/04/2017 Calibra	ation Due Date : 25/05/2017
Liquid Junction Error	002/5 2/002/00 (20%)
Drives w. Character devel Calvitian Head . Dheamhata Date	003/5.2/002/09 (20°C)
Primary Standard Solution Used : Phosphate Ref Temperature of Solution : 25.0 / 20.0	f No. of Primary Solution: $003/5.2/002/10 (25^{\circ}\text{C})$ $\Delta pH_{\frac{1}{2}} = 0.080 / 0.080$
	CONTINUED OF THE PROPERTY OF T
pH value of diluted buffer : 6.98 / 7.00	pH (S) = 6.865 / 6.881
$\Delta pH = pH(S) - pH$ of diluted buffer = $\frac{0.115}{0.119}$	EAST-COLORS COLORS COLO
Liquid Junction Error (ΔpH_j) = $\Delta pH - \Delta pH_{\frac{1}{2}}$ = 0.04	/ 0.04
Shift on Stirring	
_	
pH of buffer solution (with stirring), pH _s = 6.91	/ 6.93
Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_j = 0.01$	/ 0.01
Noise	
Noise, $\Delta pH_n = difference$ between max and min reading	: 0.01 / 0.01
Troise, Aprin amorenee serveen max and min reading	
Verification of ATC	
Ref. No. of reference thermometer used:	ET/0521/018 / ET/0521/019
Temperature record from the reference thermometer (T _R)	
Temperature record from the ATC (T _{ATC}):	24.9 / 19.9 °C
Temperature Difference, T _R - T _{ATC}	0.1 / 0.1 °C
Correction	+0.1 / +0.1 °C
Acceptance Criteria	
Acceptance Ontena	
Performance Characteristic	Acceptable Range
Liquid Junction Error ΔpHj	≤0.05
Shift on Stirring ∆pHs	≤0.02
Noise ΔpHn	≤0.02
Verifcation of ATC Temperature Difference	≤0.5°C
The pH meter complies * / dees not comply * with the spe	•
acceptable * / unacceptable * for use. Measurements are	e traceable to national standards.
* Delete as appropriate	
	· \
Calibrated by:	Checked by :



				`	Form E/O	CE/L/15/Issue 2 (1/1) [04/15
Internal	Calibration &	Performar	nce Che	ck of p	H Mete	er
Equipment Ref. No. :	ET/EW/007/007	Manufactu	ırer	:	HANNA	The state of the s
Model No. :	HI 8314	Serial No.		;	08500489	
Date of Calibration :	13/05/2017	Calibration	Due Date	:	12/06/201	7
Liquid Junction Error Primary Standard Solution Temperature of Solution	n Used: Phospha	ate Ref No	. of Primary	Solution: ΔpH ½ =		, ,
pH value of diluted buffer		/ 7.00			6.865	/ 6.881
ΔpH = pH(S) - pH of dilute	ed buffer = 0.115	/ 0.119 0.04 /	(Observed	. , ,		
Shift on Stirring						
pH of buffer solution (with	stirring), pH _s =	6.91 /	6.93			
Shift on stirring, ∆pH _s = pH	$I_s - pH(S) - \Delta pH_j = $	0.01 /	0.01			
Noise						
Noise, ΔpH_n = difference b	petween max and mi	in reading :	0.01	/ 0.01		
Verification of ATC						
Ref. No. of reference therr Temperature record from t Temperature record from t Temperature Difference, Correction	the reference thermothe ATC (T _{ATC}):		7/0521/018 / 25.0 24.8 0.2 +0.2	/ 20.0 / 19.8	°C °C °C	
Acceptance Criteria						
Performan	ce Characteristic		Acceptable	e Range		
Liquid Junction Error	∆рНј		≤0.0			
Shift on Stirring	ΔpHs		≤0.0)2		
Noise	∆pHn		≤0.0≥)2		
Verifcation of ATC	Temperature Differe	ence	≤0.5	°C		
The pH meter complies * / acceptable * / unacceptable * Delete as appropriate						
Calibrated by:	po	Ch	ecked by :	(2	- la	



Form E/CE/R/12 Issue 8 (1/2) [05/13]

Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No.

ET/EW/008/007

Manufacturer

YSI

Model No.

Pro 2030

Serial No.

12H101061

Date of Calibration

18/02/2017

Calibration Due Date

17/05/2017

Temperature Verification

Ref. No. of Reference Thermometer:

ET/0521/017

Ref. No. of Water Bath:

	Temperature (°C)					
Reference Thermometer reading	Measured 20.4 Corrected 19.9					
DO Meter reading	Measured	20.1	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/012/4.5/001/15	Reagent No. of 0.025N K ₂ Cr ₂ O ₇	CPE/012/4.4/002/17		
		Trial 1	Trial 2		
Initial Vol. of Na ₂ S ₂ O ₃ (ml)		0.00	10.30		
Final Vol. of Na ₂ S ₂ O ₃ (ml)		10.30	20.65		
Vol. of Na ₂ S ₂ O ₃ used (ml)		10.30	10.35		
Normality of Na ₂ S ₂ O ₃ solution (N)		0.02427	0.02415		
Average Normality (N) of Na ₂ S ₂ O ₃ s	solution (N)	0.02421			
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		.0	
Trial	1	2	1	2	1	2	
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	11.40	22.60	0.00	6.70	11.10	
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.40	22.60	29.40	6.70	11.10	15.40	
Vol. (\mathbb{V}) of Na ₂ S ₂ O ₃ used (ml)	11.40	11.20	6.80	6.70	4.40	4.30	
Dissolved Oxygen (DO), mg/L	7.41	7.28	4.42	4.35	2.86	2.79	
Acceptance criteria, Deviation	Less that	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			Winkle	r Titration res	Difference (%) of DO	
ruiging time, iiiii	1	2	Average	1	2	Average	Content
2	7.54	7.49	7.52	7.41	7.28	7.35	2.29
5	4.28	2.89	3.59	4.42	4.35	4.39	20.05
10	2.95	2.89	2.92	2.86	2.79	2.83	3.13
Linear regression coefficient						0.9965	



Form E/CE/R/12 Issue 8 (2/2) [05/13]

Internal Calibration Report of Dissolved Oxygen Meter

Zero Point Checking

DO meter reading, mg/L	0.00

Salinity Checking

<u> </u>			
27 (27 (10)	GDD 1010 14 77 1003 12 4	D (N CN C1 (20 4)	CDE/012/4 8/003/34
[Reagent No. of NaCl (10ppt)	CPE/012/4.7/003/34	Reagent No. of NaCl (30ppt)	CPE/012/4.8/003/34

Determination of dissolved oxygen content by Winkler Titration **

Salinity (ppt)	10	0	30		
Trial	1	2	1	2	
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	10.80	21.70	31.00	
Final Vol. of Na ₂ S ₂ O ₃ (ml)	10.80	21.70	31.00	40.20	
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	10.80	10.90	9.30	9.20	
Dissolved Oxygen (DO), mg/L	7.02	7.08	6.04	5.98	
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less tha	n + 0.3mg/L	

Calculation:

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

Salinity (ppt)	DO	meter reading,	mg/L	Winkler	Titration resul	t**, mg/L	Difference (%) of DO
Sammiy (ppt)	1	2	Average	1	2	Average	Content
10	7.12	7.08	7.1	7.02	7.08	7.05	0.71
30	6.02	6.03	6.03	6.04	5.98	6.01	0.33

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

Calibrated by

Drang

Approved by:

<u>Ale</u>



Equipment Ref. No.	: ET/EW/008/007	Manufacturer	:	YSI
Model No.	: Pro 2030	Serial No.	:	12H 101061

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

S/001/9

Salinity Standard Value (ppt)	Measured Salinity (ppt)	Difference * (%)
30.0	29.6	-1.33

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

Acceptance Criteria

Difference : -10 % to 10 %

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

Checked by: Bury Approved by: 12 land



Form E/CE/R/12 Issue 8 (1/2) [05/13]

Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No. : ET/EW/008/007 Manufacturer : YSI

Model No. : <u>Pro 2030</u> : 12H101061

Date of Calibration : 13/05/2017 Calibration Due Date : 12/08/2017

Temperature Verification

Ref. No. of Reference Thermometer: ET/0521/019

Ref. No. of Water Bath:

		Tei	mperature (°C)	
Reference Thermometer reading	Measured	20.3	Corrected	19.8
DO Meter reading	Measured	19.9	Difference	-0.1

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

Reagent No. of Na ₂ S ₂ O ₃ titrant	CPE/012/4.5/001/15	Reagent No. of 0.025N K ₂ Cr ₂ O ₇	CPE/012/4.4/002/19	
		Trial 1	Trial 2	
Initial Vol. of Na ₂ S ₂ O ₃ (ml)		0.00	10.25	
Final Vol. of Na ₂ S ₂ O ₃ (ml)		10.25	20.45	
Vol. of Na ₂ S ₂ O ₃ used (ml)		10.25	10.20	
Normality of Na ₂ S ₂ O ₃ solution (N)		0.02439	0.02451	
Average Normality (N) of Na ₂ S ₂ O ₃ solution (N)		0.02445		
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	10.80	21.60	0.00	6.50	9.90
Final Vol. of Na ₂ S ₂ O ₃ (ml)	10.80	21.60	28.00	6.50	9.90	13.20
Vol. (V) of $Na_2S_2O_3$ used (ml)	10.80	10.80	6.40	6.50	3.40	3.30
Dissolved Oxygen (DO), mg/L	7.09	7.09	4.20	4.27	2.23	2.17
Acceptance criteria, Deviation	Less than	ı + 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	
r diging time, iiiii	1	2	Average	1	2	Average	Content	
2	7.13	7.18	7.16	7.09	7.09	7.09	0.98	
5	4.17	4.21	4.19	4.20	4.27	4.24	1.19	
10	2.18	2.11	2.15	2.23	2.17	2.20	2.30	
Linea	r regression	coefficient				0.9999		



Zero Point Checking	g							
	DO meter re	ading, m	g/L			0.00		
Salinity Checking		ſ						
Reagent No. of NaCl			CPE/012/4.7/004/		ent No. of Na	CI (30ppt)	CPE/012/4.8/004/2	
Determination of dis	ssolved oxyg	en conte	nt by Winkler Titi	ration ** 				
Salinity (ppt)				10			30	
Frial	2 (1)		1		2	1	2	
nitial Vol. of Na ₂ S ₂ C			0.00		10.80	21.60	31.30	
Final Vol. of Na_2S_2O Vol. (V) of $Na_2S_2O_3$			10.80		21.60	31.30	41.10	
Dissolved Oxygen (Γ	· · · · · · · · · · · · · · · · · · ·		10.80		10.80	9.70	9.80	
Acceptance criteria, 1			7.09		7.09 6.37		6.43	
Calculation:	DO (mg/L)	$= \mathbf{V} \times \mathbf{N}$		han + 0.3mg	/L	Les	ss than + 0.3mg/L	
Salinity (ppt)	DO r	neter rea	ding, mg/L	Winkler	Titration res	ılt**, mg/L	Difference (%) of DO	
	1	2	Average	1	2	Average	Content	
10	7.04	7.01	7.03	7.09	7.09	7.09	0.85	
30	6.27	6.31	6.29	6.37	6.43	6.40	1.73	
Acceptance Criteria					<u>,, ,</u>			
 Differenc between Linear regression Zero checking: 0.4 	coefficient :		s from temperatur	e sensor of I	OO probe and	reference then	mometer : < 0.5 °C	
4) Difference (%) of	•	from the	meter reading and	d by winkler	titration : wit	nin ± 5%		
The equipment compl unacceptable # for us		not comp	ly " with the speci	fied requiren	nents and is d	eemed accepta	ble #	
Delete as appropriat	e							

CEP/012/W



		\		
Performance Check of Salinity Meter				
Equipment Ref. No. : ET/EW/008/007		Manufacturer	YSI	
Model No. : <u>Pro 2030</u>		Serial No.	12H 101061	
Date of Calibration : 13/05/	2017	Due Date	12/08/2017	
Ref. No. of Salinity Standard used (30ppt)		S/001/9		
Salinity Standard Value (ppt)	Measured Salinit (ppt)	Diff	erence * (%)	
30.0	28.2		-6.0	
(*) Difference (%) = (Measured Salinity – Salinity Standard value) / Salinity Standard value x 100				
Acceptance Criteria Difference : -10 % to 10 %				
The salinity meter complies * / does not comply * with the specified requirements and is deemed acceptable * / unacceptable-* for use. Measurements are traceable to national standards.				
Checked by:	App	proved by :	<u>a</u> lan	



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C165934

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC16-2438)

Date of Receipt / 收件日期: 26 October 2016

Description / 儀器名稱

Anemometer

Manufacturer / 製造商

Lutron

Model No. / 型號

AM-4201

Serial No. / 編號 Supplied By / 委託者 AF.27513

Envirotech Services Co.

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

New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

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

Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規節

Calibration check

27 October 2016

TEST RESULTS / 測試結果

DATE OF TEST / 測試日期

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

T L Shek Assistant Engineer

Certified By

核證

H C Chan

Date of Issue

28 October 2016

簽發日期

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

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。

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

Certificate No.: C165934

證書編號

校正證書

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

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

3. Test equipment:

CL386

Equipment ID

Description

Multi-function Measuring Instrument

Certificate No. S12109

4. Test procedure: MA130N.

5. Results:

Air Velocity

Applied	UUT	Measured Correction		
Value	Reading	Value Measurement Uncertainty		ertainty
(m/s)	(m/s)	(m/s)	Expanded Uncertainty (m/s)	Coverage Factor
2.0	1.8	+0.2	0.2	2.0
4.0	3.8	+0.2	0.2	2.0
6.0	5.8	+0.2	0.3	2.0
8.1	8.0	+0.1	0.3	2.0
10.0	10.0	0.0	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:

Only the original copy or the laboratory's certified true copy is valid.

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。

ENVIROTECH SERVICES CO.

Calibration Report of Wind Meter

Date of Calibration: 18 April 2017

Brand of Test Meter: Global Water

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

Direction Senor: WE570 (S/N:153500564)

Location : Pak Mong, Siu Ho Wan

Procedures:

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

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

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

Results:

Wind Still Test

Wind Speed (m/s)		
0.00		

Wind Speed Test

Global Wate (m/s)	Anemometer (m/s)
1.65	1.8
1.11	1.3
0.71	0.6

Wind Direction Test

Global Wate (o)	Marine Compass (o)
271.05	270
0.05	0
90.31	90
181.07	180

Calibrated by: Checked by: Fact

Yeung Ping Fai

(Technical Officer)

Checked by: Fact

Ho Kam Fat

(Senior Technical Officer)

Appendix F

EM&A Monitoring Schedules

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Noise Monitoring Schedule (1 to 31 May 2017)

Alternative Noise Monitoring at Pak Mong Village Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturda	У
	1-May	2-May					6-Ma
		Noise Impact	,	,	•	Noise Impact	
		Monitoring				Monitoring	
		morntoning				liviorintorini g	
7-May	8-May	9-May	10-May	11-May	12-May		13-Ma
				•	Noise Impact		
					Monitoring		
]		
14-May	15-May	16-May	17-May		19-May		20-Ma
				Noise Impact			
				Monitoring			
21-May	22-May	23-May	24-May		26-May		27-Ma
			Noise Impact Monitoring			Noise Impact	
						Monitoring	
						Ĭ	
28-May	29-May	30-May	31-May				
·	·						

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Air Quality Monitoring Schedule (1 to 31 May 2017)

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

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

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Noise Monitoring Schedule (1 to 30 June 2017)

Alternative Noise Monitoring at Pak Mong Village Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			· ·	01-Jun		03-Ju
					Noise Impact	
					Monitoring	
					3	
04-Jun	05-Jun	06-Jun	07-Jun	08-Jun	09-Jun	10-Ju
				Noise Impact		
				Monitoring		
11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Ju
i i-Juii	12-5011		Noise Impact Monitoring		10-3411	17-50
			,			
18-Jun	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Ju
		Noise Impact Monitoring				
		INOTITOTING				
25-Jun		27-Jun	28-Jun		30-Jun	
	Noise Impact			Noise Impact		
	Monitoring			Monitoring		

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

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Air Quality Monitoring Schedule (1 to 30 June 2017)

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

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

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

HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Marine Water Quality Monitoring (WQM) Schedule (May 2017)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturda	
	01-May	02-May	03-May		05-May		06-May
		WQM		WQM		WQM	
		Mid-Flood		Mid-Ebb		Mid-Ebb	
		10:31		8:48		10:45	
		(08:46 - 12:16)		(07:03 - 10:33)		(09:00 - 12:30)	
		Mid-Ebb 17:44		Mid-Flood 13:48		Mid-Flood 16:20	
		(15:59 - 19:29)		(12:03 - 15:33)		(14:35 - 18:05)	
07-May	08-May	(15.59 - 19.29) 09-May	10-May	(12.03 - 13.33) 11-May	12-May	(14.33 - 16.03)	13-May
07 Way	oo way	WQM	10 May	WQM	12 May	WQM	10 May
		Mid-Ebb		Mid-Ebb		Mid-Flood	
		12:20		13:23		7:45	
		(10:35 - 14:05)		(11:38 - 15:08)		(06:00 - 09:30)	
		Mid-Flood		Mid-Flood		Mid-Ebb ´	
		18:45		20:08		14:26	
		(17:00 - 20:30)		(18:23 - 21:53)		(14:19 - 17:49)	
14-May	15-May	16-May	17-May		19-May		20-May
		WQM		WQM		WQM	
		Mid-Flood		Mid-Flood		Mid-Ebb	
		9:16		10:45		9:06	
		(07:31 - 11:01)		(09:00 - 12:30)		(07:21 - 10:51)	
		Mid-Ebb		Mid-Ebb		Mid-Flood	
		16:16		17:57		13:58	
04.14		(14:31 - 18:01)	04.14	(16:12 - 19:42)	20.14	(12:13 - 15:43)	07.14
21-May	22-May	23-May WQM	24-May	25-May WQM	26-May		27-May
		Mid-Ebb		Mid-Ebb		WQM	
		11:13		12:34		Mid-Flood	
		(09:28 - 12:58)		(10:49 - 14:19)		7:15 (05:30 - 09:00)	
		Mid-Flood		Mid-Flood		(05.30 - 09.00) Mid-Ebb	
		17:19		19:12		14:04	
		(15:34 - 19:04)		(17:27 - 20:57)		(12:19 - 15:49)	
28-May	29-May	30-May	31-May	((12.15 - 15. 1 5)	
,		WQM	,				
		Mid-Flood					
		9:27					
		(07:42 - 11:12)					
		Mid-Ebb					
		16:32					
		(14:47 - 18:17)					

HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Marine Water Quality Monitoring (WQM) Schedule (June 2017)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
				01-J	ın 02-Jun		03-Jun
				WQM		WQM	
				Mid-Flood		Mid-Ebb	
				11:44		9:14	
				(09:59 - 13:29)		(07:29 - 10:59)	
				Mid-Ebb		Mid-Flood	
				18:35		14:49	
				(16:50 - 20:20)		(13:04 - 16:34)	
04-Jun	05-Jun	06-Jun	07-Jun	08-J	ın 09-Jun		10-Jun
		WQM		WQM		WQM	
		Mid-Ebb		Mid-Ebb		Mid-Ebb	
		11:24		12:31		13:36	
		(09:39 - 13:09)		(10:46 - 14:16)		(11:51 - 15:21)	
		Mid-Flood		Mid-Flood		Mid-Flood	
		17:52		19:23		20:40	
		(16:07 - 19:37)		(17:38 - 21:08)		(18:55 - 22:25)	
11-Jun	12-Jun	13-Jun	14-Jun		ın 16-Jun		17-Jun
		WQM		WQM		WQM	
		Mid-Flood		Mid-Flood		Mid-Flood	
		8:24		9:46		11:57	
		(06:39 - 10:09)		(08:01 - 11:31)		(10:12 - 13:42)	
		Mid-Ebb		Mid-Ebb		Mid-Ebb	
		15:19		16:41		18:24	
		(13:34 - 17:04)		(14:56 - 18:26)		(16:39 - 20:09)	
18-Jun	19-Jun	20-Jun	21-Jun		ın 23-Jun		24-Jun
	,	WQM		WQM		WQM	
		Mid-Ebb		Mid-Ebb		Mid-Ebb	
	!	9:58		11:31		13:05	
		(08:13 - 11:43)		(09:46 - 13:16)		(11:20 - 14:50)	
		Mid-Flood		Mid-Flood		Mid-Flood	
		16:03		18:14		20:11	
		(14:18 - 17:48)		(16:29 - 19:59)		(18:26 - 21:56)	
25-Jun	26-Jun	27-Jun	28-Jun	29-J	ın 30-Jun		
	,	WQM		WQM			
		Mid-Flood		Mid-Flood			
		8:29		10:14			
		(06:44 - 10:14)		(08:28 - 11:58)			
		Mid-Ebb		Mid-Ebb			
		15:29		17:05			
		(13:44 - 17:14)		(15:18 - 18:48)			

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

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Dolphin Monitoring Survey Schedule (1 to 31 May 2017)

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

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Dolphin Monitoring Survey Schedule (1 to 30 June 2017)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				01-Jun	02-Jun	03-Jun
04-Jun	05-Jun	06-Jun	07-Jun	08-Jun	09-Jun	10-Jun
11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun
	• •			Impact Dolphin		,, ,
				Monitoring		
18-Jun	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun
10 3411	13 3411	Impact Dolphin	21 0011	ZZ Juli	Impact Dolphin	24 0011
		Monitoring			Monitoring	
		Worldoning			Worldoning	
05.1	00.1	07.1	00.1	00.1	00.1	
25-Jun		27-Jun	28-Jun	29-Jun	30-Jun	
	Impact Dolphin					
	Monitoring					

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

Appendix G

Impact Air Quality
Monitoring Results and
Graphical Presentation

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

Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2017-05-02	ASR8A	8:00	1-hr TSP	62		
TMCLKL	HY/2012/07	2017-05-02	ASR8A	9:02	1-hr TSP	54		
TMCLKL	HY/2012/07	2017-05-02	ASR8A	10:04	1-hr TSP	65		
TMCLKL	HY/2012/07	2017-05-06	ASR8A	8:22	1-hr TSP	190		
TMCLKL	HY/2012/07	2017-05-06	ASR8A	9:24	1-hr TSP	200		
TMCLKL	HY/2012/07	2017-05-06	ASR8A	10:26	1-hr TSP	189		
TMCLKL	HY/2012/07	2017-05-12	ASR8A	8:16	1-hr TSP	66		
TMCLKL	HY/2012/07	2017-05-12	ASR8A	9:18	1-hr TSP	57		
TMCLKL	HY/2012/07	2017-05-12	ASR8A	10:20	1-hr TSP	67	394	500
TMCLKL	HY/2012/07	2017-05-18	ASR8A	8:15	1-hr TSP	97	3 34	300
TMCLKL	HY/2012/07	2017-05-18	ASR8A	9:17	1-hr TSP	101		
TMCLKL	HY/2012/07	2017-05-18	ASR8A	10:19	1-hr TSP	67		
TMCLKL	HY/2012/07	2017-05-24	ASR8A	9:15	1-hr TSP	70		
TMCLKL	HY/2012/07	2017-05-24	ASR8A	10:17	1-hr TSP	56		
TMCLKL	HY/2012/07	2017-05-24	ASR8A	11:19	1-hr TSP	50		
TMCLKL	HY/2012/07	2017-05-27	ASR8A	8:37	1-hr TSP	90		
TMCLKL	HY/2012/07	2017-05-27	ASR8A	9:39	1-hr TSP	80		
TMCLKL	HY/2012/07	2017-05-27	ASR8A	10:41	1-hr TSP	78		
			•		Average	91		
					Min.	50		
					Max.	200		

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

Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2017-05-02	ASR9	8:11	1-hr TSP	69		
TMCLKL	HY/2012/07	2017-05-02	ASR9	9:13	1-hr TSP	66		
TMCLKL	HY/2012/07	2017-05-02	ASR9	10:15	1-hr TSP	67		
TMCLKL	HY/2012/07	2017-05-06	ASR9	8:32	1-hr TSP	251		
TMCLKL	HY/2012/07	2017-05-06	ASR9	9:34	1-hr TSP	262		
TMCLKL	HY/2012/07	2017-05-06	ASR9	10:36	1-hr TSP	263		
TMCLKL	HY/2012/07	2017-05-12	ASR9	8:27	1-hr TSP	114		
TMCLKL	HY/2012/07	2017-05-12	ASR9	9:29	1-hr TSP	145		
TMCLKL	HY/2012/07	2017-05-12	ASR9	10:31	1-hr TSP	128	393	500
TMCLKL	HY/2012/07	2017-05-18	ASR9	8:25	1-hr TSP	77	393	300
TMCLKL	HY/2012/07	2017-05-18	ASR9	9:27	1-hr TSP	139		
TMCLKL	HY/2012/07	2017-05-18	ASR9	10:29	1-hr TSP	129		
TMCLKL	HY/2012/07	2017-05-24	ASR9	9:26	1-hr TSP	90		
TMCLKL	HY/2012/07	2017-05-24	ASR9	10:28	1-hr TSP	140		
TMCLKL	HY/2012/07	2017-05-24	ASR9	11:30	1-hr TSP	114		
TMCLKL	HY/2012/07	2017-05-27	ASR9	8:48	1-hr TSP	98		
TMCLKL	HY/2012/07	2017-05-27	ASR9	9:50	1-hr TSP	117		
TMCLKL	HY/2012/07	2017-05-27	ASR9	10:52	1-hr TSP	92		
					Average	131		

Min.

Max.

66

263

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

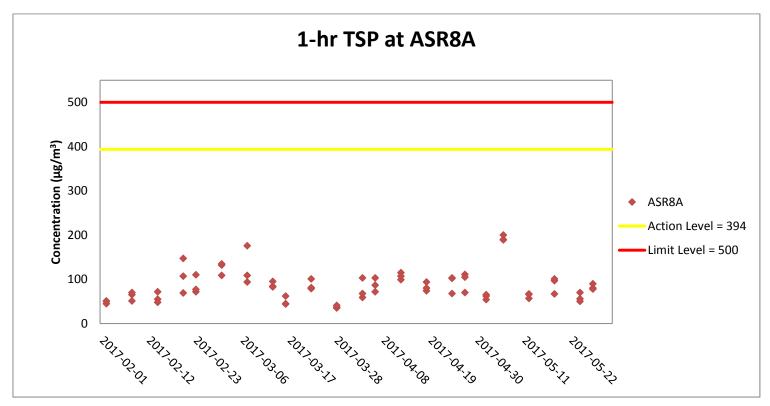
Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2017-05-02	ASR8A	11:06	24-hr TSP	39		
TMCLKL	HY/2012/07	2017-05-06	ASR8A	11:28	24-hr TSP	65		260
TMCLKL	HY/2012/07	2017-05-12	ASR8A	11:22	24-hr TSP	45	178	
TMCLKL	HY/2012/07	2017-05-18	ASR8A	11:21	24-hr TSP	45	1/8	
TMCLKL	HY/2012/07	2017-05-24	ASR8A	12:21	24-hr TSP	44		
TMCLKL	HY/2012/07	2017-05-27	ASR8A	11:43	24-hr TSP	45		
					Average	47		
					Min.	39		
					Max.	65		

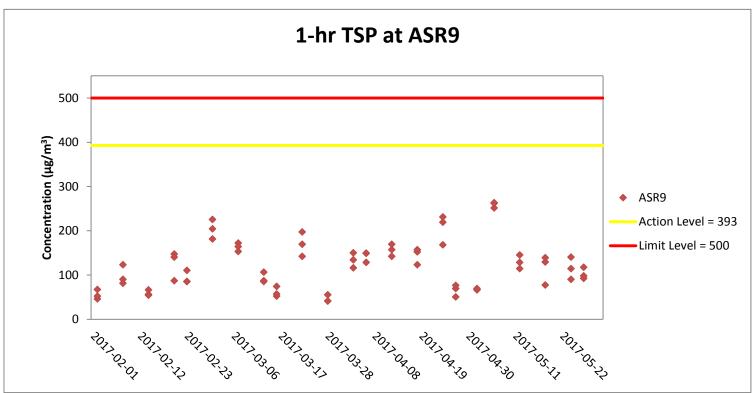
24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR9

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	2017-05-02	ASR9	11:17	24-hr TSP	48		
TMCLKL	HY/2012/07	2017-05-06	ASR9	11:38	24-hr TSP	67		260
TMCLKL	HY/2012/07	2017-05-12	ASR9	11:33	24-hr TSP	56	178	
TMCLKL	HY/2012/07	2017-05-18	ASR9	11:31	24-hr TSP	60		
TMCLKL	HY/2012/07	2017-05-24	ASR9	12:32	24-hr TSP	57		
TMCLKL	HY/2012/07	2017-05-27	ASR9	11:54	24-hr TSP	65		
					Average	59		
					Min.	48		

Max.

