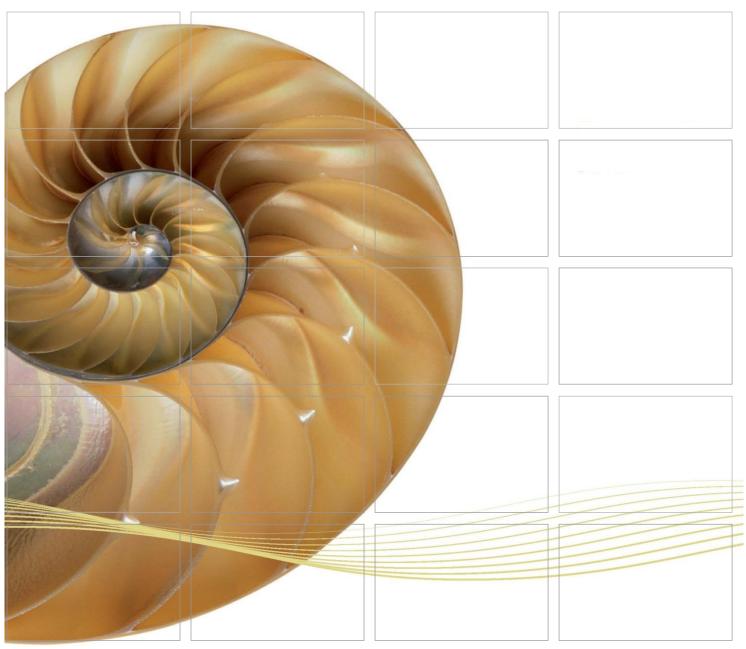
#### REPORT



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

### Thirty-ninth Monthly EM&A Report

09 February 2017

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

www.erm.com





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

#### 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

Thirty-ninth Monthly EM&A Report

Document Code: 0215660\_39th Monthly EM&A\_20170209.doc

Client:		Project N	0:		
Gammo	n	021566	0		
Summary: This document presents the Thirty-ninth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.		Date: 09 February 2017 Approved by: Mr Craig Reid Partner Certified by:			
		Ju	ه		
		Mr Jovy ET Leade			
	Thirty-ninth Monthly EM&A Report	VAR	JT	CAR	09/02/17
Revision	Description	Ву	Checked	Approved	Date
This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.		Pul	ernal	Certificate I	18001:2007 No. OHS 515956 BDD 001 : 2008 No. FS 32515





Ref.: HYDHZMBEEM00\_0\_5038L.17

09 February 2017

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

Attention: Mr. Daniel Ip

Dear Mr. Ip,

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

Contract No. HY/2012/07 TM-CLKL Southern Connection Viaduct Section <u>39<sup>th</sup> Monthly EM&A Report for January 2017 (EP-354/2009/D)</u>

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (Jan. 2017) (ET's ref.: "0215660\_39th Monthly EM&A\_20170209.doc" dated 9 Feb. 2017) certified by the ET Leader and provided to us via e-mail on 9 Feb. 2017.

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

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

Yours sincerely,

Hanftuncheory

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

c.c.

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

Internal: DY, YH, ENPO Site

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Ramboll Environ Hong Kong Limited 英環香港有限公司 21/F, BEA Harbour View Centre, 56 Gloucester Road, Wan Chai, Hong Kong Tel: 852.3465 2888 Fax: 852.3465 2899 www.Ramboll-Environ.com TABLE OF CONTENTS

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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 Thirty-ninth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 January 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	11 sessions
Impact Dolphin Monitoring	2 sessions
Joint Environmental Site Inspection	4 sessions

# Breaches of Action and Limit Levels for Air Quality

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

# Breaches of Action and Limit Levels for Noise

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

# Breaches of Action and Limit Levels for Water Quality

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

# Impact Dolphin Monitoring

During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on 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 January 2017 during the exclusion zone monitoring.

#### Environmental Complaints, Non-compliance & Summons

There was one (1) complaint received from EPD on 13 January 2017 regarding constructional vessels and silt curtain found within the boundary of Brothers Marine Park in the reporting period. Upon investigation, the complaint is considered not related to this Project.

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 February 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 February 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

1

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

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

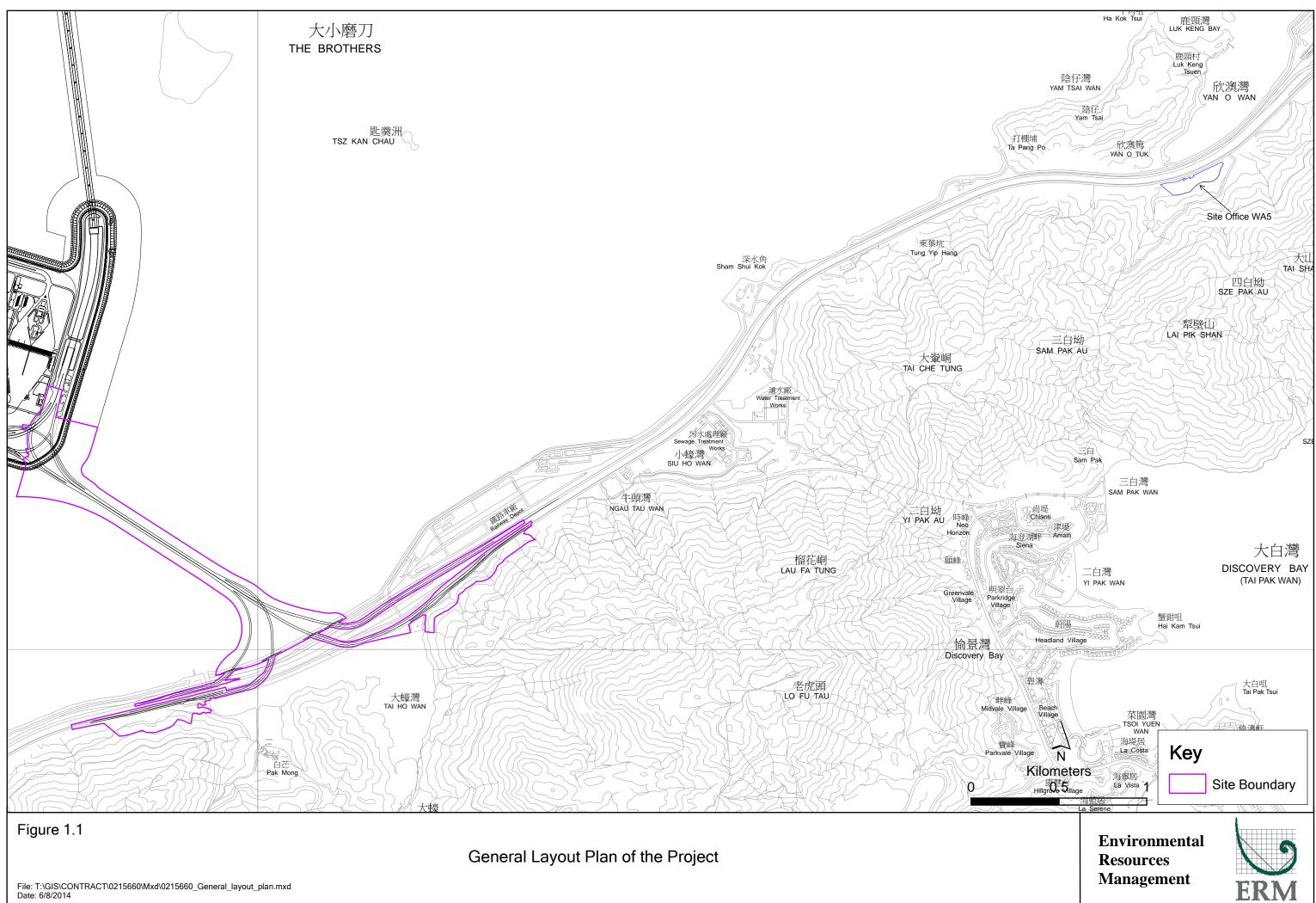
The general layout plan of the Contract components is presented in *Figures 1.1* & 1.2a to l.

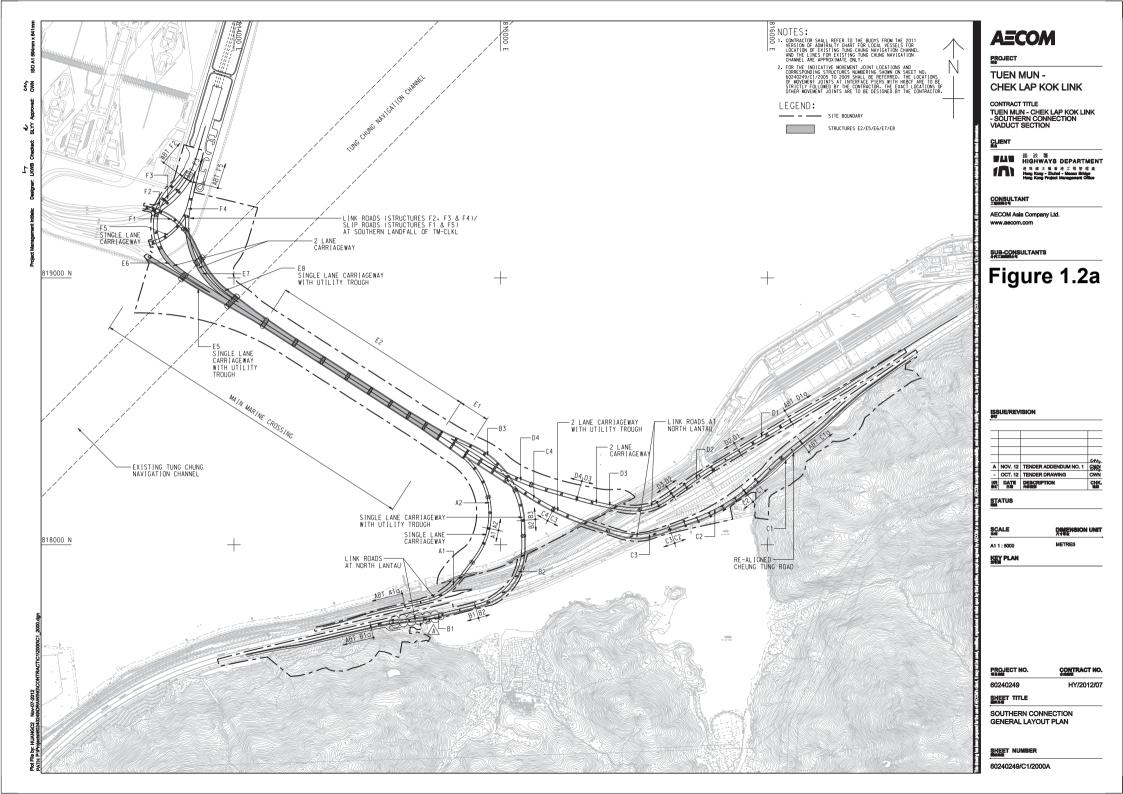
#### 1.2 SCOPE OF REPORT

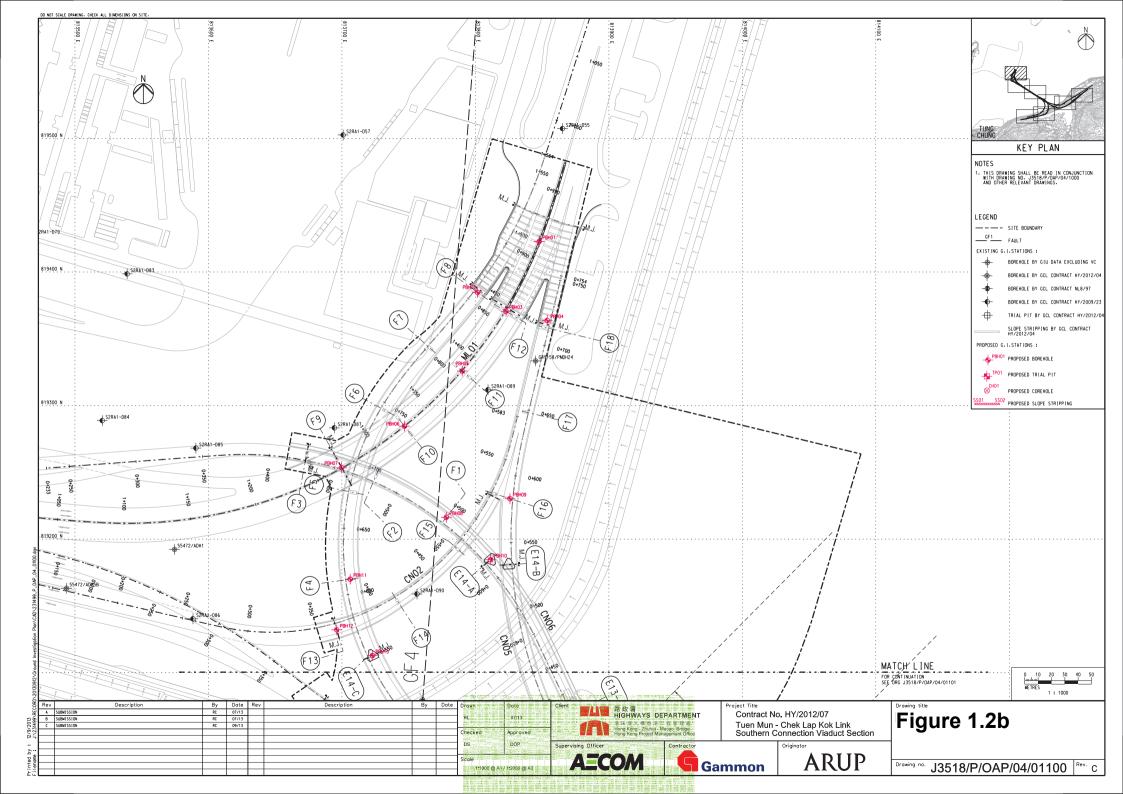
This is the Thirty-ninth Monthly EM&A Report under the *Contract No. HY*/2012/07 *Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.* This report presents a summary of the environmental monitoring and audit works in January 2017.

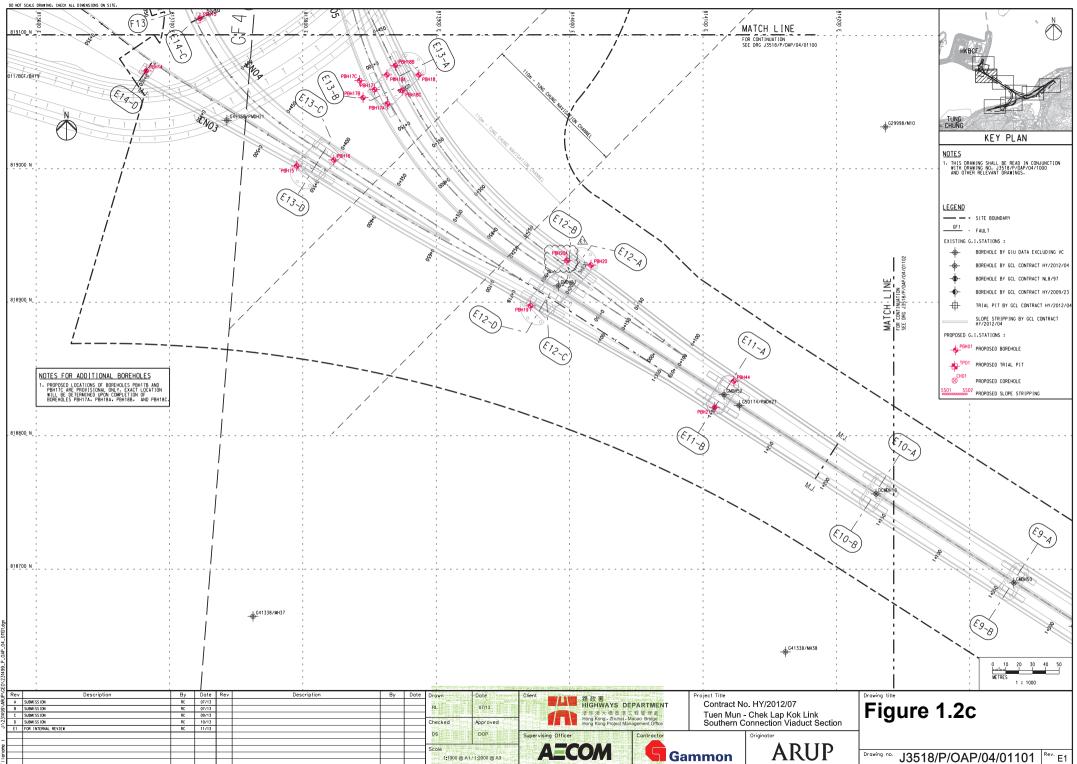
#### 1.3 ORGANIZATION STRUCTURE

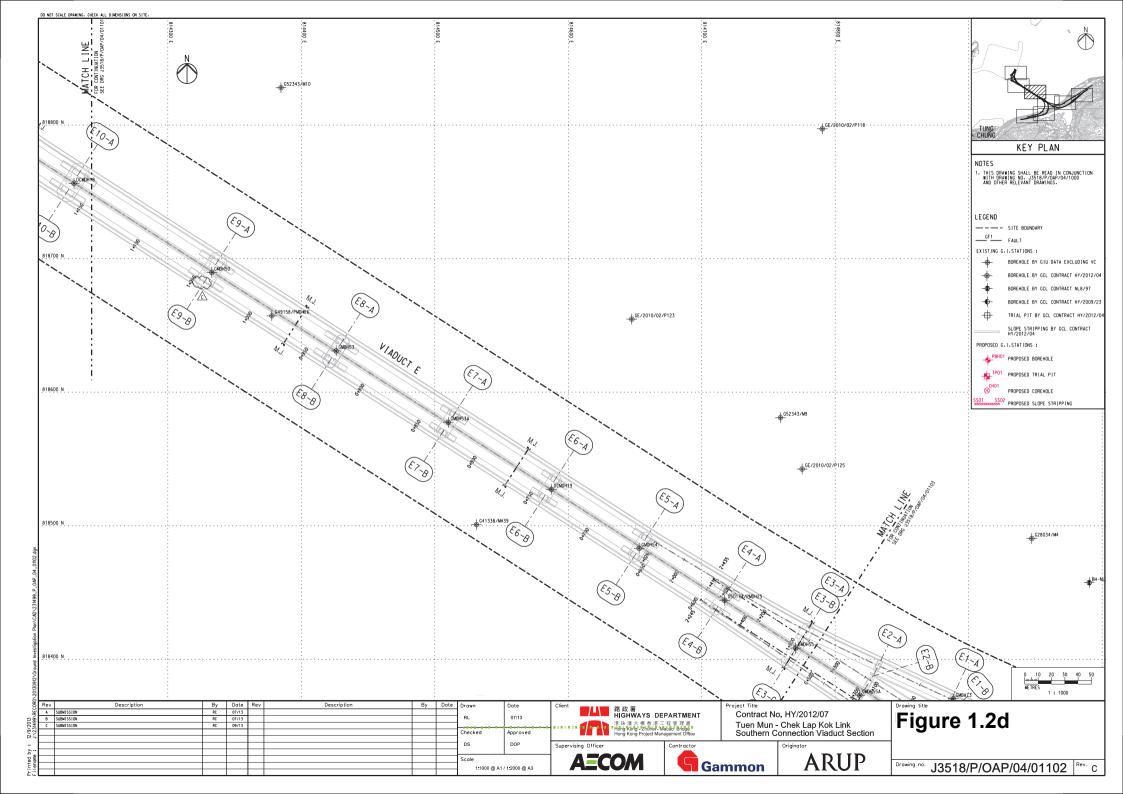
The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.



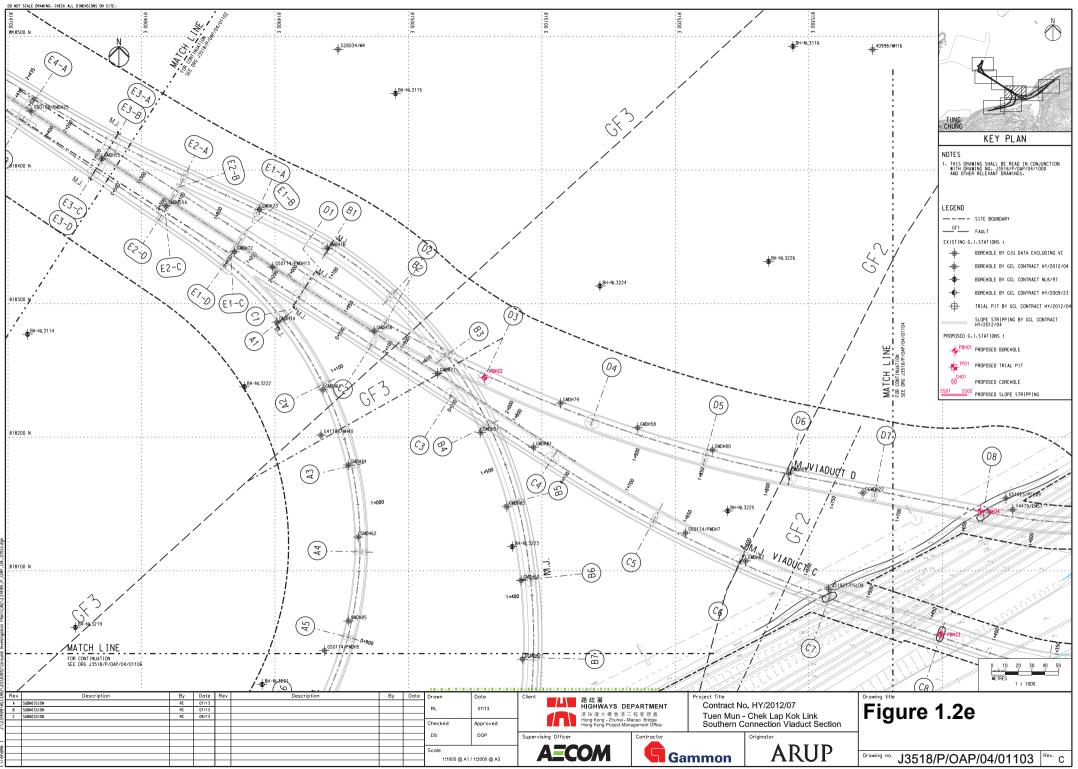


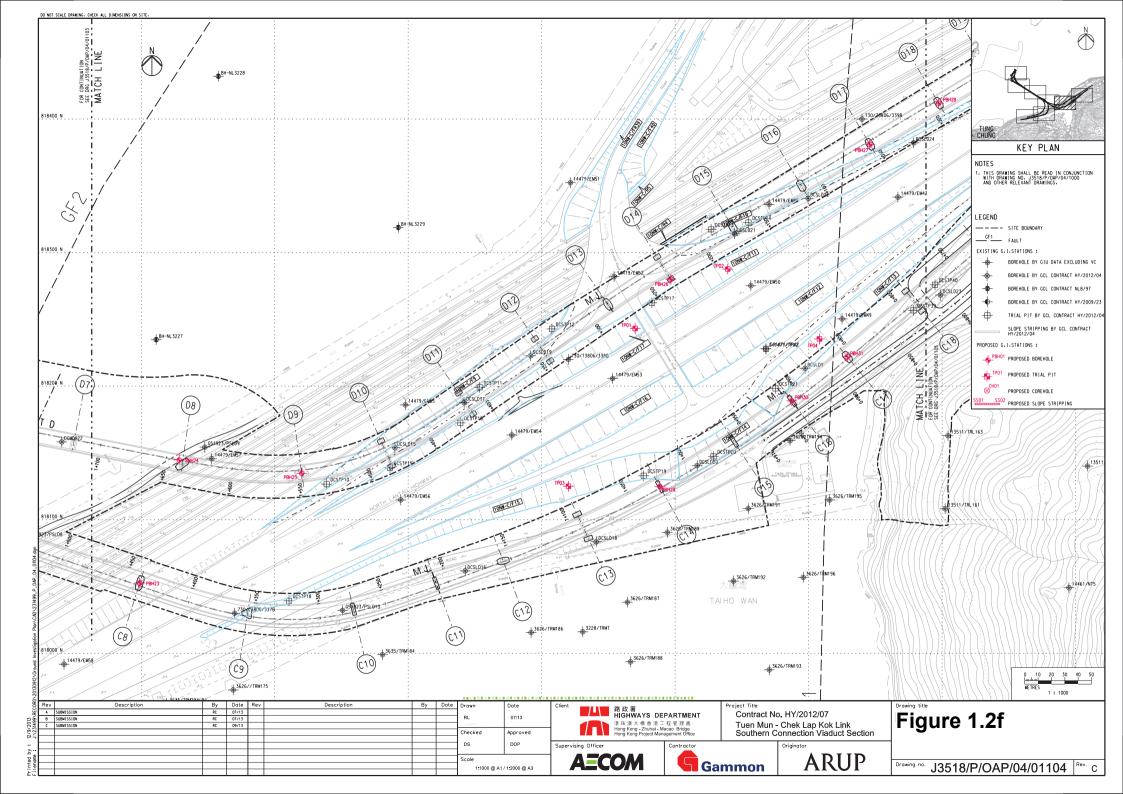


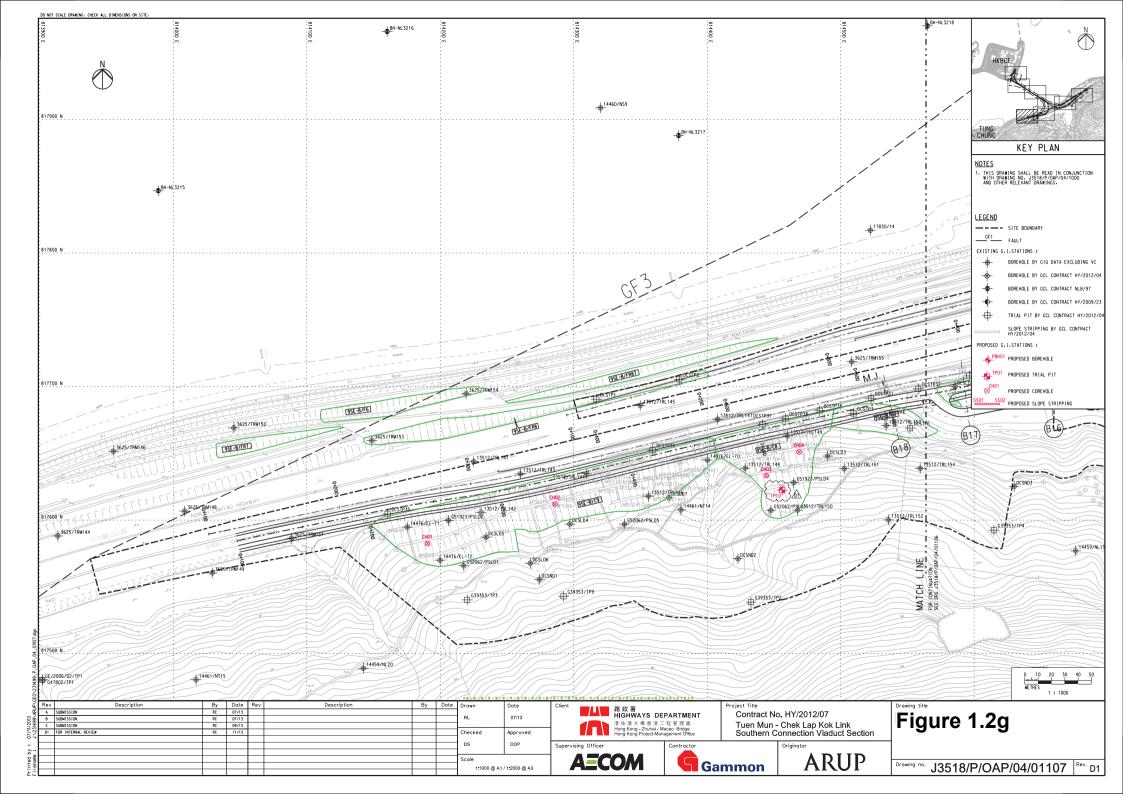


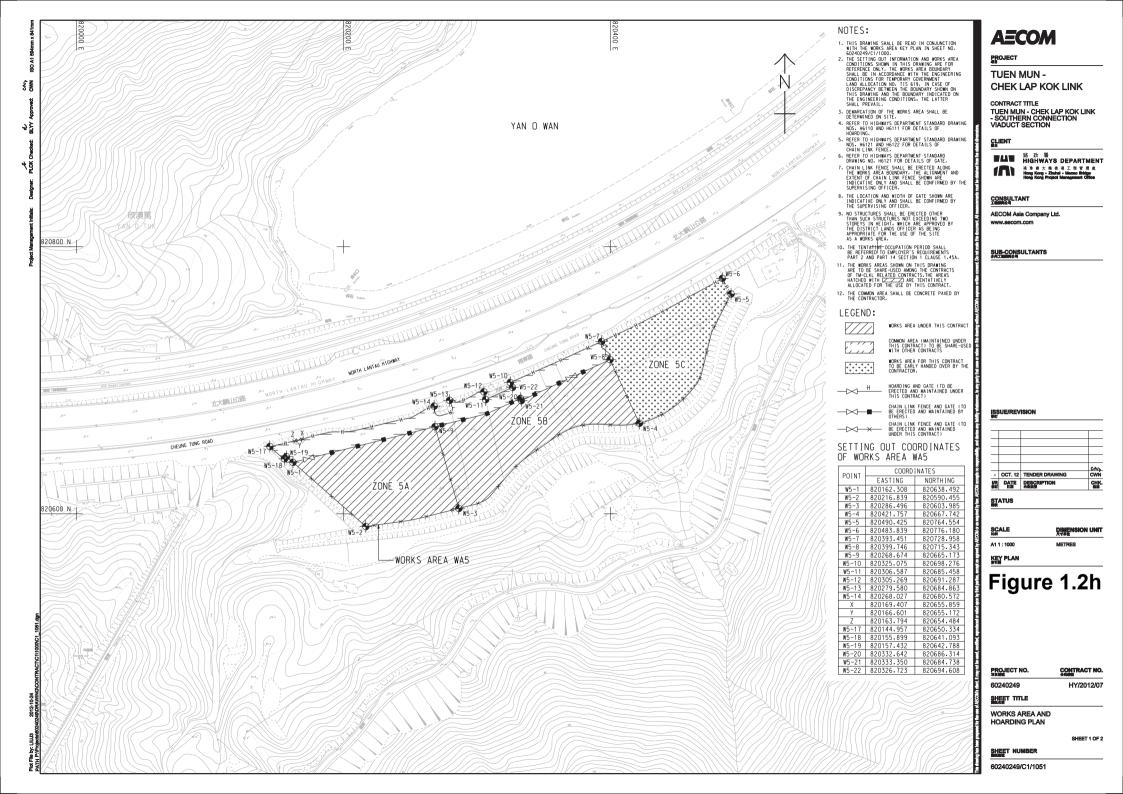


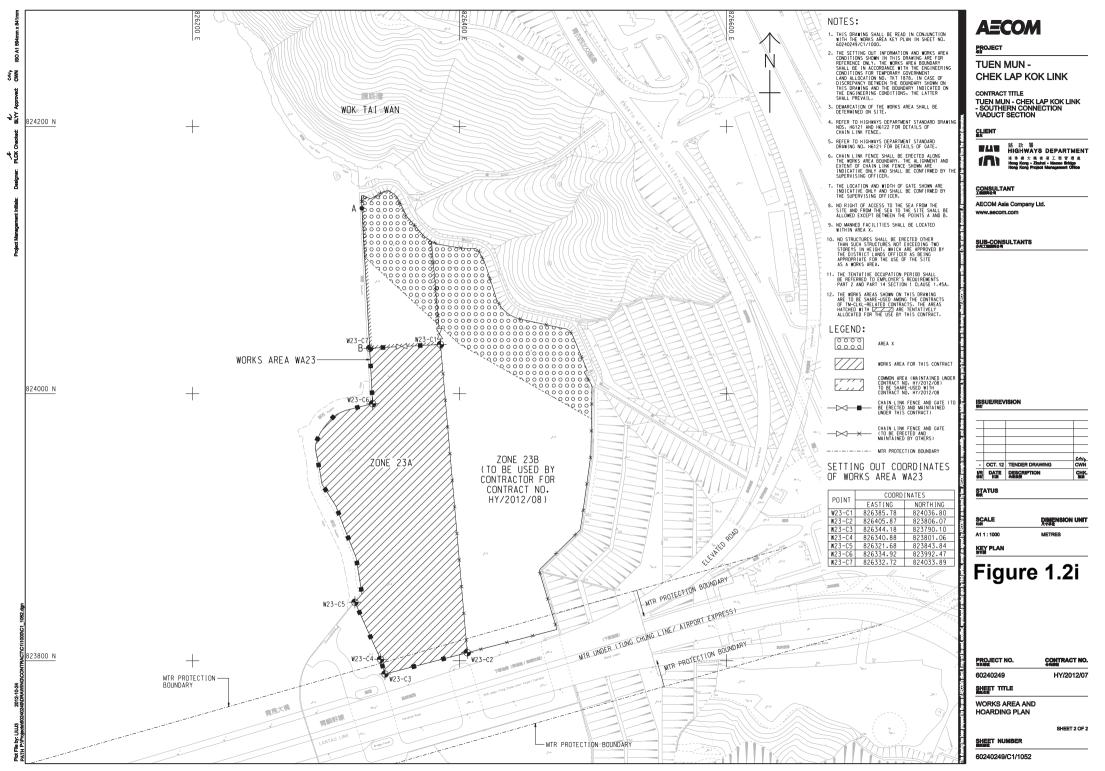


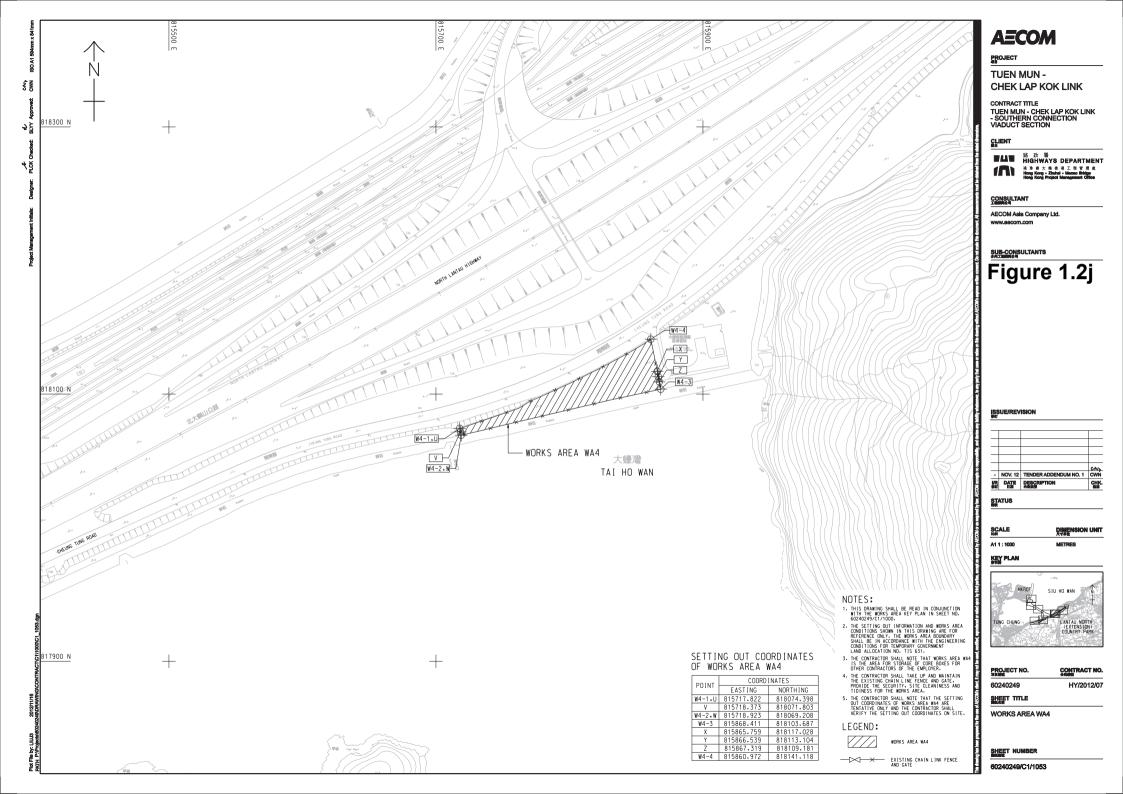


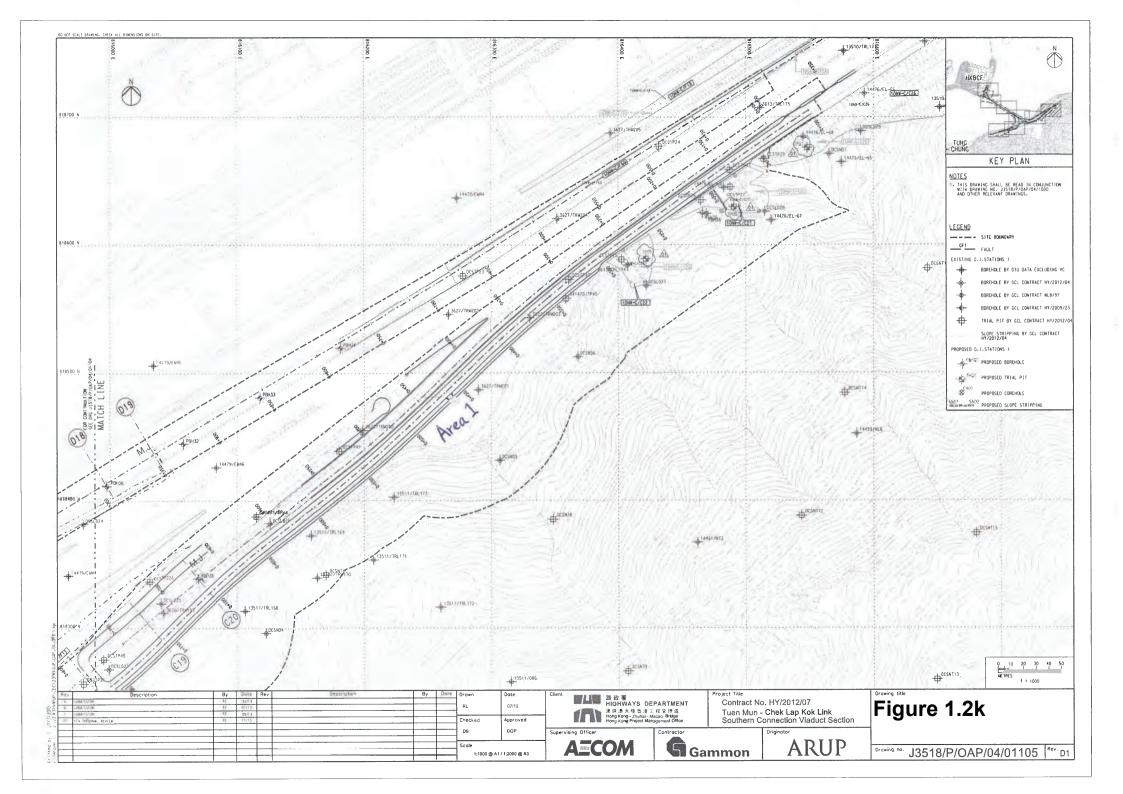


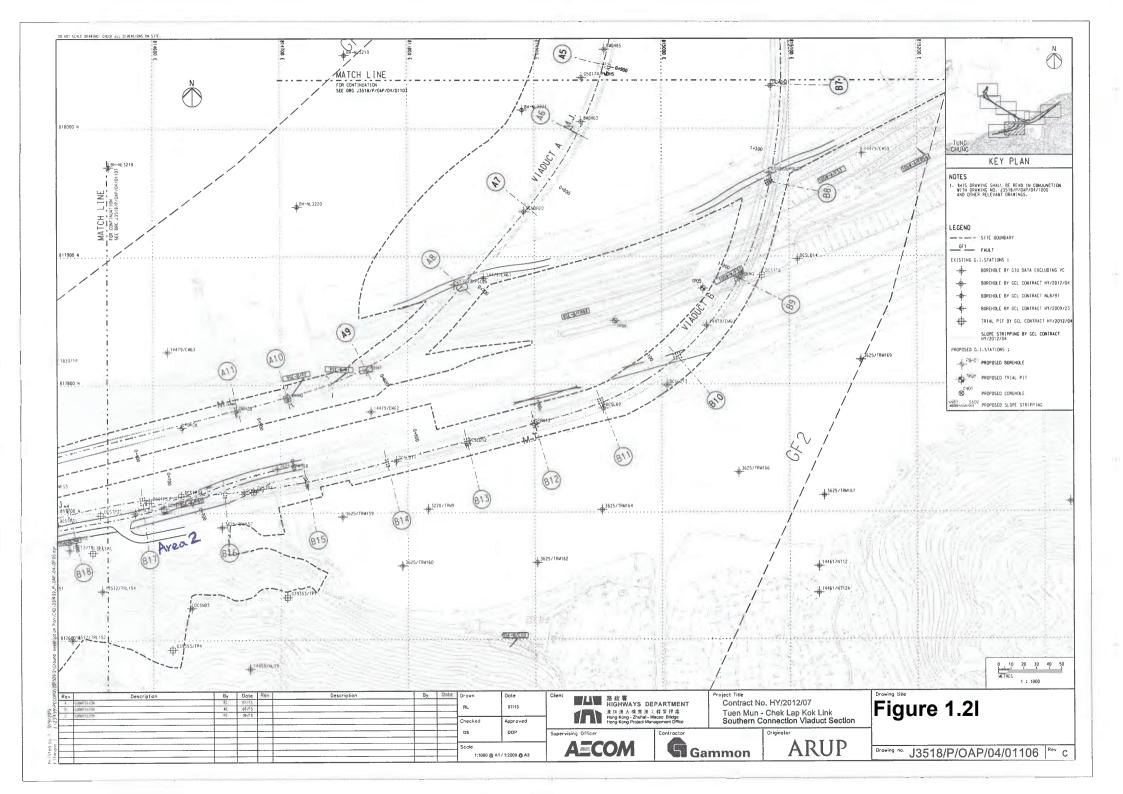












### Table 1.1Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
HyD (Highways Department)	Project Coordinator	Stanley Chan	2762 3406	3188 6614
1 /	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
Construction Emiliea)	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.