67

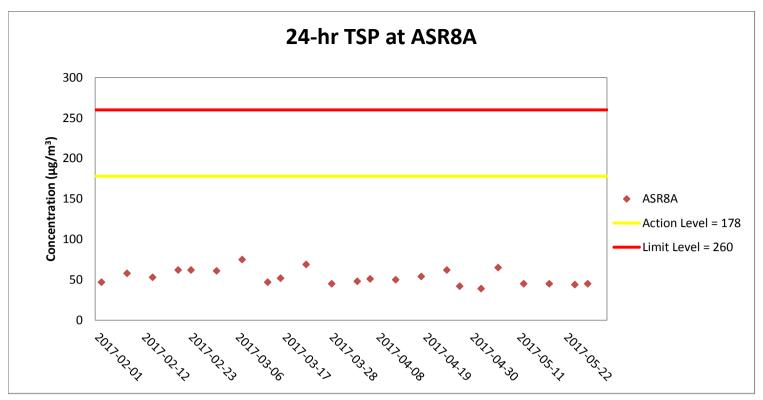


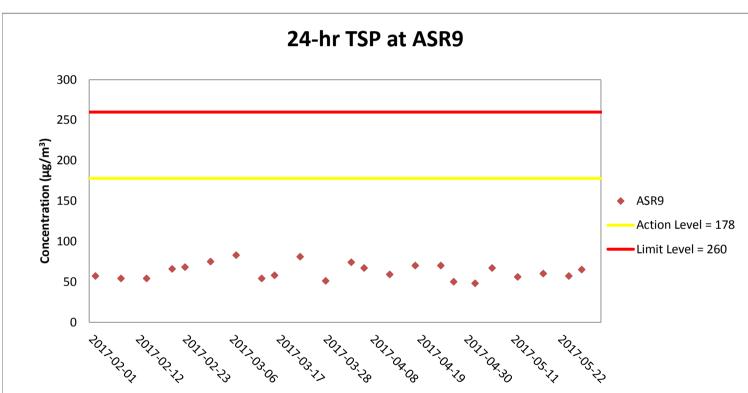


Weather condition within the reporting period varied between sunny to rainy.

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

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





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Appendix H

Meteorological Data for the Reporting Month

Date 2017/05/02 2017/05/02 2017/05/02 2017/05/02 2017/05/02 2017/05/02 2017/05/02 2017/05/02 2017/05/02	Time (HH) 0 1 2 3 4 5 6 7	Wind speed (m/s) 0.2 0.1 0.4 0.2 1.2 1.4 1.3	Wind direction (deg) 175 164 178 145 180
2017/05/02 2017/05/02 2017/05/02 2017/05/02 2017/05/02 2017/05/02 2017/05/02	1 2 3 4 5 6 7	0.1 0.4 0.2 1.2 1.4	164 178 145 180
2017/05/02 2017/05/02 2017/05/02 2017/05/02 2017/05/02 2017/05/02	2 3 4 5 6 7	0.4 0.2 1.2 1.4	178 145 180
2017/05/02 2017/05/02 2017/05/02 2017/05/02 2017/05/02	3 4 5 6 7	0.2 1.2 1.4	145 180
2017/05/02 2017/05/02 2017/05/02 2017/05/02	4 5 6 7	1.2 1.4	180
2017/05/02 2017/05/02 2017/05/02	5 6 7	1.4	
2017/05/02 2017/05/02	6 7		168
2017/05/02	7		170
		1.7	173
2017/05/02	8	2.4	161
2017/05/02	9	2.6	169
2017/05/02	10	2.8	158
2017/05/02	11	3.4	169
2017/05/02	12	1.9	167
2017/05/02	13	2.4	165
2017/05/02	14	3.0	173
2017/05/02	15	3.4	187
2017/05/02	16	2.2	172
2017/05/02	17	1.8	168
2017/05/02	18	2.2	161
2017/05/02	19	1.9	148
2017/05/02	20	2.1	166
2017/05/02	21	1.3	164
2017/05/02	22	1.8	160
2017/05/02	23	1.9	142
2017/05/03	0	1.6	172
2017/05/03	1	2.9	166
2017/05/03 2017/05/03	<u>2</u> 3	3.2	170 163
2017/05/03	4	2.3	170
2017/05/03	5	2.3	184
2017/05/03	6	2.9	178
2017/05/03	7	3.5	171
2017/05/03	8	3.3	166
2017/05/03	9	3.1	165
2017/05/03	10	2.8	161
2017/05/03	11	3.7	175
2017/05/03	12	4.7	182
2017/05/03	13	3.6	165
2017/05/03	14	3.4	175
2017/05/03	15	4.2	172
2017/05/03	16	2.4	174
2017/05/03	17	1.5	157
2017/05/03	18	2.7	163
2017/05/03	19	1.8	159
2017/05/03	20	1.8	162
2017/05/03	21	1.8	149
2017/05/03	22	1.2	141
2017/05/03	23	1.9	170
2017/05/06	0	0.0	197
2017/05/06	<u>1</u> 2	0.0	192
2017/05/06 2017/05/06	3	0.0	196 185
2017/05/06	4	0.0	185
2017/05/06	5	0.0	192
2017/05/06	6	0.0	217
2017/05/06	7	0.0	265
2017/05/06	8	0.0	303
2017/05/06	9	0.0	306
2017/05/06	10	0.0	235
2017/05/06	11	0.0	208
2017/05/06	12	0.8	204
2017/05/06	13	2.6	176
2017/05/06	14	3.4	169
2017/05/06	15	3.0	171
2017/05/06	16	2.5	174
2017/05/06	17	3.1	163
2017/05/06	18	3.6	164
2017/05/06	19	3.1	169
2017/05/06	20	3.5	166
2017/05/06	21	3.0	163
2017/05/06	22	1.9	162
2017/05/06	23	2.5	151
2017/05/07	0	1.5	164

Dete	T' (IIII)	W. 1 1 (/-)	W: 1 1: (1)
Date 2017/05/07	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2017/05/07	2	1.4 0.8	167 150
2017/05/07	3	0.0	126
2017/05/07	4	0.0	81
2017/05/07	5	0.0	88
2017/05/07	6	0.1	136
2017/05/07	<u></u>	0.8	145
2017/05/07	8	1.1	159
2017/05/07	9	1.4	97
2017/05/07	10	4.8	165
2017/05/07	11	4.6	162
2017/05/07	12	3.8	158
2017/05/07	13	4.3	161
2017/05/07	14	4.0	154
2017/05/07	15	3.2	141
2017/05/07	16	2.9	162
2017/05/07	17	2.6	161
2017/05/07	18	2.6	157
2017/05/07	19	0.9	148
2017/05/07	20	0.7	154
2017/05/07	21	0.7	163
2017/05/07	22	0.4	152
2017/05/07	23	0.2	74
2017/05/12	0	2.4	159
2017/05/12	1	0.8	150
2017/05/12	2	0.4	176
2017/05/12	3	0.2	185
2017/05/12	4	0.0	182
2017/05/12	5	0.0	182
2017/05/12	6	0.0	172
2017/05/12	7	0.0	134
2017/05/12	8	0.0	158
2017/05/12	9	0.0	174
2017/05/12	10	0.0	86
2017/05/12	11	0.0	106
2017/05/12	12	0.0	119
2017/05/12	13	0.0	206
2017/05/12	14	0.1	284
2017/05/12	15	0.0	177
2017/05/12	16	0.0	126
2017/05/12	17	0.0	118
2017/05/12	18	0.0	135
2017/05/12	19	0.1	149
2017/05/12	20	0.0	84
2017/05/12	21	0.0	146
2017/05/12	22	0.0	108
2017/05/12	23	0.0	139
2017/05/13	0	0.0	158
2017/05/13	1	0.0	191
2017/05/13	2	0.0	178
2017/05/13	3	0.0	185
2017/05/13	4	0.1	188
2017/05/13	5	0.1	196
2017/05/13	6	0.1	188
2017/05/13	7	0.0	206
2017/05/13	8	0.0	20
2017/05/13	9	0.0	181
2017/05/13	10	0.0	181
2017/05/13	11	0.0	308
2017/05/13	12	0.1	12
2017/05/13	13	0.0	196
2017/05/13	14	0.0	49
2017/05/13	15	0.0	46
2017/05/13	16	0.0	164
2017/05/13	17	0.0	173
2017/05/13	18	0.0	174
2017/05/13	19	0.1	178
2017/05/13	20	0.6	163
2017/05/13	21	1.4	151
2017/05/13	22	0.6	178
2017/03/13			
2017/05/13	23	0.0	124
	23 0	0.0 1.3 0.3	124 185 176

Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2017/05/18	2	0.1	116
2017/05/18	3	0.3	189
2017/05/18	4	1.9	180
2017/05/18	5	1.0	177
2017/05/18	6	0.1	144
2017/05/18	7	0.0	78
2017/05/18	8	0.1	133
2017/05/18	9	1.7	149
2017/05/18	10	0.6	163
2017/05/18	11	0.3	164
2017/05/18 2017/05/18	12 13	1.7	138 162
2017/05/18	13 14	3.3	160
2017/05/18	15	3.9	167
2017/05/18	16	2.7	163
2017/05/18	17	0.8	171
2017/05/18	18	3.3	170
2017/05/18	19	4.8	165
2017/05/18	20	2.8	170
2017/05/18	21	0.8	172
2017/05/18	22	0.4	191
2017/05/18	23	0.9	178
2017/05/19	0	0.5	151
2017/05/19	1	0.3	180
2017/05/19	2	0.2	133
2017/05/19	3	0.0	128
2017/05/19	4	0.0	217
2017/05/19	5	0.0	87
2017/05/19	6	0.0	75
2017/05/19	7	0.0	81
2017/05/19	8	0.0	144
2017/05/19 2017/05/19	9	0.3	173 135
2017/05/19	10 11	0.6	161
2017/05/19	12	0.3	161
2017/05/19	13	0.2	89
2017/05/19	14	0.1	129
2017/05/19	15	0.0	174
2017/05/19	16	0.0	39
2017/05/19	17	0.0	315
2017/05/19	18	0.0	172
2017/05/19	19	0.0	173
2017/05/19	20	0.0	172
2017/05/19	21	0.0	142
2017/05/19	22	0.0	133
2017/05/19	23	0.0	161
2017/05/24	0	1.7	161
2017/05/24	1	2.2	172
2017/05/24	2	1.4	203
2017/05/24	3	0.7	195
2017/05/24	<u>4</u> 5	0.7	186
2017/05/24 2017/05/24	6	0.5	147 122
2017/05/24	<u></u>	0.1	114
2017/05/24	8	0.6	128
2017/05/24	9	0.9	44
2017/05/24	10	0.4	186
2017/05/24	11	0.4	191
2017/05/24	12	0.0	167
2017/05/24	13	0.0	125
2017/05/24	14	0.0	84
2017/05/24	15	0.1	134
2017/05/24	16	0.0	87
2017/05/24	17	0.0	148
2017/05/24	18	0.0	146
2017/05/24	19	0.0	242
2017/05/24	20	0.0	286
2017/05/24	21	0.0	12
2017/05/24	22	0.0	11
2017/05/24	23	0.0	194
2017/05/25	0	0.0	191
2017/05/25	1	0.0	345
2017/05/25 2017/05/25	<u>2</u> 3	0.0	339 344
2017/05/25	4	0.0	349
LOTHUJILJ	Т	U•U	JT/

D-4-	T: (IIII)	W 1 1 (/-)	Wind dim 4: (1)
Date 2017/05/25	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2017/05/25	5	0.0	347
2017/05/25	6	0.0	348
2017/05/25	7	0.0	348
2017/05/25	8	0.0	346
2017/05/25	9	0.0	327
2017/05/25	10	0.1	263
2017/05/25	11	0.0	160
2017/05/25	12	0.0	111
2017/05/25	13	0.5	161
2017/05/25	14	0.3	174
2017/05/25	15	0.1	185
2017/05/25	16	0.0	148
2017/05/25	17	0.0	92
2017/05/25	18	0.1	158
2017/05/25	19	0.1	182
2017/05/25	20	0.3	185
2017/05/25	21	0.1	177
2017/05/25	22	0.3	182
2017/05/25	23	0.2	189
2017/05/27	0	0.3	188
2017/05/27	1	0.3	189
2017/05/27	2	0.1	180
2017/05/27	3	0.0	89
2017/05/27	4	0.3	143
2017/05/27	5	0.0	106
2017/05/27	6	0.0	176
2017/05/27	7	0.0	192
2017/05/27	8	0.1	66
2017/05/27	9	0.1	282
2017/05/27	10	0.3	123
2017/05/27	11	0.9	175
2017/05/27	12	0.7	144
2017/05/27	13	1.5	158
2017/05/27	14	2.5	173
2017/05/27	15	3.8	184
2017/05/27	16	2.7	189
2017/05/27	17	3.1	184
2017/05/27	18	3.2	171
2017/05/27	19	3.4	170
2017/05/27	20	1.2	183
2017/05/27	21	0.6	172
2017/05/27	22	0.2	187
2017/05/27	23	0.0	199
2017/05/28	0	0.7	178
2017/05/28	1	1.6	161
2017/05/28	2	0.4	174
2017/05/28 2017/05/28	3 4	0.0	203 237
2017/05/28	5	0.0	296
2017/05/28	<u> </u>	0.0	245
2017/05/28	<u>6</u> 7	0.0	112
2017/05/28	8	0.0	143
2017/05/28	<u>0</u> 9	0.3	165
2017/05/28	10	0.4	181
2017/05/28	11	0.0	274
2017/05/28	12	0.0	188
2017/05/28	13	1.4	180
2017/05/28	13	3.5	179
2017/05/28	15	4.4	188
2017/05/28	16	4.1	185
2017/05/28	17	3.4	175
2017/05/28	18	3.4	162
2017/05/28	19	3.8	177
2017/05/28	20	2.9	180
2017/05/28	21	1.5	175
2017/05/28	22	3.8	172
2017/05/28	23	2.4	166
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Appendix I

Impact Noise Monitoring Results and Graphical Presentation

Dunings	Mode	Data (casa sana da)	04-41	Ma athan Oan dition	Time of the leaves Odds over	Noise L	evel for 30-	min, dB(A)	Limit Level	Wind Speed	Noise Meter	Calibrator
Project	Works	Date (yyyy-mm-dd)	Station	Weather Condition	Time (hh:mm, 24hour)	Leq	L10	L90	dB(A)	(m/s)	Model/ID	Model/ID
TMCLKL	HY/2012/07	2017-05-02	NSR1A	Sunny	9:23	61	63	57	75	0.2	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2017-05-06	NSR1A	Sunny	8:43	60	62	56	75	0.2	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2017-05-12	NSR1A	Sunny	9:40	61	63	56	75	0.2	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2017-05-18	NSR1A	Cloudy	8:35	60	63	56	75	0.2	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2017-05-24	NSR1A	Cloudy	10:39	62	64	59	75	0.5	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2017-05-27	NSR1A	Sunny	10:00	63	64	59	75	0.3	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
					Min.	60						

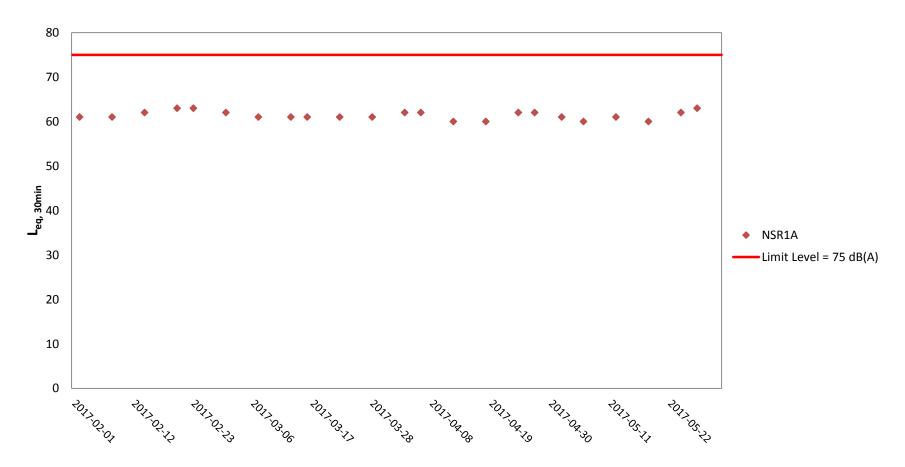
Max.

Average

63

61

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; Road works along North Lantau Highway; Installation of pier head and deck segments; and Slope work of Viaducts A, B & C.

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

Appendix 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	2017-05-02	Mid-Flood	CS(Mf)5	9:46	Surface	1	1	24.7	7.99	21.6	7.38	10.5	14.7
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	CS(Mf)5	9:46	Surface	1	2	24.6	8.02	21.5	7.36	10.9	15.7
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	CS(Mf)5	9:46	Middle	2	1	24.5	8.07	21.7	7.42	11.8	16.9
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	CS(Mf)5	9:46	Middle	2	2	24.5	8.09	21.6	7.45	11.1	16
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	CS(Mf)5	9:46	Bottom	3	1	24.4	8.12	21.8	7.2	8.69	12.6
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	CS(Mf)5	9:46	Bottom	3	2	24.3	8.16	21.9	7.17	8.77	12.8
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	SR4a	10:09	Surface	1	1	24.6	8.13	21.7	7.46	8.73	12.7
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	SR4a	10:09	Surface	1	2	24.5	8.17	21.8	7.49	8.79	12.8
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	SR4a	10:09	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	SR4a	10:09	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	SR4a	10:09	Bottom	3	1	24.5	8.07	21.9	7.31	8.42	12.2
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	SR4a	10:09	Bottom	3	2	24.5	8.06	21.8	7.3	8.36	12
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	SR4	10:24	Surface	1	1	24.5	7.95	21.6	7.05	8.89	12.7
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	SR4	10:24	Surface	1	2	24.4	7.91	21.7	7.08	8.96	12.8
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	SR4	10:24	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	SR4	10:24	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	SR4	10:24	Bottom	3	1	24.6	8.05	21.8	7.23	11.8	17.2
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	SR4	10:24	Bottom	3	2	24.5	8.07	21.7	7.24	11.1	16.1
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS8	10:39	Surface	1	1	24.6	8.11	21.7	7.35	7.34	10.4
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS8	10:39	Surface	1	2	24.6	8.13	21.6	7.32	7.41	10.5
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS8	10:39	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS8	10:39	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS8	10:39	Bottom	3	1	24.5	8.02	21.8	7.11	7.68	11.1
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS8	10:39	Bottom	3	2	24.5	8.05	21.9	7.14	7.62	11
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS(Mf)16	10:53	Surface	1	1	24.7	7.96	21.6	7.21	6.17	8.7
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS(Mf)16	10:53	Surface	1	2	24.6	7.95	21.5	7.22	6.24	8.9
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS(Mf)16	10:53	Middle	2	1	24.5	8.17	21.7	7.43	6.53	9.4
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS(Mf)16	10:53	Middle	2	2	24.5	8.19	21.7	7.44	6.59	9.6
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS(Mf)16	10:53	Bottom	3	1	24.4	8.1	21.8	7.35	7.12	10.4
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS(Mf)16	10:53	Bottom	3	2	24.3	8.13	21.9	7.32	7.18	10.5
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS(Mf)9	11:12	Surface	1	1	24.6	8.11	21.4	7.23	7.39	10.6
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS(Mf)9	11:12	Surface	1	2	24.5	8.13	21.3	7.25	7.32	10.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS(Mf)9	11:12	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS(Mf)9	11:12	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS(Mf)9	11:12	Bottom	3	1	24.4	8.02	21.5	7.51	7.67	11.1
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	IS(Mf)9	11:12	Bottom	3	2	24.4	8.05	21.6	7.56	7.79	11.4
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	CS(Mf)3(N)	11:33	Surface	1	1	24.6	7.96	19.3	6.86	10.7	15.2
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	CS(Mf)3(N)	11:33	Surface	1	2	24.7	7.99	19.4	6.89	10.2	14.6
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	CS(Mf)3(N)	11:33	Middle	2	1	24.6	8.1	20	8.09	6.93	10
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	CS(Mf)3(N)	11:33	Middle	2	2	24.5	8.15	20.1	8.13	7.01	10.1
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	CS(Mf)3(N)	11:33	Bottom	3	1	24.5	8.19	20.4	9.69	4.16	6.1
TMCLKL	HY/2012/07	2017-05-02	Mid-Flood	CS(Mf)3(N)	11:33	Bottom	3	2	24.4	8.17	20.5	9.68	4.25	6.2
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	CS(Mf)5	18:00	Surface	1	1	24.8	7.86	21.8	7.23	9.84	14.2
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	CS(Mf)5	18:00	Surface	1	2	24.8	7.89	21.8	7.29	9.9	14.1
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	CS(Mf)5	18:00	Middle	2	1	24.8	7.94	21.8	7.34	8.45	12.3
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	CS(Mf)5	18:00	Middle	2	2	24.7	7.92	21.9	7.38	8.36	12.1
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	CS(Mf)5	18:00	Bottom	3	1	24.6	8.04	22	7.45	10.8	15.4
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	CS(Mf)5	18:00	Bottom	3	2	24.6	8.07	22	7.51	10.2	14.5
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	SR4a	17:36	Surface	1	1	24.8	8.06	21.9	7.32	9.04	12.7
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	SR4a	17:36	Surface	1	2	24.9	8.09	21.9	7.27	9.11	12.8
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	SR4a	17:36	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	SR4a	17:36	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	SR4a	17:36	Bottom	3	1	24.7	8.11	22	7.22	9.73	14
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	SR4a	17:36	Bottom	3	2	24.6	8.08	22	7.29	9.66	13.9
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	SR4	17:18	Surface	1	1	24.8	8.07	21.8	7.2	9.54	13.6
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	SR4	17:18	Surface	1	2	24.9	8.05	21.7	7.15	9.61	13.8
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	SR4	17:18	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	SR4	17:18	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	SR4	17:18	Bottom	3	1	24.7	7.96	21.9	7.43	10.4	15.1
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	SR4	17:18	Bottom	3	2	24.8	7.99	21.9	7.49	10.9	15.9
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS8	17:01	Surface	1	1	24.8	8.04	21.8	7.48	7.52	10.8
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS8	17:01	Surface	1	2	24.8	8.06	21.8	7.54	7.57	10.8
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS8	17:01	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS8	17:01	Middle	2	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	2017-05-02	Mid-Ebb	IS8	17:01	Bottom	3	1	24.7	8.11	21.9	7.32	7.79	11.3
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS8	17:01	Bottom	3	2	24.6	8.14	22	7.37	7.86	11.4
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS(Mf)16	16:44	Surface	1	1	24.8	7.86	21.8	7.42	6.84	9.8
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS(Mf)16	16:44	Surface	1	2	24.9	7.9	21.9	7.36	6.89	9.8
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS(Mf)16	16:44	Middle	2	1	24.7	8.03	21.9	7.22	6.73	9.8
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS(Mf)16	16:44	Middle	2	2	24.8	8.01	22	7.28	6.77	9.8
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS(Mf)16	16:44	Bottom	3	1	24.5	7.97	22.1	7.57	7.04	10.1
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS(Mf)16	16:44	Bottom	3	2	24.6	7.94	22	7.65	7.1	10.2
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS(Mf)9	16:27	Surface	1	1	24.8	7.96	21.7	7.06	7.67	11.2
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS(Mf)9	16:27	Surface	1	2	24.9	7.98	21.7	7.11	7.6	11.1
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS(Mf)9	16:27	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS(Mf)9	16:27	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS(Mf)9	16:27	Bottom	3	1	24.7	7.9	21.9	7.33	7.83	11.3
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	IS(Mf)9	16:27	Bottom	3	2	24.8	7.86	21.8	7.27	7.88	11.5
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	CS(Mf)3(N)	15:59	Surface	1	1	24.9	7.93	21.1	6.71	10.6	15.1
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	CS(Mf)3(N)	15:59	Surface	1	2	24.9	7.91	21.2	6.78	10.2	14.6
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	CS(Mf)3(N)	15:59	Middle	2	1	24.8	8.07	21.2	6.56	8.7	12.6
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	CS(Mf)3(N)	15:59	Middle	2	2	24.7	8.1	21.2	6.63	9.2	13.4
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	CS(Mf)3(N)	15:59	Bottom	3	1	24.6	7.96	21.3	6.94	6.82	10
TMCLKL	HY/2012/07	2017-05-02	Mid-Ebb	CS(Mf)3(N)	15:59	Bottom	3	2	24.7	7.99	21.4	7.02	7.43	10.9
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	CS(Mf)5	12:03	Surface	1	1	23.6	7.99	21.7	7.38	10.2	14.3
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	CS(Mf)5	12:03	Surface	1	2	23.5	8.01	21.6	7.41	9.96	14.3
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	CS(Mf)5	12:03	Middle	2	1	23.4	8.05	21.7	7.49	11.5	16.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	CS(Mf)5	12:03	Middle	2	2	23.5	8.09	21.7	7.46	10.9	15.7
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	CS(Mf)5	12:03	Bottom	3	1	23.4	8.14	21.9	7.24	8.57	12.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	CS(Mf)5	12:03	Bottom	3	2	23.3	8.12	21.8	7.22	8.63	12.6
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	SR4a	12:33	Surface	1	1	23.4	8.11	21.7	7.51	8.55	12.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	SR4a	12:33	Surface	1	2	23.5	8.15	21.7	7.47	8.61	12.6
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	SR4a	12:33	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	SR4a	12:33	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	SR4a	12:33	Bottom	3	1	23.4	8.07	21.8	7.32	8.36	12.1
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	SR4a	12:33	Bottom	3	2	23.4	8.05	21.7	7.29	8.34	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	2017-05-04	Mid-Flood	SR4	12:51	Surface	1	1	23.4	7.93	21.8	7.14	8.91	12.7
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	SR4	12:51	Surface	1	2	23.4	7.89	21.7	7.11	8.86	12.7
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	SR4	12:51	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	SR4	12:51	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	SR4	12:51	Bottom	3	1	23.5	8.02	21.9	7.28	11.4	16.6
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	SR4	12:51	Bottom	3	2	23.6	7.99	21.9	7.29	10.7	15.5
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS8	13:10	Surface	1	1	23.6	8.07	21.8	7.35	7.25	10.3
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS8	13:10	Surface	1	2	23.6	8.09	21.8	7.39	7.31	10.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS8	13:10	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS8	13:10	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS8	13:10	Bottom	3	1	23.5	7.97	21.9	7.19	7.59	10.9
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS8	13:10	Bottom	3	2	23.4	7.98	22	7.17	7.54	10.9
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS(Mf)16	13:27	Surface	1	1	23.6	7.93	21.6	7.27	6.18	8.7
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS(Mf)16	13:27	Surface	1	2	23.7	7.92	21.7	7.26	6.11	8.7
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS(Mf)16	13:27	Middle	2	1	23.5	8.14	21.9	7.49	6.53	9.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS(Mf)16	13:27	Middle	2	2	23.4	8.16	21.8	7.48	6.46	9.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS(Mf)16	13:27	Bottom	3	1	23.3	8.08	22	7.39	7.11	10.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS(Mf)16	13:27	Bottom	3	2	23.3	8.04	22	7.42	7.08	10.3
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS(Mf)9	13:44	Surface	1	1	23.5	8.07	21.5	7.28	7.33	10.6
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS(Mf)9	13:44	Surface	1	2	23.6	8.09	21.4	7.32	7.28	10.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS(Mf)9	13:44	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS(Mf)9	13:44	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS(Mf)9	13:44	Bottom	3	1	23.4	7.98	21.7	7.59	7.72	11.2
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	IS(Mf)9	13:44	Bottom	3	2	23.5	8.03	21.6	7.57	7.66	11.2
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	CS(Mf)3(N)	14:11	Surface	1	1	23.6	7.95	21.3	6.91	9.93	14.1
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	CS(Mf)3(N)	14:11	Surface	1	2	23.6	7.92	21.4	6.92	9.89	14.1
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	CS(Mf)3(N)	14:11	Middle	2	1	23.5	8.06	21.5	7.37	6.98	10.1
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	CS(Mf)3(N)	14:11	Middle	2	2	23.6	8.11	21.6	7.41	6.93	10
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	CS(Mf)3(N)	14:11	Bottom	3	1	23.5	8.13	21.8	7.65	6.12	8.9
TMCLKL	HY/2012/07	2017-05-04	Mid-Flood	CS(Mf)3(N)	14:11	Bottom	3	2	23.4	8.15	21.7	7.67	6.06	8.9
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	CS(Mf)5	10:02	Surface	1	1	23.4	7.95	21.6	7.24	8.74	12.6
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	CS(Mf)5	10:02	Surface	1	2	23.5	7.98	21.5	7.2	8.82	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	2017-05-04	Mid-Ebb	CS(Mf)5	10:02	Middle	2	1	23.6	8.04	21.7	7.38	9.21	13.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	CS(Mf)5	10:02	Middle	2	2	23.5	8.06	21.6	7.37	9.24	13.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	CS(Mf)5	10:02	Bottom	3	1	23.7	8.11	21.7	7.18	8.65	12.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	CS(Mf)5	10:02	Bottom	3	2	23.6	8.14	21.8	7.17	8.6	12.2
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	SR4a	9:39	Surface	1	1	23.6	8.02	21.4	7.31	8.69	12.2
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	SR4a	9:39	Surface	1	2	23.5	8.05	21.5	7.34	8.62	12.2
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	SR4a	9:39	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	SR4a	9:39	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	SR4a	9:39	Bottom	3	1	23.5	8.11	21.6	7.12	8.74	12.6
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	SR4a	9:39	Bottom	3	2	23.4	8.13	21.5	7.09	8.81	12.7
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	SR4	9:25	Surface	1	1	23.6	8.01	21.6	6.94	9.23	13.9
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	SR4	9:25	Surface	1	2	23.5	8.02	21.5	6.95	9.29	13.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	SR4	9:25	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	SR4	9:25	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	SR4	9:25	Bottom	3	1	23.7	8.15	21.7	7.13	10.2	14.8
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	SR4	9:25	Bottom	3	2	23.6	8.17	21.6	7.11	10.8	15.8
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS8	9:12	Surface	1	1	23.4	8.14	21.7	7.11	8.16	11.7
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS8	9:12	Surface	1	2	23.5	8.1	21.6	7.1	8.24	11.8
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS8	9:12	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS8	9:12	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS8	9:12	Bottom	3	1	23.6	8.19	21.8	6.84	8.56	12.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS8	9:12	Bottom	3	2	23.5	8.16	21.8	6.88	8.62	12.5
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS(Mf)16	8:57	Surface	1	1	23.6	7.99	21.5	7.03	8.03	11.6
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS(Mf)16	8:57	Surface	1	2	23.6	8.02	21.4	7.07	8.07	11.5
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS(Mf)16	8:57	Middle	2	1	23.5	8.12	21.6	7.21	8.32	12.1
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS(Mf)16	8:57	Middle	2	2	23.6	8.15	21.5	7.23	8.39	12.2
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS(Mf)16	8:57	Bottom	3	1	23.4	8.1	21.7	7.1	7.98	11.5
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS(Mf)16	8:57	Bottom	3	2	23.5	8.08	21.6	7.14	7.91	11.3
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS(Mf)9	8:44	Surface	1	1	23.4	8.06	21.4	7.18	7.54	11
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS(Mf)9	8:44	Surface	1	2	23.4	8.09	21.3	7.19	7.59	11.1
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS(Mf)9	8:44	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS(Mf)9	8:44	Middle	2	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	2017-05-04	Mid-Ebb	IS(Mf)9	8:44	Bottom	3	1	23.4	8.13	21.4	7.36	7.78	11.2
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	IS(Mf)9	8:44	Bottom	3	2	23.5	8.15	21.5	7.32	7.83	11.4
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	CS(Mf)3(N)	8:20	Surface	1	1	23.5	7.96	21.4	7.12	10.9	15.5
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	CS(Mf)3(N)	8:20	Surface	1	2	23.4	7.97	21.4	7.14	10.6	15.2
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	CS(Mf)3(N)	8:20	Middle	2	1	23.6	8.02	21.4	7.3	9.97	14.5
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	CS(Mf)3(N)	8:20	Middle	2	2	23.6	8.04	21.5	7.28	9.91	14.5
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	CS(Mf)3(N)	8:20	Bottom	3	1	23.3	8.1	21.6	7.34	8.32	12.2
TMCLKL	HY/2012/07	2017-05-04	Mid-Ebb	CS(Mf)3(N)	8:20	Bottom	3	2	23.2	8.09	21.7	7.37	8.36	12.3
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	CS(Mf)5	14:35	Surface	1	1	24.7	7.88	27	7.36	9.54	13.4
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	CS(Mf)5	14:35	Surface	1	2	24.6	7.89	21.9	7.33	9.51	13.7
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	CS(Mf)5	14:35	Middle	2	1	24.6	7.93	22.1	7.41	9.12	13
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	CS(Mf)5	14:35	Middle	2	2	24.5	7.94	22	7.42	9.17	13.2
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	CS(Mf)5	14:35	Bottom	3	1	24.5	7.99	22.3	7.22	9.96	14.4
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	CS(Mf)5	14:35	Bottom	3	2	24.4	8.01	22.2	7.24	9.89	14.4
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	SR4a	14:52	Surface	1	1	24.7	7.88	21.9	7.39	9.06	13.2
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	SR4a	14:52	Surface	1	2	24.6	7.86	21.9	7.38	9.12	13.6
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	SR4a	14:52	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	SR4a	14:52	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	SR4a	14:52	Bottom	3	1	24.6	7.8	22	7.22	9.34	13.5
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	SR4a	14:52	Bottom	3	2	24.6	7.79	22.1	7.2	9.42	13.6
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	SR4	15:06	Surface	1	1	24.5	7.85	21.8	7.41	8.76	12.5
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	SR4	15:06	Surface	1	2	24.4	7.87	21.9	7.44	8.83	12.6
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	SR4	15:06	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	SR4	15:06	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	SR4	15:06	Bottom	3	1	24.6	7.91	22	7.28	8.99	13.1
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	SR4	15:06	Bottom	3	2	24.5	7.93	21.9	7.26	9.03	13.1
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS8	15:21	Surface	1	1	24.6	7.8	22	7.35	8.22	11.7
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS8	15:21	Surface	1	2	24.5	7.81	21.9	7.36	8.28	11.8
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS8	15:21	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS8	15:21	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS8	15:21	Bottom	3	1	24.7	7.89	22	7.44	8.46	12.2
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS8	15:21	Bottom	3	2	24.6	7.92	22.1	7.46	8.59	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	2017-05-06	Mid-Flood	IS(Mf)16	15:35	Surface	1	1	24.7	7.86	21.9	7.24	8.59	12.1
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS(Mf)16	15:35	Surface	1	2	24.6	7.69	21.8	7.23	8.52	12.1
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS(Mf)16	15:35	Middle	2	1	24.6	7.83	22	7.37	8.18	11.8
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS(Mf)16	15:35	Middle	2	2	24.6	7.81	22	7.39	8.11	11.8
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS(Mf)16	15:35	Bottom	3	1	24.5	7.96	22.2	7.2	8.72	12.7
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS(Mf)16	15:35	Bottom	3	2	24.4	7.95	22.1	7.17	8.77	12.8
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS(Mf)9	15:53	Surface	1	1	24.7	7.89	22	7.23	9.61	13.8
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS(Mf)9	15:53	Surface	1	2	24.6	7.92	22.1	7.22	9.69	13.9
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS(Mf)9	15:53	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS(Mf)9	15:53	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS(Mf)9	15:53	Bottom	3	1	24.6	7.94	22.1	7.35	9.02	13.1
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	IS(Mf)9	15:53	Bottom	3	2	24.6	7.96	22.1	7.38	9.07	13.2
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	CS(Mf)3(N)	16:14	Surface	1	1	24.6	7.8	21.7	7.06	10.1	14.3
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	CS(Mf)3(N)	16:14	Surface	1	2	24.7	7.83	21.6	7.03	10.6	15.2
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	CS(Mf)3(N)	16:14	Middle	2	1	24.5	7.96	21.8	7.12	8.64	12.4
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	CS(Mf)3(N)	16:14	Middle	2	2	24.6	7.97	21.7	7.16	8.59	12.4
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	CS(Mf)3(N)	16:14	Bottom	3	1	24.5	7.88	22	7.23	8.73	12.7
TMCLKL	HY/2012/07	2017-05-06	Mid-Flood	CS(Mf)3(N)	16:14	Bottom	3	2	24.5	7.89	21.9	7.26	7.79	12.9
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	CS(Mf)5	12:04	Surface	1	1	24.6	7.78	21.7	7.15	9.67	13.9
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	CS(Mf)5	12:04	Surface	1	2	24.6	7.83	21.8	7.12	9.58	13.6
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	CS(Mf)5	12:04	Middle	2	1	24.6	7.76	21.8	7.23	8.87	12.9
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	CS(Mf)5	12:04	Middle	2	2	24.6	7.8	21.8	7.26	8.79	12.7
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	CS(Mf)5	12:04	Bottom	3	1	24.6	7.83	21.9	7.35	9.97	14.3
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	CS(Mf)5	12:04	Bottom	3	2	24.7	7.88	22	7.38	10.4	14.8
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	SR4a	11:39	Surface	1	1	24.6	7.84	21.8	7.22	9.34	13.1
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	SR4a	11:39	Surface	1	2	24.6	7.89	21.9	7.2	9.27	13.1
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	SR4a	11:39	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	SR4a	11:39	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	SR4a	11:39	Bottom	3	1	24.6		21.9	7.14	9.87	14.2
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	SR4a	11:39	Bottom	3	2	24.6	7.83	21.9	7.11	9.79	14.1
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	SR4	11:21	Surface	1	1	24.6	7.77	21.7	7.26	8.93	12.8
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	SR4	11:21	Surface	1	2	24.6	7.82	21.8	7.23	9.02	13
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	SR4	11:21	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	SR4	11:21	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	SR4	11:21	Bottom	3	1	24.6	7.81	21.9	7.31	9.23	13.4
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	SR4	11:21	Bottom	3	2	24.6	7.83	21.8	7.36	9.31	13.6
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS8	11:05	Surface	1	1	24.5	7.83	21.8	7.3	8.39	12
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS8	11:05	Surface	1	2	24.6	7.8	21.8	7.34	8.3	11.9
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS8	11:05	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS8	11:05	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS8	11:05	Bottom	3	1	24.6	7.84	21.8	7.27	8.58	12.4
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS8	11:05	Bottom	3	2	24.6	7.81	21.9	7.24	8.66	12.6
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS(Mf)16	10:42	Surface	1	1	24.5	7.85	21.7	7.18	8.77	12.6
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS(Mf)16	10:42	Surface	1	2	24.5	7.8	21.8	7.21	8.7	12.4
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS(Mf)16	10:42	Middle	2	1	24.5	7.83	21.9	7.13	8.13	11.9
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS(Mf)16	10:42	Middle	2	2	24.5	7.79	21.9	7.1	8.27	12
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS(Mf)16	10:42	Bottom	3	1	24.6	7.84	22.1	7.33	9.01	13
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS(Mf)16	10:42	Bottom	3	2	24.6	7.87	22	7.36	8.94	12.8
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS(Mf)9	10:23	Surface	1	1	24.5	7.83	22	7.09	9.86	14.4
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS(Mf)9	10:23	Surface	1	2	24.5	7.8	21.9	7.12	9.79	14.3
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS(Mf)9	10:23	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS(Mf)9	10:23	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS(Mf)9	10:23	Bottom	3	1	24.5	7.86	22	7.3	9.34	13.4
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	IS(Mf)9	10:23	Bottom	3	2	24.6	7.89	22	7.27	9.26	13.5
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	CS(Mf)3(N)	10:00	Surface	1	1	24.6	7.84	21.3	6.88	11.4	16.2
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	CS(Mf)3(N)	10:00	Surface	1	2	24.5	7.88	21.4	6.85	10.9	15.6
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	CS(Mf)3(N)	10:00	Middle	2	1	24.6	7.89	21.4	6.69	10.4	15.1
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	CS(Mf)3(N)	10:00	Middle	2	2	24.6	7.85	21.4	6.66	9.87	14.4
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	CS(Mf)3(N)	10:00	Bottom	3	1	24.6	7.88	21.4	7.13	8.85	13
TMCLKL	HY/2012/07	2017-05-06	Mid-Ebb	CS(Mf)3(N)	10:00	Bottom	3	2	24.7	7.9	21.5	7.08	8.77	12.9
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	CS(Mf)5	17:00	Surface	1	1	25	7.8	21.3	7.33	9.85	13.8
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	CS(Mf)5	17:00	Surface	1	2	24.9	7.77	21.3	7.38	9.8	14.1
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	CS(Mf)5	17:00	Middle	2	1	24.9	7.84	21.4	7.46	9.94	14.2
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	CS(Mf)5	17:00	Middle	2	2	24.8	7.82	21.4	7.4	9.9	14.3
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	CS(Mf)5	17:00	Bottom	3	1	24.8	7.86	21.4	7.55	10.2	14.8
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	CS(Mf)5	17:00	Bottom	3	2	24.8	7.83	21.5	7.6	10.7	15.6

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	2017-05-09	Mid-Flood	SR4a	17:22	Surface	1	1	24.9	7.76	21.3	7.06	9.63	14
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	SR4a	17:22	Surface	1	2	24.9	7.79	21.2	7	9.58	14
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	SR4a	17:22	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	SR4a	17:22	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	SR4a	17:22	Bottom	3	1	24.9	7.85	21.3	7.26	9.74	14.1
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	SR4a	17:22	Bottom	3	2	24.8	7.83	21.3	7.3	9.78	14.1
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	SR4	17:38	Surface	1	1	24.9	7.74	21.2	7.17	9.74	13.9
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	SR4	17:38	Surface	1	2	24.9	7.81	21.3	7.1	9.68	13.8
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	SR4	17:38	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	SR4	17:38	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	SR4	17:38	Bottom	3	1	24.8	7.87	21.3	7.04	9.82	14.3
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	SR4	17:38	Bottom	3	2	24.8	7.84	21.4	7.09	9.87	14.3
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS8	17:53	Surface	1	1	24.9	7.87	21.2	7.23	9.62	13.7
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS8	17:53	Surface	1	2	24.8	7.9	21.3	7.16	9.55	13.6
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS8	17:53	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS8	17:53	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS8	17:53	Bottom	3	1	24.8	7.81	21.3	7.38	9.71	14
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS8	17:53	Bottom	3	2	24.8	7.79	21.3	7.31	9.75	14
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS(Mf)16	18:05	Surface	1	1	24.8	7.82	21.2	7.29	9.51	13.4
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS(Mf)16	18:05	Surface	1	2	24.8	7.8	21.2	7.35	9.47	13.4
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS(Mf)16	18:05	Middle	2	1	24.8	7.76	21.2	7.42	9.28	13.4
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS(Mf)16	18:05	Middle	2	2	24.7	7.79	21.3	7.49	9.35	13.6
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS(Mf)16	18:05	Bottom	3	1	24.7	7.75	21.4	7.56	9.64	14.1
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS(Mf)16	18:05	Bottom	3	2	24.7	7.78	21.4	7.6	9.68	14.1
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS(Mf)9	18:26	Surface	1	1	24.8	7.84	21.2	7.14	9.7	14
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS(Mf)9	18:26	Surface	1	2	24.8	7.82	21.2	7.19	9.65	13.8
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS(Mf)9	18:26	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS(Mf)9	18:26	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS(Mf)9	18:26	Bottom	3	1	24.7	7.87	21.3	7.34	9.89	14.3
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	IS(Mf)9	18:26	Bottom	3	2	24.8	7.89	21.3	7.28	9.96	14.5
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	CS(Mf)3(N)	18:52	Surface	1	1	24.7	7.81	21.2	7.04	9.93	14.1
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	CS(Mf)3(N)	18:52	Surface	1	2	24.8	7.77	21.1	7.09	9.87	14.1
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	CS(Mf)3(N)	18:52	Middle	2	1	24.7	7.84	21.2	7.18	9.72	14

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	2017-05-09	Mid-Flood	CS(Mf)3(N)	18:52	Middle	2	2	24.7	7.82	21.2	7.25	9.77	14.1
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	CS(Mf)3(N)	18:52	Bottom	3	1	24.7	7.8	21.3	7.41	10.1	14.7
TMCLKL	HY/2012/07	2017-05-09	Mid-Flood	CS(Mf)3(N)	18:52	Bottom	3	2	24.6	7.78	21.2	7.47	10.5	15.4
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	CS(Mf)5	13:39	Surface	1	1	25.1	7.67	21.5	7.14	10.4	15
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	CS(Mf)5	13:39	Surface	1	2	25.1	7.7	21.4	7.11	11.1	15.8
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	CS(Mf)5	13:39	Middle	2	1	25	7.73	21.6	7.2	9.77	14.2
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	CS(Mf)5	13:39	Middle	2	2	25	7.69	21.6	7.23	9.83	14.3
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	CS(Mf)5	13:39	Bottom	3	1	24.9	7.74	21.8	7.27	12.2	17.4
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	CS(Mf)5	13:39	Bottom	3	2	24.9	7.77	21.9	7.3	12.8	18.2
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	SR4a	13:15	Surface	1	1	25	7.69	21.3	7.03	9.55	13.4
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	SR4a	13:15	Surface	1	2	25.1	7.73	21.3	7.01	9.63	13.6
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	SR4a	13:15	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	SR4a	13:15	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	SR4a	13:15	Bottom	3	1	25	7.7	21.3	6.97	9.9	14.3
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	SR4a	13:15	Bottom	3	2	25	7.75	21.3	6.94	9.97	14.4
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	SR4	12:57	Surface	1	1	25	7.63	21.2	7.1	9.19	13.1
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	SR4	12:57	Surface	1	2	25.1	7.66	21.2	7.07	9.24	13.3
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	SR4	12:57	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	SR4	12:57	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	SR4	12:57	Bottom	3	1	25	7.68	21.2	7.14	9.43	13.7
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	SR4	12:57	Bottom	3	2	25	7.7	21.3	7.2	9.36	13.7
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS8	12:40	Surface	1	1	25	7.64	21.3	7.14	9.27	13.3
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS8	12:40	Surface	1	2	25	7.68	21.2	7.11	9.34	13.4
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS8	12:40	Middle	2	1						i
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS8	12:40	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS8	12:40	Bottom	3	1	25	7.69	21.3	7.19	9.55	13.8
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS8	12:40	Bottom	3	2	25	7.71	21.3	7.16	9.61	13.9
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS(Mf)16	12:17	Surface	1	1	25	7.67	21.2	7.07	9.95	14.3
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS(Mf)16	12:17	Surface	1	2	25	7.69	21.2	7.04	10.1	14.3
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS(Mf)16	12:17	Middle	2	1	25	7.73	21.2	7.09	8.66	12.6
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS(Mf)16	12:17	Middle	2	2	24.9	7.7	21.3	7.11	8.73	12.7
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS(Mf)16	12:17	Bottom	3	1	24.8	7.74	21.4	7.18	9.73	14
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS(Mf)16	12:17	Bottom	3	2	24.9	7.78	21.5	7.21	9.84	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	2017-05-09	Mid-Ebb	IS(Mf)9	11:58	Surface	1	1	25	7.73	21.4	6.97	11.6	16.9
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS(Mf)9	11:58	Surface	1	2	25	7.67	21.3	6.93	10.7	15.6
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS(Mf)9	11:58	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS(Mf)9	11:58	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS(Mf)9	11:58	Bottom	3	1	25	7.73	21.3	7.04	9.54	13.7
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	IS(Mf)9	11:58	Bottom	3	2	25	7.76	21.4	7.07	9.44	13.8
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	CS(Mf)3(N)	11:35	Surface	1	1	25	7.69	21.1	6.68	12.1	17.2
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	CS(Mf)3(N)	11:35	Surface	1	2	25.1	7.73	21.1	6.68	11.4	16.3
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	CS(Mf)3(N)	11:35	Middle	2	1	25	7.75	21.1	6.71	10.3	14.9
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	CS(Mf)3(N)	11:35	Middle	2	2	25	7.71	21.2	6.73	10.8	15.8
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	CS(Mf)3(N)	11:35	Bottom	3	1	25	7.78	21.4	6.9	9.64	14.2
TMCLKL	HY/2012/07	2017-05-09	Mid-Ebb	CS(Mf)3(N)	11:35	Bottom	3	2	24.9	7.8	21.4	6.87	9.52	14
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	CS(Mf)5	18:23	Surface	1	1	24.9	7.92	27.7	6.82	7.22	10.1
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	CS(Mf)5	18:23	Surface	1	2	24.8	7.94	27.8	6.83	7.27	10.5
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	CS(Mf)5	18:23	Middle	2	1	25	8.12	27.9	7.04	7.36	10.5
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	CS(Mf)5	18:23	Middle	2	2	25.1	8.16	27.8	7.07	7.29	10.5
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	CS(Mf)5	18:23	Bottom	3	1	25.2	8.08	28	7.19	7.48	10.8
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	CS(Mf)5	18:23	Bottom	3	2	25.1	8.05	27.9	7.23	7.41	10.8
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	SR4a	18:43	Surface	1	1	24.9	7.99	27.6	7.02	7.14	10.4
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	SR4a	18:43	Surface	1	2	24.9	7.96	27.7	7.04	7.19	10.5
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	SR4a	18:43	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	SR4a	18:43	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	SR4a	18:43	Bottom	3	1	25	8.05	27.8	6.74	7.33	10.6
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	SR4a	18:43	Bottom	3	2	24.9	8.04	27.7	6.78	7.39	10.6
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	SR4	18:56	Surface	1	1	24.8	7.93	27.6	6.7	7.48	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	SR4	18:56	Surface	1	2	24.7	7.96	27.5	6.74	7.42	10.6
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	SR4	18:56	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	SR4	18:56	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	SR4	18:56	Bottom	3	1	24.9	7.91	27.8	6.89	7.19	10.5
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	SR4	18:56	Bottom	3	2	24.8	7.9	27.7	6.92	7.24	10.5
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS8	19:09	Surface	1	1	25	8.16	27.7	6.95	7.3	10.4
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS8	19:09	Surface	1	2	24.9	8.18	27.6	6.99	7.22	10.3
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS8	19:09	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS8	19:09	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS8	19:09	Bottom	3	1	25.1	8.13	27.8	7.12	7.41	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS8	19:09	Bottom	3	2	25	8.09	27.7	7.15	7.35	10.6
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS(Mf)16	19:22	Surface	1	1	24.9	8.08	27.7	7.14	7.08	10
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS(Mf)16	19:22	Surface	1	2	24.8	8.07	27.7	7.1	7.01	10
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS(Mf)16	19:22	Middle	2	1	24.8	7.96	27.7	7.23	6.94	10
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS(Mf)16	19:22	Middle	2	2	24.8	7.98	27.8	7.2	6.89	10
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS(Mf)16	19:22	Bottom	3	1	25.1	8.14	27.9	6.84	7.24	10.6
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS(Mf)16	19:22	Bottom	3	2	25	8.17	28	6.87	7.32	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS(Mf)9	19:39	Surface	1	1	24.7	7.96	27.8	6.94	7.25	10.4
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS(Mf)9	19:39	Surface	1	2	24.8	7.92	27.7	6.9	7.18	10.3
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS(Mf)9	19:39	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS(Mf)9	19:39	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS(Mf)9	19:39	Bottom	3	1	24.9	8.12	27.9	7.22	7.02	10.2
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	IS(Mf)9	19:39	Bottom	3	2	24.8	8.11	28	7.24	7.09	10.4
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	CS(Mf)3(N)	10:01	Surface	1	1	24.6	7.84	27.7	6.84	7.02	10
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	CS(Mf)3(N)	10:01	Surface	1	2	24.6	7.89	27.6	6.81	7.07	10.1
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	CS(Mf)3(N)	10:01	Middle	2	1	24.7	8.03	27.7	6.92	7.14	10.3
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	CS(Mf)3(N)	10:01	Middle	2	2	24.6	8.06	27.7	6.9	7.21	10.4
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	CS(Mf)3(N)	10:01	Bottom	3	1	24.8	7.93	27.8	6.98	7.34	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Flood	CS(Mf)3(N)	10:01	Bottom	3	2	24.7	7.96	27.9	7.01	7.28	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	CS(Mf)5	14:50	Surface	1	1	24.8	7.88	27.5	6.68	7.25	10.4
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	CS(Mf)5	14:50	Surface	1	2	24.9	7.91	27.6	6.71	7.29	10.4
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	CS(Mf)5	14:50	Middle	2	1	24.9	8.04	27.7	6.93	7.36	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	CS(Mf)5	14:50	Middle	2	2	25	8.02	27.8	6.95	7.4	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	CS(Mf)5	14:50	Bottom	3	1	25.1	8.16	27.9	7.11	7.55	10.8
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	CS(Mf)5	14:50	Bottom	3	2	25	8.13	27.8	7.14	7.52	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	SR4a	14:30	Surface	1	1	24.8	8.13	27.4	6.84	7.3	102
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	SR4a	14:30	Surface	1	2	24.8	8.1	27.5	6.82	7.33	10.3
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	SR4a	14:30	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	SR4a	14:30	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	SR4a	14:30	Bottom	3	1	24.9	7.88	27.6	6.65	7.4	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	SR4a	14:30	Bottom	3	2	25	7.89	27.7	6.68	7.43	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	2017-05-11	Mid-Ebb	SR4	14:05	Surface	1	1	24.7	7.86	27.4	6.57	7.4	10.6
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	SR4	14:05	Surface	1	2	24.8	7.89	27.5	6.6	7.43	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	SR4	14:05	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	SR4	14:05	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	SR4	14:05	Bottom	3	1	24.9	7.92	27.6	6.71	7.51	10.9
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	SR4	14:05	Bottom	3	2	24.9	7.95	27.7	6.73	7.53	11
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS8	13:43	Surface	1	1	24.8	8.12	27.5	6.69	7.66	11
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS8	13:43	Surface	1	2	24.9	8.14	27.6	6.71	7.69	11
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS8	13:43	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS8	13:43	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS8	13:43	Bottom	3	1	25	7.93	27.7	6.82	7.75	11.2
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS8	13:43	Bottom	3	2	25.1	7.96	27.8	6.85	7.79	11.3
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS(Mf)16	13:20	Surface	1	1	24.7	7.93	27.4	6.39	7.18	10.3
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS(Mf)16	13:20	Surface	1	2	24.8	7.9	27.5	6.42	7.2	10.2
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS(Mf)16	13:20	Middle	2	1	24.9	8.15	27.6	6.56	7.36	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS(Mf)16	13:20	Middle	2	2	24.9	8.13	27.7	6.54	7.39	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS(Mf)16	13:20	Bottom	3	1	25	8.02	27.8	6.3	7.47	10.8
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS(Mf)16	13:20	Bottom	3	2	25.1	8.04	27.9	6.33	7.49	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS(Mf)9	13:00	Surface	1	1	24.6	7.91	27.6	6.73	7.43	10.8
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS(Mf)9	13:00	Surface	1	2	24.7	7.93	27.7	6.76	7.45	10.9
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS(Mf)9	13:00	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS(Mf)9	13:00	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS(Mf)9	13:00	Bottom	3	1	24.8	8.05	27.8	6.88	7.62	11
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	IS(Mf)9	13:00	Bottom	3	2	24.9	8.07	27.9	6.91	7.65	11.2
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	CS(Mf)3(N)	12:38	Surface	1	1	24.5	8.06	27.5	6.51	7.33	10.4
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	CS(Mf)3(N)	12:38	Surface	1	2	24.6	8.04	27.5	6.53	7.36	10.5
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	CS(Mf)3(N)	12:38	Middle	2	1	24.7	7.92	27.6	6.74	7.4	10.7
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	CS(Mf)3(N)	12:38	Middle	2	2	24.7	7.95	27.7	6.6	7.43	10.8
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	CS(Mf)3(N)	12:38	Bottom	3	1	24.8	7.83	27.8	6.69	7.55	11.1
TMCLKL	HY/2012/07	2017-05-11	Mid-Ebb	CS(Mf)3(N)	12:38	Bottom	3	2	24.9	7.86	27.9	6.67	7.58	11.1
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	CS(Mf)5	8:15	Surface	1	1	25.1	7.94	27.4	6.74	7.16	10
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	CS(Mf)5	8:15	Surface	1	2	25	7.97	27.5	6.77	7.2	10.4
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	CS(Mf)5	8:15	Middle	2	1	25	8.1	27.5	6.99	7.27	10.4