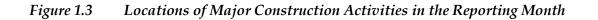
#### Land-based Works

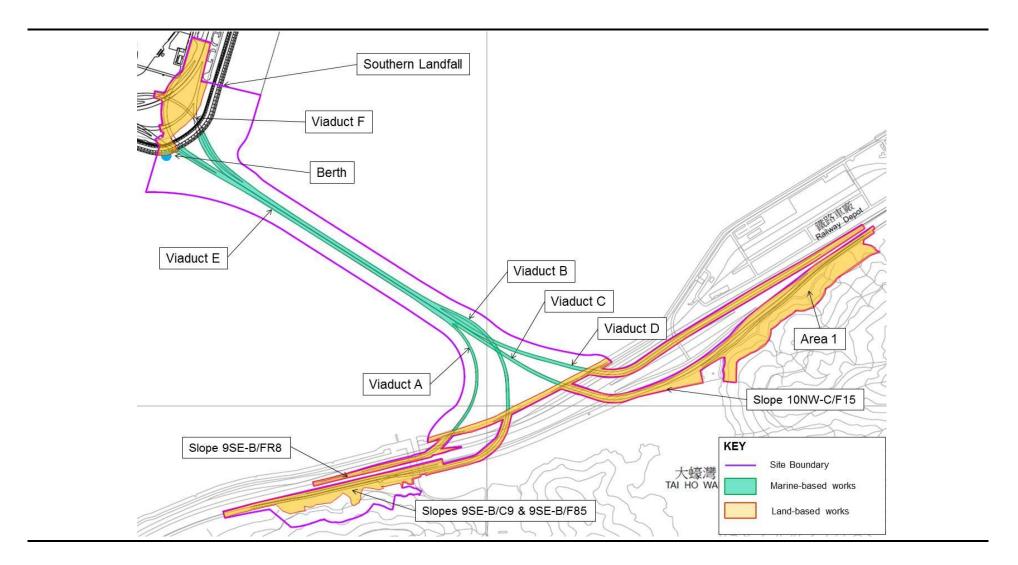
- Pier construction;
- Re-alignment of Cheung Tung Road;
- Road works along North Lantau Highway;

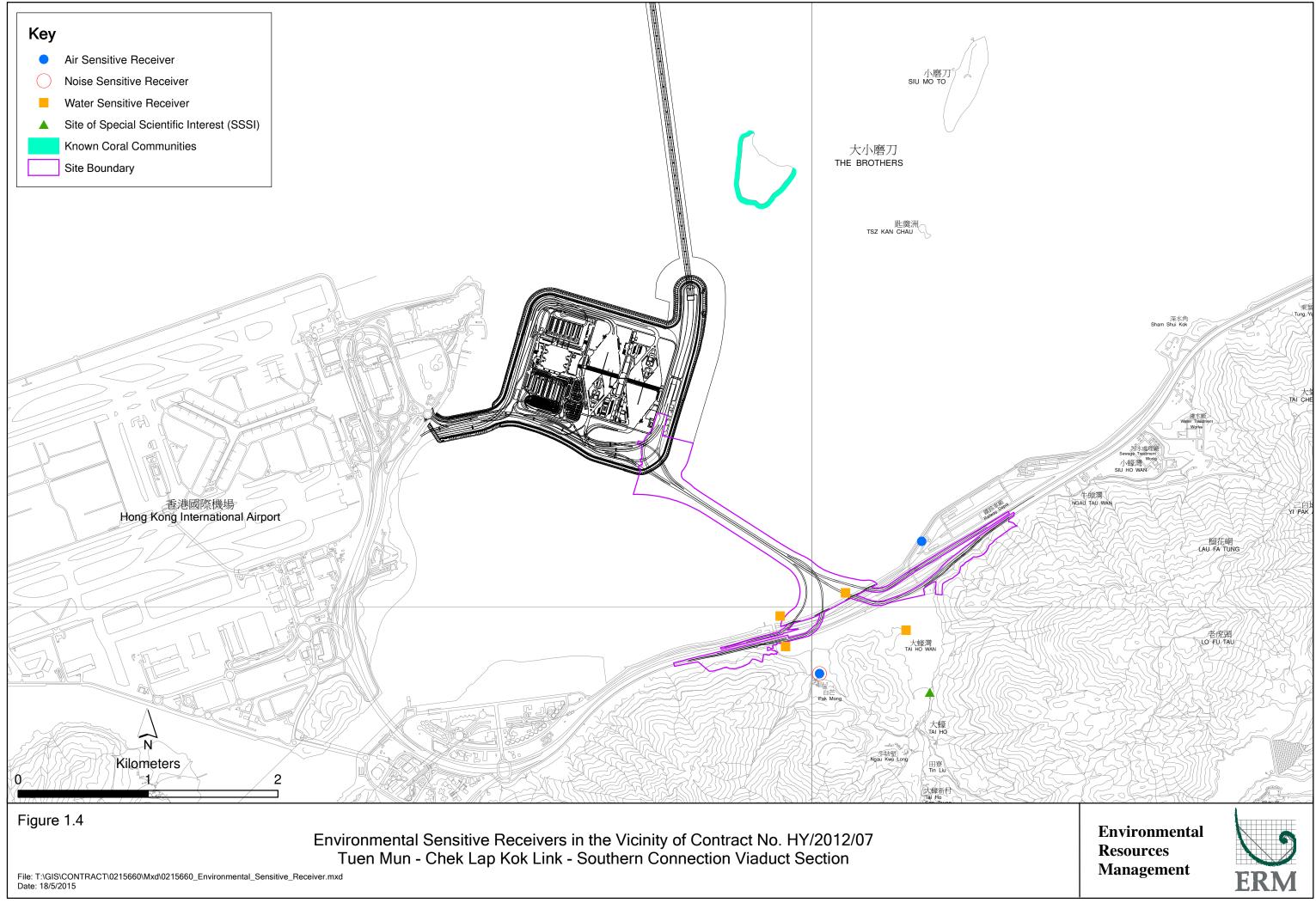
- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

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*.







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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

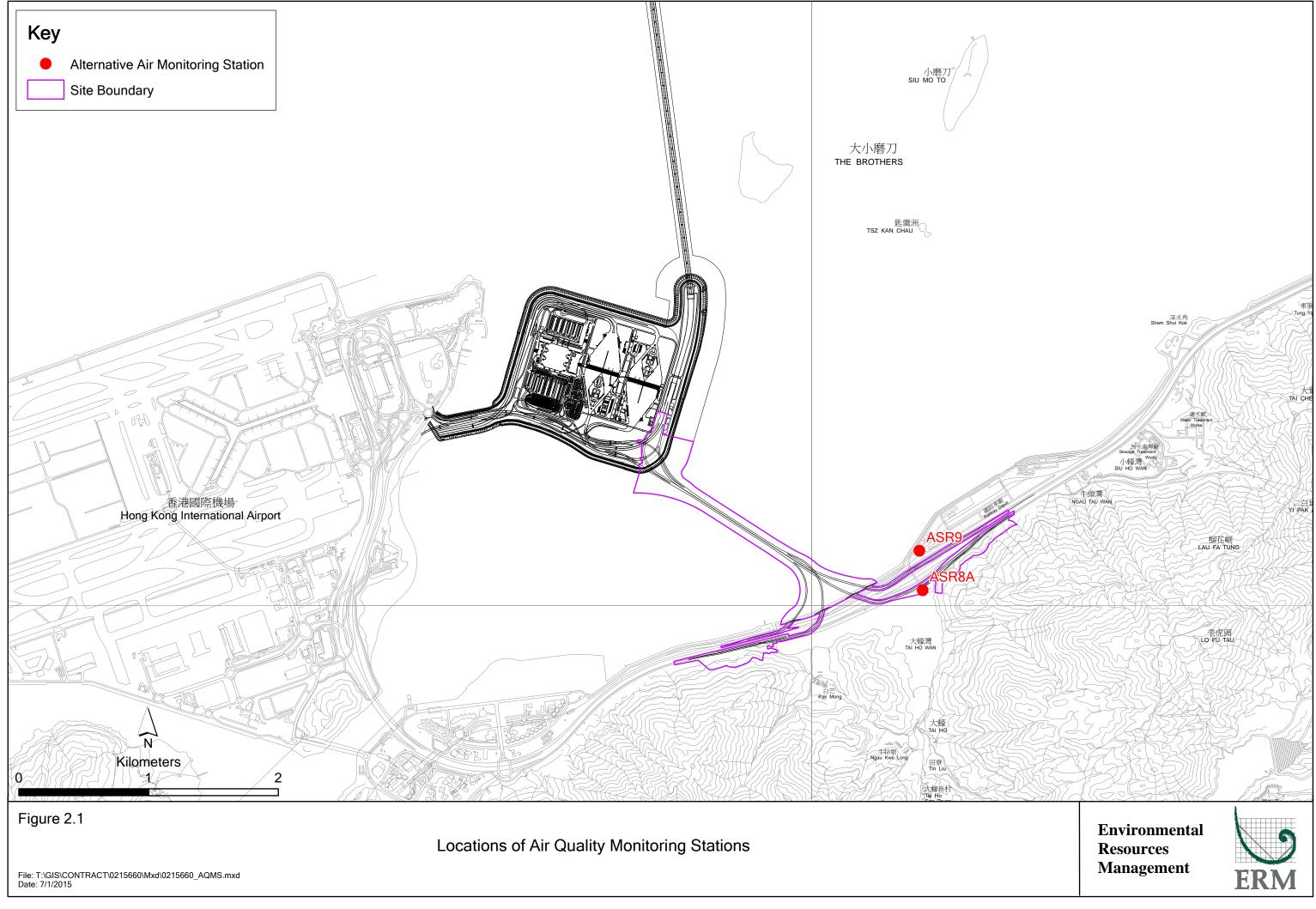
#### 2.1.1 Monitoring Requirements and Equipment

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 2.1Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location	Description	Monitoring Dates
ASR 9	MTR Depot	On the ground nearby MTR Depot Entrance	3, 9, 12, 18, 24 and 27 January 2017
ASR 8A	Area 4	On ground at the works area, Area 4	3, 9, 12, 18, 24 and 27 January 2017

High Volume Samplers (HVSs) were used for carried out 1-hour and 24-hour TSP monitoring on 3, 9, 12, 18, 24 and 27 January 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 anemometer was deployed at Area 4 for logging wind speed and wind direction. Copies of the calibration certificates for the equipment are presented in *Appendix E*. Details of the deployed equipment are given in *Table 2.2*.



Equipment	Brand and Model
High Volume Sampler Tisch Environmental Mass Flow Co	
(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 January 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 2.3Summary 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	107	58-160	394	500
ASR 9	165	77-245	393	500

#### Table 2.4Summary 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	62	50-81	178	260
ASR 9	85	72-96	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*.

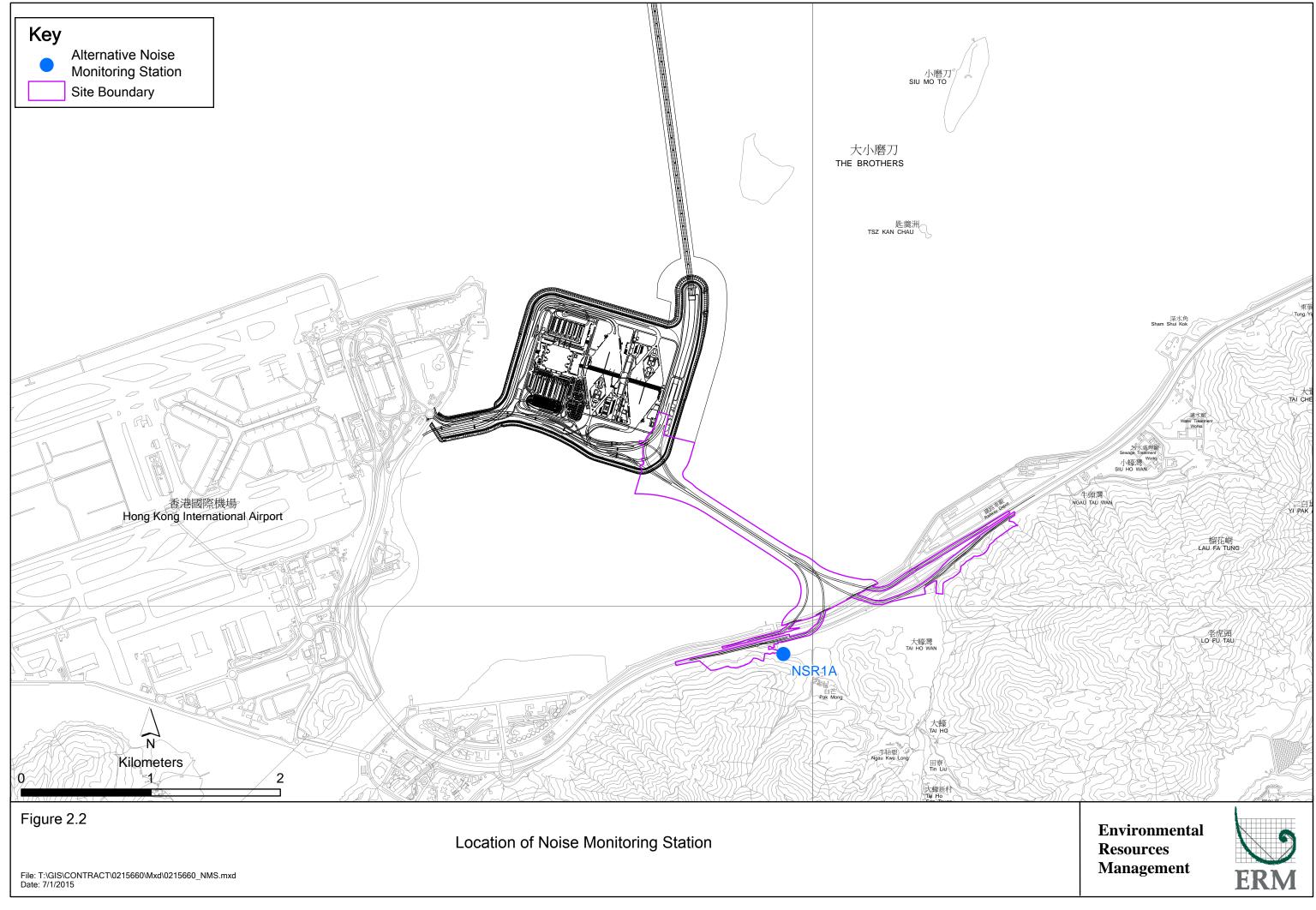
Noise monitoring was performed on 3, 9, 12, 18, 24 and 27 January 2017 using sound level meter at the designated monitoring station NSR1A (*Figure 2.2; Table 2.5*) in accordance with the requirements stipulated in the Updated EM&A Manual. Acoustic calibrator was deployed to check the sound level meters 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 2.5Location 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). Leq, L <sub>10</sub> and L <sub>90</sub> would be recorded.	At least once per week	3, 9, 12, 18, 24 and 27 January 2017

#### Table 2.6Noise 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),
	Leq (30mins)	Leq (30mins)	L <sub>eq (30mins)</sub>
NSR 1A	60	59-61	75

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

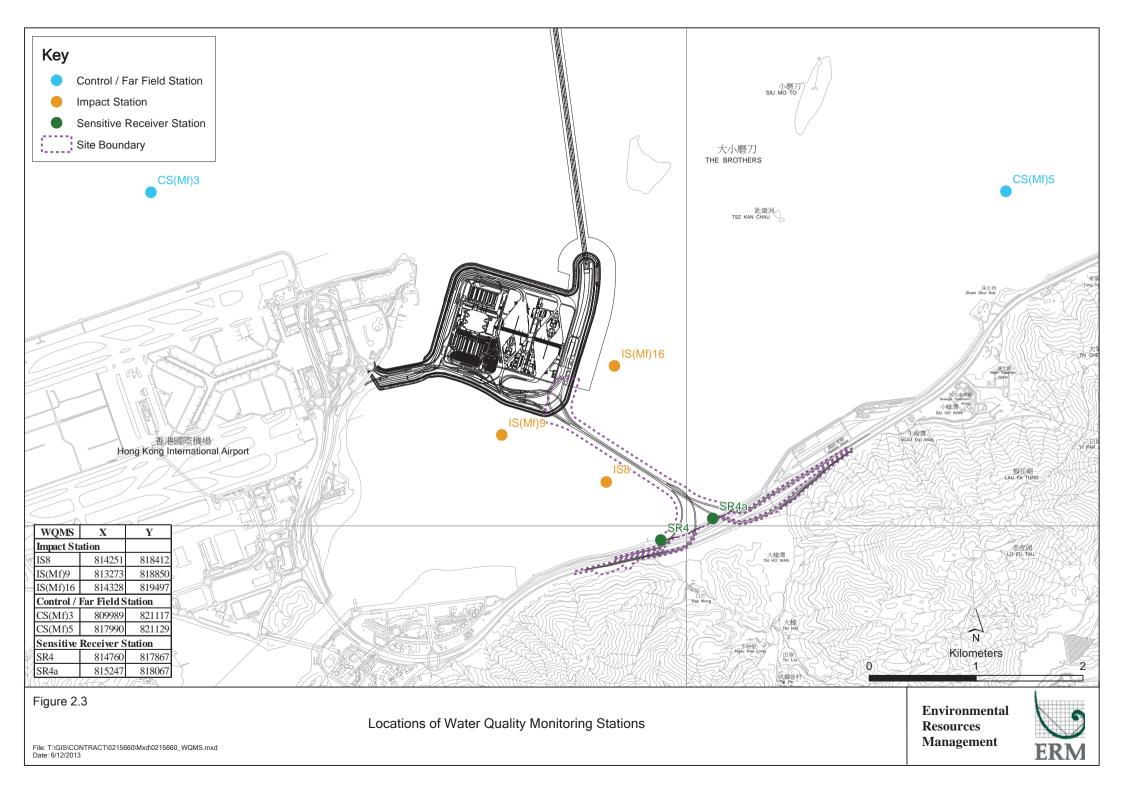
Major noise sources during the noise monitoring included noise from crane operation and excavation works, nearby traffic noise and aircraft noise.

#### 2.3 WATER QUALITY MONITORING

#### 2.3.1 Monitoring Requirements and Equipment

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

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



# Table 2.8Locations of Impact Water Quality Monitoring Stations and its<br/>Corresponding Monitoring Requirements

Station ID	Туре	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			<ul> <li>pH (pH unit)</li> </ul>	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			<ul> <li>Salinity (ppt)</li> </ul>	flood and	the water depth is
	construction site)			<ul> <li>Dissolved</li> </ul>	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	809989	821117			
CS(Mf)5	Control Station	817990	821129			

\*Notes:

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

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

#### Table 2.9Water Quality Monitoring Equipment

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

### 2.3.2 Monitoring Schedule for the Reporting Month

The schedule for water quality monitoring in January 2017 is provided in *Appendix F*.

### 2.3.3 Results and Observations

In total of 11 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*. The water quality monitoring on 28 and 31 January 2017 were cancelled due to suspension of marine works.

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.

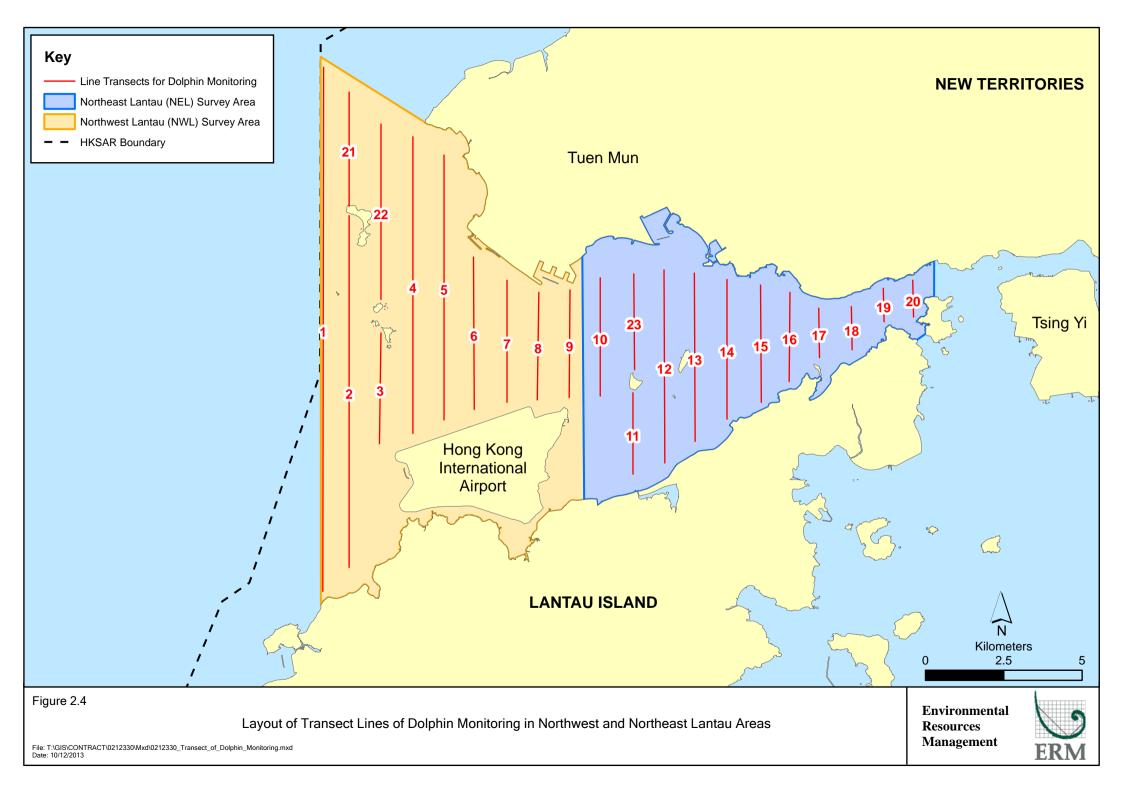
Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC
	Geo One Phottix
Camera	Nikon D90 300m 2.8D fixed focus
	Nikon D90 20-300m zoom lens
Laser Binoculars	Infinitor LRF 1000
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules
Vessel for Monitoring	65 foot single engine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



	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				

### Table 2.11 Impact Dolphin Monitoring Line Transect Co-ordinates

### 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 10, 12, 16 and 20 January 2017 (*Appendix F*).

### 2.4.7 Results and Observations

A total of 294.60 km of survey effort was collected, with 97.7% 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 January 2017. Among the two areas, 112.49 km and 182.11 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 211.72 km and 82.88 km, respectively. The survey efforts are summarized in *Appendix K*.

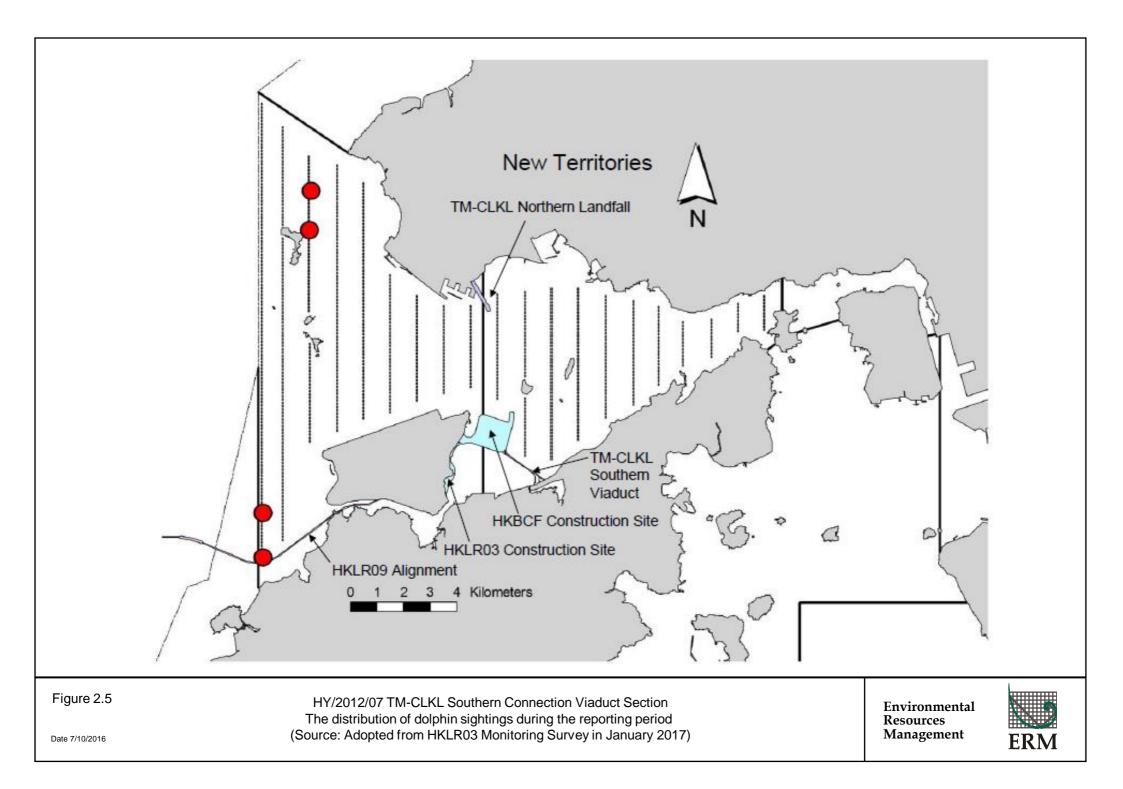
Four (4) groups of 13 Chinese White Dolphins were sighted during the two sets of monitoring surveys in January 2017. All four (4) dolphin sightings were made in NWL, while none was sighted in NEL. During the surveys in January 2017, all four sightings were made on primary lines during on-effort search. None of the dolphin groups was associated with operating fishing vessel and none of the dolphin groups were 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 January 2017 are shown in *Tables 2.12 & 2.13*.

		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: Jan 10th / 12th	0.0	0.0
INEL	Set 2: Jan 16th / 20th	0.0	0.0
NWL	Set 1: Jan 10th / 12th	0.0	0.0
INVVL	Set 2: Jan 16th / 20th	6.3	20.4

### Table 2.12Individual Survey Event Encounter Rates

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



### Table 2.13Monthly Average Encounter Rates

	(no. of on-effort o	<b>rate (STG)</b> dolphin sightings survey effort)	(no. of dolphins	<b>rate (ANI)</b> from all on-effort 00 km of survey ort)
	Primary Lines Only	Both Primary and Secondary	Primary Lines Only	Both Primary and Secondary
		Lines		Lines
Northeast Lantau	0.0	0.0	0.0	0.0
Northwest Lantau	3.0	2.3	9.7	7.4

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in January 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 Chinese White Dolphins was noticeable from general observations. Due to monthly variation in dolphin occurrence within the Study Area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of the TM-CLKL Southern Connection Viaduct Section in the quarterly EM&A reports, 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 January 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, four (4) site inspections were carried out on 4, 11, 18 and 26 January 2017.

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

Inspection Date	Environmental Observations	Recommendations/ Remarks
04 January 2017	<ul> <li>Viaduct E (E13CD)</li> <li>Chemical container was not placed in drip tray.</li> <li>Southern Landfall (Portion A)</li> <li>Chemical container was not placed in drip tray.</li> </ul>	the chemical containers and placed them in drip tray.
11 January 2017	<ul> <li>Viaduct B (B16)</li> <li>Drip tray was not well-plugged to avoid water runoff.</li> <li>Tidiness should be maintained at site.</li> <li>Viaduct C (C16)</li> <li>Chemical container was not placed in drip tray.</li> </ul>	<ul> <li>Viaduct B (B16)</li> <li>The Contractor was reminded to plug the drip tray.</li> <li>The Contractor was reminded to keep tidiness at site.</li> </ul>
18 January 2017	<ul> <li>Viaduct E (E5)</li> <li>Chemical containers were not placed in drip tray.</li> <li>Southern Landfall (Portion A)</li> <li>Labelling of Mp sediment should be displayed properly.</li> </ul>	<ul> <li>Viaduct E (E5)</li> <li>The Contractor was reminded to remove the chemical containers and placed them in drip tray.</li> <li>Southern Landfall (Portion A)</li> <li>The Contractor was reminded to display the label properly.</li> </ul>
26 January 2017	<ul><li>Viaduct E (E12)</li><li>Better housekeeping should be maintained.</li></ul>	<ul> <li>Viaduct E (E12)</li> <li>The Contractor was reminded to keep tidy of the site.</li> </ul>

# Table 2.14Specific Observations Identified during the Weekly Site Inspections in this<br/>Reporting Month

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

### 2.6 WASTE MANAGEMENT STATUS

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

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

Month/Year	Inert C&D	Imported	Inert	Non-inert	Recyclable	Chemical	Marine Se	diment (m <sup>3</sup> )
	Materials <sup>(a)</sup> (m <sup>3</sup> )	Fill (m³)	Construction Waste Re- used (m <sup>3</sup> )	Construction Waste <sup>(b)</sup> (kg)	Materials <sup>(c)</sup> (kg)	Wastes (kg)	Category L	Category M (M <sub>p</sub> & M <sub>f</sub> )
January 2017	4,118	0	474	99,840	140	3,400	0	0

(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 The Contractor was also reminded to properly maintain the site and wastes. 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.

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-RS1045-16	14 Oct 2016	13 Apr 2017	GCL	For Broad Permit
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-RS1159-16	24 Nov 2016	28 Feb 2017	GCL	Broad Permit for Segment Launching at Land Portion
Construction Noise Permit for night works and works in general holidays	GW-RS1044-16	14 Oct 2016	13 Apr 2017	GCL	Pre-casted pile cap shell installation at E8-E13
Marine Dumping Permit	EP-MD-17-154	01 Jan 2017	31 Jan 2017	GCL	For dumping Type I (Dedicated Site) and Type II sediment
Marine Dumping Permit	EP-MD-17-153	01 Jan 2017	30 Jun 2017	GCL	For dumping Type I sediment

### Table 2.16Summary of Environmental Licensing and Permit Status

ENVIRONMENTAL RESOURCES MANAGEMENT

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### 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*.

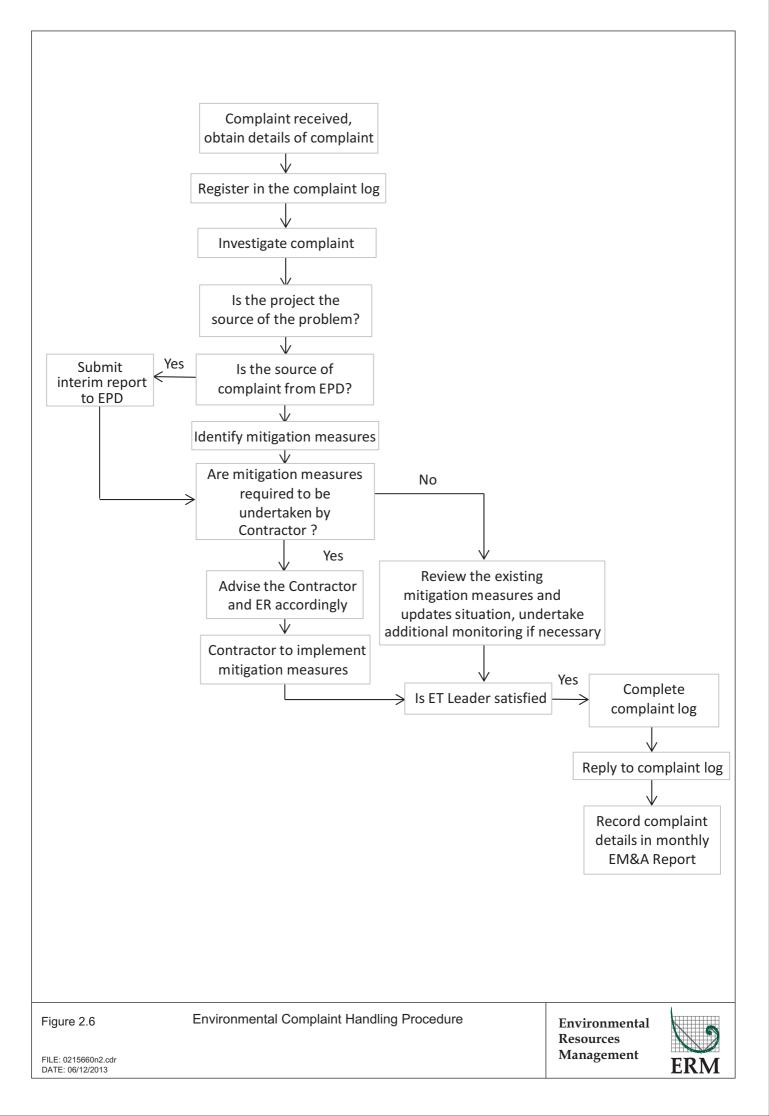
### 2.10 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in Figure 2.6.

There was one (1) complaint received from EPD on 13 January 2017 regarding constructional vessels and silt curtain found within the boundary of Brothers Marine Park in the reporting period. Upon investigation, the complaint is considered not related to this Project. Detailed investigation report is presented in *Appendix N*.

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*.



### 3.1 CONSTRUCTION PROGRAMME FOR THE COMING MONTH

As informed by the Contractor, the major works for this Contract in February 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 February 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 February 2017 are provided in *Appendix F*.

### **CONCLUSIONS AND RECOMMENDATIONS**

### 4.1 CONCLUSIONS

4

This Thirty-ninth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 January 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.

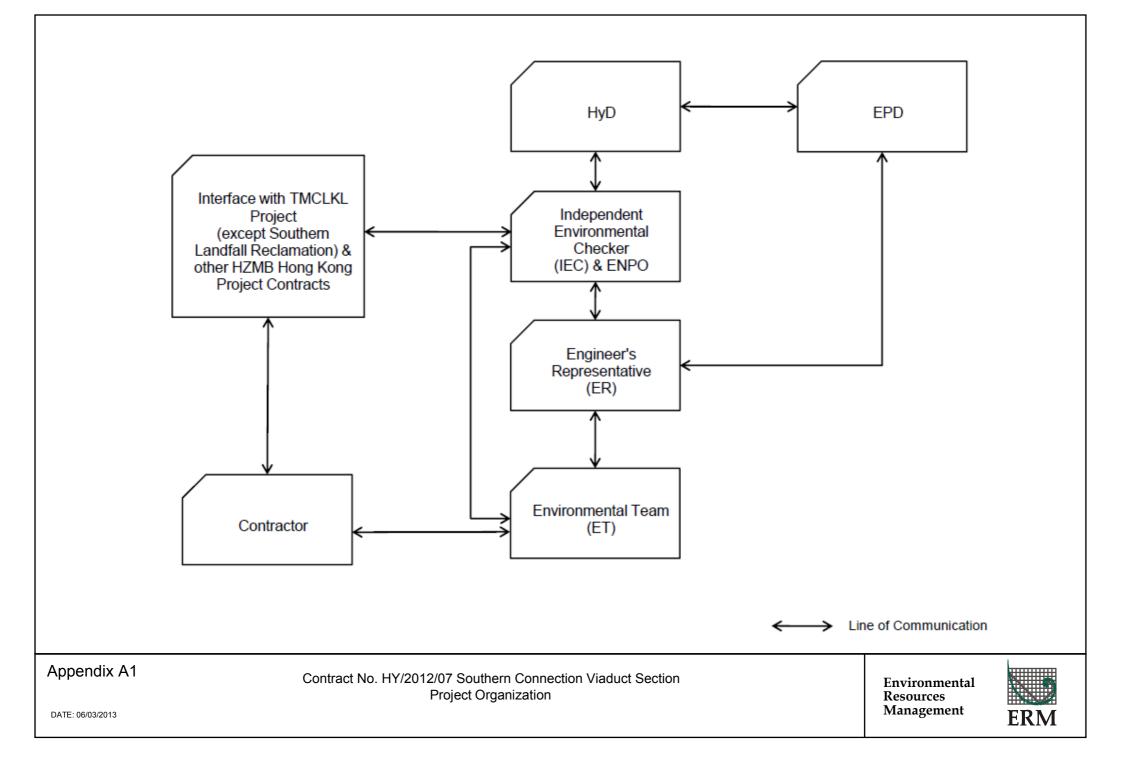
Four (4) groups of 13 Chinese White Dolphins were sighted during the two sets of monitoring surveys in January 2017. During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations.

Environmental site inspection was carried out four (4) times in January 2017. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

There was one (1) complaint received from EPD on 13 January 2017 regarding constructional vessels and silt curtain found within the boundary of Brothers Marine Park in the reporting period. Upon investigation, the complaint is considered not related to this Project. 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

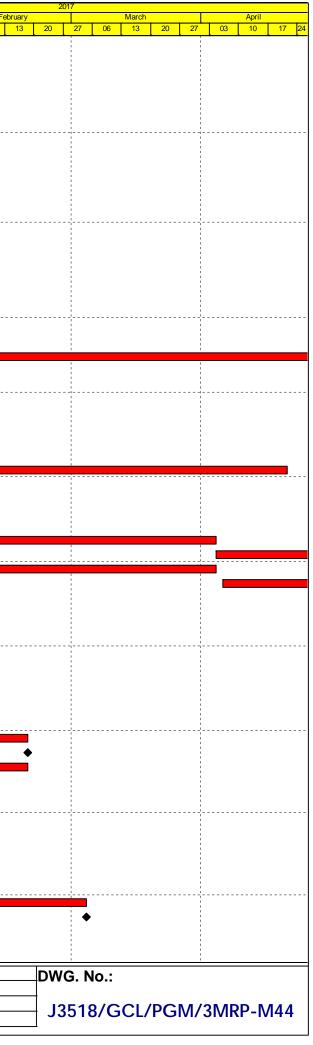
Project Organization for Environmental Works



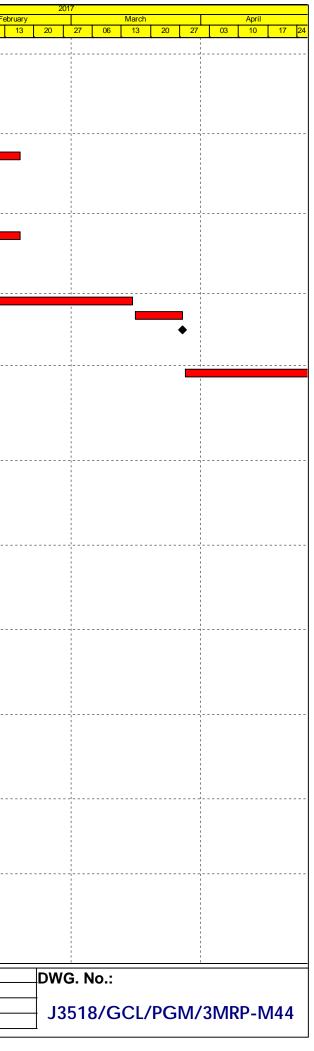
Appendix B

Three-Month Rolling Construction Programme

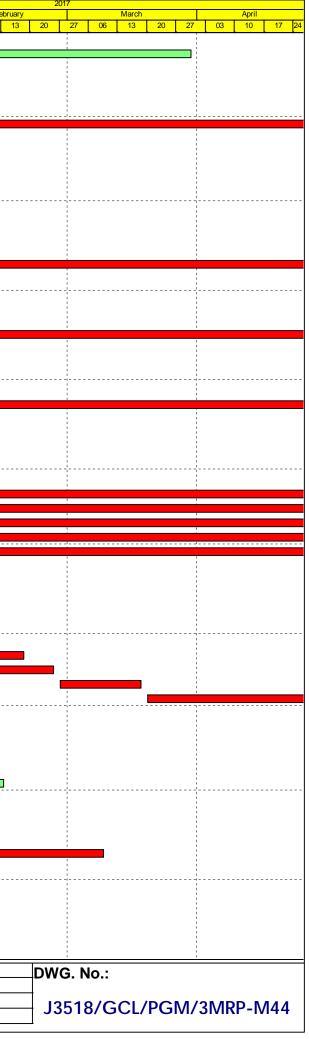
Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Physical % Complete	2016			
		Durn.	Start	Dum.	r inish				1 · -	9 26	January 02 09 16	23 30	Feb 06
Contract Mil	estones												
Key Dates for	Completion												
Stage of the	Works												
Completion	Date												
General													
KD03	KD3 - Stage 3: TCSS Along NLH Near Viaduct C, D (EoT 5-Apr-16)	0		0	21-Jan-17*		05-Apr-16	-290	0%		,		
Portion Hando													
	of the Works Area												
Access Date	S												
	Dertice A Area CD (Te be confirmed)	0	04 lag 47*	0		45 Dec 45		402	00(				
POS02-6B Design	Portion A - Area 6B (To be confirmed)	0	21-Jan-17*	0		15-Dec-15		-403	0%				
Detailed Desig													
General Subr													
Reports & M	anuals												
	Dreneration of Spinnia Derformance Depart Vieduct E AD42.02	100	21 Aug 15 A	0	11 Jan 17 A				100%				
	Preparation of Seismic Performance Report Viaduct F - AP12.03 IC/SO Approval of Seismic Performance Report Viaduct F - AP12.03	160 75	21-Aug-15 A 12-Jan-17 A	0 75	11-Jan-17 A 26-Apr-17	08-Apr-16	08-Jul-16	-237	100% 0%				
ARDD0040-2	IC/SO Approval of Operation and Maintenance Manual - AP08.00	75	20-Oct-15 A	16	11-Feb-17	20-Jun-16	08-Jul-16	-178	0%				
	IC/SO Approval of O&M Facility Provisions DDA - BP11.01	75	14-Jan-15 A	16	11-Feb-17	20-Jun-16	08-Jul-16	-178	50%			·	
· · · · · · · · · · · · · · · · · · ·	Near Viaduct A												
	-B/FR8, B/R1, B/R2												
Slope Works		05	01 D = 10 A	44	00 E-1 47	40 1	00 1 40	000	500(				_
ARDD0596 ARDD0596-1	Preparation of remaining portion of Slope FR8 Combined AIP/DDA - CP11. IC/SO Approval of Slope Combined AIP/DDA - CP11.01	35 60	21-Dec-16 A 07-Feb-17	11 60	06-Feb-17 21-Apr-17	19-Jan-16 01-Feb-16	30-Jan-16 18-Apr-16	-299 -299	50% 0%				-
	Near Viaduct C		0 0.0		<u> </u>		107.0110	200	0,10				
Feature 10N	W-C/C22, C/C26, C/C27, C/F13, C/F14, C/F15												
Slope Works													
ARDD0589-1	Preparation of Slope Combined AIP/DDA - CP13.01	60	21-Jan-17*	60	04-Apr-17	19-Jul-16	27-Sep-16	-154	0%				
	IC/SO Approval of Combined AIP/DDA - CP13.01	28	04-Apr-17	28	02-May-17	28-Sep-16	25-Oct-16	-189	0%			<u>_</u>	
ARDD0590	Newfill slopes PF1 & PF2 Preparation of Combined AIP/DDA - CP13.01 New fill slopes PF1 & PF2 IC/SO Approval of combined AIP/DDA - CP13.0	60 28	21-Jan-17 06-Apr-17	60 28	04-Apr-17 13-May-17	05-Jul-16 13-Sep-16	12-Sep-16 18-Oct-16	-166 -166	0% 0%				
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·	W-C/R4, C/F9, C/F10, C/F11, C/F17, C/F50							<u></u>					
Slope Works													
ARDD0603	IC/SO Approval of Slope Combined AIP/DDA-CP14.01	75	16-Dec-14 A	7	01-Feb-17	17-Feb-16	24-Feb-16	-277	75%				
	IC/SO Approval of Slope Combined AIP/DDA-CP14.01	0		0	01-Feb-17		24-Feb-16	-277	0%			•	
Watermain, D	Drainage & Utility Diversions												
General													
Design					10 = :			_					
ARDD0629	IC/SO Approval of Waterworks, Drainage & Utility DDA - BP20.01 IC/SO Approval of Waterworks, Drainage & Utility DDA - BP20.01	75 0	22-Jul-14 A	22 0	18-Feb-17 18-Feb-17	01-Mar-16	29-Mar-16 29-Mar-16	-266 -266	95% 0%				
	Gov't Approval of Submissions for Waterworks, Drainage & Utility DDA - BP20.01	75	02-Jan-14 A	22	18-Feb-17	01-Mar-16	29-Mar-16 29-Mar-16	-266	95%				
	oach Ramp Retaining Walls												
Abutment &	Approach Ramp B												
Design													
ARDD0664	Approach B - IC/SO Approval of Approach Ramp B DDA - DP21.01	75	14-Oct-14 A	4	25-Jan-17	09-Mar-16	12-Mar-16	-259	95%	I			
	Approach B - IC/SO Approval of Approach Ramp B DDA - DP21.01	0		0	25-Jan-17		12-Mar-16	-259	0%			•	
	Approach Ramp F												
Design ARDD0676	Approach F - IC/SO Approval of Approach Ramp F DDA - DP24.01	75	23-Dec-14 A	24	04-Mar-17	12 Mov 16	22 hue 46	200	700/			<b>.</b>	
	Approach F - IC/SO Approval of Approach Ramp F DDA - DP24.01 Approach F - IC/SO Approval of Approach Ramp F DDA - DP24.01	75 0	23-Dec-14 A	34 0	04-Mar-17 04-Mar-17	13-May-16	23-Jun-16 23-Jun-16	-208 -208	70% 0%				
	get Geometry & Erection Engineering			-					570				
Viaduct A													
Actual Work	Project ID: TMCLK-DWPH-M44		Tuen Mun - C	hek I :	ap Kok Link - S	Southern Co	nnection		Date	Revis	sion Checked	Apr	proved
	•									_		GL	
Planned Bar	Layout: J3518-DWP-3MRP Submission - M44	•	3-Month Roll	lina P	rogramme	(Page 1 of	13 Pages)		30-Nov-		PKN	IOL	
Planned Bar Critical Bar	Layout: J3518-DWP-3MRP Submission - M44 Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.		3-Month Roll (I	-	rogramme ess as of 2 <sup>°</sup>	• •	13 Pages)		30-Nov- 03-Jan- 26-Jan-	17	PKN	GL GL	



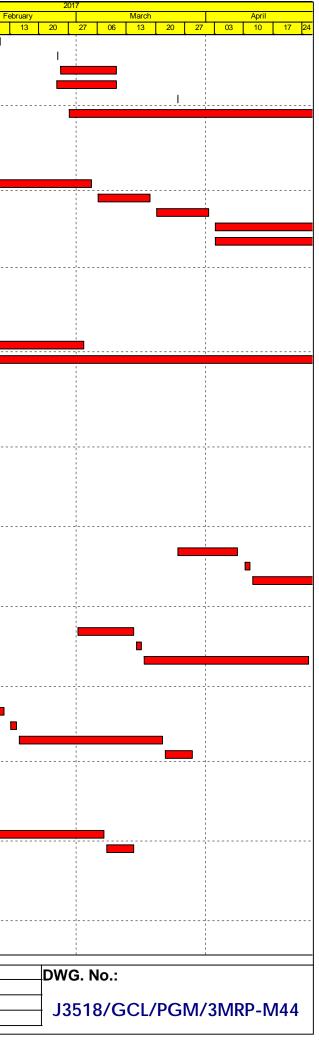
ty ID	Activity Name	Orig.	Act. Start / FC Early	Rem.	Act. Finish / FC Early	Late Start	Late Finish	Total Floa		2016		
		Durn.	Start	Durn.	Finish				Complete 19	J; 	anuary 16 23	3 30 06
Design												
ARDD0718	Viaduct A - Target Geometry Analysis	20	21-Dec-16 A	2	23-Jan-17	02-Apr-20	03-Apr-20	946	0%			
ARDD0719-5	Viaduct A - Issue Erection Manual	20	21-Dec-16 A	2	23-Jan-17	06-Apr-16	07-Apr-16	-239	0%			
Viaduct E5 8	k E6											
Design												
ARDD0734	Viaduct E5 & E6 - Segment Geometry Schedules	10	05-May-14 A	10	04-Feb-17	08-Oct-15	19-Oct-15	-383	90%			
TGP0570	Viaduct E5 & E6 - Issue of Optimised Casting Data and Segment Catalogu	40	30-Apr-15 A	10	04-Feb-17	08-Oct-15	19-Oct-15	-383	90%			
TGP0590	Viaduct E5 & E6 - Issue Erection Manual	10	06-Feb-17	10	16-Feb-17	20-Oct-15	31-Oct-15	-383	0%			
Viaduct E7 8	k E8											
Design												
ARDD0739	Viaduct E7 & E8 - Segment Geometry Schedules	10	05-May-14 A	10	04-Feb-17	08-Oct-15	19-Oct-15	-383	90%			
TGP0760	Viaduct E7 & E8 - Issue of Optimised Casting Data and Segment Catalogu	40	31-Jul-15 A	10	04-Feb-17	08-Oct-15	19-Oct-15	-383	90%			
TGP0790	Viaduct E7 & E8 - Issue Erection Manual	10	06-Feb-17	10	16-Feb-17	20-Oct-15	31-Oct-15	-383	0%			🗖
Viaduct F												
Design												
ARDD0752	Viaduct F - Erection Sequence Analysis	13	21-Jan-17*	13	08-Feb-17	09-Oct-15	24-Oct-15	-382	0%			1
ARDD0753	Viaduct F - Target Geometry Analysis	30	09-Feb-17	30	15-Mar-17	26-Oct-15	28-Nov-15	-382	0%			
ARDD0754	Viaduct F - Segment Geometry Schedules	10	16-Mar-17	10	27-Mar-17	30-Nov-15	10-Dec-15	-382	0%			
ARDD0754-1	Viaduct F - Issue of Pierhead Segments Bridge F1, F2, F3, F4 & F5	0		0	27-Mar-17		03-Apr-20	895	0%			
	Viaduct F - Issue of Casting Data and Segment Catalogue Bridge F1, F3 (I	0		0	09-Jan-17 A				100%	•		
	Viaduct F - Issue of Casting Data and Segment Catalogue Bridge F2, F4, F	0		0	09-Jan-17 A				100%	•		
	Viaduct F - Issue Erection Manual	30	28-Mar-17	30	08-May-17	11-Dec-15	18-Jan-16	-382	0%			
Procuremen	t											
Deck Segment	Installation Equipment											
Traveling Han												
Viaduct A to												
Equipment D	elivery											
PR67050	Steelworks for THB 3.0 - Batch 1	0		0	21-Jan-17*		03-Apr-20	948	0%		•	1
PR67060	Steelworks for THB 3.0 - Batch 2	0		0	21-Jan-17*		03-Apr-20	948	0%		•	
K-Frames												
Viaduct A to	F											
Equipment D	eliverv										· · · · · · ·	
PR67120	Steelworks for K-Frame	0		0	21-Jan-17*		03-Apr-20	948	0%		•	
PR67130	Hydraulic for K-Frame	0		0	27-Jan-17*		03-Apr-20	942	0%		· · · ·	•
Strand Jacks												
Viaduct A to								<u> </u>				
									+		· <mark>-</mark> ·	
Equipment D			1									1
PR67140	Steelworks for 294T Strand Jack module	0		0	21-Jan-17*		03-Apr-20	948	0%		<b>†</b>	•
PR67150	Hydraulic for 294T Strand Jack	0		0	27-Jan-17*		03-Apr-20	942	0%		· · · ·	•
Crab												
Viaduct A to	F											:
Equipment D	elivery											
PR67160	Steelworks for 294T Crab - Batch 1	0		0	21-Jan-17*		03-Apr-20	948	0%		•	
PR67170	Steelworks for 294T Crab - Batch 2	0		0	21-Jan-17*		03-Apr-20	948	0%		•	
Travelling Ha	nging Beams (Self-Launch)											
Viaduct A to												
Equipment D											· <b>-</b>	
	-	0	1		01 100 47*		02 4~= 00	0.40	00/			
PR67070	Steelworks for Self-Launching System - Batch 1 Steelworks for Self-Launching System - Batch 2	0		0	21-Jan-17* 21-Jan-17*		03-Apr-20	948	0%		I	
PR67080 PR67090	Steelworks for Self-Launching System - Batch 2 Steelworks for Self-Launching System - Batch 3	0		0	21-Jan-17* 21-Jan-17*		03-Apr-20 03-Apr-20	948 948	0% 0%		Ι	
PR67090 PR67100	2 nos. Hydraulic Cylinder & Associated Accessories for Spare	0		0	21-Jan-17* 21-Jan-17*		03-Apr-20 03-Apr-20	948	0%		I	
PR67100	Power Pack for Hydraulic System for Self-Launching System	0		0	21-Jan-17*		03-Apr-20	940	0%		···· <b>I</b> ····	
Precast Deck S				, v	our 17		55 Apr 20	0.10	0.10		ſ	
	<u> </u>											1
Preliminaries												1 1
Viaduct F												1
General												<u> </u>
		_	Tuen Mun 4	Charl	an Kok Link	Southorn Co	nnection		Date	Revision Che	ecked	Annrove
Actual Work	Project ID: TMCLK-DWPH-M44 Layout: J3518-DWP-3MRP Submission - M44				ap Kok Link - :				Date 30-Nov-		ecked	Approve
Actual Work	Project ID: TMCLK-DWPH-M44 Layout: J3518-DWP-3MRP Submission - M44 Filter: TASK filters: 3-Month Lookahead, No CC		3-Month Rol	lling F	Programme	(Page 2 of		)	30-Nov	. PKI	N GL	Approve
Actual Work	Layout: J3518-DWP-3MRP Submission - M44	;	3-Month Rol	lling F		(Page 2 of		)		. PK1 7 PK1	N GL N GL	Approve



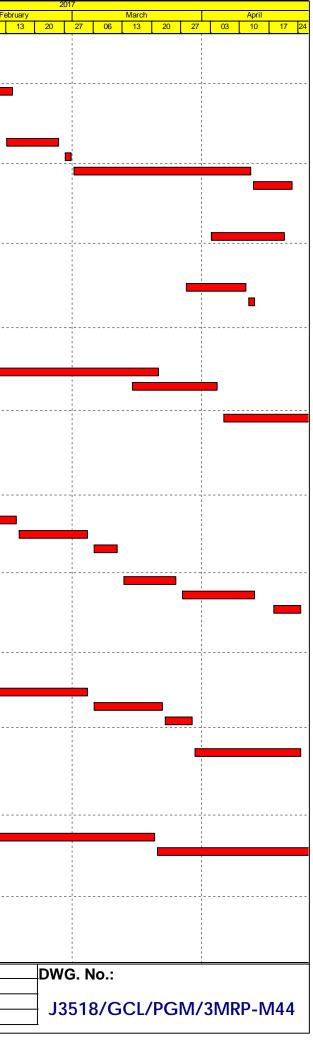
D Activity	lame	Orig. Durn.	Act. Start / FC Early Start	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Physical % Complete	2016	January	
MBBE0054 Preca	st Segment Mould Design (Viaduct F1 to F5)	42	01-Sep-16 A	16	11-Feb-17	30-Jan-20	17-Feb-20	892	19 0%	26 02	09 16	23 30
	st Segment Mould Design (Viaduct F1 to F5) st Segment Mould Fabrication & Erection (Viaduct F1 to F5)	42 52	26-Jan-17	52	30-Mar-17	04-Feb-20	03-Apr-20	892	0%			i
aduct A - Bridge		52	20-Jan-17	52	30-iviai - 17	04-1-60-20	03-Api-20	092	0 /8			
												1
egment Manufact	ure								_			
General												
MBAE0130-1 A: Pro	gressive Segment Manufacture (179 Nr)	180	13-Jun-16 A	91	17-May-17	12-Feb-16	03-Jun-16	-281	44.7%			
iaduct E - Bridge	E1											
Segment Manufact												
												1
General		,		·		,,						
	ogressive Segment Manufacture (188 Nr)	456	08-Apr-15 A	0	27-Dec-16 A				100%			
iaduct E - Bridge	Ξ2											
Segment Manufact	ure											1
General												
	ogressive Segment Manufacture (404 Nr)	376	06-May-15 A	102	31-May-17	21-Dec-15	28-Apr-16	-321	82.2%			
iaduct E - Bridge		370	00-101ay-15 A	102	31-101ay-17	21-Dec-15	28-Api-10	-321	02.270			
Segment Manufact	ure											1
General												
MBEE0130-9 E5-6-	7-8: Progressive Segment Manufacture (544Nr)	360	06-May-15 A	182	02-Sep-17	15-Oct-15	28-May-16	-377	34.9%			1
iaduct F - Bridge I												
												1
Segment Manufact	ure											
General												
MBFE0130-1 F: Pro	gressive Segment Manufacture (300 Nr)	252	27-Oct-16 A	190	12-Sep-17	15-Apr-16	30-Nov-16	-231	10%			i
ecast Parapets & I	Barriers											
iaduct A to F						<u> </u>						
Precast Parapet Ma	anufacture											
General												
PP6011-01 Viadu	t A - Precast Parapets/Barriers Production	90	01-Sep-16 A	178	29-Aug-17	02-Feb-16	08-Sep-16	-287	0%			
PP6011-02 Viadu	t B - Precast Parapets/Barriers Production	120	03-May-16 A	152	29-Jul-17	07-Mar-16	08-Sep-16	-261	0%			
	t C - Precast Parapets/Barriers Production	120	01-Apr-16 A	128	30-Jun-17	03-Dec-15	12-May-16	-336	0%			
PP6011-04 Viadu	t D - Precast Parapets/Barriers Production	120	01-Mar-16 A	128	30-Jun-17	03-Dec-15	12-May-16	-336	0%			
PP6011-05 Viadu	t E - Precast Parapets/Barriers Production	180	02-Jul-16 A	256	01-Dec-17	08-Dec-15	20-Oct-16	-332	0%			
earings												
laduct A												
	land for the set											
Bearing Design &	vianutacture											
General												   
PPBRA5 SO re	view & comment on design submission - Viaduct A	36	21-Oct-16 A	10	04-Feb-17	12-Nov-16	23-Nov-16	-57	0%		_	
	g Design Amendment & re-issue - Viaduct A	12	06-Feb-17	12	18-Feb-17	24-Nov-16	07-Dec-16	-57	0%			
	acture of Bearing - Viaduct A	54	21-Oct-16 A	28	25-Feb-17	05-Nov-16	07-Dec-16	-63	0%			
PPBRA8 Testin	g Bearing - Viaduct A	18	27-Feb-17	18	18-Mar-17	08-Dec-16	30-Dec-16	-63	0%			
PPBRA9 Bearin	g Delivery - Viaduct A	48	20-Mar-17	48	20-May-17	31-Dec-16	01-Mar-17	-63	0%			
iaduct C												
Bearing Design &	Manufacture											
General			01 1 7	4.	00 5 1 45	40.14	07.14	- CO - :	001			
	g Design Ammendment & re-issue - Viaduct C	11	21-Jan-17	11	06-Feb-17	16-Mar-20	27-Mar-20	931	0%		F	
	eparation Bearings for Viaduct C	6	07-Feb-17	6	13-Feb-17	28-Mar-20	03-Apr-20	931	0%			
iaduct D												
Bearing Design &	Manufacture											
General	the second s											1
	eparation Bearings for Viaduct D	38	21-Jan-17	38	09-Mar-17	18-Feb-16	06-Apr-16	-276	0%			
aduct E								210	373		ľ	1
Bearing Design &	Manufacture											
General												
PP7290 Site p	eparation Bearings for Viaduct E2	18	27-Apr-16 A	13	08-Feb-17	10-Mar-16	24-Mar-16	-258	0%			
	eparation Bearings for Viaduct E1	18	10-Feb-15 A	2	23-Jan-17	02-Apr-20	03-Apr-20	946	0%			
	g design and submission - Viaduct E (E1, E2, E5, E6, E7 & E8)	12	28-Nov-13 A	3	24-Jan-17	08-Dec-15	10-Dec-15	-332	85%			
	Project ID: TMCLK-DWPH-M44				ap Kok Link -				Date	Revision	Checked	Appr
Actual Work	Layout: J3518-DWP-3MRP Submission - M44	~			-				30-Nov			GL Appi
Planned Bar	Filter: TASK filters: 3-Month Lookahead, No CC	3	-Month Rol	-	-	• •	13 Pages)		03-Jan-17			GL
Critical Bar	Milestones, No Level of Effort.		(	Progr	ess as of 2 <sup>-</sup>	1-Jan-17)						
<ul> <li>Milestone</li> </ul>				<b>.</b>		,			26-Jan-17	1	PKN 0	GL



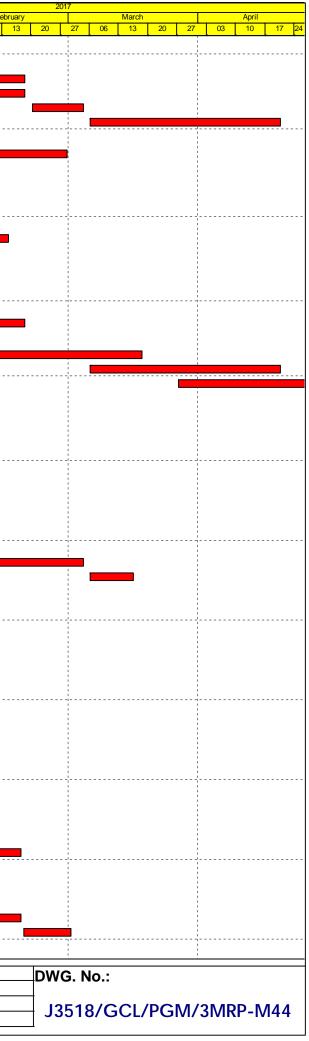
ity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Physical % Complete	2016	Januar	N	_
		Dum.	Start	Dum.	FILISI				19	9 26		y 16 23	30
PPBRE4	Design check by ICE - Viaduct E (E1, E2, E5, E6, E7 & E8)	24	04-Apr-14 A	3	10-Feb-17	22-Dec-15	24-Dec-15	-332	85%				- <b>-</b>
PPBRE5	SO review & comment on design submission - Viaduct E (E1, E2, E5, E6, E	36	26-Sep-14 A	0	24-Feb-17	11-Jan-16	11-Jan-16	-332	100%				
PPBRE6	Bearing Design Amendment & re-issue - Viaduct E (E1, E2, E5, E6, E7 & E	12	25-Feb-17	12	10-Mar-17	12-Jan-16	25-Jan-16	-332	0%				
PPBRE7	Manufacture of Bearing - Viaduct E (E1, E2, E5, E6, E7 & E8)	54	02-Jun-14 A	13	10-Mar-17	11-Jan-16	25-Jan-16	-332	100%				
PPBRE8	Testing Bearing - Viaduct E (E1, E2, E5, E6, E7 & E8)	24	03-Aug-15 A	0	25-Mar-17	11-Feb-16	11-Feb-16	-332	100%				
PPBRE9	Bearing Delivery - Viaduct E (E1, E2, E5, E6, E7 & E8)	48	19-Nov-14 A	59	12-May-17	13-Jan-16	24-Mar-16	-332	100%				
Viaduct F													
Bearing D	Design & Manufacture												
General													
PPBRF1	Preliminary Design of Bearings - Viaduct F	60	21-Oct-16 A	34	04-Mar-17	29-Jul-15	07-Sep-15	-441	0%				
PPBRF3	Bearing design and submission - Viaduct F	12	06-Mar-17	12	18-Mar-17	08-Sep-15	21-Sep-15	-441	0%				
PPBRF4	Design check by ICE - Viaduct F	12	20-Mar-17	12	01-Apr-17	22-Sep-15	07-Oct-15	-441	0%				
PPBRF5	SO review & comment on design submission - Viaduct F	24	03-Apr-17	24	06-May-17	06-Nov-15	03-Dec-15	-417	0%				Ì
PPBRF7	Manufacture of Bearing - Viaduct F	48	03-Apr-17	48	05-Jun-17	08-Oct-15	03-Dec-15	-441	0%				-
Movement				_									·
Viaduct A f													
	n & Manufacture												
	Decime & Submission of M.L	400	08 Eab 444	0	02 Eab 47	10 Mar 10	10 Mar 10	050	200/				
PP6MJ01 PP6MJ02-	Design & Submission of MJ 1 MJ Design Approval	138	08-Feb-14 A	8 32	02-Feb-17 02-Mar-17	10-Mar-16 01-Mar-16	18-Mar-16	-258 -266	30% 40%				
PP6MJ02- PP6MJ02-	0 11	96 150	26-May-14 A 03-Feb-17	150	02-Mar-17 05-Aug-17	01-Mar-16 10-Mar-16	11-Apr-16 09-Sep-16	-266	40%				
Construct		150		130		10-1110	03-0ep-10	-200	0%				
	& Substructure Works												
Viaduct A -	- Bridge A2												
Pier A1 (A	N2e)												
Pier Head	ISegment												
A01-C521	0 A1 - PHS - Temporary Platform	12	19-Dec-16 A	0	20-Jan-17 A				100%				
A01-C531	0 A1 - Install PH Segment A1-A2 (1 nr)	2	21-Jan-17	2	23-Jan-17	26-Feb-16	27-Feb-16	-269	0%				
A01-C5320	0 A1 - Install PH Segment A1-E1 (1 nr)	2	25-Jan-17*	2	26-Jan-17	29-Feb-16	01-Mar-16	-270	0%				
Pier A2 (A	N2d)												
Pier Head	ISegment												
A02-C521	0 A2 - PHS - Temporary Platform	12	25-Mar-17	12	08-Apr-17	10-May-16	25-May-16	-262	0%				
A02-C531	8 ( )	2	10-Apr-17*	2	11-Apr-17	25-May-16	27-May-16	-262	0%				
A02-C541	0 A2 - PHS Diaphragm - Rebar, Formwork, Concreting	30	12-Apr-17	30	22-May-17	27-May-16	04-Jul-16	-262	0%				
Pier A3 (A	N2c)												
Pier Head	ISegment												÷
A03-C521	0 A3 - PHS - Temporary Platform	12	01-Mar-17	12	14-Mar-17	08-Apr-16	21-Apr-16	-267	0%				
A03-C531	0 A3 - Install PH Segment (1 nr)	2	15-Mar-17*	2	16-Mar-17	22-Apr-16	23-Apr-16	-267	0%				
A03-C541	0 A3 - PHS Diaphragm - Rebar, Formwork, Concreting	30	17-Mar-17	30	25-Apr-17	25-Apr-16	31-May-16	-267	0%				-
Pier A4 (A	· ·												
Pier Head													
A04-C521		12	26-Jan-17	12	11-Feb-17	01-Mar-16	15-Mar-16	-269	0%			-	_
A04-C5310		2	13-Feb-17*	2	14-Feb-17	15-Mar-16	17-Mar-16	-269	0%				1
A04-C5410		30	15-Feb-17	30	21-Mar-17	17-Mar-16	26-Apr-16	-269	0%				
A04-C551	, , , , , , , , , , , , , , , , , , , ,	6	22-Mar-17	6	28-Mar-17	26-Apr-16	05-May-16	-268	0%				4
Pier A5 (A	•												1
Pier Head													
A05-C5210		12	12-Jan-17 A	4	25-Jan-17	04-Feb-16	12-Feb-16	-284	0%				i.
A05-C5310		2	26-Jan-17*	2	27-Jan-17	12-Feb-16	15-Feb-16	-284	0%			•	
A05-C541		30	01-Feb-17	30	07-Mar-17	15-Feb-16	21-Mar-16	-284	0%				
A05-C542		6	08-Mar-17	6	14-Mar-17	21-Mar-16	01-Apr-16	-283	0%				
Pier A6 (A													
Pier Head											_		
A06-C5210		12	14-Dec-16 A	0	03-Jan-17 A				100%		•		
A06-C5310	<b>o</b> ( )	2	04-Jan-17 A	0	05-Jan-17 A				100%				
A06-C532	0 A6 - Install PH Segment A6-A7 (1 nr) - Bridge A1	2	11-Jan-17 A	0	12-Jan-17 A				100%			1	
	- Bhuge Al												
Actual Wo			Tuen Mun - C	Chek L	ap Kok Link - S	Southern Co	nnection		Date	Revi	ision Checke	d	Арр
		-			-				30-Nov-		PKN	GL	
Planned B	Layout: J3518-DWP-3MRP Submission - M44	3	B-Month Rol	lina F	Programme (	(Page 4 of	13 Pages)		00 1100			_	
	Filter: TASK filters: 3-Month Lookabead, No CC	3		-	Programme ( ress as of 21		13 Pages)		03-Jan-1		PKN	GL	