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	CS(Mf)5	8:15	Middle	2	2	24.9	8.08	27.6	7.01	7.31	10.5
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	CS(Mf)5	8:15	Bottom	3	1	25	8.14	27.8	7.17	7.46	10.8
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	CS(Mf)5	8:15	Bottom	3	2	24.9	8.15	27.7	7.2	7.43	10.8
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	SR4a	8:26	Surface	1	1	25.2	8.04	27.3	6.9	7.21	10.5
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	SR4a	8:26	Surface	1	2	25.1	8.01	27.4	6.88	7.24	10.6
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	SR4a	8:26	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	SR4a	8:26	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	SR4a	8:26	Bottom	3	1	25.2	8.11	27.5	6.71	7.31	10.6
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	SR4a	8:26	Bottom	3	2	25.2	8.08	27.4	6.74	7.34	10.6
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	SR4	8:37	Surface	1	1	25.4	7.92	27.4	6.63	7.31	10.5
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	SR4	8:37	Surface	1	2	25.3	7.95	27.3	6.66	7.34	10.5
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	SR4	8:37	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	SR4	8:37	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	SR4	8:37	Bottom	3	1	25.2	7.98	27.4	6.77	7.42	10.8
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	SR4	8:37	Bottom	3	2	25.3	8.01	27.5	6.79	7.44	10.8
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS8	8:48	Surface	1	1	25.4	8.18	27.5	6.75	7.57	10.7
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS8	8:48	Surface	1	2	25.5	8.2	27.4	6.77	7.6	10.8
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS8	8:48	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS8	8:48	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS8	8:48	Bottom	3	1	25.4	7.99	27.5	6.88	7.66	11
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS8	8:48	Bottom	3	2	25.4	8.02	27.6	6.91	7.7	11.1
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS(Mf)16	8:59	Surface	1	1	25.2	7.99	27.6	6.45	7.09	10
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS(Mf)16	8:59	Surface	1	2	25.3	7.96	27.5	6.48	7.11	10.1
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS(Mf)16	8:59	Middle	2	1	25.2	8.21	27.7	6.62	7.27	10.5
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS(Mf)16	8:59	Middle	2	2	25.1	8.19	27.8	6.6	7.3	10.6
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS(Mf)16	8:59	Bottom	3	1	25.1	8.08	27.9	6.36	7.38	10.8
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS(Mf)16	8:59	Bottom	3	2	25	8.1	27.8	6.39	7.4	10.8
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS(Mf)9	9:10	Surface	1	1	25.6	7.97	27.7	6.79	7.34	10.6
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS(Mf)9	9:10	Surface	1	2	25.5	7.99	27.8	6.82	7.36	10.5
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS(Mf)9	9:10	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS(Mf)9	9:10	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS(Mf)9	9:10	Bottom	3	1	25.5	8.11	27.8	6.94	7.53	10.9
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	IS(Mf)9	9:10	Bottom	3	2	25.6	8.13	27.9	6.97	7.56	11

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	CS(Mf)3(N)	9:21	Surface	1	1	25.8	8.06	27.6	6.57	7.24	10.3
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	CS(Mf)3(N)	9:21	Surface	1	2	25.7	8.1	27.7	6.59	7.27	10.4
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	CS(Mf)3(N)	9:21	Middle	2	1	25.6	7.98	27.8	6.8	7.31	10.5
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	CS(Mf)3(N)	9:21	Middle	2	2	25.7	8.01	27.7	6.82	7.34	10.6
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	CS(Mf)3(N)	9:21	Bottom	3	1	25.7	7.89	27.9	6.75	7.46	10.9
TMCLKL	HY/2012/07	2017-05-13	Mid-Flood	CS(Mf)3(N)	9:21	Bottom	3	2	25.6	7.92	29	6.73	7.49	11
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	CS(Mf)5	16:16	Surface	1	1	25.7	7.89	27.4	6.72	7.27	10.5
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	CS(Mf)5	16:16	Surface	1	2	25.7	7.92	27.5	6.67	7.36	10.5
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	CS(Mf)5	16:16	Middle	2	1	25.7	7.9	27.5	6.8	7.43	10.8
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	CS(Mf)5	16:16	Middle	2	2	25.6	7.94	27.5	6.83	7.48	10.8
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	CS(Mf)5	16:16	Bottom	3	1	25.6	7.97	27.6	6.91	7.53	10.8
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	CS(Mf)5	16:16	Bottom	3	2	25.4	8.01	27.7	6.95	7.6	10.8
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	SR4a	15:50	Surface	1	1	25.7	7.89	27.4	6.78	7.4	10.4
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	SR4a	15:50	Surface	1	2	25.6	7.94	27.4	6.74	7.46	10.5
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	SR4a	15:50	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	SR4a	15:50	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	SR4a	15:50	Bottom	3	1	25.6	7.99	27.5	6.6	7.7	11.1
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	SR4a	15:50	Bottom	3	2	25.6	8.01	27.4	6.57	7.78	11.2
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	SR4	15:34	Surface	1	1	25.7	7.87	27.7	6.44	7.83	11.2
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	SR4	15:34	Surface	1	2	25.8	7.9	27.7	6.47	7.76	11.2
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	SR4	15:34	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	SR4	15:34	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	SR4	15:34	Bottom	3	1	25.7	7.88	27.7	6.52	7.93	11.5
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	SR4	15:34	Bottom	3	2	25.7	7.92	27.8	6.55	7.99	11.7
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS8	15:20	Surface	1	1	25.7	7.84	27.7	6.58	7.7	11
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS8	15:20	Surface	1	2	25.7	7.88	27.7	6.55	7.64	10.9
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS8	15:20	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS8	15:20	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS8	15:20	Bottom	3	1	25.7	7.8	27.7	6.63	7.89	11.4
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS8	15:20	Bottom	3	2	25.6	7.83	27.7	6.67	7.94	11.5
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS(Mf)16	15:00	Surface	1	1	25.7	7.87	27.6	6.34	7.36	10.6
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS(Mf)16	15:00	Surface	1	2	25.8	7.9	27.7	6.3	7.43	10.6
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS(Mf)16	15:00	Middle	2	1	25.7	7.84	27.7	6.41	7.2	10.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS(Mf)16	15:00	Middle	2	2	25.7	7.88	27.7	6.43	7.13	10.3
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS(Mf)16	15:00	Bottom	3	1	25.6	7.83	27.8	6.18	7.58	10.9
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS(Mf)16	15:00	Bottom	3	2	25.5	7.86	27.9	6.2	7.66	11
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS(Mf)9	14:42	Surface	1	1	25.8	7.93	27.6	6.64	7.53	11
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS(Mf)9	14:42	Surface	1	2	25.8	7.89	27.7	6.61	7.47	10.9
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS(Mf)9	14:42	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS(Mf)9	14:42	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS(Mf)9	14:42	Bottom	3	1	25.8	7.86	27.7	6.8	7.68	11.1
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	IS(Mf)9	14:42	Bottom	3	2	25.7	7.88	27.7	6.76	7.75	11.3
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	CS(Mf)3(N)	14:19	Surface	1	1	25.8	7.96	27.7	6.48	7.59	10.8
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	CS(Mf)3(N)	14:19	Surface	1	2	25.8	7.99	27.7	6.45	7.63	10.9
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	CS(Mf)3(N)	14:19	Middle	2	1	25.7	7.94	27.7	6.67	7.77	11.3
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	CS(Mf)3(N)	14:19	Middle	2	2	25.7	7.9	27.8	6.64	7.7	11.2
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	CS(Mf)3(N)	14:19	Bottom	3	1	25.7	7.93	27.9	6.59	7.88	11.6
TMCLKL	HY/2012/07	2017-05-13	Mid-Ebb	CS(Mf)3(N)	14:19	Bottom	3	2	25.6	7.97	27.9	6.56	7.79	11.5
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	CS(Mf)5	8:31	Surface	1	1	25.2	7.85	27.1	6.8	7.07	9.9
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	CS(Mf)5	8:31	Surface	1	2	25.1	7.88	27.2	6.83	7.11	10.2
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	CS(Mf)5	8:31	Middle	2	1	25	8.01	27.3	7.05	7.18	10.3
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	CS(Mf)5	8:31	Middle	2	2	25.1	7.99	27.2	7.07	7.22	10.4
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	CS(Mf)5	8:31	Bottom	3	1	25	8.05	27.4	7.23	7.37	10.7
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	CS(Mf)5	8:31	Bottom	3	2	24.9	8.06	27.5	7.26	7.34	10.7
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	SR4a	8:53	Surface	1	1	25.3	7.95	26.9	6.96	7.12	10.3
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	SR4a	8:53	Surface	1	2	25.3	7.92	27	6.94	7.15	10.4
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	SR4a	8:53	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	SR4a	8:53	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	SR4a	8:53	Bottom	3	1	25.2	8.02	27	6.77	7.22	10.5
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	SR4a	8:53	Bottom	3	2	25.1	7.99	27.1	6.8	7.25	10.4
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	SR4	9:15	Surface	1	1	25.4	7.83	26.8	6.69	7.22	10.3
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	SR4	9:15	Surface	1	2	25.5	7.86	26.7	6.72	7.25	10.4
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	SR4	9:15	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	SR4	9:15	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	SR4	9:15	Bottom	3	1	25.4	7.89	26.8	6.83	7.33	10.7
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	SR4	9:15	Bottom	3	2	25.3	7.92	26.9	6.85	7.35	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	2017-05-16	Mid-Flood	IS8	9:37	Surface	1	1	25.4	8.09	26.7	6.81	7.48	10.6
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS8	9:37	Surface	1	2	25.3	8.11	26.6	6.83	7.51	10.7
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS8	9:37	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS8	9:37	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS8	9:37	Bottom	3	1	25.3	7.9	26.7	6.94	7.57	10.9
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS8	9:37	Bottom	3	2	25.4	7.93	26.8	6.97	7.61	11
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS(Mf)16	9:59	Surface	1	1	25.6	7.9	26.8	6.51	7	9.9
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS(Mf)16	9:59	Surface	1	2	25.5	7.87	26.9	6.54	7.02	10
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS(Mf)16	9:59	Middle	2	1	25.4	8.12	26.9	6.68	7.18	10.3
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS(Mf)16	9:59	Middle	2	2	25.5	8.1	27	6.66	7.21	10.5
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS(Mf)16	9:59	Bottom	3	1	25.4	7.99	27.1	6.42	7.29	10.6
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS(Mf)16	9:59	Bottom	3	2	25.3	8.01	27	6.45	7.31	10.7
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS(Mf)9	10:21	Surface	1	1	25.6	7.88	26.7	6.85	7.25	10.4
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS(Mf)9	10:21	Surface	1	2	25.7	7.9	26.8	6.88	7.27	10.4
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS(Mf)9	10:21	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS(Mf)9	10:21	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS(Mf)9	10:21	Bottom	3	1	25.5	8.02	26.9	7	7.44	10.8
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	IS(Mf)9	10:21	Bottom	3	2	25.6	8.04	26.8	7.03	7.47	10.9
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	CS(Mf)3(N)	10:45	Surface	1	1	25.8	7.97	26.6	6.63	7.15	10.2
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	CS(Mf)3(N)	10:45	Surface	1	2	25.7	8.01	26.7	6.65	7.18	10.3
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	CS(Mf)3(N)	10:45	Middle	2	1	25.6	7.89	26.8	6.86	7.22	10.4
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	CS(Mf)3(N)	10:45	Middle	2	2	25.7	7.92	26.9	6.88	7.25	10.4
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	CS(Mf)3(N)	10:45	Bottom	3	1	25.4	7.8	26.9	6.81	7.37	10.8
TMCLKL	HY/2012/07	2017-05-16	Mid-Flood	CS(Mf)3(N)	10:45	Bottom	3	2	25.5	7.83	27	6.79	7.4	10.9
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	CS(Mf)5	16:40	Surface	1	1	25.3	7.94	26.9	6.66	7.22	10.4
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	CS(Mf)5	16:40	Surface	1	2	25.2	7.96	27	6.69	7.26	10.3
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	CS(Mf)5	16:40	Middle	2	1	25.2	7.73	27	7.03	7.31	10.6
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	CS(Mf)5	16:40	Middle	2	2	25.2	7.77	27.1	7	7.35	10.7
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	CS(Mf)5	16:40	Bottom	3	1	25.3	7.84	27.2	7.11	7.45	10.7
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	CS(Mf)5	16:40	Bottom	3	2	25.2	7.89	27.3	7.15	7.47	10.6
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	SR4a	16:20	Surface	1	1	25.3	7.7	26.8	6.83	7.25	10.2
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	SR4a	16:20	Surface	1	2	25.3	7.74	26.9	6.8	7.28	10.3
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	SR4a	16:20	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	SR4a	16:20	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	SR4a	16:20	Bottom	3	1	25.3	7.89	27.1	6.71	7.36	10.6
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	SR4a	16:20	Bottom	3	2	25.1	7.93	27.2	6.75	7.39	10.6
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	SR4	16:00	Surface	1	1	25.4	7.74	26.7	6.55	7.33	10.5
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	SR4	16:00	Surface	1	2	25.5	7.79	26.7	6.58	7.38	10.6
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	SR4	16:00	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	SR4	16:00	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	SR4	16:00	Bottom	3	1	25.4	7.95	26.8	6.73	7.46	10.8
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	SR4	16:00	Bottom	3	2	25.3	7.99	26.9	6.71	7.49	10.9
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS8	15:40	Surface	1	1	25.5	7.94	26.7	6.65	7.57	10.8
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS8	15:40	Surface	1	2	25.5	7.96	26.8	6.69	7.59	10.9
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS8	15:40	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS8	15:40	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS8	15:40	Bottom	3	1	25.4	7.75	26.7	6.71	7.62	11
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS8	15:40	Bottom	3	2	25.5	7.78	26.7	6.75	7.66	11.1
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS(Mf)16	15:18	Surface	1	1	25.6	7.81	26.7	6.33	7.08	10.2
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS(Mf)16	15:18	Surface	1	2	25.5	7.88	26.7	6.37	7.11	10.1
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS(Mf)16	15:18	Middle	2	1	25.4	7.82	26.7	6.41	7.28	10.6
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS(Mf)16	15:18	Middle	2	2	25.3	7.95	26.8	6.44	7.31	10.6
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS(Mf)16	15:18	Bottom	3	1	25.2	7.83	26.9	6.31	7.39	10.6
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS(Mf)16	15:18	Bottom	3	2	25.3	7.88	27	6.36	7.35	10.5
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS(Mf)9	14:54	Surface	1	1	25.7	7.92	26.6	6.7	7.35	10.7
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS(Mf)9	14:54	Surface	1	2	25.6	7.96	26.7	6.74	7.38	10.8
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS(Mf)9	14:54	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS(Mf)9	14:54	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS(Mf)9	14:54	Bottom	3	1	25.6	7.87	26.8	6.84	7.52	10.8
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	IS(Mf)9	14:54	Bottom	3	2	25.6	7.82	26.9	6.89	7.55	11
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	CS(Mf)3(N)	14:31	Surface	1	1	25.8	7.87	26.5	6.52	7.25	10.3
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	CS(Mf)3(N)	14:31	Surface	1	2	25.8	7.9	26.5	6.56	7.28	10.4
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	CS(Mf)3(N)	14:31	Middle	2	1	25.8	7.74	26.6	6.73	7.34	10.6
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	CS(Mf)3(N)	14:31	Middle	2	2	25.7	7.78	26.7	6.79	7.38	10.8
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	CS(Mf)3(N)	14:31	Bottom	3	1	25.6	7.93	26.8	6.71	7.45	11
TMCLKL	HY/2012/07	2017-05-16	Mid-Ebb	CS(Mf)3(N)	14:31	Bottom	3	2	25.6	7.96	26.8	6.74	7.48	11

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	CS(Mf)5	10:00	Surface	1	1	24.9	7.84	27.2	6.54	7.4	10.4
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	CS(Mf)5	10:00	Surface	1	2	25	7.79	27.3	6.57	7.48	10.8
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	CS(Mf)5	10:00	Middle	2	1	25	7.8	27.3	6.63	7.66	11
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	CS(Mf)5	10:00	Middle	2	2	25	7.83	27.4	6.66	7.71	11.1
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	CS(Mf)5	10:00	Bottom	3	1	25	7.81	27.6	6.81	7.83	11.4
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	CS(Mf)5	10:00	Bottom	3	2	24.9	7.77	27.7	6.84	7.79	11.4
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	SR4a	10:25	Surface	1	1	25	7.79	27.3	6.7	7.61	11
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	SR4a	10:25	Surface	1	2	25	7.81	27.3	6.74	7.73	11.3
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	SR4a	10:25	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	SR4a	10:25	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	SR4a	10:25	Bottom	3	1	25	7.86	27.3	6.81	7.49	10.9
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	SR4a	10:25	Bottom	3	2	25	7.8	27.4	6.83	7.55	10.9
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	SR4	10:42	Surface	1	1	25	7.74	27.3	6.64	7.5	10.7
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	SR4	10:42	Surface	1	2	25	7.78	27.3	6.6	7.58	10.8
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	SR4	10:42	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	SR4	10:42	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	SR4	10:42	Bottom	3	1	25	7.78	27.3	6.68	7.67	11.2
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	SR4	10:42	Bottom	3	2	25	7.76	27.4	6.71	7.72	11.2
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS8	10:59	Surface	1	1	25	7.78	27.3	6.58	7.69	10.9
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS8	10:59	Surface	1	2	25.1	7.82	27.4	6.61	7.72	11
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS8	10:59	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS8	10:59	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS8	10:59	Bottom	3	1	25	7.76	27.4	6.68	7.88	11.3
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS8	10:59	Bottom	3	2	25	7.81	27.4	6.7	7.93	11.4
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS(Mf)16	11:18	Surface	1	1	25.1	7.84	27.4	6.37	7.79	11
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS(Mf)16	11:18	Surface	1	2	25.1	7.8	27.5	6.35	7.84	11.1
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS(Mf)16	11:18	Middle	2	1	25	7.77	27.5	6.41	7.63	11
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS(Mf)16	11:18	Middle	2	2	25	7.8	27.5	6.44	7.59	11
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS(Mf)16	11:18	Bottom	3	1	24.9	7.76	27.6	6.31	7.97	11.6
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS(Mf)16	11:18	Bottom	3	2	24.9	7.79	27.7	6.28	8.02	11.7
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS(Mf)9	11:40	Surface	1	1	25.1	7.83	27.4	6.65	7.53	10.8
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS(Mf)9	11:40	Surface	1	2	25.1	7.79	27.4	6.62	7.61	10.9
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS(Mf)9	11:40	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS(Mf)9	11:40	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS(Mf)9	11:40	Bottom	3	1	25.1	7.93	27.4	6.7	7.8	11.3
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	IS(Mf)9	11:40	Bottom	3	2	25.1	7.96	27.5	6.74	7.88	11.5
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	CS(Mf)3(N)	12:00	Surface	1	1	25.1	7.84	27.4	6.53	7.44	10.6
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	CS(Mf)3(N)	12:00	Surface	1	2	25.1	7.88	27.4	6.49	7.39	10.6
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	CS(Mf)3(N)	12:00	Middle	2	1	25	7.79	27.4	6.61	7.68	11.1
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	CS(Mf)3(N)	12:00	Middle	2	2	25	7.81	27.5	6.64	7.74	11.1
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	CS(Mf)3(N)	12:00	Bottom	3	1	25	7.76	27.6	6.78	7.93	11.6
TMCLKL	HY/2012/07	2017-05-18	Mid-Flood	CS(Mf)3(N)	12:00	Bottom	3	2	24.9	7.8	27.7	6.8	7.86	11.6
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	CS(Mf)5	18:12	Surface	1	1	25.1	7.81	27.2	6.49	7.51	10.8
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	CS(Mf)5	18:12	Surface	1	2	25	7.84	27.2	6.47	7.58	10.8
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	CS(Mf)5	18:12	Middle	2	1	25	7.79	27.3	6.55	7.77	11.3
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	CS(Mf)5	18:12	Middle	2	2	25	7.81	27.2	6.58	7.81	11.3
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	CS(Mf)5	18:12	Bottom	3	1	24.9	7.86	27.5	6.75	7.92	11.3
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	CS(Mf)5	18:12	Bottom	3	2	25	7.82	27.6	6.73	7.89	11.2
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	SR4a	17:45	Surface	1	1	25.1	7.81	27.3	6.65	7.6	10.6
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	SR4a	17:45	Surface	1	2	25.1	7.83	27.2	6.62	7.67	10.8
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	SR4a	17:45	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	SR4a	17:45	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	SR4a	17:45	Bottom	3	1	25	7.85	27.4	6.72	7.73	11.1
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	SR4a	17:45	Bottom	3	2	25.1	7.81	27.4	6.74	7.79	11.2
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	SR4	17:29	Surface	1	1	25.2	7.75	27.3	6.55	7.69	11
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	SR4	17:29	Surface	1	2	25.1	7.78	27.2	6.51	7.62	11
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	SR4	17:29	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	SR4	17:29	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	SR4	17:29	Bottom	3	1	25.1	7.79	27.3	6.6	7.78	11.3
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	SR4	17:29	Bottom	3	2	25.1	7.78	27.3	6.62	7.84	11.4
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS8	17:14	Surface	1	1	25.2	7.82	27.3	6.61	7.79	11.1
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS8	17:14	Surface	1	2	25.2	7.78	27.3	6.59	7.83	11.2
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS8	17:14	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS8	17:14	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS8	17:14	Bottom	3	1	25.1	7.78	27.3	6.52	8.04	11.7
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS8	17:14	Bottom	3	2	25	7.81	27.4	6.49	7.99	11.6

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	2017-05-18	Mid-Ebb	IS(Mf)16	16:54	Surface	1	1	25.1	7.78	27.4	6.29	7.71	11.1
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS(Mf)16	16:54	Surface	1	2	25.2	7.79	27.3	6.26	7.74	11
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS(Mf)16	16:54	Middle	2	1	25.1	7.76	27.4	6.21	7.9	11.5
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS(Mf)16	16:54	Middle	2	2	25	7.81	27.4	6.23	7.94	11.5
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS(Mf)16	16:54	Bottom	3	1	24.8	7.83	27.6	6.36	8.11	11.7
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS(Mf)16	16:54	Bottom	3	2	24.9	7.8	27.5	6.33	8.06	11.5
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS(Mf)9	16:35	Surface	1	1	25.1	7.81	27.3	6.57	7.64	11.2
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS(Mf)9	16:35	Surface	1	2	25.2	7.78	27.3	6.54	7.69	11.2
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS(Mf)9	16:35	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS(Mf)9	16:35	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS(Mf)9	16:35	Bottom	3	1	25.1	7.95	27.4	6.61	7.92	11.4
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	IS(Mf)9	16:35	Bottom	3	2	25	7.92	27.3	6.64	7.98	11.7
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	CS(Mf)3(N)	16:12	Surface	1	1	25.2	7.86	27.3	6.43	7.49	10.6
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	CS(Mf)3(N)	16:12	Surface	1	2	25.1	7.83	27.4	6.41	7.54	10.8
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	CS(Mf)3(N)	16:12	Middle	2	1	25.1	7.75	27.4	6.72	7.85	11.4
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	CS(Mf)3(N)	16:12	Middle	2	2	25.1	7.8	27.4	6.69	7.8	11.4
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	CS(Mf)3(N)	16:12	Bottom	3	1	24.9	7.8	27.6	6.56	8.02	11.8
TMCLKL	HY/2012/07	2017-05-18	Mid-Ebb	CS(Mf)3(N)	16:12	Bottom	3	2	25	7.76	27.6	6.53	7.97	11.7
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	CS(Mf)5	12:15	Surface	1	1	25.3	7.76	27	6.59	7.4	10.4
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	CS(Mf)5	12:15	Surface	1	2	25.4	7.8	27	6.62	7.47	10.8
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	CS(Mf)5	12:15	Middle	2	1	25.4	7.77	27.1	6.71	7.6	10.9
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	CS(Mf)5	12:15	Middle	2	2	25.4	7.72	27.2	6.73	7.66	11
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	CS(Mf)5	12:15	Bottom	3	1	25.3	7.74	27.3	6.84	7.19	10.4
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	CS(Mf)5	12:15	Bottom	3	2	25.3	7.8	27.4	6.86	7.24	10.6
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	SR4a	12:40	Surface	1	1	25.3	7.89	27.2	6.73	7.24	10.5
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	SR4a	12:40	Surface	1	2	25.3	7.91	27.1	6.69	7.19	10.5
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	SR4a	12:40	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	SR4a	12:40	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	SR4a	12:40	Bottom	3	1	25.3	7.84	27.2	6.84	7.33	10.6
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	SR4a	12:40	Bottom	3	2	25.3	7.9	27.2	6.87	7.41	10.7
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	SR4	12:58	Surface	1	1	25.3	7.96	27.2	6.58	7.48	10.7
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	SR4	12:58	Surface	1	2	25.3	7.99	27.1	6.61	7.55	10.8
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	SR4	12:58	Middle	2	1]