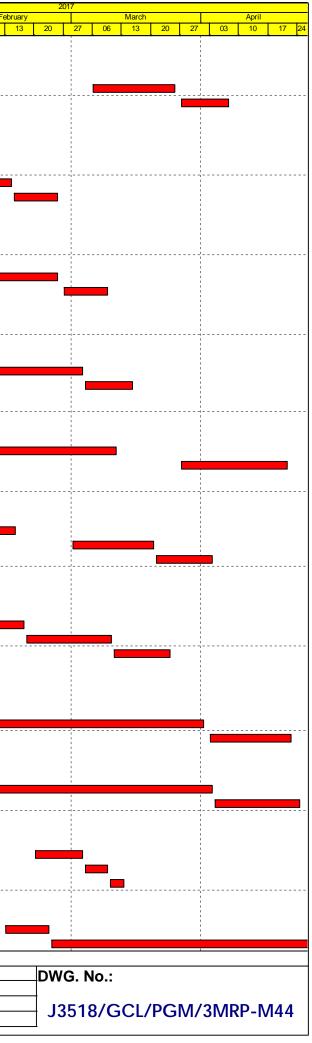
ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Floa	Complete	2010	Januar		
Pier A8 (A1c	d)								1	9 26	02 09	16 23	30
Pier Head S													
A08-C5410	A8 - PHS Diaphragm - Rebar, Formwork, Concreting	36	02-Dec-16 A	6	27-Jan-17	12-Jan-16	18-Jan-16	-305	50%				
A08-C5420	A8 - PHS Diaphragm - Curing & Striking of Forms	12	01-Feb-17	12	14-Feb-17	19-Jan-16	01-Feb-16	-305	0%				
Pier A9 (A1c													
Pier Head S													
A09-C5210	A9 - PHS - Temporary Platform	12	13-Feb-17	12	25-Feb-17	26-Jan-16	11-Feb-16	-309	0%				
A09-C5310	A9 - Install PH Segment (1 nr)	2	27-Feb-17*	2	28-Feb-17	12-Feb-16	13-Feb-16	-309	0%				
A09-C5410	A9 - PHS Diaphragm - Rebar, Formwork, Concreting	36	01-Mar-17	36	12-Apr-17	15-Feb-16	30-Mar-16	-309	0%				
A09-C5420	A9 - PHS Diaphragm - Curing & Striking of Forms	6	13-Apr-17	6	22-Apr-17	31-Mar-16	07-Apr-16	-309	0%				-
Pier A10 (A1	lb)							,					
Pier Head S	egment												
	A10 - PHS - Temporary Platform	12	03-Apr-17	12	20-Apr-17	16-Apr-16	29-Apr-16	-288	0%				
Pier A11 (A1												-	
Pier Head S	•												
A11-C5210	A11 - PHS - Temporary Platform	12	28-Mar-17	12	11-Apr-17	18-Jul-16	30-Jul-16	-208	0%				
A11-C5310	A11 - Install PH Segment (1nr)	2	12-Apr-17*	2	13-Apr-17	01-Aug-16	02-Aug-16	-208	0%				-
Ramp A					·	<u> </u>	Ŭ						
	Approach Ramp A												
Ramp Struc													
	Ramp A - Remaining RE & RC Walls	48	21-Jan-17*	48	21-Mar-17	21-Jan-16	19-Mar-16	-297	0%				
	Ramp A - Backfill to Walls	18	15-Mar-17	18	04-Apr-17	21-Jan-16 14-Mar-16	07-Apr-16	-297	0%				1
	hes, E&M & Roadworks	10		10	0477pi 17		0170110	201	070				
	Ramp A - Parapet Panels	42	06-Apr-17	42	31-May-17	08-Apr-16	28-May-16	-297	0%				
Viaduct B - E			007.p. 11		er may n	0074210	20 11.49 10	201	0,0				ł
Pier B17 (B1	<u> </u>												
<b>`</b>													
	- Socketed H-Piles	00	01 D = 10 A		10 1- 17 1				4000/				
B17-C2110	B17 - Install SH Pile (10 nr) (incl. proof drilling)	36	01-Dec-16 A	0	10-Jan-17 A				100%				
Pile Cap B17-C3110	B17 - Pile Cap Excavation / ELS & Break Pile	24	16-Jan-17 A	19	15-Feb-17	22-Dec-15	15-Jan-16	-320	0%		_		
B17-C3110 B17-C3210	B17 - Pile Cap Blinding, Rebar, Formwork, Concrete	15	16-Feb-17	19	04-Mar-17	16-Jan-16	02-Feb-16	-320	0%				
B17-C3210	B17 - Pile Cap Curing, Strike Formwork, CJ Prep, Backfill	6	06-Mar-17	6	11-Mar-17	03-Feb-16	12-Feb-16	-320	0%				
Pier				Ū			1210010	020	070				
B17-C4110	B17 - Pier Scaffold, Rebar, Formwork, Concrete (1st Lift)	12	13-Mar-17	12	25-Mar-17	13-Feb-16	26-Feb-16	-320	0%				
B17-C4210	B17 - Pier Scaffold, Rebar, Formwork, Concrete (2nd Lift)	15	27-Mar-17	15	13-Apr-17	27-Feb-16	15-Mar-16	-320	0%				
B17-C4310	B17 - Pier Curing, Remove Formwork	6	18-Apr-17	6	24-Apr-17	16-Mar-16	22-Mar-16	-320	0%				
Pier B18 (B1	lb)												
Foundation -	- Socketed H-Piles												
B18-C2110	B18 - Install SH Pile (6 nr) (incl. proof drilling)	27	09-Dec-16 A	0	14-Jan-17 A				100%				
Pile Cap													
B18-C3110	B18 - Pile Cap Excavation / ELS & Break Pile	24	06-Feb-17*	24	04-Mar-17	14-Apr-16	12-May-16	-242	0%				
B18-C3210	B18 - Pile Cap Blinding, Rebar, Formwork, Concrete	15	06-Mar-17	15	22-Mar-17	13-May-16	31-May-16	-242	0%				
B18-C3310	B18 - Pile Cap Curing, Strike Formwork, CJ Prep, Backfill	6	23-Mar-17	6	29-Mar-17	01-Jun-16	07-Jun-16	-242	0%				
Pier										1-			
B18-C4110	B18 - Pier Scaffold, Rebar, Formwork, Concrete	18	30-Mar-17	18	24-Apr-17	08-Jun-16	29-Jun-16	-242	0%				
Ramp B													
Abutment &	Approach Ramp B												
Ramp Struc													
ARB-C6110		12	16-Jan-17 A	11	06-Feb-17	01-Mar-16	12-Mar-16	-266	20%				
ARB-C6120		36	07-Feb-17	36	20-Mar-17	14-Mar-16	28-Apr-16	-266	0%				
	Ramp B - RE Wall - Upper Layer With Backfill in Stages	48	21-Mar-17	48	22-May-17	29-Apr-16	27-Jun-16	-266	0%				
Viaduct C - E					·	·							
Pier C16 (C2	<u> </u>												
·													
Pier Head S		0.0			04 D = 40.4				40001	_			
C16-C5410		36	15-Nov-16 A	0	24-Dec-16 A				100%	╸_	-		
C16-C5420	C16 - PHS Diaphragm - Curing & Striking of Forms	6	28-Dec-16 A	0	04-Jan-17 A				100%				
Ramp C													
	Project ID: TMCLK-DWPH-M44		Tuen Mun - (	Chek L	ap Kok Link - 🤅	Southern Co	nnection		Date	Revi		_	Appr
Actual Work	•												
Actual Work Planned Bar	Layout: J3518-DWP-3MRP Submission - M44	3	B-Month Rol	ling F	rogramme	(Page 5 of	13 Pages)		30-Nov-		PKN	GL	
	•	3		-	Programme ress as of 21		13 Pages)		30-Nov- 03-Jan- 26-Jan-	7	PKN PKN PKN	GL GL GL	



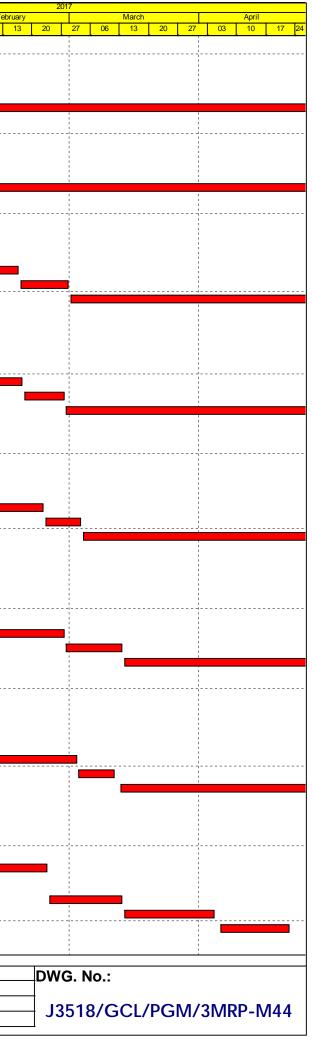
ID Activi	ty Name	Durn.	Act. Start / FC Early Start	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Physical % Complete		January		
									19	9 26 02	09 16	3 23	30
Abutment & Appr	roach Ramp C												
Ramp Structure													
ARC-C6140 Ran	np C - RC Wall - Backfill	12	16-May-16 A	22	18-Feb-17	15-Jan-16	12-Feb-16	-302	90%				, in the second
ARC-C6150 Ran	np C - Utility - Termination of 800 Tee	72	21-Sep-16 A	22	18-Feb-17	15-Jan-16	12-Feb-16	-302	0%				i i i i i i i i i i i i i i i i i i i
ARC-C6160 Ran	np C - Utility - Remove 800 Tee & Backfill	12	20-Feb-17	12	04-Mar-17	13-Feb-16	26-Feb-16	-302	0%				
ARC-C6170 Ran	np C - RE Wall - Remaining Bays at 800 Tee	36	06-Mar-17	36	20-Apr-17	27-Feb-16	13-Apr-16	-302	0%				
Ramp Finishes, E	&M & Roadworks												1
ARC-C7710 Ran	np C - Parapet Panels (Initial)	24	26-Sep-16 A	30	28-Feb-17	21-Apr-16	27-May-16	-226	10%				
Viaduct D - Bridge	e D2												
Pier D13 (D2d)													
													į
Pier Head Segme				· · · · ·								<u></u>	
	8 - PHS Diaphragm - Rebar, Formwork, Concreting	42	12-Sep-16 A	6	27-Jan-17	11-Feb-16	17-Feb-16	-282	60%				
	- PHS Diaphragm - Curing, Striking of Forms, Remove Scaffold	12	01-Feb-17	12	14-Feb-17	18-Feb-16	02-Mar-16	-282	0%				
Ramp D													
Abutment & Appr	roach Ramp D												
Ramp Structure													
	np D - Box Structure Bay 1 & Bay 8	55	07-Mar-16 A	9	03-Feb-17	16 Mar 16	20 Mar 16	252	900/				
	np D - Box Structure Bay 1 & Bay 8	55 90	02-Nov-15 A	22	18-Feb-17	16-Mar-16 16-Mar-16	29-Mar-16 14-Apr-16	-253 -253	80% 70%				_
	&M & Roadworks	90	02-100V-15 A	22	10-Feb-17	10-Mai-10	14-Api-16	-255	70%				
		40	15.0 / 10.0	10	40.14 47	40.14 40		0.50	5004				
	np D - Parapet Panels	42	15-Oct-16 A	46	18-Mar-17	16-Mar-16	13-May-16	-253	50%				-
	np D - Ducting, Gantry & TCSS Provisions (KD4)	36 54	06-Mar-17	36	20-Apr-17	29-Apr-16	13-Jun-16	-253 -253	0% 0%				
	np D - Drainage, Fire Main & E&M Services	54	27-Mar-17	54	05-Jun-17	23-May-16	26-Jul-16	-253	0%				
Viaduct E - Bridge	e E2												
Pier E4A (E2b2)													
Pier Head Segme	nt												
	- Remove Rail Beams, Megashore Towers. Crane	17	13-Oct-16 A	0	24-Dec-16 A				100%				
	- Install Infill Segments (4 nr) - THB	26	14-Nov-16 A	0	12-Jan-17 A				100%				
	- IFS Stitch & Remove Equipment	9	13-Jan-17 A	12	07-Feb-17	04-Jul-16	16-Jul-16	-167	35%		_		di se
Pier E4B (E2b1)		-						-					
Pier Head Segme		105							1000				
	B - Diaphragm of PHS - Formwork, Rebar, Concreting	125	14-Sep-16 A	0	19-Jan-17 A	07.1.1.40	04 1 1 40	101	100%		<b></b> ,		
	B - Remove Rail Beams, Megashore Towers	8	20-Jan-17 A	13	08-Feb-17	07-Jul-16	21-Jul-16	-164	5%				
	B - Install Infill Segments (4 nr) - THB	21	09-Feb-17	21	04-Mar-17	22-Jul-16	15-Aug-16	-164	0%				
	- IFS Stitch & Remove Equipment	10	06-Mar-17	10	16-Mar-17	16-Aug-16	26-Aug-16	-164	0%				
Pier E5A (E2c2)													
Pier Head Segme													
	- Install Infill Segments (4 nr) - THB	23	12-Nov-16 A	0	31-Dec-16 A				100%				
E05A-C5150 E5A	- IFS Stitch & Remove Equipment	12	03-Jan-17 A	7	01-Feb-17	05-Jan-16	12-Jan-16	-311	70%				<b></b>
Pier E5B (E2c1)													
Pier Head Segme	nt												
	8 - Install Infill Segments (4 nr) - THB	15	08-Dec-16 A	0	04-Jan-17 A				100%			1	
	- IFS Stitch & Remove Equipment	12	05-Jan-17 A	5	26-Jan-17	03-Feb-16	11-Feb-16	-286	70%			<b>.</b>	
Pier E6A (E2d2)		12		5	20-0011-17	001 00-10		200	1070				
												1	
Pier Head Segme												1	
	- Install Infill Segments (4 nr) - THB	16	29-Nov-16 A	0	18-Jan-17 A				100%			1	
	- IFS Stitch & Remove Equipment	11	19-Jan-17 A	10	04-Feb-17	18-Feb-16	29-Feb-16	-276	15%				
Pier E6B (E2d1)												1	
Pier Head Segme	nt											1	
	- Remove Rail Beams	9	06-Dec-16 A	0	04-Jan-17 A				100%			1	
	8 - Install Infill Segments (4 nr) - THB	17	16-Dec-16 A	11	06-Feb-17	08-Mar-16	19-Mar-16	-260	50%				,
	- IFS Stitch & Remove Equipment	10	07-Feb-17	10	17-Feb-17	21-Mar-16	05-Apr-16	-260	0%				
Pier E7A (E2e2)		10	0.100-17	10	11 1 00-17		00 Api-10	200	070			+	- J   
												1	1
Pier Head Segme				, <u> </u>								1	
	- Remove Rail Beams, Crane	14	15-Dec-16 A	0	06-Jan-17 A				100%			L	
	- Install Infill Segments (4 nr) - THB	18	07-Jan-17 A	21	17-Feb-17	13-Feb-16	08-Mar-16	-280	40%				Ļ
	- IFS Stitch & Remove Equipment	10	18-Feb-17	10	01-Mar-17	09-Mar-16	19-Mar-16	-280	0%				
Pier E7B (E2e1)												1	
			T	ol								- .l	Δ
Actual Work	Project ID: TMCLK-DWPH-M44				ap Kok Link -				Date	Revision	Checked		Аррі
Planned Bar	Layout: J3518-DWP-3MRP Submission - M44 Filter: TASK filters: 3-Month Lookahead, No CC	3	-Month Rol	ling P	rogramme	(Page 6 of	13 Pages)		30-Nov-			GL	
Critical Bar	Milestones, No Level of Effort.		(	Progr	ess as of 2	1-Jan-17)			03-Jan-1			GL GL	
Milestone									26-Jan-1				



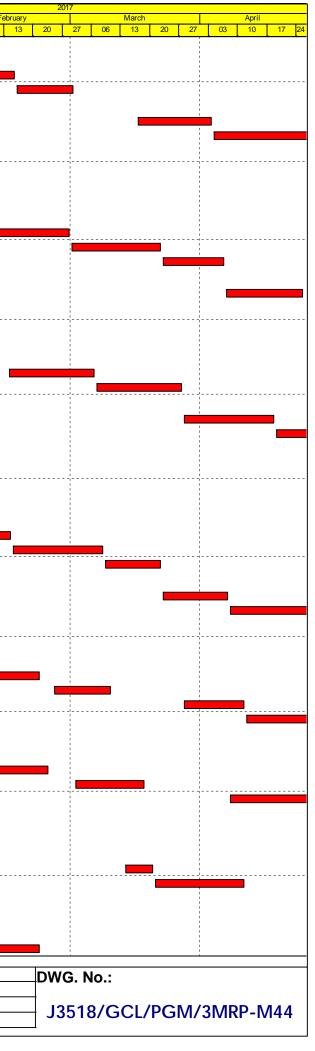
D	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Complete	Januar	
									19	26 02 09	16 23 30
Pier Head Se				·							
	E7B - Diaphragm of PHS - Formwork, Rebar, Concreting	76	14-Oct-16 A	0	20-Jan-17 A				100%		
	E7B - Remove Rail Beams	15	21-Jan-17	15	10-Feb-17	03-Dec-15	19-Dec-15	-336	0%		· · ·
	E7B - Install Infill Segments (4 nr) - THB	18	06-Mar-17*	18	25-Mar-17	21-Dec-15	13-Jan-16	-355	0%		
	E7B - IFS Stitch & Remove Equipment	10	27-Mar-17	10	07-Apr-17	14-Jan-16	25-Jan-16	-355	0%		
Pier E8A (E2	f2)										
Pier Head Se	gment										
E08A-C5130	E8A - Diaphragm of PHS - Formwork, Rebar, Concreting	82	28-Sep-16 A	0	30-Dec-16 A				100%		
E08A-C5140	E8A - Remove Rail Beams, Crane	8	31-Dec-16 A	0	17-Jan-17 A				100%		
E08A-C5145	E8A - Install Infill Segments (4 nr) - THB	18	18-Jan-17 A	18	14-Feb-17	14-Nov-15	04-Dec-15	-352	50%		
	E8A - IFS Stitch & Remove Equipment	10	15-Feb-17	10	25-Feb-17	05-Dec-15	16-Dec-15	-352	0%		
Pier E8B (E2											
Pier Head Se	· ·										
	E8B - Diaphragm of PHS - Formwork, Rebar, Concreting	61	26-Oct-16 A	0	18-Jan-17 A	1			100%		
	E8B - Remove Rail Beams	8	11-Jan-17 A	10	04-Feb-17	07-Apr-16	18-Apr-16	-238	50%		
	E8B - Install Infill Segments (4 nr) - THB	-	06-Feb-17	18	25-Feb-17		· · · · · · · · · · · · · · · · · · ·				
		18				19-Apr-16	10-May-16	-238	0%		
	E8B - IFS Stitch & Remove Equipment	10	27-Feb-17	10	09-Mar-17	11-May-16	23-May-16	-238	0%		
Pier E9A (E2											
Pier Head Se											1
E09A-C5130	E9A - Diaphragm of PHS - Formwork, Rebar, Concreting	86	23-Sep-16 A	0	17-Jan-17 A				100%		
	E9A - Remove Rail Beams, Crane	14	18-Jan-17 A	15	10-Feb-17	04-Jan-16	20-Jan-16	-312	15%		
	E9A - Install Infill Segments (4 nr) - THB	18	11-Feb-17	18	03-Mar-17	21-Jan-16	13-Feb-16	-312	0%		
	E9A - IFS Stitch & Remove Equipment	10	04-Mar-17	10	15-Mar-17	15-Feb-16	25-Feb-16	-312	0%		
Pier E9B (E2g											
Pier Head Se											
			47.0 4.40.4		05 1 47			000	500/		
	E9B - Diaphragm of PHS - Formwork, Rebar, Concreting	33	17-Oct-16 A	4	25-Jan-17	01-Feb-16	04-Feb-16	-288	50%		
	E9B - Remove Rail Beams	36	26-Jan-17	36	11-Mar-17	05-Feb-16	21-Mar-16	-288	0%		
	E9B - Install Infill Segments (4 nr) - THB	19	27-Mar-17	19	21-Apr-17	22-Mar-16	16-Apr-16	-300	0%		
Pier E10A (E	2h2)										
<b>Pier Head Se</b>	gment										
E10A-C5130	E10A - Diaphragm of PHS - Formwork, Rebar, Concreting	56	15-Oct-16 A	0	19-Jan-17 A				100%		
	E10A - Remove Rail Beams, Crane	13	20-Jan-17 A	19	15-Feb-17	03-May-16	25-May-16	-217	5%		
	E10A - Install Infill Segments (4 nr) - THB	17	01-Mar-17*	17	20-Mar-17	26-May-16	15-Jun-16	-228	0%		
	E10A - IFS Stitch & Remove Equipment	12	21-Mar-17	12	03-Apr-17	16-Jun-16	29-Jun-16	-228	0%		
Pier E10B (E											
Pier Head Se	-	54	40 No. 40 A		04 1- 47	00.4	00.4	000	050/		
	E10B - Diaphragm of PHS - Formwork, Rebar, Concreting	51	19-Nov-16 A	3	24-Jan-17	28-Apr-16	30-Apr-16	-220	95%		<b></b>
	E10B - Remove Rail Beams	18	25-Jan-17	18	17-Feb-17	03-May-16	24-May-16	-220	0%		
	E10B - Install Infill Segments (4 nr) - THB	18	18-Feb-17	18	10-Mar-17	25-May-16	15-Jun-16	-220	0%		
	E10B - IFS Stitch & Remove Equipment	12	11-Mar-17	12	24-Mar-17	16-Jun-16	29-Jun-16	-220	0%		
laduct E - Br	idge E5, E6, E7, E8										
Pier E11A (E7	7E8a)										
Pier Head Se	gment										
	E11A - Diaphragm of PHS - Formwork, Rebar, Concreting	80	10-Dec-16 A	58	01-Apr-17	05-Nov-15	14-Jan-16	-360	35%		
	E11A - Remove Rail Beams, Spreader Beams, Crane	14	03-Apr-17	14	22-Apr-17	15-Jan-16	30-Jan-16	-360	0%		
Pier E11B (Et	1 · · ·	14	00-Api-17	1-4		10-0411-10		-500	0 70		
•	· · ·										
Pier Head Se											
	E11B - Diaphragm of PHS - Formwork, Rebar, Concreting	81	19-Dec-16 A	59	03-Apr-17	04-Jun-15	13-Aug-15	-486	30%		<b></b>
E11B-C5140	E11B - Remove Rail Beams, Spreader Beams	14	04-Apr-17	14	24-Apr-17	14-Aug-15	29-Aug-15	-486	0%		
Pier E12A (E	8b)										
Pile Cap Dolp	· ·										
	E12A- Dolphin - Marine Pile Cap - Fixings, Dewatering & Trim Pile	11	20-Feb-17*	11	03-Mar-17	07-Nov-16	18-Nov-16	-84	0%		
	E12A- Dolphin - Marine Pile Cap - Rebar, Concreting	5	04-Mar-17	5	09-Mar-17	19-Nov-16	24-Nov-16	-84	0%		
	E12A - Dolphin - Marine File Cap - CJ preparation & Curing	3	10-Mar-17	3	13-Mar-17	25-Nov-16	24-Nov-16	-84	0%		
		3		5	1 J <sup>2</sup> Iviai = 17	20-110/-10	20-110/-10	-04	0 70		
	gment / Infill Segment	0.5	47 0 101		44 5 1 15	00 1 17	40 1 1=	100	0000		
	E12A - Temp. Work, Grillages, Megashore Towers, Rail Beams	28	17-Dec-16 A	16	11-Feb-17	02-Jun-15	19-Jun-15	-488	60%		
	E12A - Install PH Segment (4 nr)	10	13-Feb-17	10	23-Feb-17	22-Jun-15	03-Jul-15	-488	0%		1
F12A-C5130	E12A - Diaphragm of PHS - Formwork, Rebar, Concreting	78	24-Feb-17	78	02-Jun-17	04-Jul-15	06-Oct-15	-488	0%		
2.2.00.00											
2121.00100			- 14 <i>/</i>		12 1 1 1 1	Couthorn Co	nnection		Date	Revision Checke	ed App
Actual Work	Project ID: TMCLK-DWPH-M44				ap Kok Link -						
	Layout: J3518-DWP-3MRP Submission - M44	3			-				30-Nov	. PKN	GL
Actual Work	•	3	-Month Rol	ling F	-	(Page 7 of					GL GL



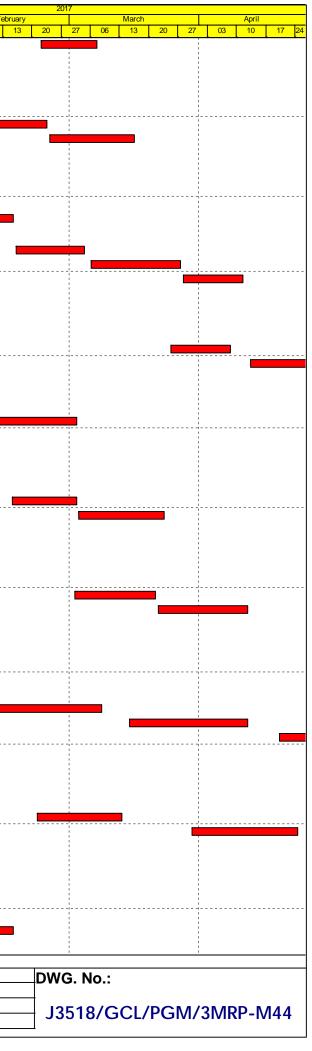
vity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Complete	2016	January	
Pier E12B (E	7b)								<mark>19</mark>	26 02	09 16	5 <u>23 30 06</u>
	gment / Infill Segment											
	E12B - Temp. Work, Grillages, Megashore Towers, Rail Beams	29	02-Dec-16 A	0	07-Jan-17 A		í		100%			
	E12B - Install PH Segment (4 nr)	8	08-Jan-17 A	14	09-Feb-17	07-Dec-15	22-Dec-15	-333	75%			
	E12B - Diaphragm of PHS - Formwork, Rebar, Concreting	81	10-Feb-17	81	22-May-17	23-Dec-15	06-Apr-16	-333	0%			
Pier E12C (E	6b)								-			
Pier Head Se	gment / Infill Segment											
E12C-C5110	E12C - Temp. Work, Grillages, Megashore Towers, Rail Beams	28	29-Nov-16 A	0	11-Jan-17 A				100%			
	E12C - Install PH Segment (4 nr)	10	12-Jan-17 A	2	23-Jan-17	17-Dec-15	18-Dec-15	-324	0%			
	E12C - Diaphragm of PHS - Formwork, Rebar, Concreting	79	24-Jan-17	79	05-May-17	19-Dec-15	30-Mar-16	-324	0%			
Pier E12D (E	5b)											
Pier			1									
	E12D Pier - Curing, CJ, Remove Formwork & Falsework	12	16-Dec-16 A	0	11-Jan-17 A				100%			
	gment / Infill Segment											
	E12D - Temp. Work, Grillages, Megashore Towers, Rail Beams	28	12-Jan-17 A	20	16-Feb-17	26-May-15	17-Jun-15	-494	40%			4
	E12D - Install PH Segment (4 nr) E12D - Diaphragm of PHS - Formwork, Rebar, Concreting	10 77	17-Feb-17 01-Mar-17	10 77	28-Feb-17 06-Jun-17	18-Jun-15 02-Jul-15	30-Jun-15 02-Oct-15	-494 -494	0%			
Pier E13A (E		11	01-10181-17	11	06-Juli-17	02-301-13	02-00-15	-494	0%			
`												
<b>Pier</b>	E13A Pier - Curing, CJ, Remove Formwork & Falsework	12	17-Dec-16 A	0	11. lon 17 ^				100%		-	
	gment / Infill Segment	12	17-Dec-16 A	U	11-Jan-17 A		<u> </u>		100%		_	
	E13A - Temp. Work, Grillages, Megashore Towers, Rail Beams	29	12-Jan-17 A	21	17-Feb-17	22-May-15	16-Jun-15	-496	25%			
	E13A - Install PH Segment (4 nr)	8	18-Feb-17	8	27-Feb-17	17-Jun-15	26-Jun-15	-490	0%			
	E13A - Diaphragm of PHS - Formwork, Rebar, Concreting	77	28-Feb-17	77	05-Jun-17	27-Jun-15	26-Sep-15	-496	0%			
Pier E13B (E								1				
Pier												
	E13B Pier - TW, Rebar, Formwork, Concreting - Upper Arm (Solid)	52	31-Oct-16 A	0	29-Dec-16 A		ĺ		100%			
	E13B Pier - Curing, CJ, Remove Formwork & Falsework	12	30-Dec-16 A	0	16-Jan-17 A				100%			
	gment / Infill Segment											
E13B-C5110	E13B - Temp. Work, Grillages, Megashore Towers, Rail Beams	29	17-Jan-17 A	25	22-Feb-17	27-May-15	25-Jun-15	-493	15%			
	E13B - Install PH Segment (4 nr)	8	23-Feb-17	8	03-Mar-17	26-Jun-15	06-Jul-15	-493	0%			<u>_</u>
	E13B - Diaphragm of PHS - Formwork, Rebar, Concreting	77	04-Mar-17	77	09-Jun-17	07-Jul-15	07-Oct-15	-493	0%			
Pier E13C (E	6c)											
Pier												
	E13C Pier - TW, Rebar, Formwork, Concreting - Upper Arm (Soild)	36	15-Nov-16 A	0					100%			
	E13C Pier - Curing, CJ, Remove Formwork & Falsework	12	28-Dec-16 A	0	20-Jan-17 A				100%			
	gment / Infill Segment		1									
	E13C - Temp. Work, Grillages, Megashore Towers, Rail Beams	29	21-Jan-17	29	27-Feb-17	04-Sep-15	09-Oct-15	-410	0%			
	E13C - Install PH Segment (4 nr)	12	28-Feb-17	12	13-Mar-17	10-Oct-15	24-Oct-15	-410	0%			
Pier E13D (E	E13C - Diaphragm of PHS - Formwork, Rebar, Concreting	76	14-Mar-17	76	17-Jun-17	26-Oct-15	25-Jan-16	-410	0%			
<u> </u>	50)											
Pier	5420 Dise. TW Debey Forework Constanting Users Are (Calid)	20	04 Nev 46 A	0	20 Dec 40 A				4000/			
	E13D Pier - TW, Rebar, Formwork, Concreting - Upper Arm (Solid) E13D Pier - Curing, CJ, Remove Formwork & Falsework	36 12	21-Nov-16 A 31-Dec-16 A	0	30-Dec-16 A 24-Jan-17	12-Aug-15	14-Aug-15	-429	100%			
	gment / Infill Segment	12	51-Dec-10A	5	24-Jai 1-17	12-Aug-10	14-Aug-15	-429	0 /0			
	E13D - Temp. Work, Grillages, Megashore Towers, Rail Beams	29	25-Jan-17	29	02-Mar-17	15-Aug-15	18-Sep-15	-429	0%			
	E13D - Install PH Segment (4 nr)	8	03-Mar-17	8	11-Mar-17	19-Sep-15	29-Sep-15	-429	0%			
	E13D - Diaphragm of PHS - Formwork, Rebar, Concreting	77	13-Mar-17	77	17-Jun-17	30-Sep-15	02-Jan-16	-429	0%			
Pier E14A (E												
Foundation -	·											
	E14A EB Pile - Excavate, Rebar, Concrete (2nd) P3 - Resume	9	20-Dec-16 A	0	16-Jan-17 A				100%			
	E14A EB PIle - Curing & Sonic Test	18	17-Jan-17 A	14	09-Feb-17	10-Jul-15	25-Jul-15	-457	0%			4
	E14A EB PIle - Full Depth Core & Test	12	10-Feb-17	12	23-Feb-17	27-Jul-15	08-Aug-15	-457	0%			
Pile Cap				15	13-Mar-17	10-Aug-15	26-Aug-15	-457	0%			
Pile Cap E14A-C3110	E14A Pile Cap - Excavate, Break Pile Head	15	24-Feb-17*									
Pile Cap E14A-C3110 E14A-C3210	E14A Pile Cap - Blinding, Formwork, Rebar, Concrete	19	14-Mar-17	19	04-Apr-17	27-Aug-15	18-Sep-15	-457	0%			
Pile Cap E14A-C3110 E14A-C3210 E14A-C3310	E14A Pile Cap - Blinding, Formwork, Rebar, Concrete E14A Pile Cap - Curing, Remove Formwork, Backfill						18-Sep-15 05-Oct-15	-457 -457	0%			
Pile Cap E14A-C3110 E14A-C3210	E14A Pile Cap - Blinding, Formwork, Rebar, Concrete E14A Pile Cap - Curing, Remove Formwork, Backfill	19	14-Mar-17	19	04-Apr-17	27-Aug-15	· · ·					
Pile Cap E14A-C3110 E14A-C3210 E14A-C3310 Pier E14B (E	E14A Pile Cap - Blinding, Formwork, Rebar, Concrete E14A Pile Cap - Curing, Remove Formwork, Backfill 7d)	19	14-Mar-17 06-Apr-17	19 12	04-Apr-17 22-Apr-17	27-Aug-15 19-Sep-15	05-Oct-15		0%	Revision		Αρριονι
Pile Cap           E14A-C3110           E14A-C3210           E14A-C3310           Pier E14B (E           Actual Work	E14A Pile Cap - Blinding, Formwork, Rebar, Concrete E14A Pile Cap - Curing, Remove Formwork, Backfill	19 12	14-Mar-17 06-Apr-17 Tuen Mun - C	19 12 Chek L	04-Apr-17 22-Apr-17 ap Kok Link -	27-Aug-15 19-Sep-15 Southern Co	05-Oct-15 nnection	-457	0% Date	Revision	Checked	
Pile Cap E14A-C3110 E14A-C3210 E14A-C3310 Pier E14B (E	E14A Pile Cap - Blinding, Formwork, Rebar, Concrete E14A Pile Cap - Curing, Remove Formwork, Backfill 7d) Project ID: TMCLK-DWPH-M44	19 12	14-Mar-17 06-Apr-17 Tuen Mun - C S-Month Rol	19 12 Chek L ling F	04-Apr-17 22-Apr-17 ap Kok Link -	27-Aug-15 19-Sep-15 Southern Co (Page 8 of	05-Oct-15 nnection	-457	0%		PKN	Approve GL GL



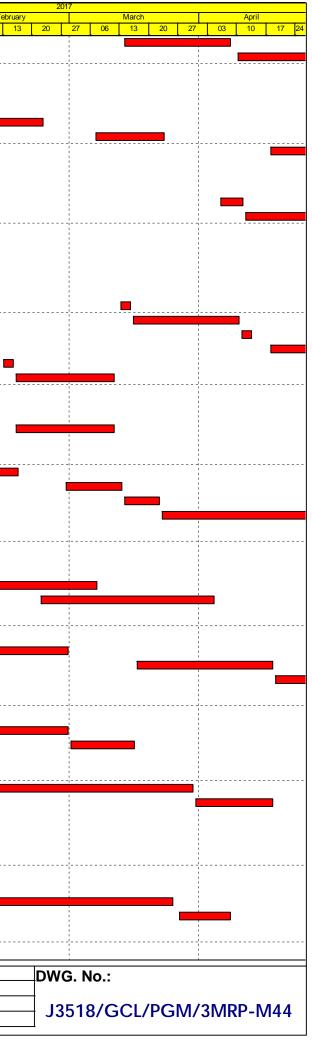
	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Complete	January	
Foundation -	Bored Piles								19	26 02 09 16	23 3
	E14B EB Pile - Excavate, Rebar, Concrete (3rd) P1	19	19-Dec-16 A	1	21-Jan-17	26-Jun-15	26-Jun-15	-468	0%		
	E14B EB Pile - Excavale, Rebar, Concrete (3rd) P1 E14B EB Pile - Curing & Sonic Test	19	23-Jan-17	18	15-Feb-17	26-Jun-15 27-Jun-15	18-Jul-15	-468	0%		_
	E14B EB Pile - Curing & Sonic Test	18	16-Feb-17	10	01-Mar-17	27-Jun-15 20-Jul-15	01-Aug-15	-468	0%	••••••	
	E 14B EB Pile - Pull Depth Core & Test	12	10-Feb-17	12	01-Ivial-17	20-Jul-15	01-Aug-15	-400	0%		
Pile Cap											1
	E14B Pile Cap - Excavate, Break Pile Head	15	17-Mar-17*	15	03-Apr-17	03-Aug-15	19-Aug-15	-481	0%		
	E14B Pile Cap - Blinding, Formwork, Rebar, Concrete	19	04-Apr-17	19	29-Apr-17	20-Aug-15	11-Sep-15	-481	0%		
Pier E14C (E	6d)										1
Foundation -	Bored Piles										
E14C-C2140	E14C EB Pile - Excavate, Rebar, Concrete (3rd) P2	18	07-Dec-16 A	0	17-Jan-17 A			1	100%		1
	E14C EB Plle - Curing & Sonic Test	18	18-Jan-17 A	15	10-Feb-17	08-Oct-15	26-Oct-15	-383	0%		1
Pile Cap					101001		20 0 0 1 10		0,0		
	E440 Bile Con Evenueta Brack Bile Llood	15	11 Eab 17	15	20 Eab 17	07 Oct 15	10 Nov 15	202	09/		
	E14C Pile Cap - Excavate, Break Pile Head	15	11-Feb-17	15	28-Feb-17	27-Oct-15	12-Nov-15	-383 -383	0%		
	E14C Pile Cap - Blinding, Formwork, Rebar, Concrete	19	01-Mar-17	19	22-Mar-17	13-Nov-15	04-Dec-15		0%		1
	E14C Pile Cap - Curing, Remove Formwork, Backfill	12	23-Mar-17	12	06-Apr-17	05-Dec-15	18-Dec-15	-383	0%		
Pier				. <u> </u>							
E14C-C4110	E14C Pier - Scaffold, Rebar, Formwork, Concrete (1st Lift)	13	07-Apr-17	13	25-Apr-17	19-Dec-15	06-Jan-16	-383	0%		
Pier E14D (E	5d)										
Foundation -										·····	
	E14D EB Pile - Excavate, Rebar, Concrete (2nd) P4	10	29-Nov-16 A		12-Jan-17 A				100%		
	E14D EB Pile - Excavate, Rebar, Concrete (2nd) P4 E14D EB Pile - Excavate, Rebar, Concrete (3rd) P1	18		0		10 4 45	OF A 45	500			
		18	13-Jan-17 A	12	07-Feb-17	13-Apr-15	25-Apr-15	-529	0%		
	E14D EB Pile - Excavate, Rebar, Concrete (4th) P3	18	14-Feb-17*	18	06-Mar-17	27-Apr-15	18-May-15	-534	0%		1
	E14D EB PIIe - Curing & Sonic Test	18	07-Mar-17	18	27-Mar-17	19-May-15	09-Jun-15	-534	0%	·····	
Pile Cap											
	E14D Pile Cap - Excavate, Break Pile Head	15	28-Mar-17	15	18-Apr-17	10-Jun-15	27-Jun-15	-534	0%		
E14D-C3210	E14D Pile Cap - Blinding, Formwork, Rebar, Concrete	19	19-Apr-17	19	12-May-17	29-Jun-15	21-Jul-15	-534	0%		
Viaduct F - Br	ridge F1										1   
Pier F1 (F1b)	<u> </u>										
Foundation -											1
F01-C2210	F1 EB PIle - Curing & Sonic Test	18	12-Dec-16 A	3	24-Jan-17	01-Aug-15	04-Aug-15	-438	100%		
Pile Cap											1
F01-C3110	F1 Pile Cap - Excavate, Break Pile Head	15	25-Jan-17	15	14-Feb-17	05-Aug-15	21-Aug-15	-438	0%		
F01-C3210	F1 Pile Cap - Blinding, Formwork, Rebar, Concrete	19	15-Feb-17	19	08-Mar-17	22-Aug-15	14-Sep-15	-438	0%		
F01-C3310	F1 Pile Cap - Curing, Remove Formwork, Backfill	12	09-Mar-17	12	22-Mar-17	15-Sep-15	29-Sep-15	-438	0%	·····	
Pier					mai m			100	070		
	E1 Diar Scoffold Dobar Formwork Concrete (1 of 1 ift)	10	22 Mar 17	12	07 Apr 17	20 Son 15	15 Oct 15	420	00/		
F01-C4110	F1 Pier - Scaffold, Rebar, Formwork, Concrete (1st Lift)	13	23-Mar-17	13	07-Apr-17	30-Sep-15	15-Oct-15	-438	0%		
F01-C4210	F1 Pier - Scaffold, Rebar, Formwork, Concrete (2nd Lift)	18	08-Apr-17	18	04-May-17	16-Oct-15	06-Nov-15	-438	0%		
Pier F2 (F1c)											
Foundation -	Bored Piles										
F02-C2110	F2 Fr Pile - Set-up Plant & Install Sleeve	6	01-Feb-17*	6	07-Feb-17	01-Jun-15	06-Jun-15	-495	0%		
F02-C2120	F2 Fr Pile - Excavate, Rebar, Concrete (1st) P1	12	08-Feb-17	12	21-Feb-17	08-Jun-15	22-Jun-15	-495	0%		
F02-C2120	F2 Fr Pile - Excavate, Rebar, Concrete (2nd) P2	12	25-Feb-17*	12	10-Mar-17	23-Jun-15	07-Jul-15	-498	0%		
		12	28-Mar-17*	12	11-Apr-17	08-Jul-15	21-Jul-15	-490	0%		
			20-iviai - 11	14	11-7-p1-17			-512	0%	·····	
F02-C2140	F2 Fr Pile - Excavate, Rebar, Concrete (3rd) P3		12-Apr 17	10	08-May 17	22_1.1.15	11-Auro 15				1
F02-C2140 F02-C2210	F2 Fr Plle - Curing & Sonic Test	18	12-Apr-17	18	08-May-17	22-Jul-15	11-Aug-15	-512	078		
F02-C2140 F02-C2210 Pier F3 (F1d)	F2 Fr Plle - Curing & Sonic Test		12-Apr-17	18	08-May-17	22-Jul-15	11-Aug-15	-512	078		
F02-C2140 F02-C2210	F2 Fr Plle - Curing & Sonic Test		12-Apr-17	18	08-May-17	22-Jul-15	11-Aug-15	-512	078		
F02-C2140 F02-C2210 Pier F3 (F1d)	F2 Fr Plle - Curing & Sonic Test		12-Apr-17 07-Feb-17*	18	08-May-17 23-Feb-17	22-Jul-15	11-Aug-15 14-Jul-15	-312	0%		
F02-C2140 F02-C2210 Pier F3 (F1d) Foundation - F03-C2130	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2	18		15		26-Jun-15	14-Jul-15	-479	0%		
F02-C2140 F02-C2210 Pier F3 (F1d) Foundation - F03-C2130 F03-C2180	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 -Replacement	18 15 15	07-Feb-17* 02-Mar-17*	15 15	23-Feb-17 18-Mar-17	26-Jun-15 15-Jul-15	14-Jul-15 31-Jul-15	-479 -484	0% 0%		
F02-C2140 F02-C2210 Pier F3 (F1d) Foundation - F03-C2130 F03-C2180 F03-C2190	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 -Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3	18	07-Feb-17*	15	23-Feb-17	26-Jun-15	14-Jul-15	-479	0%		
F02-C2140 F02-C2210 Pier F3 (F1d) Foundation - F03-C2130 F03-C2180 F03-C2190 Viaduct F - Br	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 - Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2	18 15 15	07-Feb-17* 02-Mar-17*	15 15	23-Feb-17 18-Mar-17	26-Jun-15 15-Jul-15	14-Jul-15 31-Jul-15	-479 -484	0% 0%		
F02-C2140 F02-C2210 Pier F3 (F1d) Foundation - F03-C2130 F03-C2180 F03-C2190	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 - Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2	18 15 15	07-Feb-17* 02-Mar-17*	15 15	23-Feb-17 18-Mar-17	26-Jun-15 15-Jul-15	14-Jul-15 31-Jul-15	-479 -484	0% 0%		
F02-C2140 F02-C2210 Pier F3 (F1d) Foundation - F03-C2130 F03-C2180 F03-C2190 Viaduct F - Br	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 -Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2	18 15 15	07-Feb-17* 02-Mar-17*	15 15	23-Feb-17 18-Mar-17	26-Jun-15 15-Jul-15	14-Jul-15 31-Jul-15	-479 -484	0% 0%		
F02-C2140 F02-C2210 Pier F3 (F1d) F03-C2130 F03-C2130 F03-C2190 Viaduct F - Br Pier F4 (F2b) Foundation -	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 -Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2         Bored Piles	18 15 15 15	07-Feb-17* 02-Mar-17* 08-Apr-17*	15 15 15	23-Feb-17 18-Mar-17 28-Apr-17	26-Jun-15 15-Jul-15 01-Aug-15	14-Jul-15 31-Jul-15 18-Aug-15	-479 -484 -500	0% 0% 		
F02-C2140 F02-C2210 Pier F3 (F1d) F03-C2130 F03-C2180 F03-C2190 Viaduct F - Br Pier F4 (F2b) Foundation - F04-C2110	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 -Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2         Bored Piles         F4 Fr Pile - Set-up Plant & Install Sleeve	18 15 15 15	07-Feb-17* 02-Mar-17* 08-Apr-17* 14-Mar-17*	15 15 15	23-Feb-17 18-Mar-17 28-Apr-17 20-Mar-17	26-Jun-15 15-Jul-15 01-Aug-15 04-Sep-15	14-Jul-15 31-Jul-15 18-Aug-15 10-Sep-15	-479 -484 -500	0% 0% 		
F02-C2140 F02-C2210 Pier F3 (F1d) F03-C2130 F03-C2180 F03-C2190 Viaduct F - Br Pier F4 (F2b) Foundation - F04-C2110 F04-C2120	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 - Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2         Bored Piles         F4 Fr Pile - Set-up Plant & Install Sleeve         F4 Fr Pile - Excavate, Rebar, Concrete (1st) P1	18 15 15 15	07-Feb-17* 02-Mar-17* 08-Apr-17*	15 15 15	23-Feb-17 18-Mar-17 28-Apr-17	26-Jun-15 15-Jul-15 01-Aug-15	14-Jul-15 31-Jul-15 18-Aug-15	-479 -484 -500	0% 0% 		
F02-C2140 F02-C2210 Pier F3 (F1d) F03-C2130 F03-C2130 F03-C2190 Viaduct F - Br Pier F4 (F2b) Foundation - F04-C2110 F04-C2120 Pier F5 (F2c)	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 - Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2         Bored Piles         F4 Fr Pile - Set-up Plant & Install Sleeve         F4 Fr Pile - Excavate, Rebar, Concrete (1st) P1	18 15 15 15	07-Feb-17* 02-Mar-17* 08-Apr-17* 14-Mar-17*	15 15 15	23-Feb-17 18-Mar-17 28-Apr-17 20-Mar-17	26-Jun-15 15-Jul-15 01-Aug-15 04-Sep-15	14-Jul-15 31-Jul-15 18-Aug-15 10-Sep-15	-479 -484 -500	0% 0% 		
F02-C2140 F02-C2210 Pier F3 (F1d) F03-C2130 F03-C2180 F03-C2190 Viaduct F - Br Pier F4 (F2b) Foundation - F04-C2110 F04-C2120	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 - Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2         Bored Piles         F4 Fr Pile - Set-up Plant & Install Sleeve         F4 Fr Pile - Excavate, Rebar, Concrete (1st) P1	18 15 15 15	07-Feb-17* 02-Mar-17* 08-Apr-17* 14-Mar-17*	15 15 15	23-Feb-17 18-Mar-17 28-Apr-17 20-Mar-17	26-Jun-15 15-Jul-15 01-Aug-15 04-Sep-15	14-Jul-15 31-Jul-15 18-Aug-15 10-Sep-15	-479 -484 -500	0% 0% 		
F02-C2140 F02-C2210 Pier F3 (F1d) F03-C2130 F03-C2130 F03-C2190 Viaduct F - Br Pier F4 (F2b) Foundation - F04-C2110 F04-C2120 Pier F5 (F2c)	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 - Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2         Bored Piles         F4 Fr Pile - Set-up Plant & Install Sleeve         F4 Fr Pile - Excavate, Rebar, Concrete (1st) P1	18 15 15 15	07-Feb-17* 02-Mar-17* 08-Apr-17* 14-Mar-17*	15 15 15	23-Feb-17 18-Mar-17 28-Apr-17 20-Mar-17	26-Jun-15 15-Jul-15 01-Aug-15 04-Sep-15 11-Sep-15	14-Jul-15 31-Jul-15 18-Aug-15 10-Sep-15 03-Oct-15	-479 -484 -500 -451 -451	0% 0% 		
F02-C2140 F02-C2210 Pier F3 (F1d) F03-C2130 F03-C2130 F03-C2190 Viaduct F - Br Pier F4 (F2b) Foundation - F04-C2110 F04-C2120 Pier F5 (F2c) Foundation - F05-C2140	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 - Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2         Bored Piles         F4 Fr Pile - Set-up Plant & Install Sleeve         F4 Fr Pile - Excavate, Rebar, Concrete (1st) P1         Bored Piles         F4 Fr Pile - Excavate, Rebar, Concrete (1st) P1         F5 EB Pile - Excavate, Rebar, Concrete (3rd) P2	18 15 15 15 15 6 18 18	07-Feb-17* 02-Mar-17* 08-Apr-17* 14-Mar-17* 21-Mar-17 21-Dec-16 A	15 15 15 6 18 6	23-Feb-17 18-Mar-17 28-Apr-17 20-Mar-17 11-Apr-17 27-Jan-17	26-Jun-15 15-Jul-15 01-Aug-15 04-Sep-15 11-Sep-15 16-Oct-15	14-Jul-15 31-Jul-15 18-Aug-15 10-Sep-15 03-Oct-15 23-Oct-15	-479 -484 -500 -451 -451 -376	0% 0% 		
F02-C2140 F02-C2210 <b>Pier F3 (F1d)</b> F03-C2130 F03-C2180 F03-C2190 Viaduct F - Br Pier F4 (F2b) Foundation - F04-C2110 F04-C2120 Pier F5 (F2c) Foundation -	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 - Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2         Bored Piles         F4 Fr Pile - Set-up Plant & Install Sleeve         F4 Fr Pile - Excavate, Rebar, Concrete (1st) P1	18 15 15 15 15 6 18	07-Feb-17* 02-Mar-17* 08-Apr-17* 14-Mar-17* 21-Mar-17	15 15 15 6 18	23-Feb-17 18-Mar-17 28-Apr-17 20-Mar-17 11-Apr-17	26-Jun-15 15-Jul-15 01-Aug-15 04-Sep-15 11-Sep-15	14-Jul-15 31-Jul-15 18-Aug-15 10-Sep-15 03-Oct-15	-479 -484 -500 -451 -451	0% 0% 		
F02-C2140 F02-C2210 Pier F3 (F1d) F03-C2130 F03-C2130 F03-C2190 /iaduct F - Br Pier F4 (F2b) Foundation - F04-C2110 F04-C2120 Pier F5 (F2c) Foundation - F05-C2140 F05-C2210	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 - Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2         Bored Piles         F4 Fr Pile - Set-up Plant & Install Sleeve         F4 Fr Pile - Excavate, Rebar, Concrete (1st) P1         Bored Piles         F4 Fr Pile - Excavate, Rebar, Concrete (1st) P1         F5 EB Pile - Excavate, Rebar, Concrete (3rd) P2	18 15 15 15 15 6 18 18	07-Feb-17* 02-Mar-17* 08-Apr-17* 14-Mar-17* 21-Mar-17 21-Dec-16 A 01-Feb-17	15 15 15 6 18 6 18	23-Feb-17 18-Mar-17 28-Apr-17 20-Mar-17 11-Apr-17 27-Jan-17 21-Feb-17	26-Jun-15 15-Jul-15 01-Aug-15 04-Sep-15 11-Sep-15 16-Oct-15 24-Oct-15	14-Jul-15 31-Jul-15 18-Aug-15 10-Sep-15 03-Oct-15 23-Oct-15 13-Nov-15	-479 -484 -500 -451 -451 -376	0% 0% 	Revision Checked	
F02-C2140 F02-C2210 Pier F3 (F1d) F03-C2130 F03-C2130 F03-C2190 Viaduct F - Br Pier F4 (F2b) Foundation - F04-C2110 F04-C2120 Pier F5 (F2c) Foundation - F05-C2140 F05-C2210	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 - Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2         Bored Piles         F4 Fr Pile - Set-up Plant & Install Sleeve         F4 Fr Pile - Excavate, Rebar, Concrete (1st) P1         Bored Piles         F5 EB Pile - Excavate, Rebar, Concrete (3rd) P2         F5 EB Pile - Excavate, Rebar, Concrete (3rd) P2         F5 EB Pile - Curing & Sonic Test         Project ID: TMCLK-DWPH-M44         Layout: J3518-DWP-3MRP Submission - M44	18 15 15 15 15 6 18 18 18 18	07-Feb-17* 02-Mar-17* 08-Apr-17* 14-Mar-17* 21-Mar-17 21-Dec-16 A 01-Feb-17 <b>Tuen Mun - (</b>	15 15 15 6 18 6 18 6 18 <b>Chek L</b>	23-Feb-17 18-Mar-17 28-Apr-17 20-Mar-17 11-Apr-17 27-Jan-17 21-Feb-17 <b>ap Kok Link -</b>	26-Jun-15 15-Jul-15 01-Aug-15 04-Sep-15 11-Sep-15 16-Oct-15 24-Oct-15 Southern Co	14-Jul-15 31-Jul-15 18-Aug-15 10-Sep-15 03-Oct-15 23-Oct-15 13-Nov-15	-479 -484 -500 -451 -451 -376	0% 0% 0% 0% 0% 100% 0%	Revision Checked	
F02-C2140 F02-C2210 Pier F3 (F1d) F03-C2130 F03-C2130 F03-C2190 Viaduct F - Br Pier F4 (F2b) Foundation - F04-C2110 F04-C2120 Pier F5 (F2c) Pier F5 (F2c) Foundation - F05-C2140 F05-C2210	F2 Fr Plle - Curing & Sonic Test         Bored Piles         F3 Fr Pile - Excavate, Rebar, Concrete (1st) P2         F3 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 - Replacement         F3 Fr Pile - Excavate, Rebar, Concrete (3rd) P3         ridge F2         Bored Piles         F4 Fr Pile - Set-up Plant & Install Sleeve         F4 Fr Pile - Excavate, Rebar, Concrete (1st) P1         Bored Piles         F5 EB Pile - Excavate, Rebar, Concrete (3rd) P2         F5 EB Pile - Curing & Sonic Test         Project ID: TMCLK-DWPH-M44	18 15 15 15 15 6 18 18 18 18	07-Feb-17* 02-Mar-17* 08-Apr-17* 14-Mar-17* 21-Mar-17 21-Dec-16 A 01-Feb-17 Tuen Mun - 0 5-Month Rol	15 15 15 6 18 6 18 Chek La Iing P	23-Feb-17 18-Mar-17 28-Apr-17 20-Mar-17 11-Apr-17 27-Jan-17 21-Feb-17 <b>ap Kok Link -</b>	26-Jun-15 15-Jul-15 01-Aug-15 04-Sep-15 11-Sep-15 11-Sep-15 16-Oct-15 24-Oct-15 24-Oct-15 Southern Cot (Page 9 of	14-Jul-15 31-Jul-15 18-Aug-15 10-Sep-15 03-Oct-15 23-Oct-15 13-Nov-15	-479 -484 -500 -451 -451 -376	0% 0% 0% 0% 0% 100%	. PKN G	



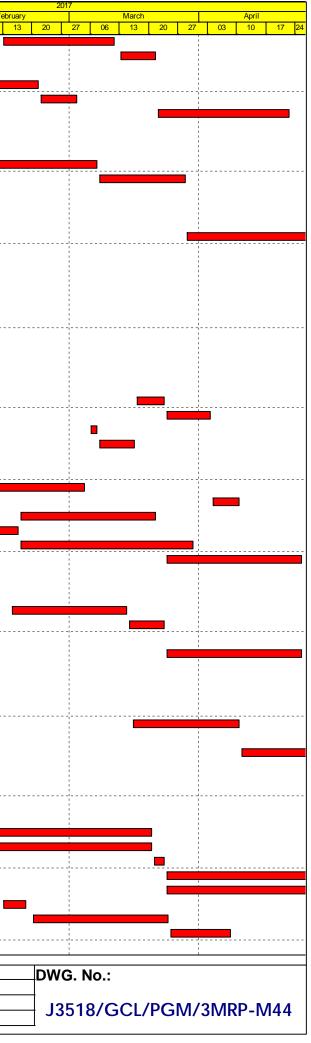
	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Physical % Complete	2016		
F05-C2220	F5 EB Plle - Full Depth Core & Test	12	22-Feb-17	12	07-Mar-17	14-Nov-15	27-Nov-15	-376	1 0%	19 26	02 09 16	5 <u>23</u> <u>30</u>
vier F6 (F2d)		12		12	or Mai II		27 1107 10	010	070			
Foundation - E	Rored Piles											
	F6 EB Pile - Excavate, Rebar, Concrete (1st) P2	13	12-Dec-16 A	0	29-Dec-16 A	(	·		100%			
	F6 EB Pile - Excavate, Rebar, Concrete (2nd) P1	17	05-Jan-17 A	5	26-Jan-17	10-Dec-15	15-Dec-15	-330	0%			
	F6 EB Pile - Excavate, Rebar, Concrete (3rd) P3	12	10-Feb-17*	12	23-Feb-17	16-Dec-15	31-Dec-15	-339	0%			
	F6 EB PIle - Curing & Sonic Test	18	24-Feb-17	18	16-Mar-17	02-Jan-16	22-Jan-16	-339	0%			
ier F7 (F2e)												
Foundation - E	Bored Piles											
	F7 EB Pile - Excavate, Rebar, Concrete (2nd) P3	18	05-Dec-16 A	0	23-Dec-16 A	ĺ	ĺ		100%			
	F7 EB Pile - Excavate, Rebar, Concrete (3rd) P2	23	28-Dec-16 A	1	21-Jan-17	03-May-16	03-May-16	-217	0%	=		
	F7 EB PIle - Curing & Sonic Test	18	23-Jan-17	18	15-Feb-17	04-May-16	25-May-16	-217	0%			
Pile Cap												
	F7 Pile Cap - Excavate, Break Pile Head	15	16-Feb-17	15	04-Mar-17	26-May-16	13-Jun-16	-217	0%			
	F7 Pile Cap - Blinding, Formwork, Rebar, Concrete	19	06-Mar-17	19	27-Mar-17	14-Jun-16	06-Jul-16	-217	0%			
	F7 Pile Cap - Curing, Remove Formwork, Backfill	12	28-Mar-17	12	11-Apr-17	07-Jul-16	20-Jul-16	-217	0%			
aduct F - Bri	idge F3											
ier F9 (F3d)												
oundation - E	Pered Biles							_				
		40	05 Mar 47*	40	09 4 47	15 645	00 6445	504	001			
	F9 Fr Pile - Excavate, Rebar, Concrete (2nd) P1 F9 Fr Pile - Excavate, Rebar, Concrete (3rd) P3	12	25-Mar-17* 13-Apr-17*	12 12	08-Apr-17 29-Apr-17	15-Jul-15 29-Jul-15	28-Jul-15 11-Aug-15	-504 -507	0% 0%			+
	F9 Fr Pile - Excavate, Rebar, Concrete (3rd) P3 F9 Fr Pile - Install Kentledges for Load Test (Prelim. Pile)	28	13-Apr-17 13-Dec-16 A	0	17-Jan-17 A	23-Jui-13	11-Aug-15	-507	100%			
	F9 Fr Pile - Cary Out Load Test (Prelim. Pile)	5	18-Jan-17 A	2	23-Jan-17	23-May-15	26-May-15	-495	0%			
	F9 Fr Pile - Load Test Report Submission & Approval (Prelim. Pile)	4	24-Jan-17	4	27-Jan-17	27-May-15	30-May-15	-495	0%			
	F9 Fr Pile - Remove Kentledges / Footing & Clear Area	30	24-Jan-17	30	02-Mar-17	08-Jun-15	14-Jul-15	-485	0%			
ier F10 (F3c												
Foundation - E	·											
	F10 EB Pile - Excavate, Rebar, Concrete (2nd) P3	14	16-Dec-16 A	0	04-Jan-17 A	1	1		100%		<b></b>	
	F10 EB Pile - Excavate, Rebar, Concrete (2nd) P3	14	18-Jan-17 A	15	10-Feb-17	11-Dec-15	30-Dec-15	-329	0%		-	i.
	F10 EB Pile - Excavate, Rebar, Concrete (3rd) 14	14	15-Feb-17*	14	02-Mar-17	31-Dec-15	16-Jan-16	-332	0%			į
	F10 EB Plle - Curing & Sonic Test	18	03-Mar-17	14	23-Mar-17	18-Jan-16	06-Feb-16	-332	0%			
ier F11 (F3b)		10				re cuir re	0010010	001	070			
Foundation - E	·			_				_				
	F11 EB Pile - Excavate, Rebar, Concrete (2nd) P3	17	19-Dec-16 A	2		02-Apr-20	03-Apr-20	946	0%			
	F11 EB Pile - Excavate, Rebar, Concrete (2nd) P3 F11 EB Pile - Excavate, Rebar, Concrete (3rd) P1	17	11-Jan-17 A	2 11	23-Jan-17 06-Feb-17	02-Apr-20 07-Mar-16	18-Mar-16	-261	0%			
	F11 EB Pile - Excavate, Rebar, Concrete (4th) P4	17	02-Mar-17*	17	21-Mar-17	19-Mar-16	12-Apr-16	-281	0%			
	F11 EB Pile - Curing & Sonic Test	18	22-Mar-17	18	12-Apr-17	13-Apr-16	04-May-16	-281	0%			
aduct F - Bri						·	ļ					
ier F16 (F5a	<u> </u>					<u> </u>						
Foundation - E			01.5							<u></u>		
F16-C2110	F16 EB Pile - Set-up Plant & Install Sleeve	6	21-Dec-16 A	0	29-Dec-16 A				100%			
F16-C2110 F16-C2120	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3	24	30-Dec-16 A	11	06-Feb-17	03-Oct-15	15-Oct-15	-387	0%			
F16-C2110 F16-C2120 F16-C2130	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1	24 24	30-Dec-16 A 09-Feb-17*	11 24	06-Feb-17 08-Mar-17	16-Oct-15	13-Nov-15	-389	0% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2	24 24 24	30-Dec-16 A 09-Feb-17* 15-Mar-17*	11 24 24	06-Feb-17 08-Mar-17 12-Apr-17	16-Oct-15 14-Nov-15	13-Nov-15 11-Dec-15	-389 -394	0% 0% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4	24 24	30-Dec-16 A 09-Feb-17*	11 24	06-Feb-17 08-Mar-17	16-Oct-15	13-Nov-15	-389	0% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 ier F17 (F4b	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>)</b>	24 24 24	30-Dec-16 A 09-Feb-17* 15-Mar-17*	11 24 24	06-Feb-17 08-Mar-17 12-Apr-17	16-Oct-15 14-Nov-15	13-Nov-15 11-Dec-15	-389 -394	0% 0% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 F16-C2150 F16-C2150 F17 (F4b	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Bored Piles</b>	24 24 24 25	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17*	11 24 24 25	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17	16-Oct-15 14-Nov-15	13-Nov-15 11-Dec-15	-389 -394	0% 0% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 <b>ier F17 (F4b</b> F00ndation - F F17-C2110	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Bored Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve	24 24 24 25	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A	11 24 24 25 	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A	16-Oct-15 14-Nov-15 12-Dec-15	13-Nov-15 11-Dec-15 13-Jan-16	-389 -394 -397	0% 0% 0% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 ier F17 (F4b F00000000000000000000000000000000000	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>30red Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Excavate, Rebar, Concrete (1st) P2	24 24 25 	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A 07-Jan-17 A	11 24 24 25 	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A 08-Feb-17	16-Oct-15 14-Nov-15 12-Dec-15 09-Dec-15	13-Nov-15 11-Dec-15 13-Jan-16 23-Dec-15	-389 -394 -397	0% 0% 0% 100% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 ier F17 (F4b F00000000000000000000000000000000000	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Bored Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Excavate, Rebar, Concrete (1st) P2 F17 EB Pile - Excavate, Rebar, Concrete (2nd) P1	24 24 25 25 6 18 18	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A 07-Jan-17 A 21-Feb-17*	11 24 24 25 0 13 18	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A 08-Feb-17 13-Mar-17	16-Oct-15 14-Nov-15 12-Dec-15 09-Dec-15 24-Dec-15	13-Nov-15 11-Dec-15 13-Jan-16 23-Dec-15 16-Jan-16	-389 -394 -397 -397 -331 -331	0% 0% 0% 100% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 <b>ier F17 (F4b</b> F000000000000000000000000000000000000	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Bored Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Excavate, Rebar, Concrete (1st) P2 F17 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F17 EB Pile - Excavate, Rebar, Concrete (3rd) P3	24 24 25 	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A 07-Jan-17 A	11 24 24 25 	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A 08-Feb-17	16-Oct-15 14-Nov-15 12-Dec-15 09-Dec-15	13-Nov-15 11-Dec-15 13-Jan-16 23-Dec-15	-389 -394 -397	0% 0% 0% 100% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 <b>ier F17 (F4b</b> F00ndation - F F17-C2110 F17-C2120 F17-C2130 F17-C2140 aduct F - Bri	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Sored Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Excavate, Rebar, Concrete (1st) P2 F17 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F17 EB Pile - Excavate, Rebar, Concrete (3rd) P3 <b>Gdge F5</b>	24 24 25 25 6 18 18	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A 07-Jan-17 A 21-Feb-17*	11 24 24 25 0 13 18	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A 08-Feb-17 13-Mar-17	16-Oct-15 14-Nov-15 12-Dec-15 09-Dec-15 24-Dec-15	13-Nov-15 11-Dec-15 13-Jan-16 23-Dec-15 16-Jan-16	-389 -394 -397 -397 -331 -331	0% 0% 0% 100% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 ier F17 (F4b Foundation - F F17-C2110 F17-C2120 F17-C2130 F17-C2130 F17-C2140 aduct F - Bri ier F13 (F5d	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Bored Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Excavate, Rebar, Concrete (1st) P2 F17 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F17 EB Pile - Excavate, Rebar, Concrete (3rd) P3 <b>idge F5</b> )	24 24 25 25 6 18 18	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A 07-Jan-17 A 21-Feb-17*	11 24 24 25 0 13 18	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A 08-Feb-17 13-Mar-17	16-Oct-15 14-Nov-15 12-Dec-15 09-Dec-15 24-Dec-15	13-Nov-15 11-Dec-15 13-Jan-16 23-Dec-15 16-Jan-16	-389 -394 -397 -397 -331 -331	0% 0% 0% 100% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 <b>ier F17 (F4b</b> F0undation - F F17-C2110 F17-C2120 F17-C2130 F17-C2140 aduct F - Bri ier F13 (F5d	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Bored Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Excavate, Rebar, Concrete (1st) P2 F17 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F17 EB Pile - Excavate, Rebar, Concrete (3rd) P3 <b>idge F5</b> )	24 24 25 25 6 18 18	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A 07-Jan-17 A 21-Feb-17*	11 24 24 25 0 13 18	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A 08-Feb-17 13-Mar-17	16-Oct-15 14-Nov-15 12-Dec-15 09-Dec-15 24-Dec-15	13-Nov-15 11-Dec-15 13-Jan-16 23-Dec-15 16-Jan-16	-389 -394 -397 -397 -331 -331	0% 0% 0% 100% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 <b>ier F17 (F4b</b> Foundation - E F17-C2110 F17-C2120 F17-C2130 F17-C2140 aduct F - Bri ier F13 (F5d F0undation - E	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Bored Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Excavate, Rebar, Concrete (1st) P2 F17 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F17 EB Pile - Excavate, Rebar, Concrete (3rd) P3 <b>idge F5</b> )	24 24 25 25 6 18 18	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A 07-Jan-17 A 21-Feb-17*	11 24 24 25 0 13 18	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A 08-Feb-17 13-Mar-17	16-Oct-15 14-Nov-15 12-Dec-15 09-Dec-15 24-Dec-15	13-Nov-15 11-Dec-15 13-Jan-16 23-Dec-15 16-Jan-16	-389 -394 -397 -397 -331 -331	0% 0% 0% 100% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 <b>ier F17 (F4b</b> Foundation - E F17-C2110 F17-C2120 F17-C2130 F17-C2140 aduct F - Bri ier F13 (F5d F0undation - E F13-C2140	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Bored Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Excavate, Rebar, Concrete (1st) P2 F17 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F17 EB Pile - Excavate, Rebar, Concrete (3rd) P3 <b>idge F5</b> <b>Bored Piles</b>	24 24 25 6 18 18 18	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A 07-Jan-17 A 21-Feb-17* 30-Mar-17*	11 24 24 25 0 13 18 18	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A 08-Feb-17 13-Mar-17 24-Apr-17	16-Oct-15 14-Nov-15 12-Dec-15 09-Dec-15 24-Dec-15	13-Nov-15 11-Dec-15 13-Jan-16 23-Dec-15 16-Jan-16	-389 -394 -397 -397 -331 -331	0% 0% 0% 0% 100% 0% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 <b>ier F17 (F4b</b> Foundation - E F17-C2110 F17-C2120 F17-C2140 F17-C2140 F13-C2140 F13-C2140 F13-C2210	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Sored Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Excavate, Rebar, Concrete (1st) P2 F17 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F17 EB Pile - Excavate, Rebar, Concrete (3rd) P3 <b>idge F5</b> <b>Sored Piles</b> F13 EB Pile - Excavate, Rebar, Concrete (3rd) P1	24 24 25 6 18 18 18 18 18	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A 07-Jan-17 A 21-Feb-17* 30-Mar-17*	11 24 24 25 0 13 18 18 18 18	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A 08-Feb-17 13-Mar-17 24-Apr-17 07-Jan-17 A	16-Oct-15 14-Nov-15 12-Dec-15 09-Dec-15 24-Dec-15 18-Jan-16	13-Nov-15 11-Dec-15 13-Jan-16 23-Dec-15 16-Jan-16 06-Feb-16	-389 -394 -397 -397 -331 -341 -355	0% 0% 0% 100% 0% 0% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 <b>ier F17 (F4b</b> F000000000000000000000000000000000000	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Bored Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Excavate, Rebar, Concrete (1st) P2 F17 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F17 EB Pile - Excavate, Rebar, Concrete (3rd) P3 <b>idge F5</b> <b>Bored Piles</b> F13 EB Pile - Excavate, Rebar, Concrete (3rd) P1 F13 EB Pile - Curing & Sonic Test	24 24 25 6 18 18 18 18 18 18 18 18	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A 07-Jan-17 A 21-Feb-17* 30-Mar-17* 12-Dec-16 A 09-Jan-17 A	11 24 25 0 13 18 18 18 	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A 08-Feb-17 13-Mar-17 24-Apr-17 07-Jan-17 A 01-Feb-17	16-Oct-15 14-Nov-15 12-Dec-15 09-Dec-15 24-Dec-15 18-Jan-16 07-Nov-15	13-Nov-15 11-Dec-15 13-Jan-16 23-Dec-15 16-Jan-16 06-Feb-16	-389 -394 -397 -397 -331 -341 -355 -355 -358	0% 0% 0% 100% 0% 0% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 <b>ier F17 (F4b</b> F000000000000000000000000000000000000	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Bored Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Excavate, Rebar, Concrete (1st) P2 F17 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F17 EB Pile - Excavate, Rebar, Concrete (3rd) P3 <b>Idge F5</b> <b>Bored Piles</b> F13 EB Pile - Excavate, Rebar, Concrete (3rd) P1 F13 EB Pile - Full Depth Core & Test F13 EB Pile - Full Depth Core & Test	24 24 25 6 18 18 18 18 18 18 18 18	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A 07-Jan-17 A 21-Feb-17* 30-Mar-17* 12-Dec-16 A 09-Jan-17 A 02-Feb-17	11 24 25 0 13 18 18 18 0 7 12	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A 08-Feb-17 13-Mar-17 24-Apr-17 07-Jan-17 A 01-Feb-17 15-Feb-17	16-Oct-15 14-Nov-15 12-Dec-15 09-Dec-15 24-Dec-15 18-Jan-16 07-Nov-15 16-Nov-15	13-Nov-15 11-Dec-15 13-Jan-16 23-Dec-15 16-Jan-16 06-Feb-16 14-Nov-15 28-Nov-15	-389 -394 -397 -397 -331 -341 -355 -355 -358	0% 0% 0% 100% 0% 0% 0%			
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 er F17 (F4b F00000000000000000000000000000000000	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Bored Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Excavate, Rebar, Concrete (1st) P2 F17 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F17 EB Pile - Excavate, Rebar, Concrete (3rd) P3 <b>Idge F5</b> <b>Bored Piles</b> F13 EB Pile - Excavate, Rebar, Concrete (3rd) P1 F13 EB Pile - Excavate, Rebar, Concrete (3rd) P1 F13 EB Pile - Curing & Sonic Test F13 EB Pile - Full Depth Core & Test Project ID: TMCLK-DWPH-M44	24 24 25 6 18 18 18 18 18 18 18 18	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A 07-Jan-17 A 21-Feb-17* 30-Mar-17* 12-Dec-16 A 09-Jan-17 A 02-Feb-17	11 24 25 0 13 18 18 18 0 7 12	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A 08-Feb-17 13-Mar-17 24-Apr-17 07-Jan-17 A 01-Feb-17	16-Oct-15 14-Nov-15 12-Dec-15 09-Dec-15 24-Dec-15 18-Jan-16 07-Nov-15 16-Nov-15	13-Nov-15 11-Dec-15 13-Jan-16 23-Dec-15 16-Jan-16 06-Feb-16 14-Nov-15 28-Nov-15	-389 -394 -397 -397 -331 -341 -355 -355 -358	0% 0% 0% 100% 0% 0% 0% 0% 0% 0%		/ision Checked	
F16-C2110 F16-C2120 F16-C2130 F16-C2140 F16-C2150 <b>ier F17 (F4b</b> F000000000000000000000000000000000000	F16 EB Pile - Set-up Plant & Install Sleeve F16 EB Pile - Excavate, Rebar, Concrete (1st) P3 F16 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P2 F16 EB Pile - Excavate, Rebar, Concrete (3rd) P4 <b>Bored Piles</b> F17 EB Pile - Set-up Plant & Install Sleeve F17 EB Pile - Excavate, Rebar, Concrete (1st) P2 F17 EB Pile - Excavate, Rebar, Concrete (2nd) P1 F17 EB Pile - Excavate, Rebar, Concrete (3rd) P3 <b>Idge F5</b> <b>Bored Piles</b> F13 EB Pile - Excavate, Rebar, Concrete (3rd) P1 F13 EB Pile - Full Depth Core & Test F13 EB Pile - Full Depth Core & Test	24 24 25 6 18 18 18 18 18 18 18 18 18 18 18 12	30-Dec-16 A 09-Feb-17* 15-Mar-17* 20-Apr-17* 02-Jan-17 A 07-Jan-17 A 21-Feb-17* 30-Mar-17* 12-Dec-16 A 09-Jan-17 A 02-Feb-17	11 24 24 25 0 13 18 18 18 18 0 7 12 <b>Chek La</b>	06-Feb-17 08-Mar-17 12-Apr-17 20-May-17 06-Jan-17 A 08-Feb-17 13-Mar-17 24-Apr-17 24-Apr-17 01-Feb-17 15-Feb-17 ap Kok Link - \$	16-Oct-15 14-Nov-15 12-Dec-15 09-Dec-15 24-Dec-15 18-Jan-16 07-Nov-15 16-Nov-15 Southern Co	13-Nov-15 11-Dec-15 13-Jan-16 23-Dec-15 16-Jan-16 06-Feb-16 14-Nov-15 28-Nov-15	-389 -394 -397 -397 -331 -341 -355 -355 -358 -358	0% 0% 0% 100% 0% 0% 0%		PKN	Apr GL GL