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	SR4	12:58	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	SR4	12:58	Bottom	3	1	25.3	7.88	27.2	6.54	7.72	11.3
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	SR4	12:58	Bottom	3	2	25.2	7.93	27.2	6.5	7.8	11.3
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS8	13:15	Surface	1	1	25.3	7.88	27.2	6.68	7.5	10.7
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS8	13:15	Surface	1	2	25.4	7.94	27.2	6.64	7.58	10.8
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS8	13:15	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS8	13:15	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS8	13:15	Bottom	3	1	25.3	7.9	27.2	6.71	7.81	11.2
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS8	13:15	Bottom	3	2	25.3	7.96	27.2	6.73	7.88	11.3
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS(Mf)16	13:32	Surface	1	1	25.3	7.9	27.1	6.76	7.27	10.3
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS(Mf)16	13:32	Surface	1	2	25.4	7.96	27.2	6.73	7.33	10.4
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS(Mf)16	13:32	Middle	2	1	25.4	7.99	27.2	6.82	7.49	10.8
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS(Mf)16	13:32	Middle	2	2	25.4	8.03	27.2	6.85	7.54	10.9
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS(Mf)16	13:32	Bottom	3	1	25.3	7.94	27.3	6.94	7.96	11.6
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS(Mf)16	13:32	Bottom	3	2	25.3	7.92	27.3	6.91	7.89	11.5
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS(Mf)9	13:55	Surface	1	1	25.3	7.94	27.2	6.59	7.63	11
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS(Mf)9	13:55	Surface	1	2	25.4	7.99	27.3	6.61	7.54	10.8
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS(Mf)9	13:55	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS(Mf)9	13:55	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS(Mf)9	13:55	Bottom	3	1	25.3	7.99	27.3	6.8	7.71	11.2
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	IS(Mf)9	13:55	Bottom	3	2	25.3	8.03	27.4	6.77	7.77	11.3
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	CS(Mf)3(N)	14:15	Surface	1	1	25.3	7.86	27.3	6.76	7.34	10.4
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	CS(Mf)3(N)	14:15	Surface	1	2	25.3	7.83	27.4	6.72	7.41	10.6
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	CS(Mf)3(N)	14:15	Middle	2	1	25.3	7.93	27.4	6.83	7.5	10.8
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	CS(Mf)3(N)	14:15	Middle	2	2	25.3	7.97	27.4	6.85	7.58	10.9
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	CS(Mf)3(N)	14:15	Bottom	3	1	25.3	7.89	27.4	6.89	7.84	11.4
TMCLKL	HY/2012/07	2017-05-20	Mid-Flood	CS(Mf)3(N)	14:15	Bottom	3	2	25.2	7.92	27.5	6.9	7.92	11.6
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	CS(Mf)5	10:33	Surface	1	1	25.1	7.88	26.5	6.76	7.25	10.4
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	CS(Mf)5	10:33	Surface	1	2	25.2	7.91	27	6.79	7.28	10.3
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	CS(Mf)5	10:33	Middle	2	1	25.2	8.06	27.1	6.85	7.34	10.6
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	CS(Mf)5	10:33	Middle	2	2	25.2	8.09	27.2	6.88	7.31	10.6
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	CS(Mf)5	10:33	Bottom	3	1	25.3	8.12	27.3	6.94	7.06	10.1
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	CS(Mf)5	10:33	Bottom	3	2	25.2	8.1	27.4	6.97	7.09	10.1

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	2017-05-20	Mid-Ebb	SR4a	10:13	Surface	1	1	25.2	8.04	27.1	6.85	6.94	9.7
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	SR4a	10:13	Surface	1	2	25.1	8.07	27.2	6.88	6.97	9.8
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	SR4a	10:13	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	SR4a	10:13	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	SR4a	10:13	Bottom	3	1	25.3	8.11	27.3	7	7.15	10.3
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	SR4a	10:13	Bottom	3	2	25.2	8.13	27.3	7.03	7.18	10.3
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	SR4	9:45	Surface	1	1	25.1	8.13	27.1	6.6	7.34	10.5
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	SR4	9:45	Surface	1	2	25.1	8.1	27.2	6.63	7.37	10.6
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	SR4	9:45	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	SR4	9:45	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	SR4	9:45	Bottom	3	1	25.2	7.97	27.2	6.76	7.4	10.7
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	SR4	9:45	Bottom	3	2	25.3	7.99	27.2	6.79	7.44	10.9
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS8	9:24	Surface	1	1	25.2	7.97	27.2	6.76	7.21	10.3
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS8	9:24	Surface	1	2	25.3	7.96	27.1	6.79	7.23	10.3
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS8	9:24	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS8	9:24	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS8	9:24	Bottom	3	1	25.1	7.84	27.3	6.82	7.4	10.7
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS8	9:24	Bottom	3	2	25.2	7.86	27.3	6.84	7.43	10.8
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS(Mf)16	9:05	Surface	1	1	25.2	8.14	27.1	6.88	6.99	10.1
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS(Mf)16	9:05	Surface	1	2	25.2	8.17	27	6.91	7.01	10
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS(Mf)16	9:05	Middle	2	1	25.1	8.2	27.2	7.04	7.13	10.4
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS(Mf)16	9:05	Middle	2	2	25.2	8.18	27.3	7.07	7.16	10.4
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS(Mf)16	9:05	Bottom	3	1	25.3	7.93	27.2	6.94	7.04	10.1
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS(Mf)16	9:05	Bottom	3	2	25.2	7.95	27.2	6.92	7.07	10.1
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS(Mf)9	8:43	Surface	1	1	25	8.04	27.1	6.7	7.3	10.7
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS(Mf)9	8:43	Surface	1	2	25.1	8.07	27.2	6.73	7.33	10.7
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS(Mf)9	8:43	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS(Mf)9	8:43	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS(Mf)9	8:43	Bottom	3	1	25.2	8.11	27.3	6.94	7.4	10.7
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	IS(Mf)9	8:43	Bottom	3	2	25.1	8.13	27.3	6.92	7.43	10.8
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	CS(Mf)3(N)	8:21	Surface	1	1	25.1	7.93	27.2	6.8	7.13	10.1
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	CS(Mf)3(N)	8:21	Surface	1	2	25.1	7.9	27.3	6.83	7.15	10.2
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	CS(Mf)3(N)	8:21	Middle	2	1	25	8.13	27.3	6.94	7.22	10.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	CS(Mf)3(N)	8:21	Middle	2	2	25.1	8.15	27.3	6.97	7.25	10.6
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	CS(Mf)3(N)	8:21	Bottom	3	1	25.2	7.88	27.4	7	7.3	10.7
TMCLKL	HY/2012/07	2017-05-20	Mid-Ebb	CS(Mf)3(N)	8:21	Bottom	3	2	25.2	7.9	27.4	7.03	7.34	10.8
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	CS(Mf)5	15:34	Surface	1	1	25.4	7.85	27.1	6.64	7.2	10.1
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	CS(Mf)5	15:34	Surface	1	2	25.3	7.89	27.2	6.68	7.24	10.4
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	CS(Mf)5	15:34	Middle	2	1	25.3	7.75	27.3	6.72	7.31	10.5
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	CS(Mf)5	15:34	Middle	2	2	25.3	7.73	27.4	6.75	7.35	10.6
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	CS(Mf)5	15:34	Bottom	3	1	25.2	7.91	27.5	6.85	7.04	10.2
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	CS(Mf)5	15:34	Bottom	3	2	25.1	7.96	27.5	6.83	7.09	10.4
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	SR4a	16:00	Surface	1	1	25.4	7.73	27.2	6.74	7.02	10.2
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	SR4a	16:00	Surface	1	2	25.4	7.76	27.3	6.76	7.06	10.3
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	SR4a	16:00	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	SR4a	16:00	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	SR4a	16:00	Bottom	3	1	25.4	7.81	27.3	6.82	7.11	10.3
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	SR4a	16:00	Bottom	3	2	25.3	7.88	27.4	6.87	7.15	10.3
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	SR4	16:22	Surface	1	1	25.4	7.91	27.1	6.55	7.14	10.2
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	SR4	16:22	Surface	1	2	25.3	7.94	27.2	6.58	7.18	10.3
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	SR4	16:22	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	SR4	16:22	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	SR4	16:22	Bottom	3	1	25.4	7.85	27.3	6.51	7.53	11
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	SR4	16:22	Bottom	3	2	25.3	7.89	27.4	6.57	7.57	11
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS8	16:44	Surface	1	1	25.4	7.77	27	6.64	7.32	10.4
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS8	16:44	Surface	1	2	25.3	7.72	27.1	6.67	7.36	10.5
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS8	16:44	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS8	16:44	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS8	16:44	Bottom	3	1	25.3	7.83	27.2	6.75	7.67	11
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS8	16:44	Bottom	3	2	25.2	7.85	27.3	6.79	7.63	11
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS(Mf)16	17:16	Surface	1	1	25.3	7.94	27.1	6.78	7.04	9.9
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS(Mf)16	17:16	Surface	1	2	25.3	7.99	27.2	6.75	7.07	10
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS(Mf)16	17:16	Middle	2	1	25.2	7.86	27.3	6.84	7.5	10.3
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS(Mf)16	17:16	Middle	2	2	25.1	7.89	27.4	6.86	7.44	10.4
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS(Mf)16	17:16	Bottom	3	1	25	7.76	27.5	6.95	7.73	11
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS(Mf)16	17:16	Bottom	3	2	25	7.79	27.4	6.97	7.7	11.1

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	2017-05-23	Mid-Flood	IS(Mf)9	17:42	Surface	1	1	25.3	7.94	27.1	6.64	7.41	10.5
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS(Mf)9	17:42	Surface	1	2	25.3	7.97	27.2	6.67	7.44	10.5
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS(Mf)9	17:42	Middle	2	1						<u> </u>
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS(Mf)9	17:42	Middle	2	2						i
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS(Mf)9	17:42	Bottom	3	1	25.2	7.75	27.3	6.87	7.56	11.1
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	IS(Mf)9	17:42	Bottom	3	2	25.1	7.79	27.4	6.89	7.58	11.1
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	CS(Mf)3(N)	18:14	Surface	1	1	25.3	7.71	27	6.75	7.05	10
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	CS(Mf)3(N)	18:14	Surface	1	2	25.2	7.74	27.1	6.79	7.09	10.1
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	CS(Mf)3(N)	18:14	Middle	2	1	25.2	7.96	27.2	6.82	7.2	10.8
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	CS(Mf)3(N)	18:14	Middle	2	2	25.1	7.93	27.3	6.88	7.24	10.7
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	CS(Mf)3(N)	18:14	Bottom	3	1	25.1	7.84	27.3	6.95	7.56	11.3
TMCLKL	HY/2012/07	2017-05-23	Mid-Flood	CS(Mf)3(N)	18:14	Bottom	3	2	25	7.89	27.4	6.99	7.59	11.3
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	CS(Mf)5	12:30	Surface	1	1	25.4	7.82	27.2	6.5	7.31	10.7
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	CS(Mf)5	12:30	Surface	1	2	25.3	7.86	27.1	6.53	7.38	10.6
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	CS(Mf)5	12:30	Middle	2	1	25.3	7.83	27.3	6.62	7.51	11
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	CS(Mf)5	12:30	Middle	2	2	25.2	7.78	27.4	6.64	7.57	11
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	CS(Mf)5	12:30	Bottom	3	1	25.1	7.8	27.4	6.75	7.1	10.1
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	CS(Mf)5	12:30	Bottom	3	2	25.2	7.86	27.5	6.77	7.15	10.1
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	SR4a	11:58	Surface	1	1	25.2	7.8	27.2	6.64	7.15	10.1
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	SR4a	11:58	Surface	1	2	25.3	7.82	27.3	6.6	7.1	10.2
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	SR4a	11:58	Middle	2	1						<u>i </u>
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	SR4a	11:58	Middle	2	2						<u>i </u>
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	SR4a	11:58	Bottom	3	1	25.2	7.75	27.3	6.75	7.24	10.9
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	SR4a	11:58	Bottom	3	2	25.1	7.81	27.4	6.78	7.32	10.9
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	SR4	11:28	Surface	1	1	25.2	7.87	27.1	6.49	7.39	10.5
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	SR4	11:28	Surface	1	2	25.1	7.9	27.2	6.52	7.46	10.6
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	SR4	11:28	Middle	2	1						<u>i</u>
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	SR4	11:28	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	SR4	11:28	Bottom	3	1	25.1	7.79	27.2	6.45	7.63	10.9
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	SR4	11:28	Bottom	3	2	25.2	7.84	27.3	6.41	7.71	11.1
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS8	10:58	Surface	1	1	25.1	7.79	27	6.59	7.41	10.2
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS8	10:58	Surface	1	2	25	7.85	27.1	6.55	7.49	10.2
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS8	10:58	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS8	10:58	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS8	10:58	Bottom	3	1	24.9	7.81	27.1	6.62	7.72	10.4
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS8	10:58	Bottom	3	2	25	7.87	27.2	6.64	7.79	10.3
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS(Mf)16	10:28	Surface	1	1	25.2	7.81	27.1	6.67	7.18	10.4
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS(Mf)16	10:28	Surface	1	2	25.2	7.87	27.2	6.64	7.24	10.4
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS(Mf)16	10:28	Middle	2	1	25	7.9	27.2	6.73	7.4	10.8
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS(Mf)16	10:28	Middle	2	2	25.1	7.94	27.3	6.76	7.45	10.8
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS(Mf)16	10:28	Bottom	3	1	25.1	7.85	27.4	6.85	7.87	11
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS(Mf)16	10:28	Bottom	3	2	25	7.83	27.3	6.82	7.8	11
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS(Mf)9	9:58	Surface	1	1	25.2	7.85	27.1	6.5	7.69	10.8
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS(Mf)9	9:58	Surface	1	2	25.1	7.9	27	6.52	7.6	10.9
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS(Mf)9	9:58	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS(Mf)9	9:58	Middle	2	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	2017-05-23	Mid-Ebb	IS(Mf)9	9:58	Bottom	3	1	25	7.9	27.1	6.71	7.77	11.1
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	IS(Mf)9	9:58	Bottom	3	2	25.1	7.94	27.2	6.68	7.83	11.4
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	CS(Mf)3(N)	9:28	Surface	1	1	25	7.77	27.1	6.67	7.25	10.2
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	CS(Mf)3(N)	9:28	Surface	1	2	25.1	7.74	27.2	6.63	7.32	10.4
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	CS(Mf)3(N)	9:28	Middle	2	1	24.9	7.84	27.3	6.74	7.41	10.7
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	CS(Mf)3(N)	9:28	Middle	2	2	25	7.88	27.2	6.76	7.49	10.9
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	CS(Mf)3(N)	9:28	Bottom	3	1	25	7.8	27.4	6.8	7.75	11.6
TMCLKL	HY/2012/07	2017-05-23	Mid-Ebb	CS(Mf)3(N)	9:28	Bottom	3	2	24.9	7.83	27.5	6.82	7.83	11.5
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	CS(Mf)5	17:27	Surface	1	1	25.6	7.75	27.3	6.58	7.81	10.9
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	CS(Mf)5	17:27	Surface	1	2	25.5	7.79	27.2	6.61	7.87	11.3
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	CS(Mf)5	17:27	Middle	2	1	25.5	7.85	27.5	6.65	8.49	12.1
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	CS(Mf)5	17:27	Middle	2	2	25.4	7.82	27.5	6.67	8.42	12.1
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	CS(Mf)5	17:27	Bottom	3	1	25.3	7.89	27.6	6.71	8.52	12.4
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	CS(Mf)5	17:27	Bottom	3	2	25.2	7.86	27.5	6.74	8.48	12.4
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	SR4a	17:55	Surface	1	1	25.5	7.76	27.1	6.55	8.06	11.7
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	SR4a	17:55	Surface	1	2	25.6	7.78	27	6.52	8.02	11.7
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	SR4a	17:55	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	SR4a	17:55	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	SR4a	17:55	Bottom	3	1	25.5	7.81	27.1	6.58	8.4	12.2
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	SR4a	17:55	Bottom	3	2	25.5	7.79	27.1	6.54	8.37	12.1
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	SR4	18:20	Surface	1	1	25.5	7.8	27.1	6.59	8.27	11.8
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	SR4	18:20	Surface	1	2	25.5	7.77	27	6.63	8.21	11.7
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	SR4	18:20	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	SR4	18:20	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	SR4	18:20	Bottom	3	1	25.4	7.76	27.3	6.57	8.07	11.8
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	SR4	18:20	Bottom	3	2	25.5	7.73	27.2	6.61	8.12	11.8
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS8	18:42	Surface	1	1	25.6	7.84	27	6.54	7.91	11.2
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS8	18:42	Surface	1	2	25.5	7.83	27	6.52	7.98	11.3
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS8	18:42	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS8	18:42	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS8	18:42	Bottom	3	1	25.5	7.85	27.2	6.72	8.29	11.9
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS8	18:42	Bottom	3	2	25.5	7.81	27.2	6.75	8.34	12
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS(Mf)16	19:05	Surface	1	1	25.5	7.79	27.1	6.37	7.69	10.8

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS(Mf)16	19:05	Surface	1	2	25.5	7.75	27	6.34	7.67	11
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS(Mf)16	19:05	Middle	2	1	25.3	7.86	27.4	6.47	8.41	12.1
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS(Mf)16	19:05	Middle	2	2	25.2	7.82	27.4	6.44	8.46	12.3
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS(Mf)16	19:05	Bottom	3	1	25.2	7.89	27.5	6.41	8.74	12.8
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS(Mf)16	19:05	Bottom	3	2	25.1	7.91	27.6	6.39	8.69	12.7
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS(Mf)9	19:30	Surface	1	1	25.4	7.76	27.1	6.56	7.72	11.1
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS(Mf)9	19:30	Surface	1	2	25.5	7.8	27.1	6.54	7.78	11.1
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS(Mf)9	19:30	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS(Mf)9	19:30	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS(Mf)9	19:30	Bottom	3	1	25.4	7.81	27.3	6.47	8.55	12.4
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	IS(Mf)9	19:30	Bottom	3	2	25.3	7.78	27.2	6.45	8.51	12.4
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	CS(Mf)3(N)	19:53	Surface	1	1	25.4	7.78	27.1	6.39	7.92	11.2
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	CS(Mf)3(N)	19:53	Surface	1	2	25.4	7.82	27.2	6.43	7.97	11.4
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	CS(Mf)3(N)	19:53	Middle	2	1	25.3	7.76	27.3	6.35	9.08	13.1
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	CS(Mf)3(N)	19:53	Middle	2	2	25.4	7.74	27.2	6.38	9.13	13.1
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	CS(Mf)3(N)	19:53	Bottom	3	1	25.3	7.83	27.4	6.48	8.71	12.7
TMCLKL	HY/2012/07	2017-05-25	Mid-Flood	CS(Mf)3(N)	19:53	Bottom	3	2	25.3	7.81	27.4	6.46	8.74	12.8
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	CS(Mf)5	13:15	Surface	1	1	25.4	7.78	27.2	6.59	7.98	11.5
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	CS(Mf)5	13:15	Surface	1	2	25.3	7.82	27.1	6.55	7.92	11.2
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	CS(Mf)5	13:15	Middle	2	1	25.1	7.87	27.3	6.62	8.64	12.5
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	CS(Mf)5	13:15	Middle	2	2	25.2	7.88	27.4	6.65	8.6	12.5
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	CS(Mf)5	13:15	Bottom	3	1	25.1	7.84	27.4	6.53	8.6	12.3
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	CS(Mf)5	13:15	Bottom	3	2	25	7.86	27.4	6.49	8.55	12.1
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	SR4a	12:50	Surface	1	1	25.4	7.74	27	6.43	8.17	11.4
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	SR4a	12:50	Surface	1	2	25.4	7.75	26.9	6.46	8.15	11.5
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	SR4a	12:50	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	SR4a	12:50	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	SR4a	12:50	Bottom	3	1	25.3	7.79	27	6.47	8.56	12.3
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	SR4a	12:50	Bottom	3	2	25.2	7.8	27.1	6.44	8.52	12.3
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	SR4	12:25	Surface	1	1	25.4	7.78	27	6.58	8.17	11.7
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	SR4	12:25	Surface	1	2	25.3	7.79	26.9	6.54	8.2	11.8
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	SR4	12:25	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	SR4	12:25	Middle	2	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	2017-05-25	Mid-Ebb	SR4	12:25	Bottom	3	1	25.3	7.75	27.1	6.51	8.39	12.2
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	SR4	12:25	Bottom	3	2	25.2	7.74	27.1	6.55	8.35	12.2
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS8	12:03	Surface	1	1	25.4	7.92	26.9	6.64	8.02	11.5
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS8	12:03	Surface	1	2	25.4	7.91	26.9	6.68	8.06	11.5
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS8	12:03	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS8	12:03	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS8	12:03	Bottom	3	1	25.3	7.87	27	6.42	8.44	12.2
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS8	12:03	Bottom	3	2	25.3	7.86	27.1	6.46	8.4	12.2
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS(Mf)16	11:37	Surface	1	1	25.3	7.8	27.1	6.25	7.82	11.3
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS(Mf)16	11:37	Surface	1	2	25.3	7.83	27.2	6.29	7.78	11
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS(Mf)16	11:37	Middle	2	1	25.2	7.79	27.2	6.36	8.59	12.5
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS(Mf)16	11:37	Middle	2	2	25.1	7.81	27.3	6.32	8.55	12.4
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS(Mf)16	11:37	Bottom	3	1	25.1	7.87	27.3	6.31	8.88	12.8
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS(Mf)16	11:37	Bottom	3	2	25.1	7.88	27.3	6.28	8.85	12.7
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS(Mf)9	11:15	Surface	1	1	25.3	7.78	27	6.44	7.82	11.4
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS(Mf)9	11:15	Surface	1	2	25.3	7.79	27	6.47	7.86	11.5
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS(Mf)9	11:15	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS(Mf)9	11:15	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS(Mf)9	11:15	Bottom	3	1	25.1	7.82	27.2	6.37	8.66	12.5
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	IS(Mf)9	11:15	Bottom	3	2	25.1	7.81	27.1	6.34	8.62	12.6
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	CS(Mf)3(N)	10:49	Surface	1	1	25.2	7.82	27	6.32	8.04	11.4
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	CS(Mf)3(N)	10:49	Surface	1	2	25.3	7.79	27	6.36	8.08	11.6
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	CS(Mf)3(N)	10:49	Middle	2	1	25.1	7.74	27.1	6.27	8.89	12.9
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	CS(Mf)3(N)	10:49	Middle	2	2	25	7.75	27.2	6.29	8.85	12.9
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	CS(Mf)3(N)	10:49	Bottom	3	1	25	7.79	27.2	6.4	9.4	13.8
TMCLKL	HY/2012/07	2017-05-25	Mid-Ebb	CS(Mf)3(N)	10:49	Bottom	3	2	25	7.8	27.2	6.37	9.46	13.9
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	CS(Mf)5	6:30	Surface	1	1	25.5	7.8	27.6	6.56	8.04	11.3
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	CS(Mf)5	6:30	Surface	1	2	25.5	7.83	27.7	6.53	8.13	11.7
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	CS(Mf)5	6:30	Middle	2	1	25.5	7.78	27.7	6.62	7.85	11.2
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	CS(Mf)5	6:30	Middle	2	2	25.5	7.81	27.8	6.65	7.92	11.4
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	CS(Mf)5	6:30	Bottom	3	1	25.4	7.88	28	6.45	8.34	12.1
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	CS(Mf)5	6:30	Bottom	3	2	25.4	7.84	28	6.43	8.42	12.3
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	SR4a	6:57	Surface	1	1	25.5	7.84	27.7	6.49	7.94	11.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	SR4a	6:57	Surface	1	2	25.5	7.89	27.8	6.51	7.87	11.5
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	SR4a	6:57	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	SR4a	6:57	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	SR4a	6:57	Bottom	3	1	25.5	7.87	27.8	6.67	7.64	11.1
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	SR4a	6:57	Bottom	3	2	25.5	7.9	27.8	6.7	7.57	10.9
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	SR4	7:13	Surface	1	1	25.5	7.86	27.7	6.43	7.78	11.1
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	SR4	7:13	Surface	1	2	25.5	7.89	27.7	6.4	7.84	11.2
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	SR4	7:13	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	SR4	7:13	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	SR4	7:13	Bottom	3	1	25.5	7.84	27.7	6.33	7.9	11.5
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	SR4	7:13	Bottom	3	2	25.5	7.891	27.8	6.3	7.99	11.6
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS8	7:30	Surface	1	1	25.5	7.88	27.7	6.56	7.87	11.2
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS8	7:30	Surface	1	2	25.6	7.85	27.7	6.53	7.95	11.3
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS8	7:30	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS8	7:30	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS8	7:30	Bottom	3	1	25.5	7.79	27.7	6.44	8.04	11.6
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS8	7:30	Bottom	3	2	25.5	7.83	27.8	6.41	8.16	11.8
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS(Mf)16	7:48	Surface	1	1	25.5	7.86	27.7	6.48	7.94	11.2
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS(Mf)16	7:48	Surface	1	2	25.5	7.9	27.8	6.44	8.03	11.4
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS(Mf)16	7:48	Middle	2	1	25.5	7.87	27.8	6.4	8.24	11.9
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS(Mf)16	7:48	Middle	2	2	25.4	7.84	27.8	6.37	8.16	11.8
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS(Mf)16	7:48	Bottom	3	1	25.4	7.8	27.9	6.3	8.43	12.3
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS(Mf)16	7:48	Bottom	3	2	25.4	7.83	27.9	6.26	8.36	12.2
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS(Mf)9	8:10	Surface	1	1	25.5	7.8	27.8	6.57	7.84	11.3
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS(Mf)9	8:10	Surface	1	2	25.6	7.84	27.8	6.61	7.89	11.3
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS(Mf)9	8:10	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS(Mf)9	8:10	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS(Mf)9	8:10	Bottom	3	1	25.5	7.84	27.8	6.49	7.92	11.5
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	IS(Mf)9	8:10	Bottom	3	2	25.5	7.86	27.8	6.46	8	11.7
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	CS(Mf)3(N)	8:30	Surface	1	1	25.5	7.84	27.8	6.65	8.01	11.4
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	CS(Mf)3(N)	8:30	Surface	1	2	25.6	7.81	27.8	6.6	7.93	11.3
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	CS(Mf)3(N)	8:30	Middle	2	1	25.5	7.77	27.8	6.55	7.76	11.2
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	CS(Mf)3(N)	8:30	Middle	2	2	25.5	7.8	27.9	6.52	7.82	11.3