Activity ID	Activity Nome	Orig	Act Stort / EC Early	Rom	Act Finish / EC Forly	Late Start	Late Finish	Total Float	Dhysical %	2016				
Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish		Complete	2016		January		Feb
										19 26	02	09 16	23	30 06
F13-C3110	F13 Pile Cap - ELS/Excavate, Break Pile Head	22	14-Mar-17*	22	08-Apr-17	30-Nov-15	24-Dec-15	-380	0%					1 1 1
F13-C3210	F13 Pile Cap - Blinding, Formwork, Rebar, Concrete	19	10-Apr-17	19	06-May-17	28-Dec-15	19-Jan-16	-380	0%					
Pier F14 (F5	c)									I				1 1 1
Foundation -	Bored Piles													
F14-C2110	F14 Fr Pile - Set-up Plant & Install Sleeve	4	01-Feb-17	4	04-Feb-17	20-Aug-15	24-Aug-15	-428	0%	l				<b>—</b>
F14-C2120	F14 Fr Pile - Excavate, Rebar, Concrete (1st) P1	15	06-Feb-17	15	22-Feb-17	25-Aug-15	11-Sep-15	-428	0%	l				
F14-C2130	F14 Fr Pile - Excavate, Rebar, Concrete (2nd) P2	15	07-Mar-17*	15	23-Mar-17	05-Mar-16	22-Mar-16	-297	0%	l				
F14-C2140	F14 Fr Pile - Excavate, Rebar, Concrete (3rd) P3	15	18-Apr-17*	15	06-May-17	23-Mar-16	13-Apr-16	-314	0%					
Pier F15 (F5														
	- Bored Piles									l				
			00 4 47*	5	44 0 47	00.0+* 15	00.0.445	454	00/					
F15-C2110	F15 Fr Pile - Set-up Plant & Install Sleeve	5	06-Apr-17*	5	11-Apr-17	26-Sep-15	03-Oct-15	-451	0%	l				
F15-C2120	F15 Fr Pile - Excavate, Rebar, Concrete (1st) P1	15	12-Apr-17	15	04-May-17	05-Oct-15	22-Oct-15	-451	0%					
Superstructur	e & Associated Works									l				
Viaduct A														
Bridge A2										l				
Deck Span S										l				
A01-C6210	A1 - Install THB	3	13-Mar-17	3	15-Mar-17	02-Mar-16	04-Mar-16	-305	0%					
A01-C6310	A1 - End Span to A2 (6 nr) - THB	21	16-Mar-17	21	10-Apr-17	05-Mar-16	01-Apr-16	-305	0%	l				
A05-C6210	A5 - Install THB	3	11-Apr-17	3	13-Apr-17	02-Apr-16	06-Apr-16	-305	0%	I				
A05-C6310	A5 - Cantilever Span at A5 (16 nr) - THB	24	18-Apr-17	24	17-May-17	07-Apr-16	05-May-16	-305	0%	l				
A06-C6210	A6 - Install THB	3	13-Feb-17	3	15-Feb-17	30-Jan-16	02-Feb-16	-305	0%	l				
A06-C6310	A6 - End Span to A5 (6 nr) - THB	21	16-Feb-17	21	11-Mar-17	03-Feb-16	01-Mar-16	-305	0%					
Bridge A1										l				
Deck Span S	Seament													
A06-C6320	A6 - End Span to A7 (8 nr) - THB	21	16-Feb-17	21	11-Mar-17	03-Feb-16	01-Mar-16	-305	0%	l				
A07-C6310	A7 - Cantilever Span (Initial 7 nr) - THB	9	20-Dec-16 A	0	19-Jan-17 A	00-1 00-10	01-101-10	-303	100%					
A07-C6320	A7 - Install KF	6	20-Jan-17 A	2	23-Jan-17	23-Jan-16	25-Jan-16	-295	0%					
A07-C6330	A7 - Cantilever Span (Remaining 9 nr) - KF	18	24-Jan-17	18	16-Feb-17	26-Jan-16	18-Feb-16	-295	0%					
A08-C6310	A8 - Cantilever Span (Initial 3 nr) - Crane	12	28-Feb-17	12	13-Mar-17	02-Feb-16	18-Feb-16	-316	0%	l				
A08-C6410	A8 - Install KF (MTR)	8	14-Mar-17*	8	22-Mar-17	19-Feb-16	27-Feb-16	-316	0%	l				
A08-C6510	A8 - Cantilever Span (Remaining 23 nr) (MTR) - KF	42	23-Mar-17	42	17-May-17	29-Feb-16	21-Apr-16	-316	0%	l				
Viaduct B			20 100 17	72		2010010	2170	010	070					
Bridge B3										l				
Deck Fnishe	es, E&M and Roadworks													
VB3-C7710	Viaduct B3 - Parapet Panels	48	16-Dec-16 A	36	07-Mar-17	30-Jun-16	11-Aug-16	-169	30%					
VB3-C7720	Viaduct B3 - Gantry & TCSS Provisions (KD5)	36	22-Feb-17	36	04-Apr-17	29-Jul-16	08-Sep-16	-169	0%	l				
Bridge B2										l				
Deck Span S	Pagmant													
		50	07 1 47 4			00.4 40	40.14 40		000/	l				1
B11-C6310	B11 - Cantilever Span (Remaining 16 nr) - THB/Crane	52	07-Jan-17 A	30	28-Feb-17	09-Apr-16	16-May-16	-236	63%	l				1
B12-C6410	B12 - Falsework for End Span to B11	24	17-Mar-17	24	18-Apr-17	11-Jun-16	09-Jul-16	-229	0%	l				
B12-C6510	B12 - End Span to B11 (5 nr) - Crane	10	19-Apr-17	10	29-Apr-17	11-Jul-16	21-Jul-16	-229	0%	l				
Bridge B1														1
Deck Span S	Segment									I				
B12-C6210	B12 - Falsework for End Span to B13	24	01-Feb-17*	24	28-Feb-17	27-Feb-16	29-Mar-16	-274	0%	l				
B12-C6310	B12 - End Span to B13 (7 nr) - Crane	14	01-Mar-17	14	16-Mar-17	30-Mar-16	15-Apr-16	-274	0%	l				   
B14-C6310	B14 - Cantilever Span (24 nr) - Crane	48	12-Nov-16 A	0	22-Dec-16 A				100%	l ''				1
B15-C6310	B15 - Cantilever Span (Initial 7 nr) - Crane	20	06-Dec-16 A	0	29-Dec-16 A			_	100%					
B15-C6320	B15 - Cantilever Span (Remaining 19 nr) - Crane	42	10-Feb-17	42	30-Mar-17	08-Mar-16	29-Apr-16	-274	0%					
B16-C6310	B16 - Cantilever Span (24 nr) - Crane	28	13-Oct-16 A	12	18-Apr-17	30-Apr-16	16-May-16	-274	88%					
Viaduct C					107.01	007 pi 10	ro may ro		0070					
										l				
Bridge C3										I				
Deck Span S	Segment									l				
C06-C6310	C6 - End Span to C7 (7 nr) - LG2	6	19-Dec-16 A	0	24-Dec-16 A				100%					
C08-C6210	C8 - Launch LG2 from C6 to C8 (MTR/NLH)	9	28-Dec-16 A	0	07-Jan-17 A				100%					
C08-C6310	C8 - Cantilever Span (24 nr) (MTR/NLH) - LG2	58	09-Jan-17 A	52	25-Mar-17	17-Oct-15	17-Dec-15	-375	42%					
C09-C6410	C9 - Launch LG2 from C8 to C9 (NLH)	11	27-Mar-17	11	08-Apr-17	18-Dec-15	02-Jan-16	-375	0%	l		7		1
Bridge C2						·		1		l				1 1
Deck Span S	Rogmont													
Deck Span s	beginent													i 
Actual Work	Project ID: TMCLK-DWPH-M44		Tuen Mun -	Chek L	ap Kok Link - S	Southern Co	nnection		Date	Re	vision (	Checked		Approved
Planned Bar	Layout: J3518-DWP-3MRP Submission - M44	2			rogramme (			)	30-Nov		F	PKN	GL	
Critical Bar	Filter: TASK filters: 3-Month Lookahead, No CC	5		-		-	. 10 1 ayes	,	03-Jan-				GL	
<ul> <li>♦ Milestone</li> </ul>	Milestones, No Level of Effort.		(	Progr	ress as of 21	i-Jan-17)			26-Jan-				GL	

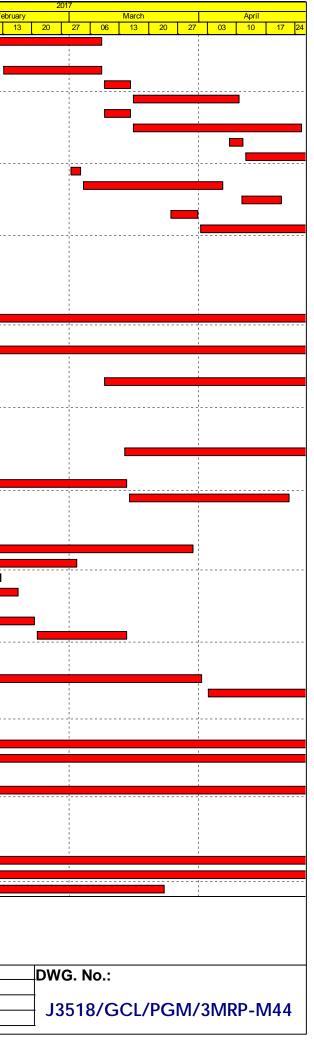


iy ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	t Physical % Complete	2016		
		Dum.	Start	Dum.	T IIISII				Complete	19 26	January 02 09 16	23 30
C11-C6210	C11 - Falsework for End Span to C12	24	13-Feb-17	24	11-Mar-17	18-Jan-16	17-Feb-16	-316	0%	•		
C11-C6310	C11 - End Span to C12 (4 nr) - Crane	8	13-Mar-17	8	21-Mar-17	18-Feb-16	26-Feb-16	-316	0%			
C15-C6310	C15 - Cantilever Span (16 nr) - Crane & THB	36	16-Nov-16 A	0	31-Dec-16 A				100%			
C16-C6410	C16 - Falsework for End Span to C15	24	21-Jan-17	24	21-Feb-17	29-Dec-15	26-Jan-16	-316	0%			
C16-C6510	C16 - End Span to C15 (4 nr) - Crane	8	22-Feb-17	8	02-Mar-17	27-Jan-16	04-Feb-16	-316	0%			
VC2-C6510	Viaduct C2 - Final Stitch & Stressing to Span	24	22-Mar-17	24	22-Apr-17	14-Apr-16	12-May-16	-280	0%			
Bridge C1												
Deck Span	Segment											
C16-C6210	C16 - Falsework for End Span to C17	24	08-Feb-17*	24	07-Mar-17	20-Feb-16	18-Mar-16	-286	0%			
C16-C6310	C16 - End Span to C17 (9 nr) - Crane	18	08-Mar-17	18	28-Mar-17	19-Mar-16	13-Apr-16	-286	0%			
C17-C6310	C17 - Cantilever Span (Initial 2 nr) - Crane	8	31-Dec-16 A	0	03-Jan-17 A				100%			
C17-C6320	C17 - Cantilever Span (Remaining 22 nr) - Crane	27	12-Jan-17 A	6	27-Jan-17	13-Feb-16	19-Feb-16	-280	64%			
C18-C6320	C18 - Cantilever Span (Remaining 24 nr) - Crane	29	29-Nov-16 A	0	30-Dec-16 A				100%			
VC1-C6510	Viaduct C1 - Final Stitch & Stressing to Span	24	29-Mar-17	24	29-Apr-17	14-Apr-16	12-May-16	-286	0%			
Viaduct D												
Bridge D3												
Deck Span	Segment											
D03-C6610	D3 - Cantilever Span (Remaining 18 nr) - LG1	9	20-Dec-16 A	0	30-Dec-16 A				100%			
D03-C0010	D4 - Launch LG1 from D3 to D4, D5	12	31-Dec-16 A	0	12-Jan-17 A				100%			
D04-C6310	D4 - Cantilever Span (Remaining 6 nr) - LG1	3	13-Jan-17 A	0	16-Jan-17 A				100%			
D05-C6510	D5 - Cantilever Span (Remaining 4 nr) - LG1	3	17-Jan-17 A	0	19-Jan-17 A				100%			
Bridge D2		, U										
Deck Span	Pagmant			_			_	_				
			47 Mar 47		00 Mar 47	40 Nov 45	05 Nev 45	200	00/			
D06-C6210	D6 - Launch LG1 from D7 to D6	6	17-Mar-17	6	23-Mar-17	19-Nov-15	25-Nov-15	-392	0%			
D06-C6310	D6 - End Span to D7 (8 nr) - LG1	9	24-Mar-17	9	03-Apr-17	26-Nov-15	05-Dec-15	-392	0%			
D07-C6410	D7 - Launch LG1 from D8 to D7	2	06-Mar-17	2	07-Mar-17	07-Nov-15	09-Nov-15	-392	0%			
D07-C6510	D7 - Cantilever Span (Remaining 4 nr) - LG1	8	08-Mar-17	8	16-Mar-17	10-Nov-15	18-Nov-15	-392	0% 0%			
D08-C6210	D8 - Launch LG1 from D5 to D7 (MTR)	6	20-Jan-17 A	7	01-Feb-17	25-Sep-15	05-Oct-15	-392	-			_
D08-C6215	D8 - Launch LG1 from D7 to D8 (MTR)	6	02-Feb-17	6	08-Feb-17	06-Oct-15	12-Oct-15	-392	0%			
D08-C6310	D8 - Cantilever Span (26 nr) (MTR) - LG1	21	09-Feb-17	21	04-Mar-17	13-Oct-15	06-Nov-15	-392	0%			
D09-C6210	D9 - Launch LG1 from D7 to D8 (MTR/NLH)	5	04-Apr-17	5	10-Apr-17	07-Dec-15	11-Dec-15	-392	0%			
D10-C6310	D10 - Cantilever Span (Remaining 14 nr) - Crane & THB	28	17-Feb-17	28	21-Mar-17	27-Jan-16	02-Mar-16	-312	0%			
D11-C6310	D11 - Cantilever Span (Remaining 12 nr) - THB	30	08-Jan-17 A	20	16-Feb-17	31-Dec-15	23-Jan-16	-314	34%			-
D12-C6310 D13-C6610	D12 - Cantilever Span (Remaining 18 nr) - Crane & THB	36 24	17-Feb-17	36	30-Mar-17	25-Jan-16	09-Mar-16	-314	0% 0%			
	D13 - Falsework for End Span to D12	24	24-Mar-17	24	25-Apr-17	03-Mar-16	02-Apr-16	-314	0%			
Bridge D1												
Deck Span	-				1							
D13-C6210		24	15-Feb-17	24	14-Mar-17	03-Mar-16	02-Apr-16	-282	0%			
D13-C6310	D13 - End Span to D14 (4 nr) - Crane	8	15-Mar-17	8	23-Mar-17	05-Apr-16	13-Apr-16	-282	0%			
			09-Nov-16 A	0	02-Jan-17 A				100%		<b>_</b>	
D14-C6310	D14 - Cantilever Span (Remaining 10 nr) - THB	45	03-110V-10A					000			Τ Ι	
D14-C6310 VD1-C6510	D14 - Cantilever Span (Remaining 10 nr) - THB Viaduct D1 - Final Stitch & Stressing to Span	45 24	24-Mar-17	24	25-Apr-17	14-Apr-16	12-May-16	-282	0%			
D14-C6310 VD1-C6510 Viaduct E					25-Apr-17	14-Apr-16	12-May-16	-282	0%			
D14-C6310 VD1-C6510					25-Apr-17	14-Apr-16	12-May-16	-282	0%			
D14-C6310 VD1-C6510 Viaduct E	Viaduct D1 - Final Stitch & Stressing to Span				25-Apr-17	14-Apr-16	12-May-16	-282	0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1	Viaduct D1 - Final Stitch & Stressing to Span Segment					14-Apr-16		-282	0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span 3 A01-C6320	Viaduct D1 - Final Stitch & Stressing to Span	24	24-Mar-17	24	25-Apr-17 10-Apr-17 11-Feb-17		12-May-16	-305	0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Spans A01-C6320 E03D-C6410	Viaduct D1 - Final Stitch & Stressing to Span  Segment A1 - End Span to E1D (7 nr) - THB E3D - End Span to E2D (6 nr) - THB	24	24-Mar-17	24	10-Apr-17 11-Feb-17	05-Mar-16 12-Jan-16	01-Apr-16 29-Jan-16	-305 -305				
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510	Viaduct D1 - Final Stitch & Stressing to Span  Segment A1 - End Span to E1D (7 nr) - THB	24 21 33	24-Mar-17 16-Mar-17 09-Dec-16 A	24 21 16	10-Apr-17	05-Mar-16	01-Apr-16	-305	0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2	Viaduct D1 - Final Stitch & Stressing to Span  Segment A1 - End Span to E1D (7 nr) - THB E3D - End Span to E2D (6 nr) - THB Viaduct E1 - Final Stitch & Stressing to Span	24 21 33	24-Mar-17 16-Mar-17 09-Dec-16 A	24 21 16	10-Apr-17 11-Feb-17	05-Mar-16 12-Jan-16	01-Apr-16 29-Jan-16	-305 -305	0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span	Viaduct D1 - Final Stitch & Stressing to Span  Segment A1 - End Span to E1D (7 nr) - THB E3D - End Span to E2D (6 nr) - THB Viaduct E1 - Final Stitch & Stressing to Span  Segment	24 21 33 24	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17	24 21 16 24	10-Apr-17 11-Feb-17 13-May-17	05-Mar-16 12-Jan-16 14-Apr-16	01-Apr-16 29-Jan-16 12-May-16	-305 -305 -296	0% 5% 0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span E03D-C6420	Viaduct D1 - Final Stitch & Stressing to Span  Segment A1 - End Span to E1D (7 nr) - THB E3D - End Span to E2D (6 nr) - THB Viaduct E1 - Final Stitch & Stressing to Span  Segment E3D - End Span to E4B (7 nr) - THB	24 21 33 24 33 33	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17 09-Dec-16 A	24 21 16 24 16	10-Apr-17 11-Feb-17 13-May-17 11-Feb-17	05-Mar-16 12-Jan-16 14-Apr-16 12-Jan-16	01-Apr-16 29-Jan-16 12-May-16 29-Jan-16	-305 -305 -296	0% 5% 0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span E03D-C6420 E04A-C6210	Viaduct D1 - Final Stitch & Stressing to Span  Segment A1 - End Span to E1D (7 nr) - THB E3D - End Span to E2D (6 nr) - THB Viaduct E1 - Final Stitch & Stressing to Span  Segment E3D - End Span to E4B (7 nr) - THB E4A - Install THB	24 21 33 24 33 24 33 33 3	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17 09-Dec-16 A 09-Dec-16 A	24 21 16 24 16 3	10-Apr-17 11-Feb-17 13-May-17 11-Feb-17 10-Feb-17	05-Mar-16 12-Jan-16 14-Apr-16 12-Jan-16 12-Jan-16 18-Jul-16	01-Apr-16 29-Jan-16 12-May-16 29-Jan-16 20-Jul-16	-305 -305 -296 -305 -305 -167	0% 5% 0% 15% 0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span E03D-C6420 E04A-C6210 E04A-C6310	Viaduct D1 - Final Stitch & Stressing to Span  Segment A1 - End Span to E1D (7 nr) - THB E3D - End Span to E2D (6 nr) - THB Viaduct E1 - Final Stitch & Stressing to Span  E3D - End Span to E4B (7 nr) - THB E4A - Install THB E4A - Bifurcation Span to E3A (12 nr) with 1st Stitch - THB	24 21 33 24 24 33 33 33 32	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17 09-Dec-16 A 09-Dec-16 A 08-Feb-17 11-Feb-17	24 21 16 24 16 3 32	10-Apr-17 11-Feb-17 13-May-17 11-Feb-17 10-Feb-17 20-Mar-17	05-Mar-16 12-Jan-16 14-Apr-16 12-Jan-16 12-Jan-16 18-Jul-16 21-Jul-16	01-Apr-16 29-Jan-16 12-May-16 29-Jan-16 20-Jul-16 26-Aug-16	-305 -305 -296 -305 -305 -167 -167	0% 5% 0% 15% 0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span E03D-C6420 E04A-C6210 E04A-C6310 E04A-C6410	Viaduct D1 - Final Stitch & Stressing to Span  Segment A1 - End Span to E1D (7 nr) - THB E3D - End Span to E2D (6 nr) - THB Viaduct E1 - Final Stitch & Stressing to Span  Segment E3D - End Span to E4B (7 nr) - THB E4A - Install THB E4A - Bifurcation Span to E3A (12 nr) with 1st Stitch - THB E4A - Bifurcation Span to E5A (6 nr) with 1st Stitch - THB	24 21 33 24 24 33 24 33 33 32 32 32	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17 09-Dec-16 A 08-Feb-17 11-Feb-17 11-Feb-17	24 21 16 24 16 3 32 32	10-Apr-17 11-Feb-17 13-May-17 13-May-17 10-Feb-17 10-Feb-17 20-Mar-17 20-Mar-17	05-Mar-16 12-Jan-16 14-Apr-16 12-Jan-16 18-Jul-16 21-Jul-16 27-Aug-16	01-Apr-16 29-Jan-16 12-May-16 29-Jan-16 20-Jul-16 26-Aug-16 05-Oct-16	-305 -305 -296 -305 -167 -167 -135	0% 5% 0% 15% 0% 0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span E03D-C6420 E04A-C6210 E04A-C6310 E04A-C6410 E04B-C6210	Viaduct D1 - Final Stitch & Stressing to Span  Segment A1 - End Span to E1D (7 nr) - THB E3D - End Span to E2D (6 nr) - THB Viaduct E1 - Final Stitch & Stressing to Span  E3D - End Span to E4B (7 nr) - THB E4A - Install THB E4A - Bifurcation Span to E3A (12 nr) with 1st Stitch - THB E4A - Bifurcation Span to E5A (6 nr) with 1st Stitch - THB E4B - Install THB	24 21 33 24 24 33 24 33 33 32 32 32 32 32 33	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17 09-Dec-16 A 09-Dec-16 A 08-Feb-17 11-Feb-17 11-Feb-17 21-Mar-17	24 21 16 24 16 3 32 32 32 3	10-Apr-17 11-Feb-17 13-May-17 11-Feb-17 10-Feb-17 20-Mar-17 20-Mar-17 23-Mar-17	05-Mar-16 12-Jan-16 14-Apr-16 12-Jan-16 18-Jul-16 21-Jul-16 27-Aug-16 27-Aug-16	01-Apr-16 29-Jan-16 12-May-16 29-Jan-16 20-Jul-16 26-Aug-16 05-Oct-16 30-Aug-16	-305 -305 -296 -305 -167 -167 -167 -135 -167	0% 5% 0% 15% 0% 0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span E03D-C6420 E04A-C6210 E04A-C6310 E04B-C6210 E04B-C6310	Viaduct D1 - Final Stitch & Stressing to Span  Segment A1 - End Span to E1D (7 nr) - THB E3D - End Span to E2D (6 nr) - THB Viaduct E1 - Final Stitch & Stressing to Span  Segment E3D - End Span to E4B (7 nr) - THB E4A - Install THB E4A - Bifurcation Span to E3A (12 nr) with 1st Stitch - THB E4B - Bifurcation Span to E3B (12 nr) with 1st Stitch - THB E4B - Bifurcation Span to E3B (12 nr) with 1st Stitch - THB	24 21 33 24 24 33 33 32 32 32 32 32 32 32 32	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17 09-Dec-16 A 08-Feb-17 11-Feb-17 11-Feb-17 21-Mar-17 24-Mar-17	24 21 16 24 16 3 32 32 32 32 32 32	10-Apr-17 11-Feb-17 13-May-17 13-May-17 10-Feb-17 10-Feb-17 20-Mar-17 20-Mar-17 23-Mar-17 06-May-17	05-Mar-16 12-Jan-16 14-Apr-16 12-Jan-16 18-Jul-16 21-Jul-16 27-Aug-16 27-Aug-16 31-Aug-16	01-Apr-16 29-Jan-16 12-May-16 29-Jan-16 20-Jul-16 26-Aug-16 05-Oct-16 30-Aug-16 08-Oct-16	-305 -305 -296 -305 -167 -167 -167 -167 -167 -167	0% 5% 0% 15% 0% 0% 0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span E03D-C6420 E04A-C6210 E04A-C6310 E04B-C6210 E04B-C6310 E04B-C6310	Viaduct D1 - Final Stitch & Stressing to Span         Segment         A1 - End Span to E1D (7 nr) - THB         E3D - End Span to E2D (6 nr) - THB         Viaduct E1 - Final Stitch & Stressing to Span         Segment         B3D - End Span to E4B (7 nr) - THB         E3D - End Span to E4B (7 nr) - THB         E4A - Install THB         E4A - Bifurcation Span to E5A (12 nr) with 1st Stitch - THB         E4B - Install THB         E4B - Bifurcation Span to E3B (12 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E3B (12 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB	24 21 33 24 24 33 33 32 32 32 32 32 32 32 32 32 32 32	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17 09-Dec-16 A 08-Feb-17 11-Feb-17 11-Feb-17 21-Mar-17 24-Mar-17 24-Mar-17	24 21 16 24 16 3 32 32 32 32 32 32 32	10-Apr-17 11-Feb-17 13-May-17 13-May-17 10-Feb-17 20-Mar-17 20-Mar-17 23-Mar-17 06-May-17 06-May-17	05-Mar-16 12-Jan-16 14-Apr-16 14-Apr-16 18-Jul-16 21-Jul-16 27-Aug-16 31-Aug-16 31-Aug-16	01-Apr-16 29-Jan-16 12-May-16 29-Jan-16 20-Jul-16 26-Aug-16 05-Oct-16 30-Aug-16 08-Oct-16 08-Oct-16	-305 -305 -296 -305 -167 -167 -167 -167 -167 -167 -167	0% 5% 0% 15% 0% 0% 0% 0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span E03D-C6420 E04A-C6210 E04A-C6310 E04B-C6210 E04B-C6310 E04B-C6410 E04B-C6410	Viaduct D1 - Final Stitch & Stressing to Span         Segment         A1 - End Span to E1D (7 nr) - THB         E3D - End Span to E2D (6 nr) - THB         Viaduct E1 - Final Stitch & Stressing to Span         Segment         B3D - End Span to E4B (7 nr) - THB         E3D - End Span to E4B (7 nr) - THB         E4A - Install THB         E4A - Bifurcation Span to E3A (12 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5A (6 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E3B (12 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB         E5A - Install KF	24 21 33 24 33 24 33 32 32 32 32 32 32 32 32 32 32 6	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17 09-Dec-16 A 08-Feb-17 11-Feb-17 11-Feb-17 21-Mar-17 24-Mar-17 24-Mar-17 13-Feb-17*	24 21 16 24 16 3 32 32 32 32 32 32 32 6	10-Apr-17 11-Feb-17 13-May-17 13-May-17 10-Feb-17 20-Mar-17 20-Mar-17 23-Mar-17 23-Mar-17 06-May-17 06-May-17 18-Feb-17	05-Mar-16 12-Jan-16 14-Apr-16 14-Apr-16 18-Jul-16 21-Jul-16 27-Aug-16 31-Aug-16 31-Aug-16 13-Jan-16	01-Apr-16 29-Jan-16 12-May-16 29-Jan-16 20-Jul-16 26-Aug-16 05-Oct-16 30-Aug-16 08-Oct-16 08-Oct-16 19-Jan-16	-305 -305 -296 -305 -167 -167 -167 -167 -167 -167 -167 -167	0% 5% 0% 15% 0% 0% 0% 0% 0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span E03D-C6420 E04A-C6210 E04A-C6310 E04A-C6310 E04B-C6310 E04B-C6410 E05A-C6410 E05A-C6510	Viaduct D1 - Final Stitch & Stressing to Span         Segment         A1 - End Span to E1D (7 nr) - THB         E3D - End Span to E2D (6 nr) - THB         Viaduct E1 - Final Stitch & Stressing to Span         Segment         B3D - End Span to E4B (7 nr) - THB         E3D - End Span to E4B (7 nr) - THB         E4A - Install THB         E4A - Bifurcation Span to E3A (12 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5A (6 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E3B (12 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB         E5A - Install KF         E5A - Cantilever Span (14 nr) with 1st Stitch - KF	24 21 33 24 33 24 33 32 32 32 32 32 32 32 32 32 32 32 6 6 29	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17 09-Dec-16 A 09-Dec-16 A 08-Feb-17 11-Feb-17 11-Feb-17 21-Mar-17 24-Mar-17 24-Mar-17 13-Feb-17* 20-Feb-17	24 21 16 24 16 3 32 32 32 32 32 32 32 6 6 29	10-Apr-17 11-Feb-17 13-May-17 13-May-17 10-Feb-17 20-Mar-17 20-Mar-17 23-Mar-17 06-May-17 06-May-17 18-Feb-17 24-Mar-17	05-Mar-16 12-Jan-16 14-Apr-16 14-Apr-16 18-Jul-16 21-Jul-16 27-Aug-16 31-Aug-16 31-Aug-16 13-Jan-16 20-Jan-16	01-Apr-16 29-Jan-16 12-May-16 29-Jan-16 20-Jul-16 26-Aug-16 05-Oct-16 30-Aug-16 08-Oct-16 08-Oct-16 19-Jan-16 25-Feb-16	-305 -305 -296 -296 -305 -167 -167 -167 -167 -167 -167 -320 -320	0% 5% 0% 15% 0% 0% 0% 0% 0% 0%			
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span E03D-C6420 E04A-C6210 E04A-C6310 E04A-C6310 E04B-C6310 E04B-C6310 E04B-C6410 E05A-C6510 E05A-C6510	Viaduct D1 - Final Stitch & Stressing to Span         Segment         A1 - End Span to E1D (7 nr) - THB         E3D - End Span to E2D (6 nr) - THB         Viaduct E1 - Final Stitch & Stressing to Span         Segment         B3D - End Span to E4B (7 nr) - THB         E3D - End Span to E4B (7 nr) - THB         E4A - Install THB         E4A - Bifurcation Span to E3A (12 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5A (6 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E3B (12 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB         E5A - Install KF         E5A - Cantilever Span (14 nr) with 1st Stitch - KF         E5A - Stitch between E4A and E5A	24 21 33 24 33 24 32 32 32 32 32 32 32 32 6 6 29 12	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17 09-Dec-16 A 09-Dec-16 A 08-Feb-17 11-Feb-17 11-Feb-17 21-Mar-17 24-Mar-17 24-Mar-17 13-Feb-17* 20-Feb-17 25-Mar-17	24 21 16 24 16 3 3 32 32 32 32 32 32 6 6 29 12	10-Apr-17 11-Feb-17 13-May-17 13-May-17 10-Feb-17 20-Mar-17 20-Mar-17 23-Mar-17 06-May-17 06-May-17 18-Feb-17 24-Mar-17 08-Apr-17	05-Mar-16 12-Jan-16 14-Apr-16 14-Apr-16 18-Jul-16 21-Jul-16 27-Aug-16 31-Aug-16 31-Aug-16 13-Jan-16 20-Jan-16 06-Oct-16	01-Apr-16 29-Jan-16 12-May-16 29-Jan-16 20-Jul-16 26-Aug-16 05-Oct-16 30-Aug-16 08-Oct-16 08-Oct-16 19-Jan-16 25-Feb-16 20-Oct-16	-305 -305 -296 -296 -305 -167 -167 -167 -167 -167 -167 -320 -320 -320 -139	0% 5% 0% 15% 0% 0% 0% 0% 0% 0% 0%			
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D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span E03D-C6420 E04A-C6210 E04A-C6310 E04A-C6310 E04B-C6310 E04B-C6310 E04B-C6410 E05A-C6510 E05A-C6510	Viaduct D1 - Final Stitch & Stressing to Span         Segment         A1 - End Span to E1D (7 nr) - THB         E3D - End Span to E2D (6 nr) - THB         Viaduct E1 - Final Stitch & Stressing to Span         Segment         B3D - End Span to E4B (7 nr) - THB         E3D - End Span to E4B (7 nr) - THB         E4A - Install THB         E4A - Bifurcation Span to E3A (12 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5A (6 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E3B (12 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB         E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB         E5A - Install KF         E5A - Cantilever Span (14 nr) with 1st Stitch - KF         E5A - Stitch between E4A and E5A	24 21 33 24 33 24 32 32 32 32 32 32 32 32 6 6 29 12	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17 09-Dec-16 A 08-Feb-17 11-Feb-17 11-Feb-17 21-Mar-17 24-Mar-17 24-Mar-17 13-Feb-17* 20-Feb-17 25-Mar-17 27-Jan-17	24 21 16 24 16 3 32 32 32 32 32 32 32 6 6 29 12 6	10-Apr-17 11-Feb-17 13-May-17 13-May-17 10-Feb-17 20-Mar-17 20-Mar-17 23-Mar-17 06-May-17 06-May-17 18-Feb-17 24-Mar-17 08-Apr-17 06-Feb-17	05-Mar-16 12-Jan-16 14-Apr-16 14-Apr-16 18-Jul-16 21-Jul-16 27-Aug-16 31-Aug-16 31-Aug-16 13-Jan-16 20-Jan-16 06-Oct-16 12-Feb-16	01-Apr-16 29-Jan-16 12-May-16 29-Jan-16 20-Jul-16 20-Jul-16 26-Aug-16 05-Oct-16 30-Aug-16 08-Oct-16 19-Jan-16 25-Feb-16 20-Oct-16 18-Feb-16	-305 -305 -296 -296 -305 -167 -167 -167 -167 -167 -167 -320 -320 -320 -139	0% 5% 0% 15% 0% 0% 0% 0% 0% 0% 0%		vision Checked	Apr
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span E03D-C6420 E04A-C6210 E04A-C6210 E04A-C6310 E04B-C6310 E04B-C6310 E04B-C6310 E04B-C6410 E05A-C6610 E05A-C6610 E05B-C6410	Viaduct D1 - Final Stitch & Stressing to Span  Segment A1 - End Span to E1D (7 nr) - THB E3D - End Span to E2D (6 nr) - THB Viaduct E1 - Final Stitch & Stressing to Span  Segment E3D - End Span to E4B (7 nr) - THB E4A - Install THB E4A - Bifurcation Span to E3A (12 nr) with 1st Stitch - THB E4A - Bifurcation Span to E5A (6 nr) with 1st Stitch - THB E4B - Install THB E4B - Bifurcation Span to E3B (12 nr) with 1st Stitch - THB E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB E5A - Cantilever Span (14 nr) with 1st Stitch - KF E5A - Stitch between E4A and E5A E5B - Install ALF  Project ID: TMCLK-DWPH-M44 Layout: J3518-DWP-3MRP Submission - M4	24 21 33 24 33 32 32 32 32 32 32 32 6 6 29 12 6	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17 09-Dec-16 A 08-Feb-17 11-Feb-17 11-Feb-17 21-Mar-17 24-Mar-17 24-Mar-17 13-Feb-17* 20-Feb-17 25-Mar-17 27-Jan-17 <b>Tuen Mun - C</b>	24 21 16 24 16 3 32 32 32 32 32 32 6 29 12 6 Chek L	10-Apr-17 11-Feb-17 13-May-17 13-May-17 10-Feb-17 20-Mar-17 20-Mar-17 23-Mar-17 06-May-17 06-May-17 18-Feb-17 24-Mar-17 08-Apr-17 08-Apr-17 06-Feb-17	05-Mar-16 12-Jan-16 14-Apr-16 14-Apr-16 18-Jul-16 21-Jul-16 27-Aug-16 31-Aug-16 31-Aug-16 31-Aug-16 13-Jan-16 20-Jan-16 06-Oct-16 12-Feb-16	01-Apr-16 29-Jan-16 12-May-16 29-Jan-16 20-Jul-16 26-Aug-16 05-Oct-16 30-Aug-16 08-Oct-16 19-Jan-16 25-Feb-16 20-Oct-16 18-Feb-16	-305 -305 -296 -305 -167 -167 -167 -167 -167 -167 -320 -320 -320 -139 -286	0% 5% 0% 15% 0% 0% 0% 0% 0% 0% 0% 0%			Apr GL
D14-C6310 VD1-C6510 Viaduct E Bridge E1 Deck Span A01-C6320 E03D-C6410 VE1-C6510 Bridge E2 Deck Span E03D-C6420 E04A-C6210 E04A-C6310 E04A-C6310 E04A-C6310 E04B-C6310 E04B-C6310 E04B-C6310 E04B-C6410 E05A-C6610 E05A-C6610 E05B-C6410	Viaduct D1 - Final Stitch & Stressing to Span Segment A1 - End Span to E1D (7 nr) - THB E3D - End Span to E2D (6 nr) - THB Viaduct E1 - Final Stitch & Stressing to Span Segment E3D - End Span to E4B (7 nr) - THB E4A - Install THB E4A - Bifurcation Span to E3A (12 nr) with 1st Stitch - THB E4A - Bifurcation Span to E5A (6 nr) with 1st Stitch - THB E4B - Install THB E4B - Bifurcation Span to E3B (12 nr) with 1st Stitch - THB E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB E4B - Bifurcation Span to E5B (6 nr) with 1st Stitch - THB E5A - Cantilever Span (14 nr) with 1st Stitch - KF E5A - Stitch between E4A and E5A E5B - Install ALF Project ID: TMCLK-DWPH-M44	24 21 33 24 33 32 32 32 32 32 32 32 6 6 29 12 6	24-Mar-17 16-Mar-17 09-Dec-16 A 11-Apr-17 09-Dec-16 A 08-Feb-17 11-Feb-17 11-Feb-17 21-Mar-17 24-Mar-17 24-Mar-17 24-Mar-17 25-Mar-17 25-Mar-17 27-Jan-17 Tuen Mun - C -Month Rolli	24 21 16 24 16 3 32 32 32 32 32 32 32 32 32 6 29 12 6 29 12 6 5 Chek L ing P	10-Apr-17 11-Feb-17 13-May-17 13-May-17 10-Feb-17 20-Mar-17 20-Mar-17 23-Mar-17 06-May-17 06-May-17 18-Feb-17 24-Mar-17 08-Apr-17 06-Feb-17	05-Mar-16 12-Jan-16 14-Apr-16 12-Jan-16 18-Jul-16 21-Jul-16 27-Aug-16 31-Aug-16 31-Aug-16 31-Aug-16 13-Jan-16 06-Oct-16 12-Feb-16 Southern Co Page 12 of	01-Apr-16 29-Jan-16 12-May-16 29-Jan-16 20-Jul-16 26-Aug-16 05-Oct-16 30-Aug-16 08-Oct-16 19-Jan-16 25-Feb-16 20-Oct-16 18-Feb-16	-305 -305 -296 -305 -167 -167 -167 -167 -167 -167 -320 -320 -320 -139 -286	0% 5% 0% 15% 0% 0% 0% 0% 0% 0% 0% 0%		PKN	



ID Activity Na		Orig. Durn.	Act. Start / FC Early Start	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Physical % Complete	2016	
		Dum.	Sidi i	Dum.	FILISI				Complete	January 19 26 02 09 16	5 <u>23</u> <u>30</u>
E05B-C6510 E5P C	antilever Span (14 nr) with 1st Stitch - ALF	26	07-Feb-17	26	08-Mar-17	19-Feb-16	19-Mar-16	-286	0%		
E06A-C6210 E6A - In		6		6		01-Mar-16	07-Mar-16	-276	0%		
			06-Feb-17		11-Feb-17						
	antilever Span (9 nr) with 1st Stitch- WLF	21	13-Feb-17	21	08-Mar-17	08-Mar-16	05-Apr-16	-276	0%		
E06B-C6210 E6B - Ir		6	09-Mar-17	6	15-Mar-17	06-Apr-16	12-Apr-16	-276	0%		
	antilever Span (9 nr) with 1st Stitch - WLF	21	16-Mar-17	21	10-Apr-17	13-Apr-16	07-May-16	-276	0%		
E07A-C6210 E7A - In		6	09-Mar-17	6	15-Mar-17	21-Mar-16	30-Mar-16	-286	0%		
	antilever Span (18 nr) with 1st Stitch - ALF	31	16-Mar-17	31	25-Apr-17	31-Mar-16	07-May-16	-286	0%		
E07B-C6210 E7B - Ir	istall THB	3	08-Apr-17	3	11-Apr-17	26-Jan-16	28-Jan-16	-355	0%		
E07B-C6310 E7B - C	antilever Span (18 nr) with 1st Stitch - THB	35	12-Apr-17	35	27-May-17	29-Jan-16	12-Mar-16	-355	0%		
E08A-C6200 E8A - In	stall THB	3	01-Mar-17*	3	03-Mar-17	17-Dec-15	19-Dec-15	-354	0%		1
E08A-C6310 E8A - C	antilever Span (13 nr) - THB	28	04-Mar-17	28	06-Apr-17	21-Dec-15	25-Jan-16	-354	0%		
E08B-C6210 E8B - Ir	Istall WLF	6	11-Apr-17	6	20-Apr-17	24-May-16	30-May-16	-264	0%		
E09A-C6210 E9A - In	stall KF	6	25-Mar-17*	6	31-Mar-17	26-Feb-16	03-Mar-16	-320	0%		
	antilever Span (24 nr) with 1st Stitch - KF	44	01-Apr-17	44	29-May-17	04-Mar-16	28-Apr-16	-320	0%		
t-Grade Works & Mis					Lo may m	o i Mai To	20710110	020	0,0		
At-Grade Works Alon	ng North Lantau Highway										
Slope Works Near V	aduct D										
and the second											
Slope 10NW-C/F10											
M201160 10NW-0	C/F10 - Slope works (incl. L-Shape Ret. Walls)	110	02-Feb-17*	110	17-Jun-17	06-May-16	14-Sep-16	-221	0%		
Slope 10NW-C/F11											
M201180 10NW-0	C/F11 - Slope works (incl. Concrete Toe Walls)	90	02-Feb-17*	90	24-May-17	21-Jun-16	06-Oct-16	-184	0%		l :=
Slope 10NW-C/R4											
		00	00 Mar 47	00	47 hun 47	40. hun 40	14 Con 10	004	00/		
	C/R4 - Slope works	80	09-Mar-17	80	17-Jun-17	13-Jun-16	14-Sep-16	-221	0%		
At-Grade Works Alon	ng Cheung Tung Road										<b>.</b>
<b>Slope Works Near V</b>	iaduct C										
Slope 10NW-C/F14											
SWVC5000 10NW-0	J/F14 - Slope works	42	14-Mar-17*	42	08-May-17	06-Aug-16	24-Sep-16	-179	0%		
Slope 10NW-C/F15											
	C/F15 - Slope works	42	21-Jan-17*	42	14-Mar-17	13-Aug-16	03-Oct-16	-132	0%		_
SWVC6005 10NW-0	C/F15 - Install Geo. Instru. & Baseline Monitoring	30	15-Mar-17	30	22-Apr-17	04-Oct-16	08-Nov-16	-132	0%		
<b>Re-alignment of CTI</b>	R Along Viaduct B										
General											
		00	00.1	50	00 Mar 47	04 Mar 40	04 14- 40	0.40	000/		
	750: telecom, 11KV & 132KV ducting	20	20-Aug-15 A	56	30-Mar-17	21-Mar-16	31-May-16	-249	80%		4
	750: towngas(DN250+DN400) connection	32	21-Jan-17*	32	02-Mar-17	22-Apr-16	31-May-16	-225	0%		
	700 DN1000 connection	1	12-Feb-17*	1	12-Feb-17	30-May-16	31-May-16	-257	0%		
RP00075 Ch100-3	300: duct laying for 11KV	20	21-Jan-17*	20	16-Feb-17	07-May-16	31-May-16	-213	0%		
	300: lay telecom cable	10	21-Jan-17*	10	04-Feb-17	11-Apr-16	21-Apr-16	-235	0%		
RP00077 Ch100-3	300: street lighting & draw pit	13	06-Feb-17	13	20-Feb-17	22-Apr-16	07-May-16	-235	0%		
RP00078 Ch100-3	300: relocation of vent pipe	19	21-Feb-17	19	14-Mar-17	09-May-16	31-May-16	-235	0%		
RP00079 Ch100-	300: watermain(DN450+DN1000)	142	29-Apr-15 A	12	07-Feb-17	18-May-16	31-May-16	-205	80%		
	300 Temp roadwork for CTR diversion	15	14-Dec-16 A	0	22-Dec-16 A				100%		
	300 watermain DN1000 remaining pipework and connection	58	23-Dec-16 A	58	01-Apr-17	18-Mar-16	31-May-16	-251	0%		
	300: drainage and roadwork for new CTR	122	03-Apr-17	122	31-Aug-17	01-Jun-16	26-Oct-16	-251	0%		
Re-alignment of CTI		122	007.0117	122	CT / Mg T/	or can to	20 000 10	201	070		
											<b>.</b>
West Portion											
RW61012 Realign	CTR (West of Abut C) - tie out drainage	100	03-Feb-17*	100	07-Jun-17	21-Oct-16	21-Feb-17	-84	0%		
	CTR (West of Abut. C) - Utilily diversion	90	24-Mar-15 A	124	26-Jun-17	10-Sep-16	11-Feb-17	-108	50%		
East Portion											
	CTP (East of Abut C) Drainage for the in	140	01 lon 47*	140	10 1.1 17	15 0 -+ 15	11 Apr 40	077	00/		
	CTR (East of Abut. C) - Drainage for tie-in	143	21-Jan-17*	143	19-Jul-17	15-Oct-15	11-Apr-16	-377	0%		
Watermain from Tun	g Chung to Southern Landfall										
Watermain Works											
General											
	450 Fresh Water Main at Re-aligned CTR (approx. 500m)	48	22-Apr-15 A	124	26-Jun-17	27-May-16	24-Oct-16	-197	40%		
WM00170 Lay DN	450 Watermain Tung Chung to Re-aligned CTR (3rd 500m) 450 Watermain from Tung Chung to Re-aligned CTR (last 400m)	50	01-Jun-16 A 21-Oct-16 A	84	09-May-17	15-Jul-16 24-Aug-16	24-Oct-16 24-Oct-16	-157 -123	50% 80%		

Project ID: TMCLK-DWPH-M44 Tuen Mun - Chek Lap Kok Link - Southern Connection Approved Date Revision Checked Actual Work Layout: J3518-DWP-3MRP Submission - M44 30-Nov-... 3-Month Rolling Programme (Page 13 of 13 Pages) PKN GL Planned Bar Filter: TASK filters: 3-Month Lookahead, No CC 03-Jan-17 26-Jan-17 GL PKN Critical Bar (Progress as of 21-Jan-17) Milestones, No Level of Effort. Milestone PKN GL ٠



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 EM&A Reference Manual Reference		Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	-	lement Stages		Status
	Reference					D	С	0	
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		Ŷ		<>
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		Ŷ		✓
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		Ŷ		✓
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		Ŷ		<>
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		Ŷ		•
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		Ŷ		✓

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement		ement Stages		Status
	Reference					D	С	Ο	
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		<b>✓</b>
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		Ŷ		✓
NOISE	k						.i	i	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							1	i
General Mar	rine Works								
6.10	-	Bored piling to be undertaken within a metal casing.	Marine viaducts of TM- CLKL and HKLR/ bored piling	Contractor	TM-EIAO		Y		•
6.10	-	Barges and hopper dredgers shall have tight fitting seals to their bottom openings to prevent leakage of material.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		•

Reference Ma	EM&A Manual		Location/ Timing	Implementation Agent	Relevant Standard or Requirement	-	lement Stages		Status
	Reference					D	С	0	
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.		Ŷ		•
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.		Ŷ		•
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.		Ŷ		•
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.		Ŷ		•
Temporary S	Staging work	•	*					<u>.</u>	
	5.2	Regular inspection for the accumulation of floating refuse and collection of floating refuse if required	During temporary staging works	Contractor			Ŷ		✓
	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	Imp	lemen Stage		Status
	Reference					D	С	Ο	
		proposed at station SR4a In case elevated SS or turbidity is identified during the water quality monitoring, the source of pollution will be tracked down and be removed as soon as possible. In case depletion of dissolved oxygen is identified, artificial aeration will be arranged at the monitoring station SR4a,	staging works						
Land Works									
6.10	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		•
6.10	-	Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.	All areas/ throughout construction period	Contractor	TM-EIAO		Ŷ		•
6.10	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		4
6.10	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		•

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	С	0	
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		Υ		✓
6.10	-	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		•
6.10	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for offsite disposal.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		•
6.10	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance		Y		✓

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lemen Stage		Status
	Reference					D	С	Ο	
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 Quali	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		4

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lemen Stage		Status
	Reference					D	C	Ο	
			construction during bored piling						
8.14	6.3,6.5	Avoidance of peak CWD calving season in May and June for driving of metal caissons during bored piling works	Southern marine viaduct/ May and June during bored piling	Contractor	TMEIA		Y		n/a
8.14	6.3,6.5	Specification and implementation of 250m dolphin exclusion zone.	All marine bored piling and temporary staging works areas/Detailed Design/during all marine bored piling and temporary staging works	Design Consultant/ Contractor	TMEIA	Y	Υ		*
8.15	6.3, 6.5	Specification and deployment of an artificial reef of an area of 3,600 m <sup>2</sup> 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	Ŷ		Ŷ	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	lement Stage		Status
	Reference					D	С	0	
			season/construction phase						
7.13	6.5	The loss of habitat shall be supplemented by enhancement planting in accordance with the landscape mitigation schedule.	All areas / As soon as accessible	Contractor	TMEIA		Y		n/a. To be approved by AFCD/LCSD
7.13	6.5	Spoil heaps shall be covered at all times.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Avoid damage and disturbance to the remaining and surrounding natural habitat	All areas / Throughout construction period	Contractor	TMEIA		Y		<>
7.13	6.5	Placement of equipment in designated areas within the existing disturbed land	All areas / Throughout construction period	Contractor	TMEIA		Y		<>
7.13	6.5	Disturbed areas to be reinstated immediately after completion of the works.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Construction activities should be restricted to the proposed works boundary	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
LANDSCAPE	AND VISUAL	۶	<u>i</u>		4		1	1	
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	Ŷ			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	Ŷ		•

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lemen Stage		Status
	Reference					D	С	Ο	
		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	Ŷ	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	0	
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	Υ		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	Υ		•
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	Ŷ	Υ	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	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lemen Stage	tation s	Status
	Reference					D	С	0	
		(OM4)	ê		•	•			HyD/LCSD
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be implemented by HyD
WASTE									
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		✓
12.6		The Contractor shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established.	Contract mobilisation	Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		•
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Υ		✓
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling.	Contract Mobilisation	Contractor	TMEIA		Y		•
12.6	8.1	The extent of cutting operation should be optimised	All areas / throughout	Contractor	TMEIA		Y		✓

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lement Stage	Status	
	Reference					D	С	Ο	
		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		V
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		4

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	-	lement Stages		Status
	Reference					D	C	0	
		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	<ul> <li>Chemical waste producers should register with the EPD. Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows: <ul> <li>suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed;</li> <li>Having a capacity of &lt;450L unless the specifications have been approved by the EPD; and</li> <li>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;</li> <li>Enclosed with at least 3 sides;</li> <li>Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste;</li> </ul> </li> </ul>	All areas / throughout construction period	Contractor	TMEIA		Υ		<>

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

EIA Referen		Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lement Stages		Status
	Reference					D	С	0	
		paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	throughout construction period						
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	All areas / throughout construction period	Contractor	EM&A Manual		Y		•
CULTURA	AL HERITAGE							-	
11.8	Section 9	EM&A in the form of audit of the mitigation measures	All areas / throughout construction period	Highways Department	EIAO-TM		Y		n/a
		struction, O=Operation mitigation measures will be the Highways Department of th	ne Hong Kong SAR Gover	rnment					
✓	Compliance of Mi	tigation Measures							
<>	Compliance of Mi	tigation but need improvement							
x	Non-compliance o	of Mitigation Measures							
	-	of Mitigation Measures but rectified by Contractor							
Δ	Deficiency of Miti	gation Measures but rectified by Contractor							
	-	Reporting Period							
/ ~	Ppicable in								

Appendix D

Summary of Action and Limit Levels

### Table D1Action and Limit Levels for 1-hour and 24-hour TSP

Parameters	Action	Limit
24 Hour TSP Level in $\mu g/m^3$	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 D2Action and Limit Levels for Construction Noise (0700-1900 hrs of normal<br/>weekdays)

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

### Table D3Action 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
	Bottom	Bottom
	4.7 mg/L	3.6 mg/L
Turbidity in NTU (Depth- averaged <sup>(b), (c)</sup> )	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e.,	130% of upstream control station at the same tide of the same day and 99%-ile of baseline data, i.e.,
	27.5 NTU	47.0 NTU
SS in mg/L (Depth-averaged $^{(b), (c)}$ )	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., 23.5 mg/L	130% of upstream control station at the same tide of the same day and 10mg/L for WSD Seawater Intakes at Tuen Mun and 99%-ile of baseline data, i.e.,
		34.4 mg/L

#### Notes:

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

- (a) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (b) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths
- (c) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- (d) All figures given in the table are used for reference only, and EPD may amend the figures whenever it is considered as necessary

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

### Table D4Action and Limit Levels for Impact Dolphin Monitoring

	North Lan	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 baseli	[STG < 40% of baseline & ANI < 40% of baseline]		
		and		
	STG < 40% of baseli	ne & ANI < 40% of baseline		
Notes:				
1. STG means quar	rterly encounter rate of number of dolp	ohin sightings, which is <b>6.00 i</b>		
NET I IOOF!	NTXATT Junta of a local transmission			

- NEL and 9.85 in NWL during the baseline monitoring period
  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 D5Derived Value of Action Level (AL) and Limit Level (LL)

	North Lantau Social Cluster			
	NEL	NWL		
Action Level	STG < 4.2 & ANI< 15.5	STG < 6.9 & ANI < 31.3		
Limit Level	[STG < 2.4	4 & ANI <8.9]		
		and		
	[STG < 3.9	& ANI <17.9]		

Appendix E

Calibration Certificates of Monitoring Equipments

		· orume i bi bumpier	
	5-Point Calibration Record		
Leasting	_		
Location	:	ASR8(A)	
Calibrated by	:	P.F.Yeung	
Date	:	28/11/2016	
Sampler			
Model	:	TE-5170	
Serial Number	:	S/N 3956	
Calibration Orfice and Standar	a Calibrat		
Serial Number	:	2454	
Service Date	:	24 Mar 2015	
Slope (m)	:	2.09532	
Intercept (b)	:	-0.03812	
Correlation Coefficient(r)	:	0.99994	
Standard Condition			
Pstd (hpa)		1013	
Tstd (K)		298.18	
	•	290.10	
Calibration Condition			
Pa (hpa)	:	1017	
Ta(K)	:	292	

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.4	3.418	1.657	56	56.68
2	13 holes	9.3	3.087	1.499	50	50.61
3	10 holes	6.6	2.600	1.268	43	43.53
4	7 holes	4.5	2.147	1.053	36	36.44
5	5 holes	2.5	1.600	0.793	26	26.32

High-Volume TSP Sampler

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>34.464</u> Intercept(b): <u>-0.502</u> Correlation Coefficient(r): <u>0.9990</u>

Checked by: <u>Magnum Fan</u>

Date: 02/12/2016

#### High-Volume TSP Sampler 5-Point Calibration Record

Location Calibrated by Date	: : :	ASR9 P.F.Yeung 28/11/2016
<u>Sampler</u> Model	:	TE-5170
Serial Number	:	S/N 3958
Calibration Orfice and Standard	Calibra	tion Relationship
Serial Number	:	2454
Service Date	:	24 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1017
Ta(K)	:	292

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.6	3.447	1.671	56	56.68
2	13 holes	9.5	3.120	1.515	50	50.61
3	10 holes	7.0	2.678	1.305	44	44.54
4	7 holes	4.8	2.218	1.086	35	35.48
5	5 holes	2.7	1.663	0.823	26	26.32

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):<u>35.730</u> Intercept(b):<u>-3.020</u> C

Correlation Coefficient(r): 0.9989

Checked by: <u>Magnum Fan</u>

Date: 02/12/2016

#### High-Volume TSP Sampler 5-Point Calibration Record

Location Calibrated by Date	: : :	ASR8(A) P.F.Yeung 28/01/2017
<u>Sampler</u> Model	:	TE-5170
Serial Number	:	S/N 3956
Calibration Orfice and Standard Serial Number Service Date Slope (m) Intercept (b)	<u>Calibratio</u> : :	on Relationship 2454 24 Mar 2015 2.09532 -0.03812
Correlation Coefficient(r)	:	0.99994
<u>Standard Condition</u> Pstd (hpa) Tstd (K)	:	1013 298.18
<u>Calibration Condition</u> Pa (hpa) Ta(K)	:	1020 291

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.4	3.429	1.662	56	56.87
2	13 holes	9.5	3.130	1.520	52	52.80
3	10 holes	6.8	2.648	1.291	44	44.68
4	7 holes	4.8	2.225	1.090	38	38.59
5	5 holes	2.7	1.669	0.825	28	28.43

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>33.913</u> Intercept(b):<u>0.950</u> Correlation Coefficient(r):<u>0.9990</u>

Checked by: <u>Magnum Fan</u>

Date: 04/02/2017

#### High-Volume TSP Sampler 5-Point Calibration Record

Location Calibrated by Date	: : :	ASR9 P.F.Yeung 28/01/2017
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 3958
Calibration Orfice and Standard	Calibrat	
Serial Number	:	2454
Service Date	:	24 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Correlation Coefficient(r)	:	0.99994
Standard Condition Pstd (hpa)	:	1013
Tstd (K)	:	298.18
<u>Calibration Condition</u> Pa (hpa)	:	1020
Ta(K)	:	291

Re	sistance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.8	3.488	1.690	55	55.85
2	13 holes	9.2	3.080	1.496	48	48.74
3	10 holes	6.6	2.609	1.272	42	42.65
4	7 holes	4.4	2.130	1.045	35	35.54
5	5 holes	2.7	1.669	0.825	28	28.43

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):<u>31.156</u> Intercept(b):2.809 Correlation Coefficient(r): 0.9992

Checked by: <u>Magnum Fan</u>

Date: 04/02/2017



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 ========	r 14, 2016 Tisch ==========	6 Rootsmeter Orifice I.1		438320 2454 =======	Ta (K) - Pa (mm) -	295 - 745.49
PLATE OR Run # 1 2 3 4 5	VOLUME START (m3) NA NA NA NA NA NA	VOLUME STOP (m3) NA NA NA NA NA NA	DIFF VOLUME (m3) 1.00 1.00 1.00 1.00 1.00	DIFF TIME (min) 1.4020 1.0060 0.9010 0.8590 0.7090	METER DIFF Hg (mm)  3.2 6.4 7.9 8.8 12.8	ORFICE DIFF H2O (in.) 2.00 4.00 5.00 5.50 8.00

### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	-	Va	(x axis) Qa	(y axis)
0.9866 0.9824 0.9803 0.9792 0.9738	0.7037 0.9765 1.0880 1.1399 1.3735	1.4078 1.9909 2.2259 2.3345 2.8155		0.9957 0.9914 0.9893 0.9882 0.9828	0.7102 0.9855 1.0980 1.1504 1.3862	0.8896 1.2581 1.4066 1.4753 1.7792
Qstd slop intercept coefficie	(b) = nt (r) =	2.10326 -0.06696 0.99989		Qa slope intercept coefficie	(b) =	1.31703 -0.04232 0.99989
y axis =	SQRT [H2O (P	a/760) (298/1	[a)]	y axis =	SQRT [H20 (T	a/Pa)]

#### CALCULATIONS

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

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

For subsequent flow rate calculations:

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



-

輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No.: C163248 證書編號

ITEM TESTED / 送檢項目 Description / 儀器名稱 : Manufacturer / 製造商 : Model No. / 型號 : Serial No. / 編號 : Supplied By / 委託者 :	(Job No. / 序引編號: IC16-1307) Sound Level Calibrator Rion NC-73 10997142 Envirotech Services Co. Room 113, 1/F, My Loft, 9 Hoi Wing New Territories, Hong Kong	•	10 June 2016
TEST CONDITIONS / 測記 Temperature / 溫度 : (2: Line Voltage / 電壓 :		Relative Humidity / 相對濕度 :	(55 ± 20)%
TEST SPECIFICATIONS Calibration check	/ 測試規範		2 i
DATE OF TEST / 測試日期	月 : 15 June 2016		
<ul> <li>The Government of The H</li> <li>Agilent Technologies / Ke</li> <li>Rohde &amp; Schwarz Laborat</li> </ul>	cular unit-under-test only. anufacturer's specification. e subsequent page(s). calibration are traceable to National Sta ong Kong Special Administrative Regi ysight Technologies ory, Germany		
- Fluke Everett Service Cen	ter, USA		
Tested By : 測試	H T Wong Technical Officer		
Certified By : 核證		Date of Issue : 17 June 簽發日期	2016

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. : 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

<u>Description</u> Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier <u>Certificate No.</u> C153519 PA160023 C161175

- 4. Test procedure : MA100N.
- 5. Results :

#### 5.1 Sound Level Accuracy

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

#### 5.2 Frequency Accuracy

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

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## Certificate of Calibration 校正證書

Certificate No. : C163758 證書編號

Description / 儀器 Manufacturer / 製 Model No. / 型號 Serial No. / 編號 Supplied By / 委討	译名稱 :  造商 : :	(Job No. / 序引編號: IC Sound Level Meter Rion NL-31 00603867 Envirotech Services Co. Room 113, 1/F, My Loft, New Territories, Hong Ko	9 Hoi Wing Road			201
TEST CONDIT	IONS / 測記	式條件				
Temperature / 溫 Line Voltage / 電		3 ± 2)°C	R	elative Humidity	/相對濕度 : (55±2	20)%
TEST SPECIFIC		/ 測試規範			ī	
			A CHARLES IN SA	The Martines		
DATE OF TEST	[/測試日期	抈 : 11 July 2016				
DATE OF TEST						
TEST RESULTS The results apply The results do no	S / 測試結 to the parti t exceed mat					
TEST RESULT: The results apply The results do no The results are do The test equipme - The Governme	S / 測試結 to the parti t exceed ma etailed in th nt used for nt of The H plogies / Ke arz Laborat	果 cular unit-under-test only. anufacturer's specification. e subsequent page(s). calibration are traceable to ong Kong Special Adminis ysight Technologies cory, Germany			tion Laboratory	
TEST RESULTS The results apply The results do no The results are de The test equipme - The Governme - Agilent Techno - Rohde & Schw	S / 測試結 to the parti t exceed ma etailed in th nt used for nt of The H plogies / Ke arz Laborat	果 cular unit-under-test only. anufacturer's specification. e subsequent page(s). calibration are traceable to ong Kong Special Adminis ysight Technologies cory, Germany			tion Laboratory	



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## Certificate of Calibration 校正證書

Certificate No. : C163758 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

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

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

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

#### 6.1.2 Linearity

1

	UUT Setting				Value	UUT	
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	
30 - 120	L <sub>A</sub>	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	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L <sub>A</sub>	А	Fast	94.00	1	93.4	Ref.
			Slow			93.4	$\pm 0.3$

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#### 6.3 Frequency Weighting

#### 6.3.1 A-Weighting

11 weighting							
	UU'	T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level	Freq.	Reading	Spec.
		weighting		(dB)		(dB)	(dB)
30 - 120	L <sub>A</sub>	A	Fast	94.00	63 Hz	67.1	$-26.2 \pm 1.5$
			1.2.2.3.2.2.2.2		125 Hz	77.1	$-16.1 \pm 1.5$
					250 Hz	84.7	$-8.6 \pm 1.4$
					500 Hz	90.1	$-3.2 \pm 1.4$
					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		IEC 61672 Class 1
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Spec. (dB)
30 - 120	L <sub>C</sub>	C	Fast	94.00	63 Hz	92.5	$-0.8 \pm 1.5$
					125 Hz	93.2	$-0.2 \pm 1.5$
	-2014				250 Hz	93.4	$0.0 \pm 1.4$
	2.4.2775			and the second	500 Hz	93.4	$0.0 \pm 1.4$
				Cane I.	1 kHz	93.4	Ref.
					2 kHz	93.3	$-0.2 \pm 1.6$
					4 kHz	92.7	$-0.8 \pm 1.6$
					8 kHz	90.5	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.6	-6.2 (+3.0 ; -6.0)

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

- Mfr's Spec. : IEC 61672 Class 1

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

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

Note :

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

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

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Performance Check of Turbidity Meter						
Equipment Ref. No. :	ET/0505/012	Manu	: <u>HACH</u>			
Model No. :	Serial No.		: <u>12060 C 018447</u>			
Date of Calibration :	24/12/2016	Due I	Date	: <u>23/03/2017</u>		
Ref. No. of Turbidit	ty Standard use	ed (4000NTU)		005/6.1/001/9		
Theoretical Value Standard (N	*	Measured Value	(NTU)	Difference % *		
20	20			1.0		
100		98.5		-1.5		
800		780		-2.5		
(*) Difference = $(M$	leasured Value	e – Theoretical Val	ue) / Theo	pretical Value x 100		
Acceptance Criteria	Diffe	erence : -5 % to 5 %	⁄0			
	-		_	pecified requirements nents are traceable to		
Prepared by :	J	Checked	by :	12-le		



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

Internal Calibration & Performar	nce Check of pH Meter
Equipment Ref. No. : ET/EW007/007 Manufactu	irer : HANNA
Model No. : HI 8314 Serial No.	: 08500489
Date of Calibration : 07/12/2016 Calibration	Due Date : <u>06/01/2017</u>
Liquid Junction Error	
	003/5.2/002/07 (20℃) . of Primary Solution: <u>003/5.2/002/08 (25℃)</u> 
pH value of diluted buffer : 6.97 / 6.98	pH (S) = 6.865 / 6.881
$\Delta pH = pH(S) - pH$ of diluted buffer = 0.105 / 0.099	(Observed Deviation)
Liquid Junction Error ( $\Delta pH_j$ ) = $\Delta pH - \Delta pH_{\frac{1}{2}} = 0.025$ /	0.019
Shift on Stirring	
pH of buffer solution (with stirring), pH <sub>s</sub> = $6.90$ / Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_j = 0.010$ /	6.90 0.000
Noise	
Noise, $\Delta pH_n$ = difference between max and min reading :	0.01 / 0.01
Verification of ATC	
Temperature record from the reference thermometer $(T_R)$ :	T/0521/018 / ET/0521/019 <u>25.0 / 20.0 <sup>O</sup>C</u> <u>24.8 / 19.8 <sup>O</sup>C</u>
Temperature record from the ATC (T <sub>ATC</sub> ): Temperature Difference,  T <sub>R</sub> - T <sub>ATC</sub>	<u> </u>
Correction	<u>+0.2 / +0.2 </u> °C
Acceptance Criteria	
Performance Characteristic	Acceptable Range
Liquid Junction Error ΔpHj	≤0.05
Shift on Stirring $\Delta pHs$	≤0.02
Noise∆pHn	≤0.02
Verifcation of ATC Temperature Difference	≤0.5°C
The pH meter complies * / <del>does not</del> <del>comply</del> * with the specific acceptable * / <del>unacceptable</del> * for use. Measurements are tra * Delete as appropriate	
Calibrated by: C	hecked by :



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

Internal Calibration & Performan	ice Check of pH Meter
Equipment Ref. No. : ET/EW007/007 Manufactu	rer : HANNA
Model No. : HI 8314 Serial No.	: 08500489
Date of Calibration : 07/01/2017 Calibration	Due Date : 06/02/2017
Liquid Junction Error	003/5.2/002/07 (20℃)
Primary Standard Solution Used : Phosphate Ref No.	of Primary Solution: 003/5.2/002/08 (25°C)
Temperature of Solution : 25.0 / 20.0	$\Delta p H_{\frac{1}{2}} = 0.080 / 0.080$
pH value of diluted buffer : 6.98 / 6.99	pH(S) = 6.865 / 6.881
$\Delta pH = pH(S) - pH of diluted buffer = 0.115 / 0.109$	(Observed Deviation)
Liquid Junction Error ( $\Delta pH_i$ ) = $\Delta pH - \Delta pH_{1/2}$ = 0.035 /	0.029
Shift on Stirring	
pH of buffer solution (with stirring), $pH_s = 6.91$ /	6.91
Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_i = 0.010$ /	0.000
Noise	
Noise, $\Delta pH_n = difference between max and min reading :$	0.01 / 0.01
Verification of ATC	
Ref. No. of reference thermometer used:	Г/0521/018 / ET/0521/019
Temperature record from the reference thermometer $(T_R)$ :	25.0 / 20.0 <sup>o</sup> C
Temperature record from the ATC (T <sub>ATC</sub> ):	24.8 / 19.8 <sup>O</sup> C
Temperature Difference,  T <sub>R</sub> - T <sub>ATC</sub>	0.2 / 0.2 <sup>o</sup> C
Correction	+0.2 / +0.2 <sup>o</sup> C
Acceptance Criteria	
Performance Characteristic	Acceptable Range
Liquid Junction Error △pHj	<u>≤0.05</u>
Shift on Stirring $\Delta pHs$	≤0.02
Noise ∆pHn	≤0.02
Verifcation of ATC Temperature Difference	≤0.5°C
The pH meter complies * / <del>does</del> <del>not</del> <del>comply</del> * with the specific acceptable * / <del>unacceptable</del> * for use. Measurements are trac * Delete as appropriate	
Calibrated by: d-b Cl	necked by :



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

Equipment Ref. No.	· FT/F	W/008/005			Manufactı	Irer	: YSI		
Aodel No.	: Pro 20					1101	•••••••••••••••••••••••••••	252	
Date of Calibration					Serial No.		: <u>12A 100</u>		
	: 22/10/	2016				n Due Date	: <u>21/01/20</u>	1/	
Temperature Verific	cation								
Ref. No. of Referenc	e Thermom	eter :	ET/0521	/017					
Ref. No. of Water Ba	ath ·						d = 11		
					Ten	perature (°C)			
Reference Thermometer reading			Measure	d	20.0	Corrected		20.1	
DO M	leter reading	5	Measure	d	19.9	Difference		0.2	
Standardization of s	odium thios	sulphate (N	$a_2S_2O_3$ so	olution					
Reagent No. of Na <sub>2</sub> S	S <sub>2</sub> O <sub>3</sub> titrant	C	PE/012/4.5/0	01/14 Rea	agent No. of 0.	025N K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	CPE/012	/4.4/002/14	
					Tria	ul 1	Tr	ial 2	
Initial Vol. of Na <sub>2</sub> S <sub>2</sub> C	Initial Vol. of $Na_2S_2O_3$ (ml)					0.00		10.35	
Final Vol. of Na <sub>2</sub> S <sub>2</sub> O	03 (ml)				10.3	35	20.75		
Vol. of $Na_2S_2O_3$ used					10.3	35	10.40		
Normality of Na <sub>2</sub> S <sub>2</sub> O					0.024	115	0.02404		
Average Normality (		O <sub>3</sub> solution	(N)		0.02410				
Acceptance criteria, l					Less than $\pm 0.001$ N				
Calculation:	Normality	of $Na_2S_2O_3$	, N = 0.25 / n	nl Na.S.O. 110	ed				
				III 14020203 us					
Lineality Checking									
Lineality Checking						- 110 <u>1</u>			
Determination of dis	ssolved oxyg	gen content	by Winkler						
Determination of dis	ssolved oxyg	gen content		Titration *		5		0	
Determination of dis Purging Time (min) Trial		gen content	1	Titration *	1	2	1	2	
Determination of dis Purging Time (min) Trial Initial Vol. of Na <sub>2</sub> S <sub>2</sub> C	D <sub>3</sub> (ml)	gen content	1 0.00	<i>Titration</i> * 2 2 11.70	23.40	2 0.00	1 6.50	2 10.50	
Determination of dis Purging Time (min) Trial Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O Final Vol. of Na <sub>2</sub> S <sub>2</sub> O	D <sub>3</sub> (ml)	gen content	1 0.00 11.70	<i>Titration</i> * 2 2 11.70 23.40	23.40 30.00	2 0.00 6.50	1 6.50 10.50	2 10.50 14.60	
Determination of dis Purging Time (min) Trial Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O Final Vol. of Na <sub>2</sub> S <sub>2</sub> O Vol. ( <b>V</b> ) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	$D_3 (ml)$ $D_3 (ml)$ used (ml)	zen content	1 0.00 11.70 11.70	Titration *       2       11.70       23.40       11.70	23.40 30.00 6.60	2 0.00 6.50 6.50	1 6.50 10.50 4.00	2 10.50 14.60 4.10	
Determination of dis Purging Time (min) Trial Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O Final Vol. of Na <sub>2</sub> S <sub>2</sub> O Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Dissolved Oxygen (D	D <sub>3</sub> (ml) J <sub>3</sub> (ml) used (ml) <b>DO</b> ), mg/L	zen content	1 0.00 11.70 11.70 7.57	Titration *           2           11.70           23.40           11.70           7.57	23.40 30.00 6.60 4.27	2 0.00 6.50 6.50 4.21	1 6.50 10.50 4.00 2.59	2 10.50 14.60 4.10 2.65	
Determination of dis Purging Time (min) Trial Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O Final Vol. of Na <sub>2</sub> S <sub>2</sub> O Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Dissolved Oxygen (D Acceptance criteria, I	D <sub>3</sub> (ml) J <sub>3</sub> (ml) used (ml) <b>DO</b> ), mg/L		1 0.00 11.70 11.70 7.57 Less than	Titration *       2       11.70       23.40       11.70	23.40 30.00 6.60 4.27	2 0.00 6.50 6.50	1 6.50 10.50 4.00 2.59	2 10.50 14.60 4.10	
Determination of dis Purging Time (min) Trial Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O Final Vol. of Na <sub>2</sub> S <sub>2</sub> O Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Dissolved Oxygen (D Acceptance criteria, I Calculation:	D <sub>3</sub> (ml) b <sub>3</sub> (ml) used (ml) <b>DO</b> ), mg/L Deviation DO (mg/L)	= V x N x	1 0.00 11.70 11.70 7.57 Less than 8000/298	Titration * 2 2 11.70 23.40 11.70 7.57 + 0.3mg/L	23.40 30.00 6.60 4.27 Less tha	2 0.00 6.50 6.50 4.21 an + 0.3mg/L	1 6.50 10.50 4.00 2.59 Less than	2 10.50 14.60 4.10 2.65 + 0.3mg/L	
Determination of dis Purging Time (min) Trial Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O Final Vol. of Na <sub>2</sub> S <sub>2</sub> O Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Dissolved Oxygen ( <b>D</b> Acceptance criteria, I	D <sub>3</sub> (ml) used (ml) DO), mg/L Deviation DO (mg/L) DO	= V x N x meter readi	1 0.00 11.70 11.70 7.57 Less than 8000/298 ng, mg/L	<i>Titration</i> * 2 11.70 23.40 11.70 7.57 + 0.3mg/L Wink	23.40 30.00 6.60 4.27 Less that ler Titration re	2 0.00 6.50 4.21 an + 0.3mg/L sult *, mg/L	1 6.50 10.50 4.00 2.59 Less than Difference	2 10.50 14.60 4.10 2.65 + 0.3mg/L (%) of DO	
Determination of dis Purging Time (min) Trial Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O Final Vol. of Na <sub>2</sub> S <sub>2</sub> O Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> y Dissolved Oxygen (D Acceptance criteria, I Calculation: Purging time, min	D <sub>3</sub> (ml) used (ml) DO), mg/L Deviation DO (mg/L) DO 1	= V x N x meter readi	1 0.00 11.70 11.70 7.57 Less than 8000/298 ng, mg/L Averag	Titration *         2         11.70         23.40         11.70         7.57         + 0.3mg/L         Wink         e       1	23.40 30.00 6.60 4.27 Less that ler Titration re 2	2 0.00 6.50 4.21 an + 0.3mg/L sult *, mg/L Average	1 6.50 10.50 4.00 2.59 Less than Difference Cor	2 10.50 14.60 4.10 2.65 + 0.3mg/L (%) of DO itent	
Determination of dis Purging Time (min) Trial Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O Final Vol. of Na <sub>2</sub> S <sub>2</sub> O Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Dissolved Oxygen (D Acceptance criteria, I Calculation: Purging time, min 2	D <sub>3</sub> (ml) used (ml) <b>DO</b> ), mg/L Deviation DO (mg/L) DO 1 7.44	= V x N x meter readi 2 7.51	1 0.00 11.70 11.70 7.57 Less than 8000/298 ng, mg/L Averag 7.48	Titration *         2         11.70         23.40         11.70         7.57         + 0.3mg/L         Wink         e       1         7.57	23.40 30.00 6.60 4.27 Less that ler Titration re 2 7.57	2 0.00 6.50 4.21 an + 0.3mg/L sult *, mg/L Average 7.57	1 6.50 10.50 4.00 2.59 Less than Difference Cor	2 10.50 14.60 4.10 2.65 + 0.3mg/L (%) of DO atent 20	
Determination of dis Purging Time (min) Trial Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O Final Vol. of Na <sub>2</sub> S <sub>2</sub> O Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> y Dissolved Oxygen (D Acceptance criteria, I Calculation: Purging time, min	D <sub>3</sub> (ml) used (ml) DO), mg/L Deviation DO (mg/L) DO 1	= V x N x meter readi	1 0.00 11.70 11.70 7.57 Less than 8000/298 ng, mg/L Averag	Titration *         2         11.70         23.40         11.70         7.57         + 0.3mg/L         Wink         e       1	23.40 30.00 6.60 4.27 Less that ler Titration re 2	2 0.00 6.50 4.21 an + 0.3mg/L sult *, mg/L Average	1 6.50 10.50 4.00 2.59 Less than Difference Cor	2 10.50 14.60 4.10 2.65 + 0.3mg/L (%) of DO itent 20 19	