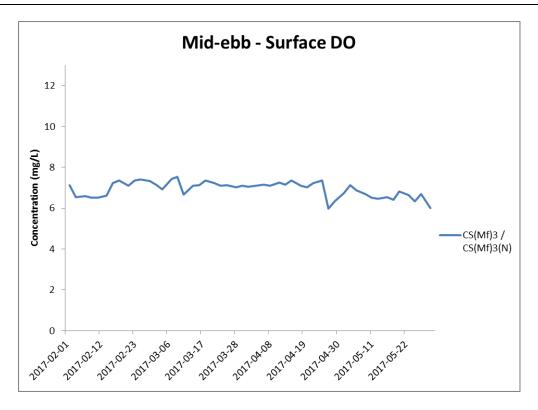
Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	CS(Mf)3(N)	8:30	Bottom	3	1	25.5	7.83	27.9	6.39	8.21	12
TMCLKL	HY/2012/07	2017-05-27	Mid-Flood	CS(Mf)3(N)	8:30	Bottom	3	2	25.5	7.85	28	6.41	8.3	12.2
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	CS(Mf)5	15:00	Surface	1	1	25.4	8.16	27.5	6.4	8.2	11.8
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	CS(Mf)5	15:00	Surface	1	2	25.5	8.13	27.6	6.43	8.23	11.7
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	CS(Mf)5	15:00	Middle	2	1	25.4	7.93	27.7	6.33	8.3	12
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	CS(Mf)5	15:00	Middle	2	2	25.4	7.96	27.7	6.35	8.32	12.1
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	CS(Mf)5	15:00	Bottom	3	1	25.3	8.09	27.8	6.5	7.96	11.4
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	CS(Mf)5	15:00	Bottom	3	2	25.3	8.11	27.8	6.53	7.99	11.3
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	SR4a	14:20	Surface	1	1	25.6	7.9	27.4	6.47	8.04	11.3
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	SR4a	14:20	Surface	1	2	25.5	7.93	27.5	6.49	8.07	11.4
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	SR4a	14:20	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	SR4a	14:20	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	SR4a	14:20	Bottom	3	1	25.4	8.07	27.6	6.55	8.13	11.7
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	SR4a	14:20	Bottom	3	2	25.4	8.09	27.6	6.57	8.1	11.7
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	SR4	14:00	Surface	1	1	25.5	7.89	27.6	6.37	7.84	11.2
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	SR4	14:00	Surface	1	2	25.6	7.91	27.7	6.39	7.87	11.3
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	SR4	14:00	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	SR4	14:00	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	SR4	14:00	Bottom	3	1	25.7	8.04	27.8	6.43	7.99	11.6
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	SR4	14:00	Bottom	3	2	25.7	8.07	27.8	6.45	8.02	11.7
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS8	13:38	Surface	1	1	25.4	. 8	27.5	6.48	8.02	11.5
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS8	13:38	Surface	1	2	25.5	8.03	27.4	6.51	8.04	11.5
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS8	13:38	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS8	13:38	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS8	13:38	Bottom	3	1	25.6	8.11	27.6	6.64	8.11	11
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS8	13:38	Bottom	3	2	25.5	8.13	27.7	6.62	8.13	11.8
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS(Mf)16	13:06	Surface	1	1	25.5	7.79	27.4	6.51	8.11	11.7
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS(Mf)16	13:06	Surface	1	2	25.6	7.81	27.5	6.53	8.13	11.5
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS(Mf)16	13:06	Middle	2	1	25.5	7.88	27.6	6.47	8.2	12
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS(Mf)16	13:06	Middle	2	2	25.4	7.9	27.6	6.45	8.23	11.9
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS(Mf)16	13:06	Bottom	3	1	25.7	7.94	27.8	6.38	7.98	10.9
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS(Mf)16	13:06	Bottom	3	2	25.6	7.97	27.8	6.39	7.99	11.4
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS(Mf)9	12:42	Surface	1	1	25.4	7.93	27.6	6.54	7.99	11.7

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS(Mf)9	12:42	Surface	1	2	25.5	7.96	27.7	6.57	8.02	11.7
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS(Mf)9	12:42	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS(Mf)9	12:42	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS(Mf)9	12:42	Bottom	3	1	25.6	8.04	27.8	6.47	7.75	11.2
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	IS(Mf)9	12:42	Bottom	3	2	25.6	8.07	27.8	6.45	7.79	11.4
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	CS(Mf)3(N)	12:19	Surface	1	1	25.6	8.07	27.5	6.68	7.94	11.3
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	CS(Mf)3(N)	12:19	Surface	1	2	25.5	8.09	27.6	6.7	7.97	11.4
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	CS(Mf)3(N)	12:19	Middle	2	1	25.4	8.13	27.8	6.57	8.13	11.9
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	CS(Mf)3(N)	12:19	Middle	2	2	25.4	8.1	27.8	6.55	8.1	11.7
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	CS(Mf)3(N)	12:19	Bottom	3	1	25.3	7.93	27.7	6.74	8.2	12.1
TMCLKL	HY/2012/07	2017-05-27	Mid-Ebb	CS(Mf)3(N)	12:19	Bottom	3	2	25.4	7.9	27.8	6.76	8.23	12.1
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	CS(Mf)5	8:42	Surface	1	1	25.3	7.89	27.9	6.34	8.25	10.7
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	CS(Mf)5	8:42	Surface	1	2	25.3	7.93	28	6.31	8.16	12.2
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	CS(Mf)5	8:42	Middle	2	1	25.3	7.94	27.9	6.42	7.64	10.7
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	CS(Mf)5	8:42	Middle	2	2	25.4	7.9	28	6.45	7.73	10.8
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	CS(Mf)5	8:42	Bottom	3	1	25.4	7.86	28.1	6.23	8.44	10.1
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	CS(Mf)5	8:42	Bottom	3	2	25.4	7.81	28.2	6.2	8.52	11.9
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	SR4a	9:08	Surface	1	1	25.3	7.84	27.7	6.23	8.07	10.5
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	SR4a	9:08	Surface	1	2	25.3	7.8	27.8	6.26	8.15	9.8
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	SR4a	9:08	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	SR4a	9:08	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	SR4a	9:08	Bottom	3	1	25.3	7.86	27.7	6.13	8.3	12.5
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	SR4a	9:08	Bottom	3	2	25.3	7.89	27.7	6.1	8.22	12.3
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	SR4	9:24	Surface	1	1	25.3	7.8	27.8	6.18	8.34	12.5
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	SR4	9:24	Surface	1	2	25.4	7.77	27.8	6.21	8.25	10.7
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	SR4	9:24	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	SR4	9:24	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	SR4	9:24	Bottom	3	1	25.3	7.84	27.8	6.11	8.44	11.8
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	SR4	9:24	Bottom	3	2	25.3	7.87	27.8	6.09	8.51	11.9
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS8	9:40	Surface	1	1	25.4	7.79	27.8	6.24	8.38	11.7
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS8	9:40	Surface	1	2	25.3	7.84	27.9	6.27	8.43	12.6
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS8	9:40	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS8	9:40	Middle	2	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	2017-05-30	Mid-Flood	IS8	9:40	Bottom	3	1	25.3	7.86	27.9	6.18	8.6	12
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS8	9:40	Bottom	3	2	25.3	7.89	27.9	6.16	8.52	12.8
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS(Mf)16	9:59	Surface	1	1	25.4	7.86	27.9	6.2	8.45	11
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS(Mf)16	9:59	Surface	1	2	25.4	7.89	27.9	6.16	8.52	11.9
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS(Mf)16	9:59	Middle	2	1	25.4	7.81	27.8	6.11	8.23	11.5
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS(Mf)16	9:59	Middle	2	2	25.3	7.84	27.9	6.09	8.18	11.5
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS(Mf)16	9:59	Bottom	3	1	25.3	7.76	28	6.04	8.54	11.1
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS(Mf)16	9:59	Bottom	3	2	25.2	7.8	28.1	6	8.66	13
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS(Mf)9	10:20	Surface	1	1	25.4	7.84	27.9	6.35	8.47	10.2
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS(Mf)9	10:20	Surface	1	2	25.5	7.8	27.9	6.32	8.55	10.3
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS(Mf)9	10:20	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS(Mf)9	10:20	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS(Mf)9	10:20	Bottom	3	1	25.4	7.86	27.9	6.24	8.46	10.2
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	IS(Mf)9	10:20	Bottom	3	2	25.4	7.89	28	6.21	8.38	12.6
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	CS(Mf)3(N)	10:40	Surface	1	1	25.5	7.87	27.9	6.3	8.43	11.8
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	CS(Mf)3(N)	10:40	Surface	1	2	25.5	7.89	27.9	6.33	8.35	12.5
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	CS(Mf)3(N)	10:40	Middle	2	1	25.5	7.8	27.9	6.2	8.52	10.2
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	CS(Mf)3(N)	10:40	Middle	2	2	25.4			6.16	8.59	
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	CS(Mf)3(N)	10:40	Bottom	3	1	25.5	7.85	28.1	6.05	8.67	10.4
TMCLKL	HY/2012/07	2017-05-30	Mid-Flood	CS(Mf)3(N)	10:40	Bottom	3	2	25.5	7.79	28.1	6.09	8.61	12.1
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	CS(Mf)5	16:51	Surface	1	1	25.6	7.88	27.7	6.25	7.88	12.6
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	CS(Mf)5	16:51	Surface	1	2	25.6	7.91	27.7	6.22	7.81	11.7
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	CS(Mf)5	16:51	Middle	2	1	25.4	7.82	27.8	6.13	8.62	12.9
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	CS(Mf)5	16:51	Middle	2	2	25.5	7.84	27.7	6.11	8.57	11.1
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	CS(Mf)5	16:51	Bottom	3	1	25.4	7.91	28	6.34	8.38	11.7
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	CS(Mf)5	16:51	Bottom	3	2	25.4	7.95	28	6.31	8.31	11.6

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	2017-05-30	Mid-Ebb	SR4a	16:27	Surface	1	1	25.6	7.81	27.6	6.16	8.26	12.4
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	SR4a	16:27	Surface	1	2	25.6	7.85	27.7	6.14	8.19	12.3
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	SR4a	16:27	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	SR4a	16:27	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	SR4a	16:27	Bottom	3	1	25.5	7.88	27.7	6.04	8.41	12.6
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	SR4a	16:27	Bottom	3	2	25.6	7.86	27.8	6.01	8.34	12.5
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	SR4	16:11	Surface	1	1	25.7	7.88	27.7	6.03	8.39	13.4
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	SR4	16:11	Surface	1	2	25.7	7.85	27.6	6.01	8.33	10.8
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	SR4	16:11	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	SR4	16:11	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	SR4	16:11	Bottom	3	1	25.6	7.81	27.8	6.13	8.54	12
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	SR4	16:11	Bottom	3	2	25.6	7.77	27.7	6.09	8.5	12.8
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS8	15:55	Surface	1	1	25.7	7.88	27.7	6.08	8.64	12.1
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS8	15:55	Surface	1	2	25.7	7.84	27.7	6.07	8.71	10.5
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS8	15:55	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS8	15:55	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS8	15:55	Bottom	3	1	25.7	7.8	27.8	6.15	8.49	11
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS8	15:55	Bottom	3	2	25.6	7.84	27.7	6.12	8.53	12.8
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS(Mf)16	15:32	Surface	1	1	25.7	7.78	27.7	6.02	8.67	13
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS(Mf)16	15:32	Surface	1	2	25.8	7.81	27.8	5.99	8.74	13.1
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS(Mf)16	15:32	Middle	2	1	25.6	7.82	27.8	6.01	8.64	10.4
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS(Mf)16	15:32	Middle	2	2	25.6	7.84	27.8	8.97	8.59	10.3
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS(Mf)16	15:32	Bottom	3	1	25.4	7.88	27.9	6.09	8.32	11.6
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS(Mf)16	15:32	Bottom	3	2	25.5	7.84	27.9	6.12	8.38	10.1
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS(Mf)9	15:15	Surface	1	1	25.7	7.88	27.8	6.24	8.52	10.2
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS(Mf)9	15:15	Surface	1	2	25.7	7.85	27.8	6.22	8.57	13.7
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS(Mf)9	15:15	Middle	2	1						
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS(Mf)9	15:15	Middle	2	2						
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS(Mf)9	15:15	Bottom	3	1	25.7	7.83	27.8	6.12	8.59	13.7
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	IS(Mf)9	15:15	Bottom	3	2	25.6	7.8	27.9	6.15	8.65	13
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	CS(Mf)3(N)	14:50	Surface	1	1	25.8	7.87	27.8	5.97	8.47	11.9
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	CS(Mf)3(N)	14:50	Surface	1	2	25.7	7.83	27.7	6.01	8.53	11.9
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	CS(Mf)3(N)	14:50	Middle	2	1	25.7	7.79	27.8	6.11	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	2017-05-30	Mid-Ebb	CS(Mf)3(N)	14:50	Middle	2	2	25.7	7.82	27.8	6.09	8.67	13
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	CS(Mf)3(N)	14:50	Bottom	3	1	25.6	7.86	27.9	6.24	8.72	
TMCLKL	HY/2012/07	2017-05-30	Mid-Ebb	CS(Mf)3(N)	14:50	Bottom	3	2	25.7	7.82	27.8	6.21	8.66	11.3



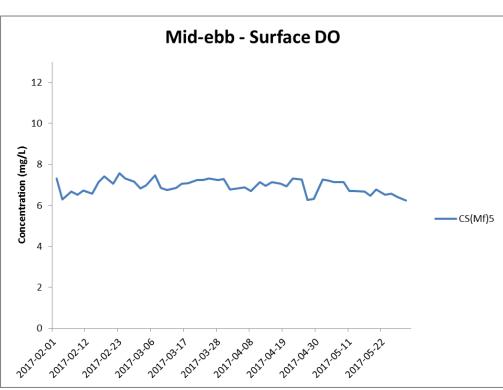
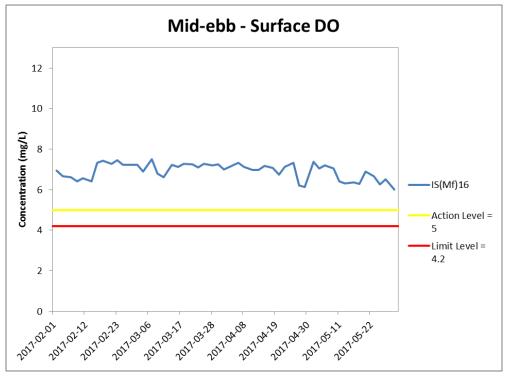


Figure J1 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 February 2017 and 31 May 2017 at CS(Mf)3/CS(Mf)3(N) and CS(Mf)5.





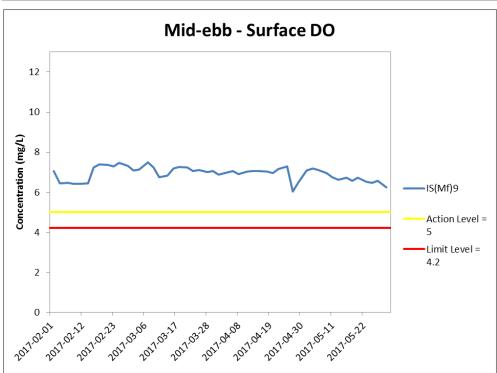
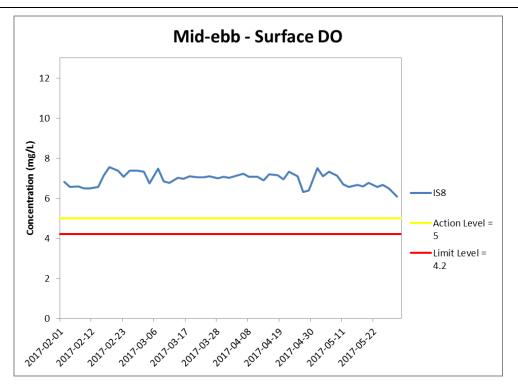


Figure J2 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 February 2017 and 31 May 2017 at IS(Mf)16 and IS(Mf)9.





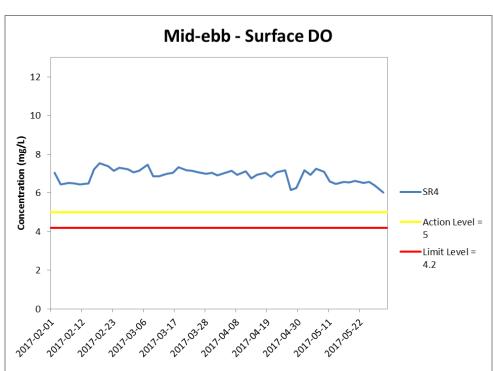


Figure J3 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 February 2017 and 31 May 2017 at IS8 and SR4.



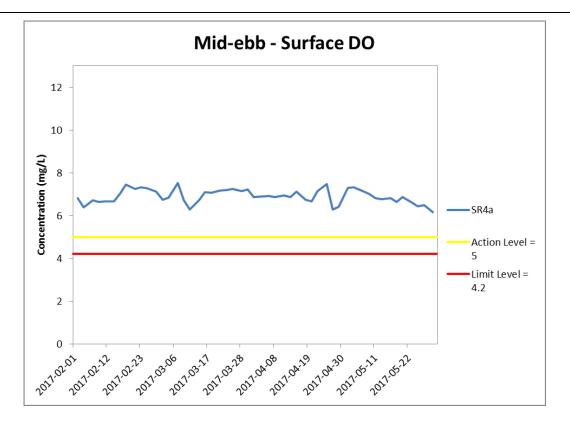
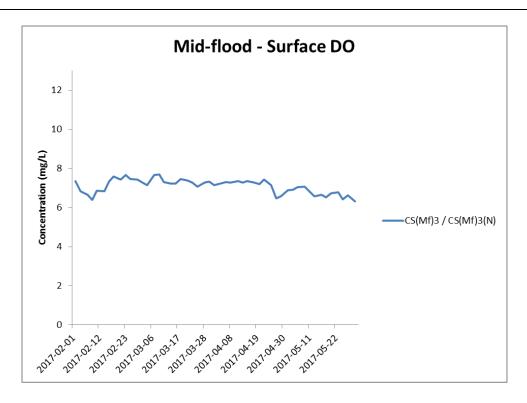


Figure J4 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 February 2017 and 31 May 2017 at SR4a.





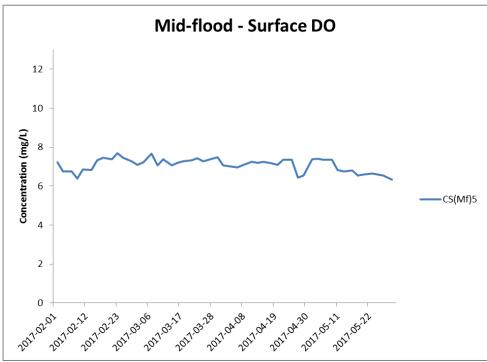
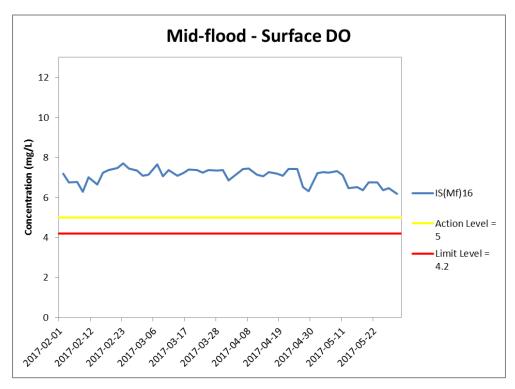


Figure J5 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 February 2017 and 31 May 2017 at CS(Mf)3/CS(Mf)3(N) and CS(Mf)5.





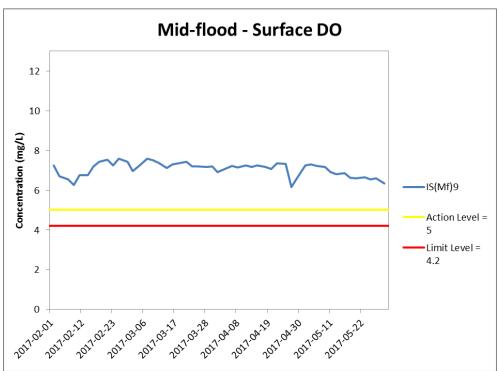
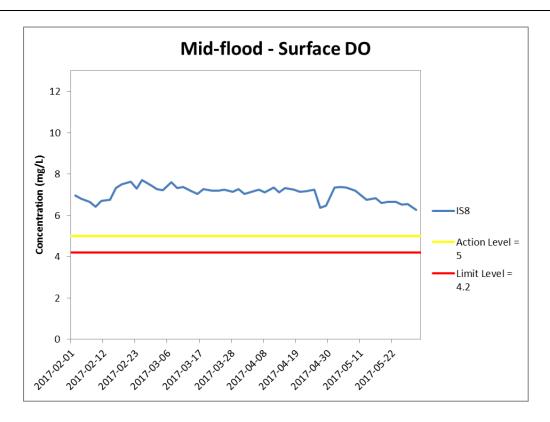


Figure J6 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 February 2017 and 31 May 2017 at IS(Mf)16 and IS(Mf)9.





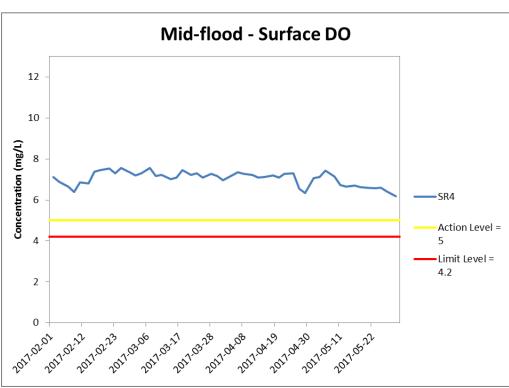


Figure J7 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 February 2017 and 31 May 2017 at IS8 and SR4.



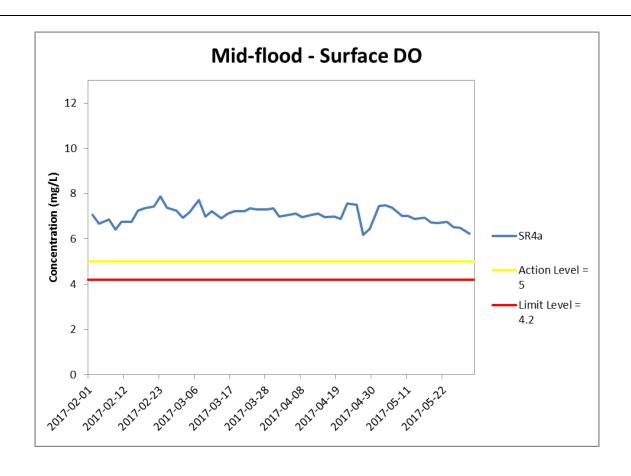
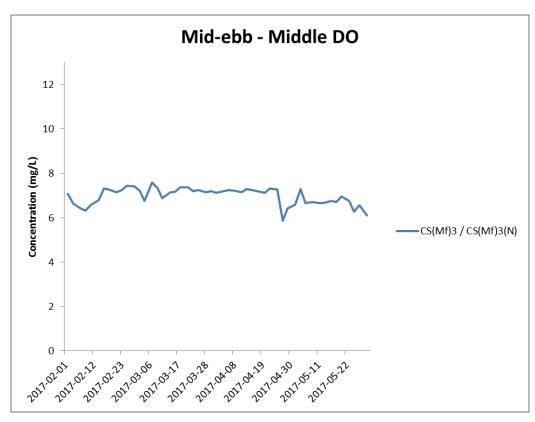


Figure J8 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 February 2017 and 31 May 2017 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





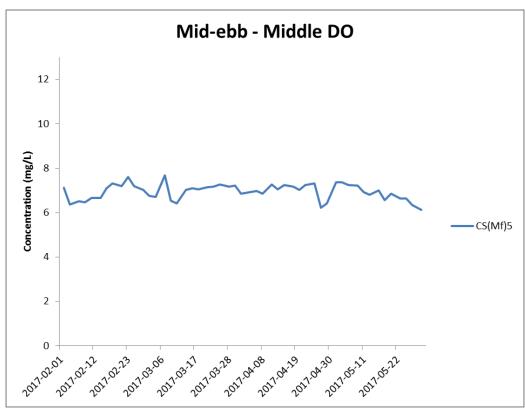


Figure J9 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 February 2017 and 31 May 2017 at CS(Mf)3/CS(Mf)3(N) and CS(Mf)5.



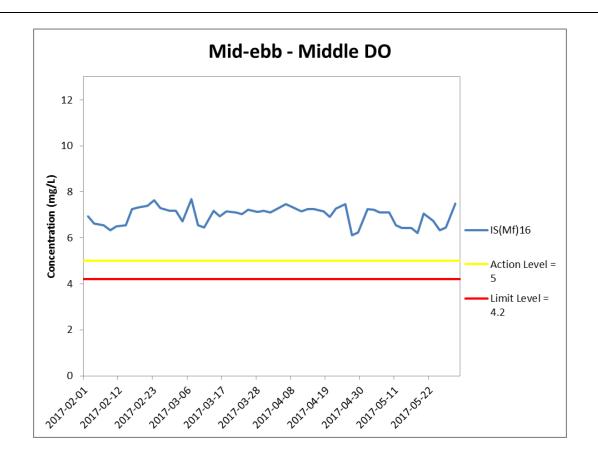
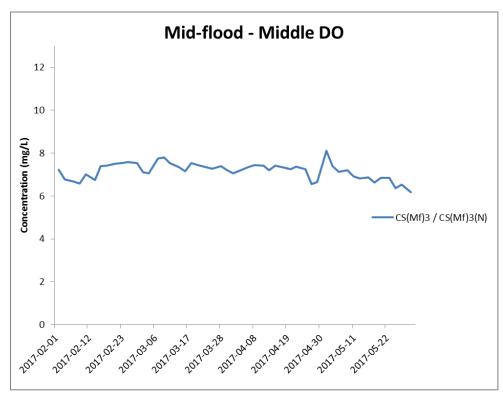


Figure J10 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 February 2017 and 31 May 2017 at IS(Mf)16.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





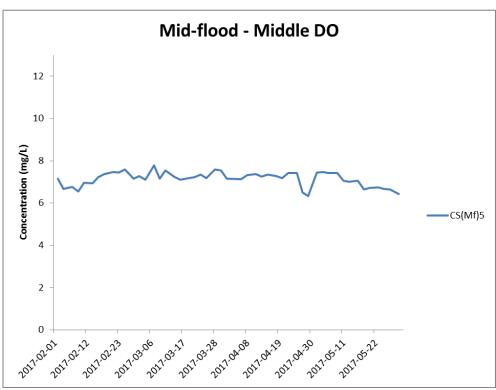


Figure J11 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 February 2017 and 31 May 2017 at CS(Mf)3/CS(Mf)3(N) and CS(Mf)5.



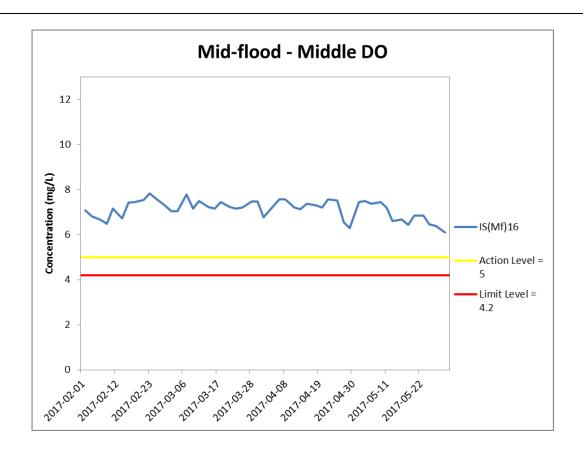
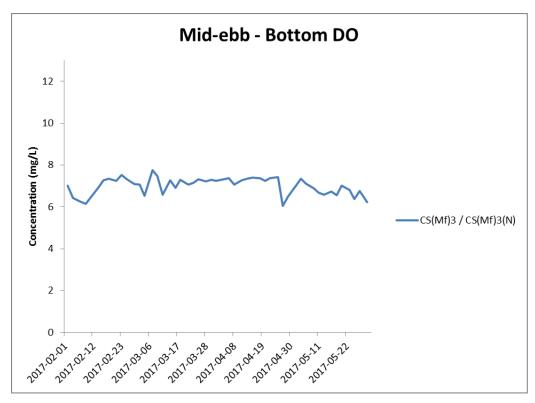


Figure J12 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 February 2017 and 31 May 2017 at IS(Mf)16.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





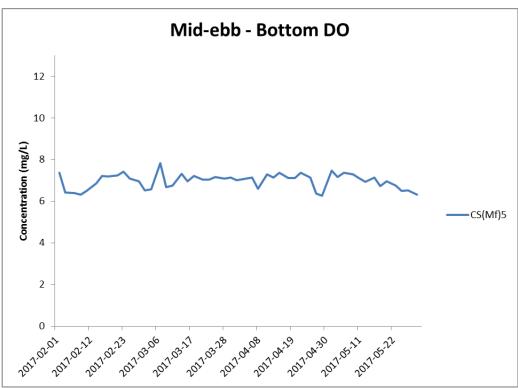
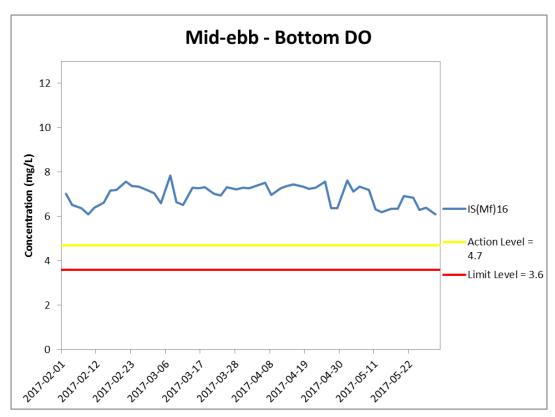


Figure J13 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 February 2017 and 31 May 2017 at CS(Mf)3/CS(Mf)3(N) and CS(Mf)5.





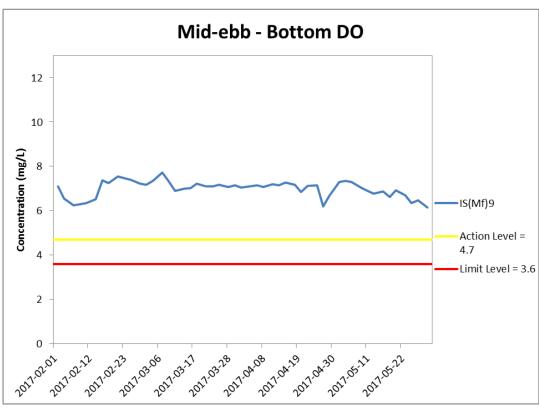
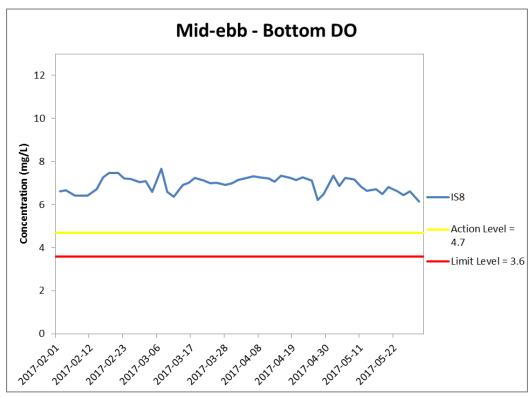


Figure J14 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 February 2017 and 31 May 2017 at IS(Mf)16 and IS(Mf)9.





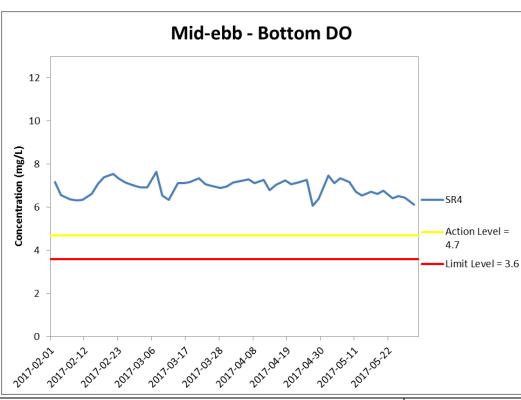


Figure J15 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 February 2017 and 31 May 2017 at IS8 and SR4.



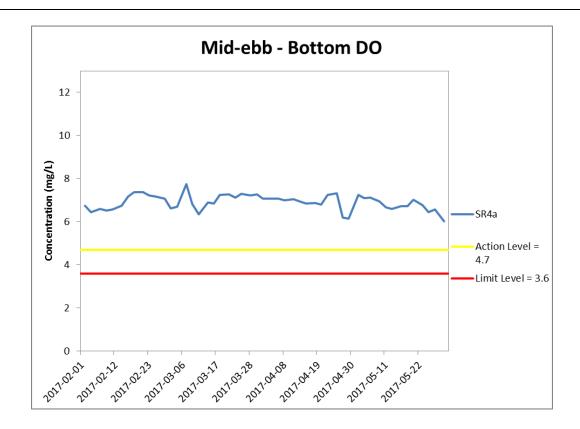
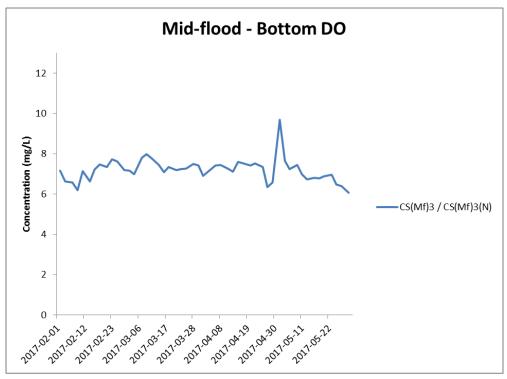


Figure J16 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 February 2017 and 31 May 2017 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





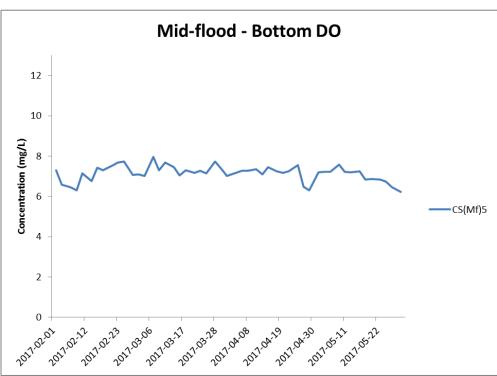
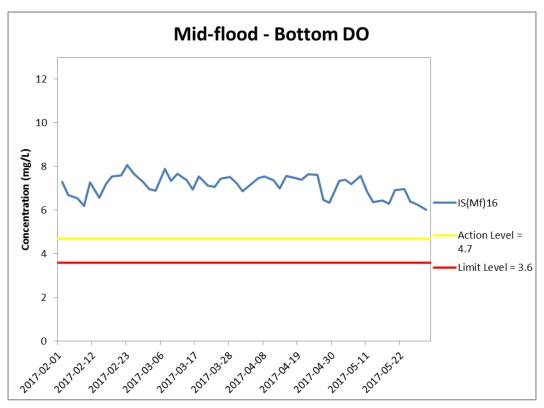


Figure J17 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 February 2017 and 31 May 2017 at CS(Mf)3/CS(Mf)3(N) and CS(Mf)5.





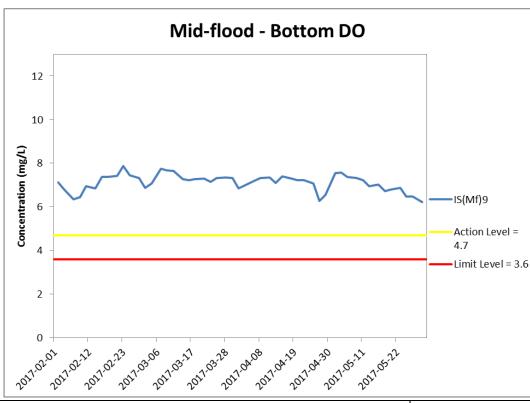
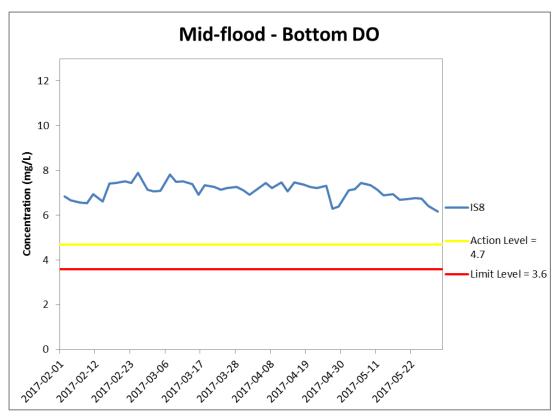


Figure J18 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 February 2017 and 31 May 2017 at IS(Mf)16 and IS(Mf)9.





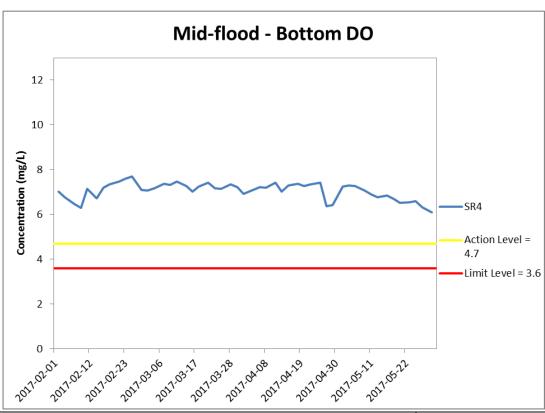


Figure J19 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 February 2017 and 31 May 2017 at IS8 and SR4.



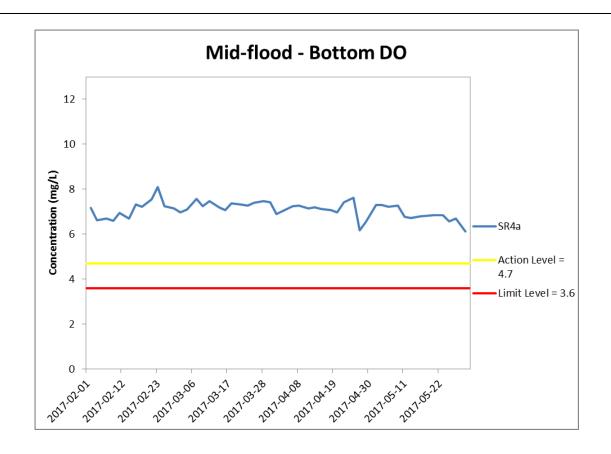
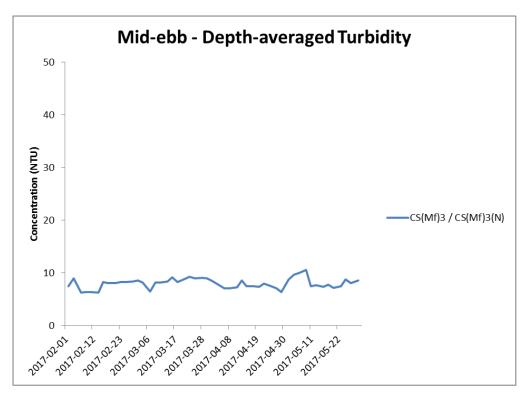


Figure J20 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 February 2017 and 31 May 2017 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





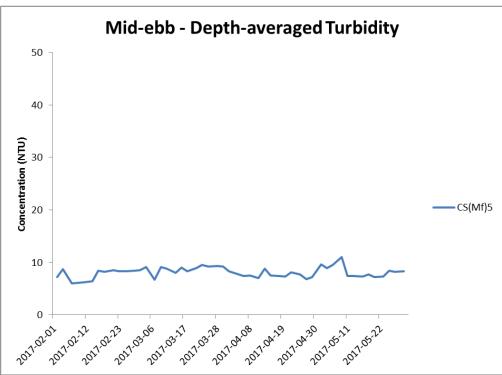
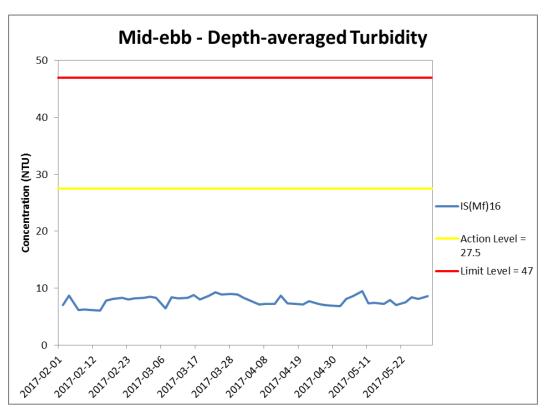


Figure J21 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 February 2017 and 31 May 2017 at CS(Mf)3/CS(Mf)3(N) and CS(Mf)5.





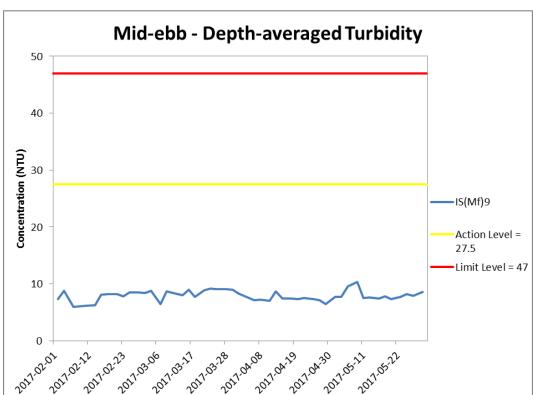
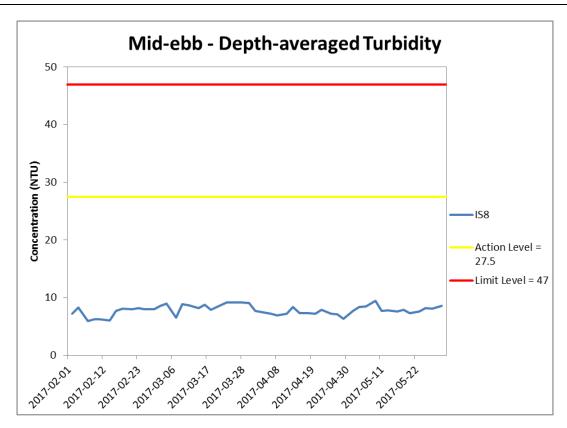


Figure J22 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 February 2017 and 31 May 2017 at IS(Mf)16 and IS(Mf)9.





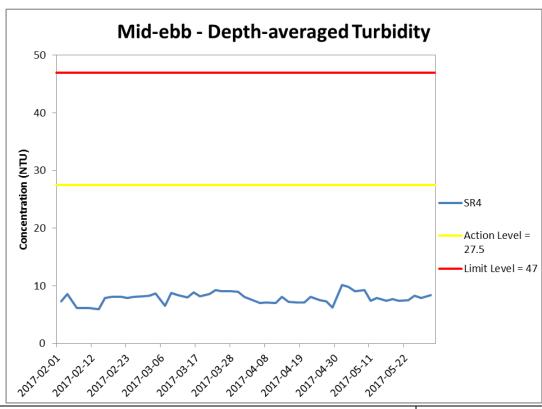


Figure J23 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 February 2017 and 31 May 2017 at IS8 and SR4.



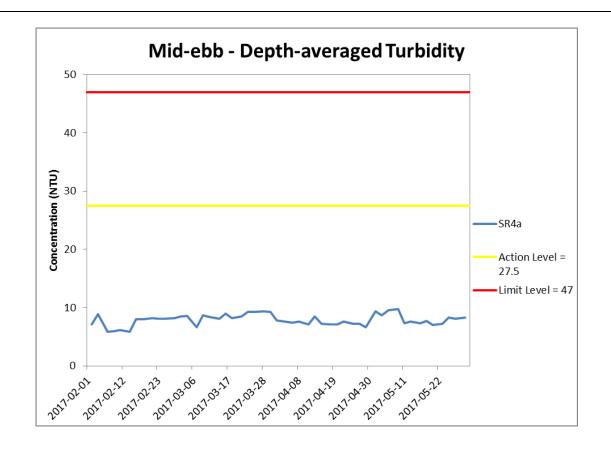
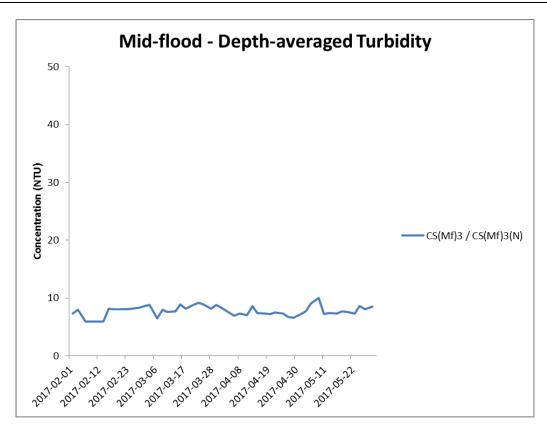


Figure J24 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 February 2017 and 31 May 2017 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





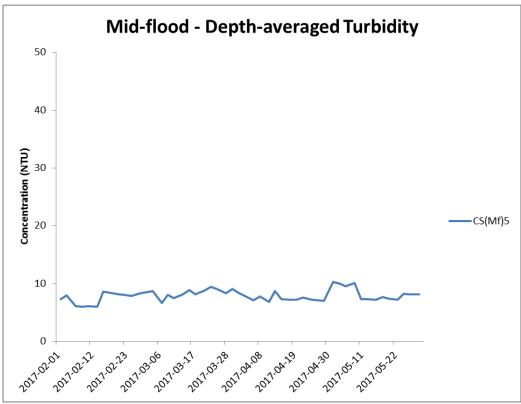
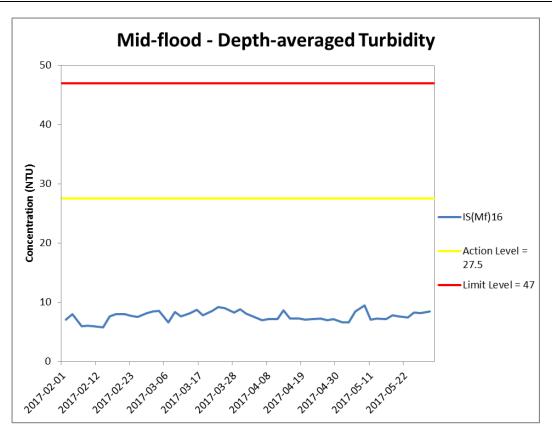


Figure J25 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 February 2017 and 31 May 2017 at CS(Mf)3/CS(Mf)3(N) and CS(MF)5.





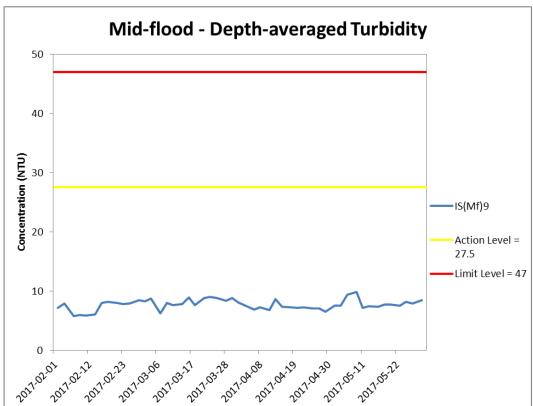
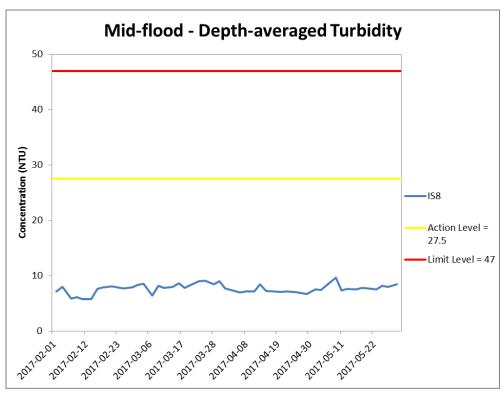
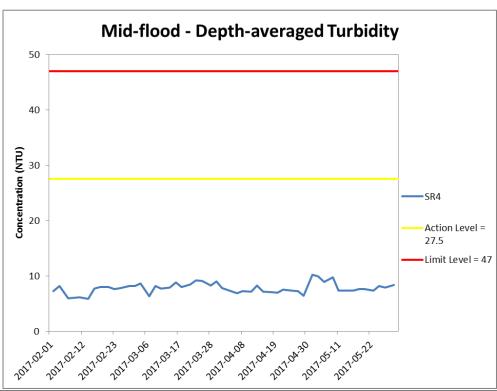


Figure J26 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 February 2017 and 31 May 2017 at IS(Mf)16 and IS(Mf)9.







`Figure J27 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 February 2017 and 31 May 2017 at IS8 and SR4.



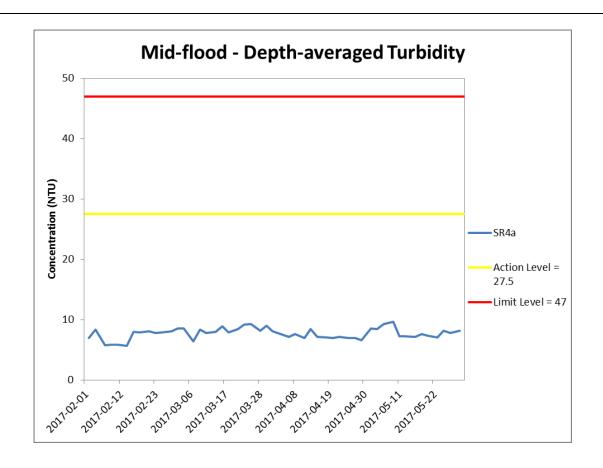
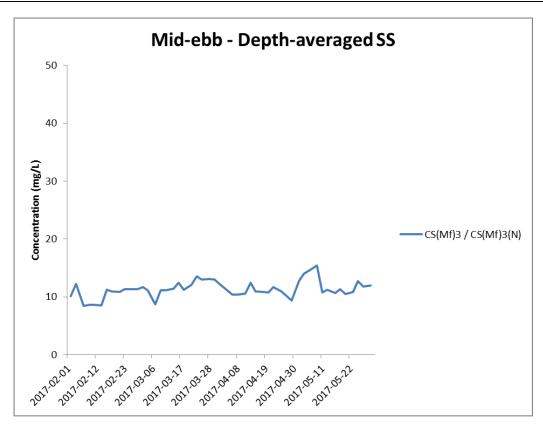


Figure J28 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 February 2017 and 31 May 2017 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





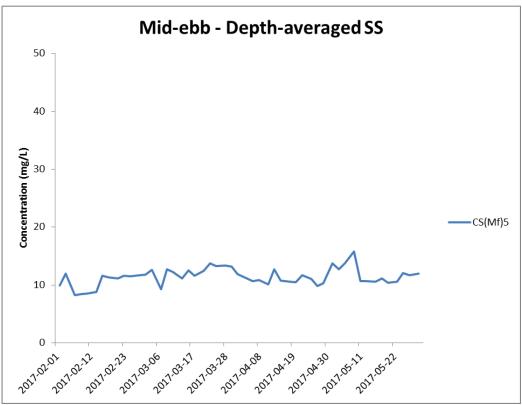
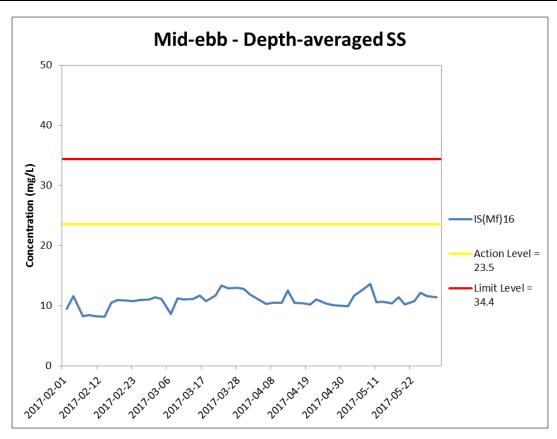


Figure J29 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 February 2017 and 31 May 2017 at CS(Mf)3/CS(Mf)3(N) and CS(Mf)5.





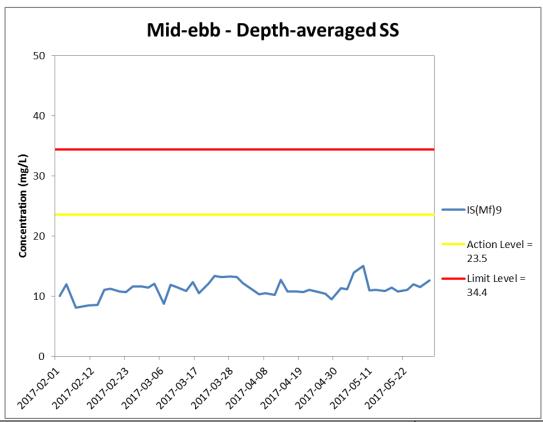
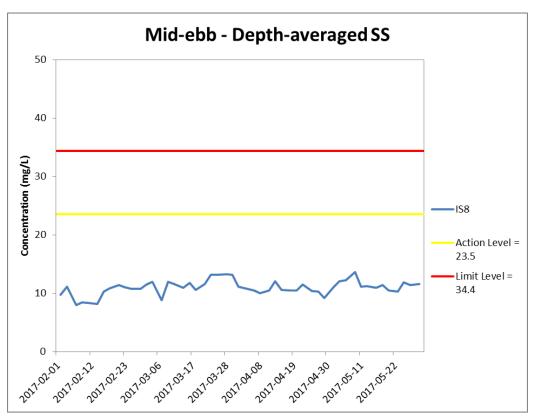


Figure J30 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 February 2017 and 31 May 2017 at IS(Mf)16 and IS(Mf)9.





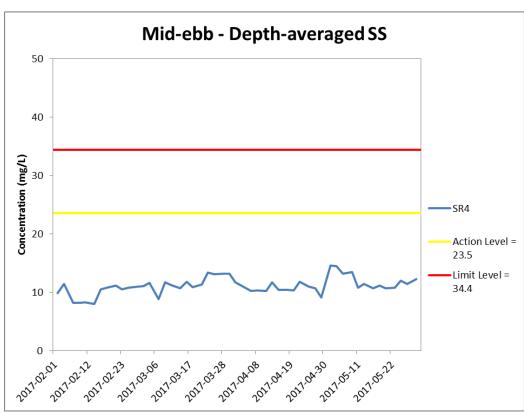


Figure J31 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 February 2017 and 31 May 2017 at IS8 and SR4.



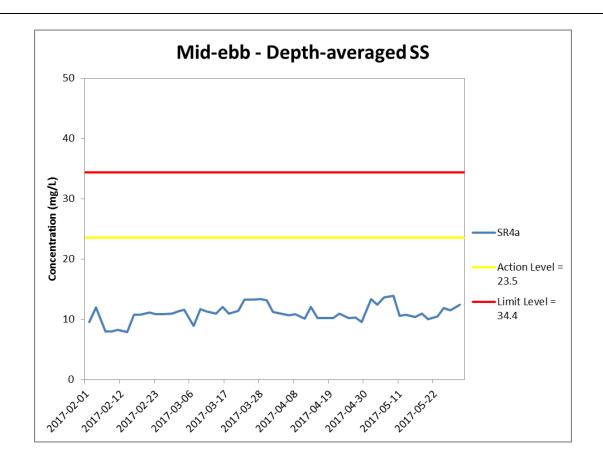
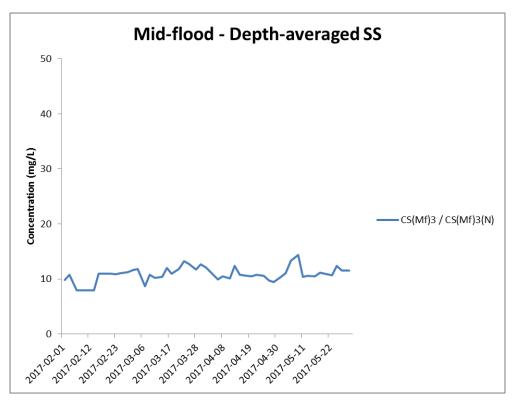


Figure J32 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 February 2017 and 31 May 2017 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





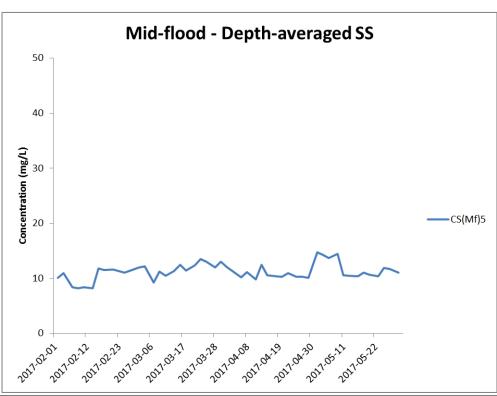
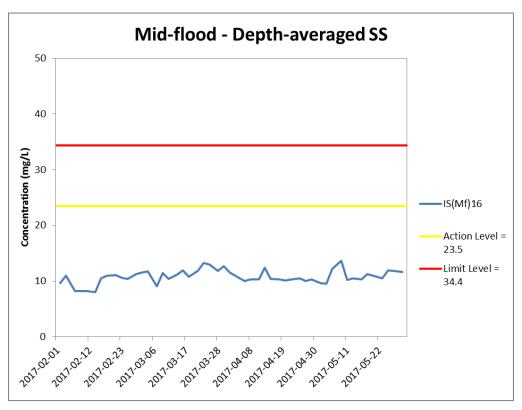


Figure J33 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 February 2017 and 31 May 2017 at CS(Mf)3/CS(Mf)3(N) and CS(Mf)5.





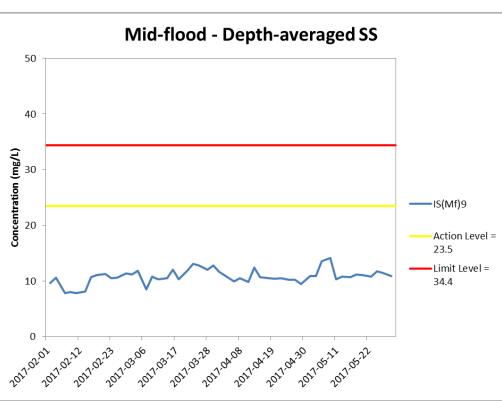
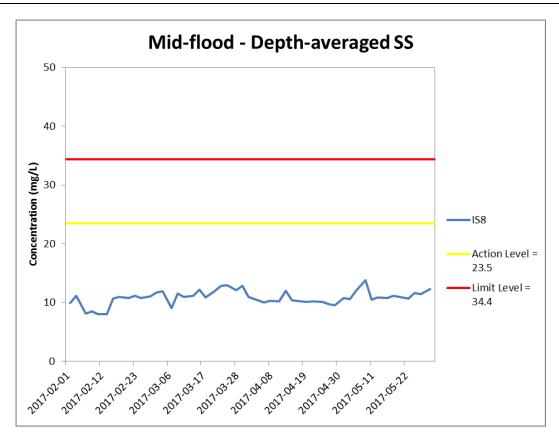


Figure J34 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 February 2017 and 31 May 2017 at IS(Mf)16 and IS(Mf)9.





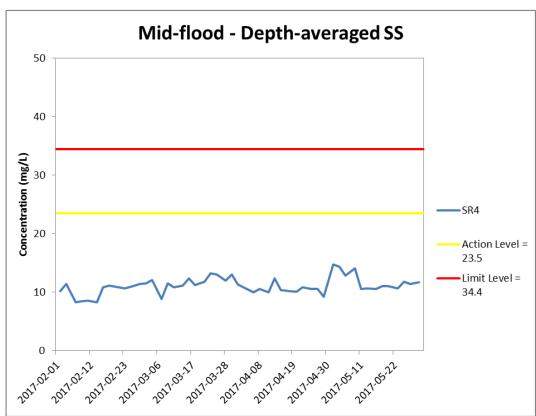


Figure J35 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 February 2017 and 31 May 2017 at IS8 and SR4.



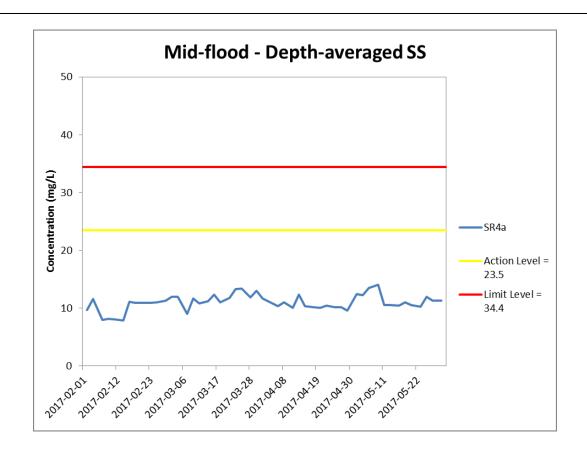


Figure J36 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 February 2017 and 31 May 2017 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.



Appendix K

Impact Dolphin Monitoring Survey Results

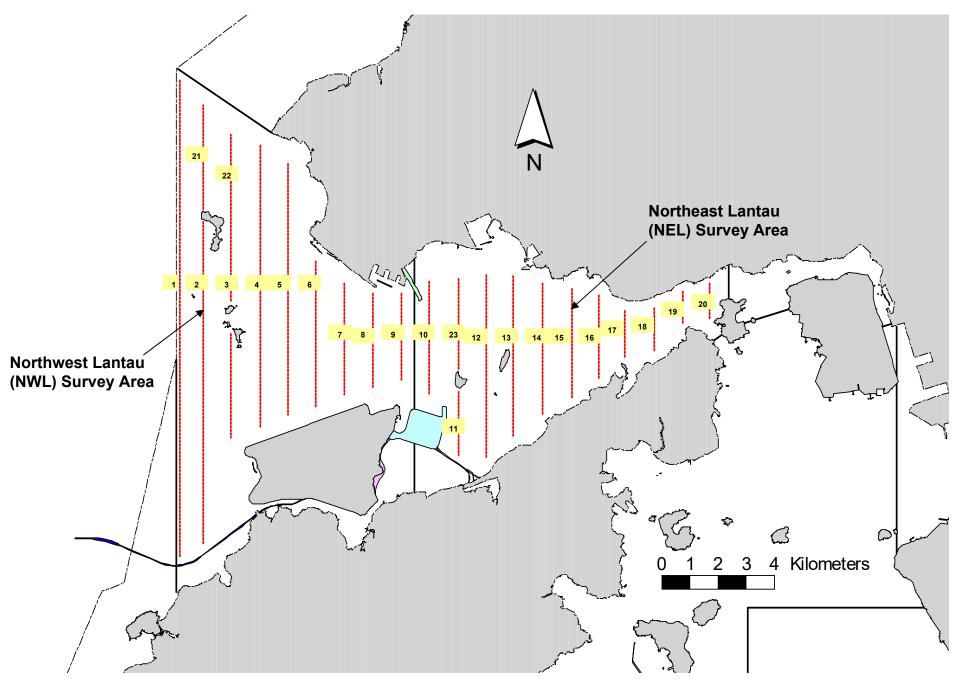


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

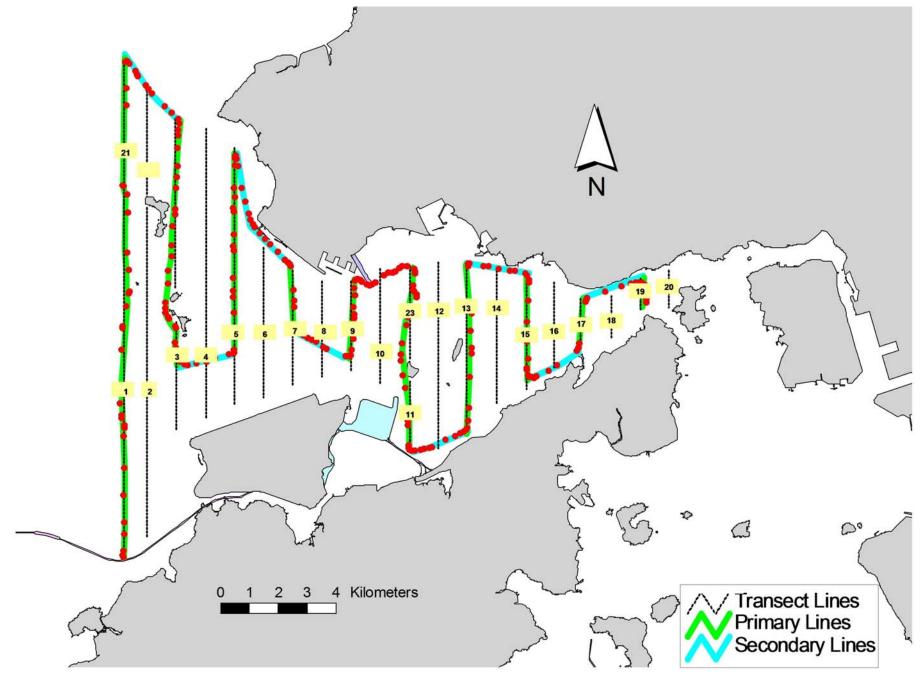


Figure 2. Survey Route on May 18th, 2017 (from HKLR03 project)

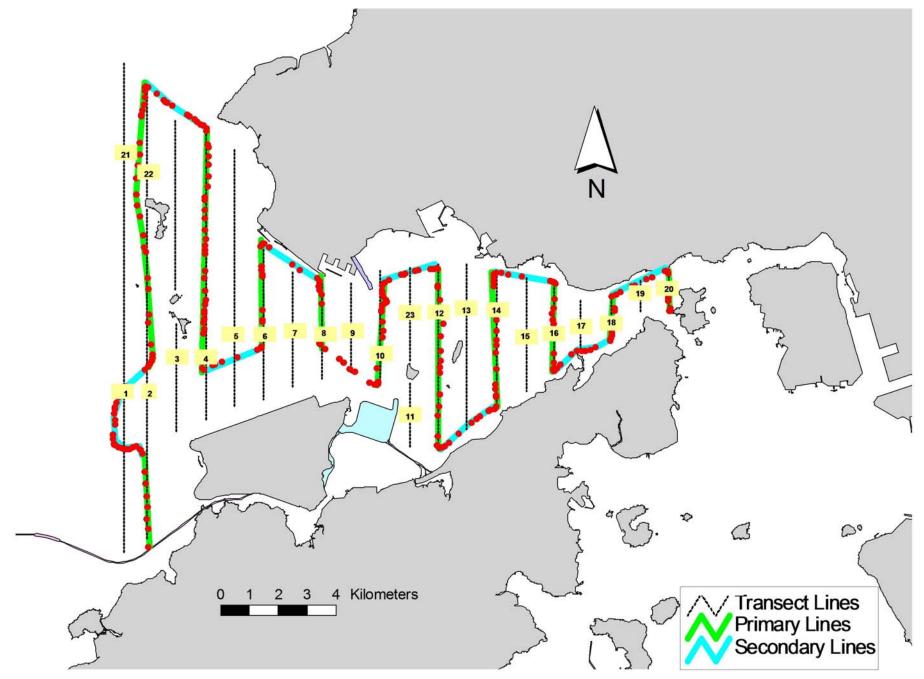


Figure 3. Survey Route on May 22nd, 2017 (from HKLR03 project)

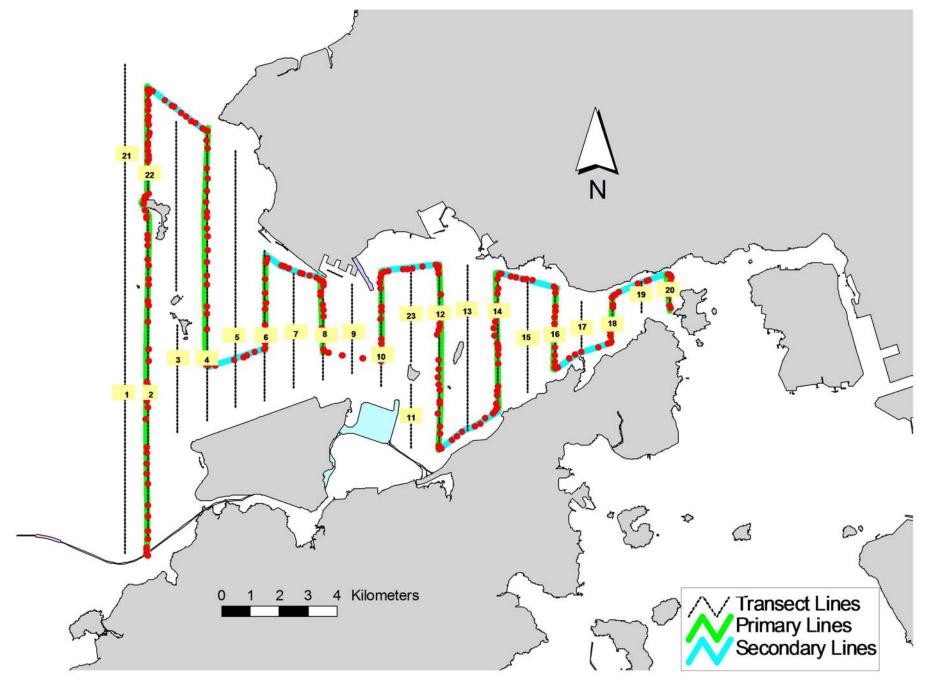


Figure 4. Survey Route on May 24th, 2017 (from HKLR03 project)

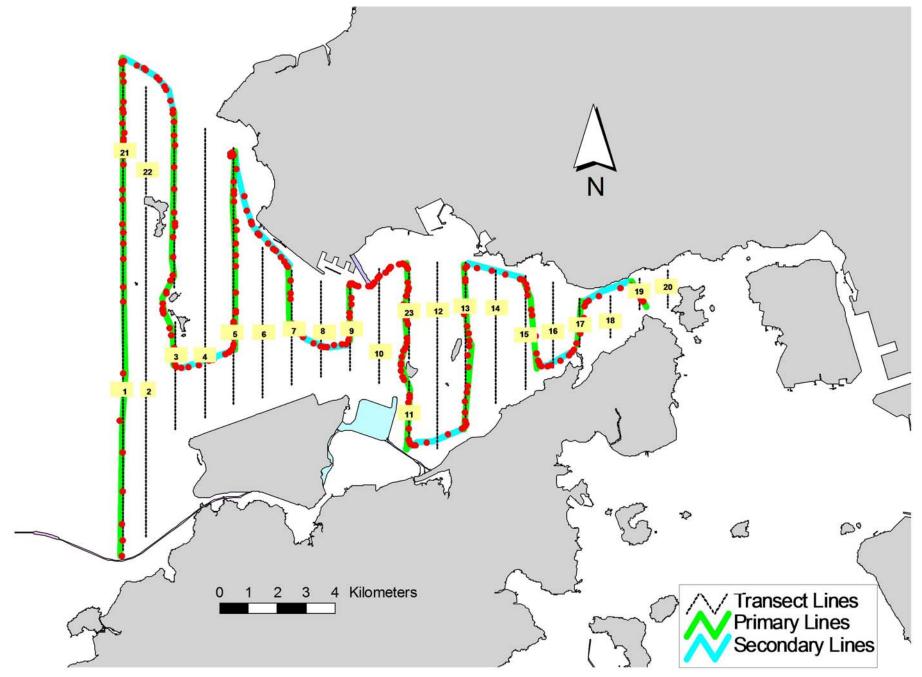


Figure 5. Survey Route on May 26th, 2017 (from HKLR03 project)

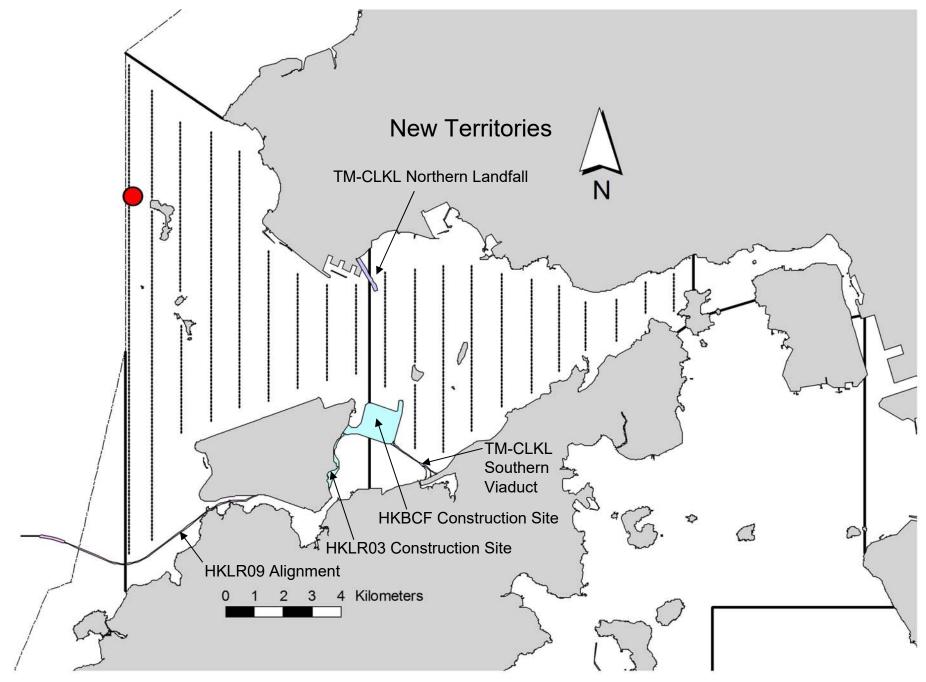


Figure 6. Distribution of Chinese White Dolphin Sightings during May 2017 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (May 2017)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
18-May-17	NW LANTAU	2	9.22	SPRING	STANDARD36826	HKLR	Р
18-May-17	NW LANTAU	3	24.53	SPRING	STANDARD36826	HKLR	Р
18-May-17	NW LANTAU	2	6.90	SPRING	STANDARD36826	HKLR	S
18-May-17	NW LANTAU	3	5.55	SPRING	STANDARD36826	HKLR	S
18-May-17	NE LANTAU	2	2.50	SPRING	STANDARD36826	HKLR	Р
18-May-17	NE LANTAU	3	14.14	SPRING	STANDARD36826	HKLR	Р
18-May-17	NE LANTAU	2	4.76	SPRING	STANDARD36826	HKLR	S
18-May-17	NE LANTAU	3	4.10	SPRING	STANDARD36826	HKLR	S
22-May-17	NE LANTAU	2	2.29	SPRING	STANDARD36826	HKLR	Р
22-May-17	NE LANTAU	3	16.57	SPRING	STANDARD36826	HKLR	Р
22-May-17	NE LANTAU	4	0.89	SPRING	STANDARD36826	HKLR	Р
22-May-17	NE LANTAU	2	4.37	SPRING	STANDARD36826	HKLR	S
22-May-17	NE LANTAU	3	7.08	SPRING	STANDARD36826	HKLR	S
22-May-17	NW LANTAU	2	1.70	SPRING	STANDARD36826	HKLR	Р
22-May-17	NW LANTAU	3	18.57	SPRING	STANDARD36826	HKLR	Р
22-May-17	NW LANTAU	4	5.37	SPRING	STANDARD36826	HKLR	Р
22-May-17	NW LANTAU	2	4.94	SPRING	STANDARD36826	HKLR	S
22-May-17	NW LANTAU	3	6.42	SPRING	STANDARD36826	HKLR	S
24-May-17	NW LANTAU	2	13.73	SPRING	STANDARD33706	HKLR	Р
24-May-17	NW LANTAU	3	12.79	SPRING	STANDARD33706	HKLR	Р
24-May-17	NW LANTAU	2	5.14	SPRING	STANDARD33706	HKLR	S
24-May-17	NW LANTAU	3	2.48	SPRING	STANDARD33706	HKLR	S
24-May-17	NE LANTAU	2	18.50	SPRING	STANDARD33706	HKLR	Р
24-May-17	NE LANTAU	2	10.90	SPRING	STANDARD33706	HKLR	S
26-May-17	NW LANTAU	1	1.90	SPRING	STANDARD36826	HKLR	Р
26-May-17	NW LANTAU	2	30.88	SPRING	STANDARD36826	HKLR	Р
26-May-17	NW LANTAU	3	0.82	SPRING	STANDARD36826	HKLR	Р
26-May-17	NW LANTAU	1	0.80	SPRING	STANDARD36826	HKLR	S
26-May-17	NW LANTAU	2	12.00	SPRING	STANDARD36826	HKLR	S
26-May-17	NE LANTAU	1	5.55	SPRING	STANDARD36826	HKLR	Р
26-May-17	NE LANTAU	2	7.88	SPRING	STANDARD36826	HKLR	Р
26-May-17	NE LANTAU	3	1.60	SPRING	STANDARD36826	HKLR	Р
26-May-17	NE LANTAU	1	3.47	SPRING	STANDARD36826	HKLR	S
26-May-17	NE LANTAU	2	5.00	SPRING	STANDARD36826	HKLR	S

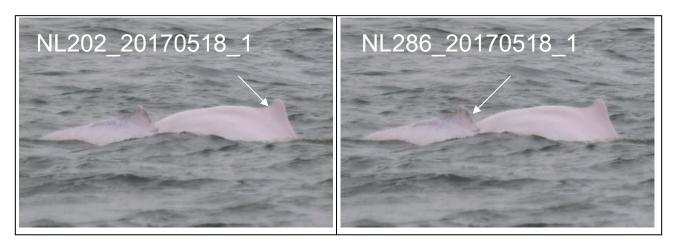
Appendix II. HKLR03 Chinese White Dolphin Sighting Database (May 2017)

(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
18-May-17	1	1057	2	NW LANTAU	3	265	ON	HKLR	827119	804799	SPRING	NONE	Р

Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in May 2017

ID#	DATE	STG#	AREA
NL202	18/05/17	1	NW LANTAU
NL286	18/05/17	1	NW LANTAU



Appendix IV. Photographs of Identified Individual Dolphins in May 2017 (HKLR03)

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	Contractor on possible remedial	2. Notify the Contractor.	days of notification
	findings.		3. Ensure remedial measures properly	2. Implement the agreed proposals
	Increase monitoring frequency to daily.		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	1. Take immediate action to avoid					
sample	2. Inform the SOR and the DEP.	by the ET.	failure in writing.	further exceedance					
	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
2.3.4.5.	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 Parriary 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.			

	EC	SOR	Contractor
parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary; 7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with	by ET and Contractor; Discuss monitoring results and findings with the ET and the Contractor; Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 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; Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly.		 Inform the ER/SOR and confirm notification of the non- compliance in writing; Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures; Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary; Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

Appendix L5 Event and Action Plan on Dolphin Acoustic Behaviour

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

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 2017 (Year)

	Actual Quantities of Inert C&D Materials Generation					Actual Quantities of C&D wastes Generation					Actual Quantities of Recyclables Generation					
Month\Material	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	Plastics
	sub-total	sub-total	sub-total	sub-total	sub-total	sub-total									packaging	
Location																
Density (ton/m³)															7kg/bag	5kg/number
ID no.												(web record)				
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	4.591	0.717	0.474	-	4.118		-	-	-	-	3.521	99.840	-	-	0.140	-
Feb	5.034	1.585	0.166	-	4.869	-	•	-	-	•	-	127.720	-	-	0.091	-
Mar	6.575	0.937	0.498	-	6.077			-	-	-	6.000	87.910	-	-	0.077	-
Apr	5.467	0.791	1.058	-	4.409	-	-	-	-	-	-	130.680	-	5.170	0.063	-
May	4.960	0.537	0.826	-	4.134	-	-	-	-	-	-	171.870	-	-	0.056	-
Jun	-	0.000	-	-	-	-	-	-	-	-			-	-		-
SUB-TOTAL	26.627	4.567	3.021	-	23.606	0.000	-	-	-	-	9.521	618.020	-	5.170	0.427	-
Jul	-	0.000	-	-	-	-	-	-	-	-			-			-
Aug	-	0.000	-	-	-	-	-	-	-	-			-			-
Sep	-	0.000	-	-	-	-	-	-	-	-			-	-		-
Oct	-	0.000	-	-	-	-	-	-	-	-			-	-		-
Nov	-	0.000	-	-	-	-		-	-	-			-	-		-
Dec	-	0.000	-	-	-	-		-	-	-			-	-		-
TOTAL	26.627	4.567	3.021	-	23.606	-	-	-	-	-	9.521	618.020	-	5.170	0.427	-

Notes

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

Appendix N

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

Appendix N1 Cumulative Statistics on Exceedances

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

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 (May 2017)	1	0	0				
Total No. received since project commencement	10	0	0				