	DO meter re	ading, mg	L			0.00	
Salinity Checking		· · · · · · · · · · · · · · · · · · ·			<u> </u>		
Reagent No. of NaC	1 (10ppt)	C	PE/012/4.7/003/2	29 Reag	ent No. of Na	Cl (30ppt)	CPE/012/4.8/003/29
Determination of di	ssolved oxyg	en content	by Winkler Titr	ation **			
Salinity (ppt)				10			30
Trial			1		2	1	2
Initial Vol. of $Na_2S_2$	O3 (ml)		0.00		10.90	21.90	31.30
Final Vol. of Na <sub>2</sub> S <sub>2</sub> (	D <sub>3</sub> (ml)		10.90		21.90	31.30	40.80
Vol. ( <b>V</b> ) of $Na_2S_2O_3$	used (ml)		10.90		11.00	9.40	9.50
Dissolved Oxygen (l	<b>DO</b> ), mg/L		7.05		7.12	6.08	6.15
Acceptance criteria,				nan + 0.3mg	0.3mg/L Le		ss than + 0.3mg/L
Calculation:	DO (mg/L)	$= \mathbf{V} \mathbf{x} \mathbf{N} \mathbf{x}$	8000/298				
Calinity (mut)	DO meter reading, mg/L			Winkler	· Titration res	ult**, mg/L	Difference (%) of DC
Salinity (ppt)	1	2	Average	1	2	Average	Content
10	7.11	7.15	7.13	7.05	7.12	7.09	0.56
30	6.08	6.04	6.06	6.08	6.15	6.12	0.99
Acceptance Criteria (1) Differenc betwee (2) Linear regression (3) Zero checking: 0. (4) Difference (%) o	n temperatur coefficient : .0mg/L	>0.99			·		mometer : < 0.5 °C
The equipment comp unacceptable <sup>#</sup> for u Delete as appropria	ise.	<del>tot comply</del>	<sup>#</sup> with the specif	ied requiren	nents and is d	eemed accepta	ble <sup>#</sup>



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

juipment Ref. No.	: <u>ET/E</u>	N/008/00	5		Manufactu	irer	: <u>YSI</u>		
odel No.	: Pro 20	)30			Serial No.		: 12A 100	353	
ate of Calibration	: 19/01/	2017			Calibration	n Due Date	: 18/04/2017		
Temperature Verifi	cation	00000-00000000000000000000000000000000							
Ref. No. of Reference	ce Thermom	eter :	ET/052	1/017				-	
Ref. No. of Water B	ath :								
			<b>1</b>		Tan	perature (°C)			
Reference T	ermometer	reading	Measur	ed	20.3	Corrected		19.8	
	Reference Thermometer reading         Measured           DO Meter reading         Measured				19.9	Difference		-0.1	
								-0.1	
Standardization of s		-		T					
Reagent No. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> titrant CPE/012/4.5/001/1					Reagent No. of 0.	$025\mathrm{N}\mathrm{K}_{2}\mathrm{Cr}_{2}\mathrm{O}_{7}$	[CPE/012/	/4.4/002/16	
	OVER THE DESIGN AND ADDRESS OF ADDR				Tria	11	Tri	al 2	
Initial Vol. of $Na_2S_2$					0.0	0	10	.35	
Final Vol. of $Na_2S_2C$		an and an			10.3	35	20.70		
Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> use					10.3	35	10.35		
Normality of Na <sub>2</sub> S <sub>2</sub> C	****				0.024	\$15	0.02415		
Average Normality (	N) of $Na_2S_2$	O <sub>3</sub> solutio	on (N)		0.02415				
Acceptance criteria,					Less than $\pm 0.001$ N				
Calculation:	Normality	of Na <sub>2</sub> S <sub>2</sub> C	$D_3, \mathbb{N} = 0.25 /$	ml Na <sub>2</sub> S <sub>2</sub> O	3 used				
Lineality Checking			*****		***************************************				
Determination of dis	ssolved oxyg	en conte	nt by Winkler	Titration <sup>•</sup>	٢				
Purging Time (min)				2		5		10	
Trial		Ì	1	2	1	2	1	2	
Initial Vol. of $Na_2S_2$	O3 (ml)		0.00	11.40	) 23.00	0.00	6.10	9.90	
Final Vol. of Na <sub>2</sub> S <sub>2</sub> C	03 (ml)		11.40	23.00	) 29.60	6.10	9.90	13.80	
Vol. (V) of $Na_2S_2O_3$	used (ml)		11.40	11.60	) 6.60	6.10	3.80	3.90	
Dissolved Oxygen (I	<b>)0</b> ), mg/L		7.39	7.52	4.28	3.95	2.46	2.53	
Acceptance criteria,	Deviation		Less that	n + 0.3mg/l	Less that	an + 0.3mg/L	Less than	+ 0.3mg/L	
Calculation:	DO (mg/L)	$= \mathbb{V} \times \mathbb{N}$	x 8000/298						
	DO	meter rea	ding, mg/L	w	inkler Titration re	sult *. mg/L	Difference	(%) of DO	
Purging time, min	1	2	Avera			Average	Con	• •	
	7.35	7.42	T	1		7.46	0.9	)4	
2			angaya manangan ng mananga Ng manangan ng m			4.12	1.6	***	
2 5	4.24	4.13	4.19			·			
	4.24 2.51	4.13				2.50	1.9		



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

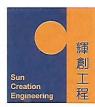
Zero Point Checking	ř							
	DO meter r	eading, mg/I				0.00		
G01701751910210007770000000000000000000000000000			NAME OF CONTRACT					
Salinity Checking								
Reagent No. of NaCl	(10ppt)	CF	PE/012/4.7/003/3	3 Reage	nt No. of NaC	Cl (30ppt)	CPE/012/4.8/003/33	
Determination of dis	solved oxy	zen content	by Winkler Titre	ation **				
Salinity (ppt)			00 4 4 4 9 4 9 4 4 4 4 4 4 4 4 4 4 4 4 4	10			30	
rial			1		2	1	2	
nitial Vol. of $Na_2S_2C$	) <sub>3</sub> (ml)		0.00		10.90	21.80	31.20	
inal Vol. of Na <sub>2</sub> S <sub>2</sub> O	3 (ml)		10.90		21.80	31.20	40.60	
Vol. (V) of $Na_2S_2O_3$	used (ml)		10.90		10.90	9.40	9.40	
Dissolved Oxygen (D	<b>O)</b> , mg/L		7.07		7.07	6.09	6.09	
cceptance criteria, l				nan + 0.3mg/	L	Le	ss than + 0.3mg/L	
Calculation:	DO (mg/L)	$= \mathbf{V} \times \mathbf{N} \times \mathbf{S}$	3000/298	No. 100 March 100 Mar	10101111111111111111111111111111111111			
Salinity (ppt)	DO	meter readii	iding, mg/L V		Vinkler Titration result**, mg/L		Difference (%) of DC	
J T T T	1	2	Average	1	2	Average	Content	
10	7.21	7.18	7.2	7.07	7.07	7.07	1.82	
30	6.13	6.18	6.16	6.09	6.09	6.09	1.14	
Acceptance Criteria 1) Differenc between 2) Linear regression 3) Zero checking: 0. 4) Difference (%) of	coefficient 0mg/L	: >0.99					mometer : < 0.5 °C	
The equipment comp <del>unacceptable</del> <sup>#</sup> for u Delete as appropriat	se.	not comply	<sup>#</sup> with the specif	fied requirem	ents and is d	eemed accepta	uble <sup>#</sup>	
	$\sim$	<u>``</u>					е. <u>А</u> С	



Performance Check of Salinity Meter						
Equipment Ref. No. : <u>ET/EV</u>	V/008/005	Manufacturer : <u>YSI</u>				
Model No. : <u>Pro 20</u>	30	Serial No. : <u>12A 100353</u>				
Date of Calibration : $22/10/$	2016	Due Date : <u>21/01/2017</u>				
Ref. No. of Salinity Standard used (30ppt) S/001/5						
Salinity Standard (ppt)	Measured Salinit (ppt)	y	Difference * (%)			
30.0	30.6		2.00			
(*) Difference (%) = (Measured s	Salinity – Salinity Sta	ndard v	value) / Salinity Standard value x 100	0		
Acceptance Criteria	Difference : -10 %	to 10	%			
			th the specified requirements Measurements are traceable to			
Checked by :	App	roved	by :			



Performance Check of Salinity Meter								
Equipment Ref. No. : <u>ET/EV</u>	Manufacturer : <u>YSI</u>							
Model No. : <u>Pro 20</u>	Serial No. : <u>12A 100353</u>							
Date of Calibration : <u>19/01/2017</u> Due Date : <u>18/04/2017</u>								
Ref. No. of Salinity Standard used (30ppt) S/001/9								
Salinity Standard (ppt)	Measured Salinit (ppt)	y	Difference * (%)					
30.0	30.3		1.00					
(*) Difference (%) = (Measured )	Salinity – Salinity Sta	ndard v	ralue) / Salinity Standard value x 100					
Acceptance Criteria	Acceptance Criteria Difference : -10 % to 10 %							
The salinity meter complies * / <del>does not comply</del> * with the specified requirements and is deemed acceptable * / <del>unacceptable</del> * for use. Measurements are traceable to national standards.								
Checked by : <u>Bianto</u>	App	roved	by:					



Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No.: C165934 證書編號

	/ 送檢項目	] ( Job No. / 序引編號: IC1	.6-2438) Date of Receipt / 收件	+日期:26 October 2010
TIEM TESTED				
Description / 儀器		Anemometer		
Manufacturer / 製		Lutron		
Model No. / 型號	:	AM-4201		
Serial No. / 編號	:	AF.27513		
Supplied By / 委言	七省:	Envirotech Services Co.	Hoi Wing Road, Tuen Mun,	
		New Territories, Hong Kon		
TEST CONDITI	ONS / 测	試條件	•	
Temperature / 溫/	度: (2	23 ± 2)°C	Relative Humidity / 相	對濕度 : (55±20)%
Line Voltage / 電)	壓:	- 11.00000000000000000000000000000000000		
TEST SPECIFIC	CATIONS	5/測試規範		
Calibration check				
			and the second	*
DATE OF TEST	/ 測試日	期 : 27 October 2016		
DATE OF TEST TEST RESULTS				
TEST RESULTS	5/測試結			
TEST RESULTS The results apply	5 / 測試結 to the part	果		
TEST RESULTS The results apply The results are de	5 / 測試結 to the part tailed in th nt used for	果 cicular unit-under-test only. ne subsequent page(s). calibration are traceable to N	ational Standards via :	-
TEST RESULTS The results apply The results are de The test equipmen	5 / 測試結 to the part tailed in th nt used for	果 cicular unit-under-test only. ne subsequent page(s). calibration are traceable to N	ational Standards via :	
TEST RESULTS The results apply The results are de The test equipmen	5 / 測試結 to the part tailed in th nt used for	果 cicular unit-under-test only. ne subsequent page(s). calibration are traceable to N	ational Standards via :	
TEST RESULTS The results apply The results are de The test equipmen	5 / 測試結 to the part tailed in th nt used for	果 iccular unit-under-test only. ne subsequent page(s). calibration are traceable to N GmbH, Germany	ational Standards via :	
TEST RESULTS The results apply The results are de The test equipmen - Testo Industrial	5 / 測試結 to the part tailed in th nt used for	果 cicular unit-under-test only. ne subsequent page(s). calibration are traceable to N	ational Standards via :	
TEST RESULTS The results apply The results are de The test equipmen	5 / 測試結 to the part tailed in th nt used for	果 iccular unit-under-test only. ne subsequent page(s). calibration are traceable to N GmbH, Germany	ational Standards via :	
TEST RESULTS The results apply The results are de The test equipmen - Testo Industrial	5 / 測試結 to the part tailed in th nt used for	果 icular unit-under-test only. ne subsequent page(s). calibration are traceable to N GmbH, Germany	ational Standards via :	
TEST RESULTS The results apply The results are de The test equipmen - Testo Industrial Tested By 測試	5 / 測試結 to the part tailed in th nt used for	果 ticular unit-under-test only. he subsequent page(s). calibration are traceable to N GmbH, Germany MMM T L Shek		
TEST RESULTS The results apply The results are de The test equipmen - Testo Industrial Tested By 測試	5 / 測試結 to the part tailed in th nt used for	果 ficular unit-under-test only. he subsequent page(s). calibration are traceable to N GmbH, Germany T L Shek Assistant Engineer	Date of Issue :	28 October 2016
TEST RESULTS The results apply The results are de The test equipmen - Testo Industrial Tested By 測試	5 / 測試結 to the part tailed in th nt used for	果 ticular unit-under-test only. he subsequent page(s). calibration are traceable to N GmbH, Germany MMM T L Shek		28 October 2016

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



Sun Creation Engineering Limited

Calibration and Testing Laboratory

### Certificate of Calibration 校正證書

Certificate No.: C165934 證書編號

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

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

- 4. Test procedure : MA130N.
- 5. Results :

Air Velocity

Applied	UUT		Measured Correction		
Applied Value	Reading	Value Measurement Uncertain		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 Win	nd Meter
---------------------------	----------

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

Wind Still Test

Wind Speed (m/s)	
0.00	

Wind Speed Test

Global Wate (m/s)	Anemomete (m/s)
1.18	1.3
0.99	1.1
0.67	0.7

Wind Direction Test

Global Wate (o)	Marine Compass (o)	
270.46	270	
0.07	0	
90.25	90	
181.13	180	

Calibrated by:

Yeung Ping Fai (Technical Officer)

Checked by :

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 January 2017)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jan	2-Ja	n <u>3-Jan</u> Noise Impact	4-Jan	5-Jan	6-Jan	7-Ja
		Monitoring				
8-Jan		n 10-Jan	11-Jan		13-Jan	14-Ja
	Noise Impact Monitoring			Noise Impact Monitoring		
15-Jan	16-Ja	in 17-Jan	18-Jan	19-Jan	20-Jan	21-Ja
			Noise Impact Monitoring			
22-Jan	23-Ja		25-Jan			28-Ja
		Noise Impact Monitoring			Noise Impact Monitoring	
29-Jan	30-Ja	in 31-Jan				

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

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

1-Jan2-Jan3-Jan4-Jan5-Jan6-Jan1-hr TSP Monitoring 24-hr TSP Monitoring24-hr TSP Monitoring11 <th>7-Jan</th>	7-Jan
24-hr TSP Monitoring	
8-Jan 9-Jan 10-Jan 11-Jan 12-Jan 13-Jan	14-Jan
1-hr TSP Monitoring 1-hr TSP Monitoring	
24-hr TSP Monitoring 24-hr TSP Monitoring	
15-Jan 16-Jan 17-Jan 18-Jan 19-Jan 20-Jan	21-Jan
1-hr TSP Monitoring	
24-hr TSP Monitoring	
22-Jan 23-Jan 24-Jan 25-Jan 26-Jan 27-Jan	28-Jan
1-hr TSP Monitoring 1-hr TSP Monitoring	
24-hr TSP Monitoring 24-hr TSP Monitoring	
29-Jan 30-Jan 31-Jan	

# HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Noise Monitoring Schedule (1 to 28 February 2017)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Feb		3-Feb	4-Fe
				Noise Impact		
				Monitoring		
5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Fe
J-LeD	о-гер		Noise Impact	9-гер	ТО-гер	11-F6
			Monitoring			
12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Fe
		Noise Impact Monitoring				
19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-F
	Noise Impact			Noise Impact		
	Monitoring			Monitoring		
26-Feb	27-Feb	28-Feb				

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 28 February 2017)

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Feb		3-Feb	4-Feb
				1-hr TSP Monitoring		
				24-hr TSP Monitoring		
5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb
			1-hr TSP Monitoring			
			24-hr TSP Monitoring			
12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb
		1-hr TSP Monitoring				
		24-hr TSP Monitoring				
		C C				
19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb
19-Feb		21-FeD			24-FeD	20-FeD
	1-hr TSP Monitoring			1-hr TSP Monitoring 24-hr TSP Monitoring		
	24-hr TSP Monitoring			24-III I SP Wonitoling		

26-Feb	27-Feb	28-Feb		

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 (January 2017)

Sunday	Monday	Tuesday	Wednesday	Thursday		Friday	Saturday	
01-Jan	02-Jan		04-Jan		05-Jan	06-Jan		07-Jan
		WQM		WQM			WQM	
		Mid-Flood		Mid-Flood			Mid-Ebb	
		11:02		12:35			7:23	
		(09:17 - 12:47)		(10:50 - 14:20)			(05:38 - 09:08)	
		Mid-Ebb		Mid-Ebb			Mid-Flood	
		16:39		18:49			14:16	
		(14:54 - 18:24)		(17:04 - 20:34)			(12:31 - 16:01)	
08-Jan	09-Jan	10-Jan	11-Jan		12-Jan	13-Jan		14-Jan
		WQM		WQM			WQM	
		Mid-Ebb		Mid-Ebb			Mid-Flood	
		11:18		13:02			9:07	
		(09:33 - 13:03)		(11:17 - 14:47)			(07:22 - 10:52)	
		Mid-Flood		Mid-Flood			Mid-Ebb	
		16:43		18:16			14:29	
15 100	10 100	(14:58 - 18:28)	10 100	(16:31 - 20:01)	10 100	00 100	(12:44 - 16:14)	01 100
15-Jan	16-Jan	17-Jan WQM	18-Jan	WQM	19-Jan	20-Jan	WQM	21-Jan
		Mid-Flood		Mid-Flood			Mid-Ebb	
		11:02		12:16			6:47	
		(09:17 - 12:47)		(10:31 - 14:01)			(05:02 - 08:32)	
		Mid-Ebb		Mid-Ebb			Mid-Flood	
		16:34		18:23			13:47	
		(14:49 - 18:19)		(16:38 - 20:08)			(12:02 - 15:32)	
22-Jan	23-Jan		25-Jan	(10.00 20.00)	26-Jan	27-Jan	(12.02 10.02)	28-Jan
		WQM		WQM		2. 00.		
		Mid-Ebb		Mid-Ebb			WQM is cancelle	
		11:04		12:24			due to suspensi	
		(09:19 - 12:49)		(10:39 - 14:09)			of marine works	-
		Mid-Flood		Mid-Flood				
		16:07		17:30				
		(14:22 - 17:52)		(15:45 - 19:15)				
29-Jan	30-Jan	31-Jan	01-Feb		02-Feb	03-Feb		04-Feb
		WQM is cancelled		WQM			WQM	
		due to suspension		Mid-Flood			Mid-Flood	
		of marine works.		10:50			12:22	
		or marine works.		(09:05 - 12:35)			(10:37 - 14:07)	
				Mid-Ebb			Mid-Ebb	
				16:56			19:11	
				(15:11 - 18:41)			(17:26 - 20:56)	

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday		Saturday	
29-Jan	30-Jan	31-Jan	01-Feb		2-Feb	03-Feb		04-Feb
				WQM			WQM	
				Mid-Flood			Mid-Flood	
				10:50			12:22	
				(09:05 - 12:35)			(10:37 - 14:07)	
				Mid-Ebb			Mid-Ebb	
				16:56			19:11	
				(15:11 - 18:41)			(17:26 - 20:56)	
05-Feb	06-Feb		08-Feb		9-Feb	10-Feb		11-Feb
		WQM		WQM			WQM	
		Mid-Ebb		Mid-Ebb			Mid-Flood	
		10:15		12:09			8:04	
		(08:30 - 12:00)		(10:24 - 13:54)			(06:19 - 09:49)	
		Mid-Flood		Mid-Flood			Mid-Ebb	
		15:33		17:24			13:33	
		(13:48 - 17:18)		(15:39 - 19:09)			(11:48 - 15:18)	
12-Feb	13-Feb	14-Feb	15-Feb	<u> </u>	6-Feb	17-Feb		18-Feb
		WQM		WQM			WQM	
		Mid-Flood		Mid-Flood			Mid-Flood	
		9:31		10:22			11:28	
		(07:46 - 11:16)		(08:37 - 12:07)			(09:43 - 13:13)	
		Mid-Ebb		Mid-Ebb			Mid-Ebb	
		15:10		16:22			18:10	
		(13:25 - 16:55)		(14:37 - 18:07)			(16:25 - 19:55)	
19-Feb	20-Feb		22-Feb		3-Feb	24-Feb		25-Feb
		WQM		WQM			WQM	
		Mid-Ebb		Mid-Ebb			Mid-Ebb	
		9:52		11:28			12:39	
		(09:00 - 10:45)		(09:43 - 13:13)			(10:54 - 14:24)	
		Mid-Flood		Mid-Flood			Mid-Flood	
		14:20		16:27			18:00	
		(12:35 - 16:05)		(14:42 - 18:12)			(16:15 - 19:45)	
26-Feb	27-Feb		01-Mar		2-Mar	03-Mar	, , , , , , , , , , , , , , , , , , ,	04-Mar
		WQM		WQM			WQM	
		Mid-Flood		Mid-Flood			Mid-Flood	
		8:28		9:25			10:35	
		(06:43 - 10:13)		(07:40 - 11:10)			(08:50 - 12:20)	
		Mid-Ebb		Mid-Ebb			Mid-Ebb	
		14:19		15:35			17:18	
		(12:34 - 16:04)		(13:50 - 17:20)			(15:33 - 19:03)	

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 January 2017)

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

#### HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Dolphin Monitoring Survey Schedule (1 to 28 February 2017)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Feb	2-Feb	3-Feb	4-Feb
		7 5.4		0.5.5		
5-Feb	6-Feb				10-Feb	11-Feb
		Impact Dolphin		Impact Dolphin		
		Monitoring		Monitoring		
12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb
		Impact Dolphin				
		Monitoring				
		Ŭ				
19-Feb		21-Feb	22-Feb	23-Feb	24-Feb	25-Feb
	Impact Dolphin					
	Monitoring					
26-Feb	27-Feb	28-Feb				
20100	21100	20100				
						, I
						, I

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

I-nour ISP 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	2017-01-03	ASR8A	8:25	1-hr TSP	141				
TMCLKL	HY/2012/07	2017-01-03	ASR8A	9:27	1-hr TSP	100				
TMCLKL	HY/2012/07	2017-01-03	ASR8A	10:29	1-hr TSP	91				
TMCLKL	HY/2012/07	2017-01-09	ASR8A	8:00	1-hr TSP	80				
TMCLKL	HY/2012/07	2017-01-09	ASR8A	9:02	1-hr TSP	58				
TMCLKL	HY/2012/07	2017-01-09	ASR8A	10:04	1-hr TSP	66				
TMCLKL	HY/2012/07	2017-01-12	ASR8A	8:12	1-hr TSP	130		500		
TMCLKL	HY/2012/07	2017-01-12	ASR8A	9:14	1-hr TSP	85				
TMCLKL	HY/2012/07	2017-01-12	ASR8A	10:16	1-hr TSP	160	394			
TMCLKL	HY/2012/07	2017-01-18	ASR8A	8:14	1-hr TSP	131	394			
TMCLKL	HY/2012/07	2017-01-18	ASR8A	9:16	1-hr TSP	98				
TMCLKL	HY/2012/07	2017-01-18	ASR8A	10:18	1-hr TSP	107				
TMCLKL	HY/2012/07	2017-01-24	ASR8A	9:00	1-hr TSP	157				
TMCLKL	HY/2012/07	2017-01-24	ASR8A	10:02	1-hr TSP	131				
TMCLKL	HY/2012/07	2017-01-24	ASR8A	11:04	1-hr TSP	117				
TMCLKL	HY/2012/07	2017-01-27	ASR8A	9:13	1-hr TSP	83				
TMCLKL	HY/2012/07	2017-01-27	ASR8A	10:15	1-hr TSP	102				
TMCLKL	HY/2012/07	2017-01-27	ASR8A	11:17	1-hr TSP	84	7			
					Average	107				
					Min.	58				
					Max.	160				

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

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

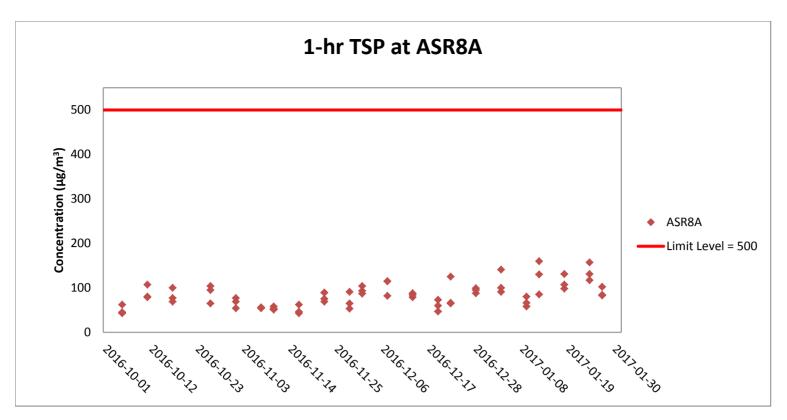
Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2017-01-03	ASR9	8:35	1-hr TSP	245		
TMCLKL	HY/2012/07	2017-01-03	ASR9	9:37	1-hr TSP	164		
TMCLKL	HY/2012/07	2017-01-03	ASR9	10:39	1-hr TSP	202		
TMCLKL	HY/2012/07	2017-01-09	ASR9	8:11	1-hr TSP	175		
TMCLKL	HY/2012/07	2017-01-09	ASR9	9:13	1-hr TSP	188		
TMCLKL	HY/2012/07	2017-01-09	ASR9	10:15	1-hr TSP	112		
TMCLKL	HY/2012/07	2017-01-12	ASR9	8:22	1-hr TSP	185		
TMCLKL	HY/2012/07	2017-01-12	ASR9	9:24	1-hr TSP	165		500
TMCLKL	HY/2012/07	2017-01-12	ASR9	10:26	1-hr TSP	155	393	
TMCLKL	HY/2012/07	2017-01-18	ASR9	8:25	1-hr TSP	118	395	
TMCLKL	HY/2012/07	2017-01-18	ASR9	9:27	1-hr TSP	148		
TMCLKL	HY/2012/07	2017-01-18	ASR9	10:29	1-hr TSP	77		
TMCLKL	HY/2012/07	2017-01-24	ASR9	9:11	1-hr TSP	228		
TMCLKL	HY/2012/07	2017-01-24	ASR9	10:13	1-hr TSP	198		
TMCLKL	HY/2012/07	2017-01-24	ASR9	11:15	1-hr TSP	214		
TMCLKL	HY/2012/07	2017-01-27	ASR9	9:23	1-hr TSP	152		
TMCLKL	HY/2012/07	2017-01-27	ASR9	10:25	1-hr TSP	131		
TMCLKL	HY/2012/07	2017-01-27	ASR9	11:27	1-hr TSP	107	7	
					Average	165		
					Min.	77		
					Max.	245		

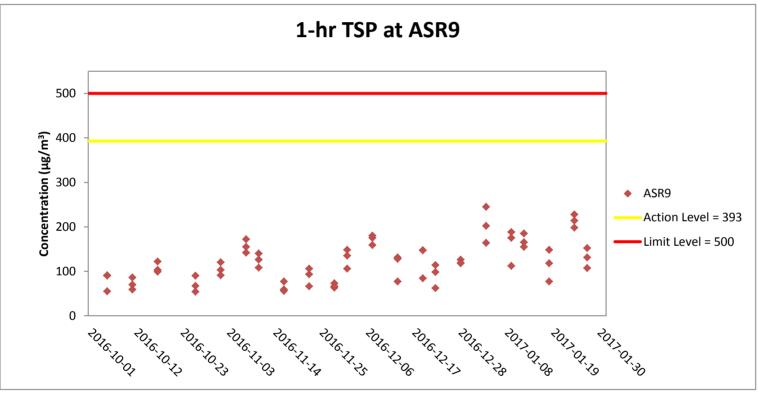
Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2017-01-03	ASR8A	11:31	24-hr TSP	50		
TMCLKL	HY/2012/07	2017-01-09	ASR8A	11:06	24-hr TSP	65		260
TMCLKL	HY/2012/07	2017-01-12	ASR8A	11:18	24-hr TSP	81	178	
TMCLKL	HY/2012/07	2017-01-18	ASR8A	11:20	24-hr TSP	58		
TMCLKL	HY/2012/07	2017-01-24	ASR8A	12:06	24-hr TSP	61		
TMCLKL	HY/2012/07	2017-01-27	ASR8A	12:19	24-hr TSP	55		
					Average	62		
					Min.	50		
					Max.	81		

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

#### 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	2017-01-03	ASR9	11:41	24-hr TSP	82		
TMCLKL	HY/2012/07	2017-01-09	ASR9	11:17	24-hr TSP	94		
TMCLKL	HY/2012/07	2017-01-12	ASR9	11:28	24-hr TSP	96	178	260
TMCLKL	HY/2012/07	2017-01-18	ASR9	11:31	24-hr TSP	73	170	200
TMCLKL	HY/2012/07	2017-01-24	ASR9	12:17	24-hr TSP	92		
TMCLKL	HY/2012/07	2017-01-27	ASR9	12:29	24-hr TSP	72		
					Average	85		
					Min.	72		
					Max.	96		

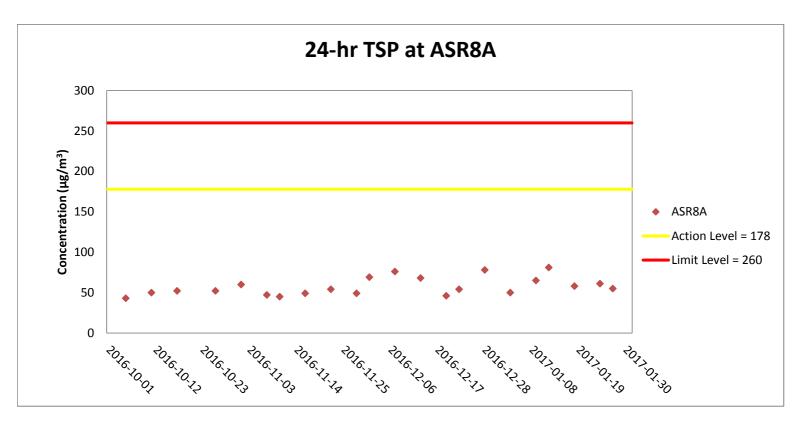


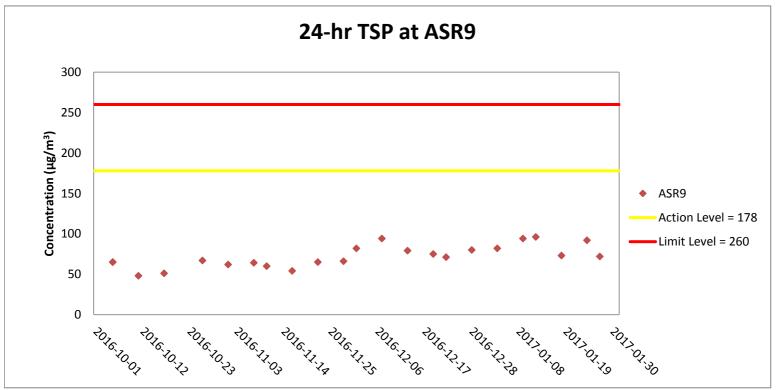


Weather condition within the reporting period varied between sunny to rainy.

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

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





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

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

Appendix H

Meteorological Data for the Reporting Month

Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2017/1/3	0	0.0	188
2017/1/3	1	0.0	194
2017/1/3	2	0.0	193
2017/1/3	3	0.1	193
2017/1/3	4	0.0	210
2017/1/3	5	0.0	210
2017/1/3	6	0.0	210
2017/1/3	7	0.3	215
2017/1/3	8	3.0	165
2017/1/3	9	2.6	167
2017/1/3	10	3.0	166
2017/1/3	11	3.9	160
2017/1/3	12	3.7	168
2017/1/3	13	2.4	162
2017/1/3	14	2.1	143
2017/1/3	15	2.2	144
2017/1/3	16	3.0	156
2017/1/3	17	2.3	190
2017/1/3	18	0.6	179
2017/1/3	19	1.1	108
2017/1/3	20	1.3	138
2017/1/3	20	3.0	158
2017/1/3	21	1.6	171
2017/1/3	23	2.6	171
	0	1.5	167
2017/1/4 2017/1/4	1	0.3	219
2017/1/4	2	1.8	173
	3		
2017/1/4		2.5	183
2017/1/4	4	1.9	190
2017/1/4	5	3.3	164
2017/1/4	6	3.3	174
2017/1/4	7	1.1	186
2017/1/4	8	0.6	180
2017/1/4	9	1.2	173
2017/1/4	10	0.9	153
2017/1/4	11	1.9	165
2017/1/4	12	2.1	154
2017/1/4	13	2.5	164
2017/1/4	14	2.4	145
2017/1/4	15	2.8	160
2017/1/4	16	2.6	161
2017/1/4	17	1.1	157
2017/1/4	18	0.3	201
2017/1/4	19	0.2	172
2017/1/4	20	0.1	176
2017/1/4	21	0.0	183
2017/1/4	22	0.3	175
2017/1/4	23	0.4	151
2017/1/9	0	0.0	133
2017/1/9	1	0.0	133
2017/1/9	2	0.0	189
2017/1/9	3	0.2	185
2017/1/9	4	0.2	185
2017/1/9	5	0.0	75
	6	0.0	52
2017/1/9	7	0.1	68
2017/1/9			
2017/1/9	8	0.0	142
2017/1/9	9	0.1	105
2017/1/9	10	0.4	193
2017/1/9	11	0.9	156
2017/1/9	12	0.8	157
2017/1/9	13	1.2	158
2017/1/9	14	1.7	192
2017/1/9	15	2.8	192
2017/1/9	16	2.8	185
2017/1/9	17	1.8	178
2017/1/9	18	1.8	181
2017/1/9	19	0.4	171
2017/1/9	20	0.0	90
2017/1/9	21	0.1	115
2017/1/9	22	0.2	155
2017/1/9	23	0.5	188
			100

Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2017/1/10	1	0.5	162
2017/1/10	2	0.0	52
2017/1/10	3	0.3	82
2017/1/10	4	1.0	188
2017/1/10	5	0.8	178
2017/1/10	6	1.1	161
2017/1/10	7	0.4	132
2017/1/10	8	1.0	153
2017/1/10	9	1.0	193
2017/1/10	10	1.2	178
2017/1/10	11	2.1	167
2017/1/10	12	1.3	167
2017/1/10	13	1.8	174
2017/1/10	14	2.5	169
2017/1/10	15	2.2	161
2017/1/10	16	2.2	176
2017/1/10	17	0.9	183
2017/1/10	18	1.4	181
2017/1/10	19	0.9	181
2017/1/10	20	0.3	160
2017/1/10	21	0.6	160
2017/1/10	22	0.1	177
2017/1/10	23	0.1	232
2017/1/12	0	0.7	156
2017/1/12	1	0.3	163
2017/1/12	2	0.0	188
2017/1/12	3	0.0	161
2017/1/12	4	0.1	137
2017/1/12	5	0.0	112
2017/1/12	6	0.0	131
2017/1/12	7	0.0	154
2017/1/12	8	0.1	116
2017/1/12	9	0.0	173
2017/1/12	10	0.0	184
2017/1/12	11	0.1	134
2017/1/12	12	0.0	276
2017/1/12	13	0.0	273
2017/1/12	14	0.0	123
2017/1/12	15	0.1	146
2017/1/12	16	0.0	182
2017/1/12	17	0.0	290
2017/1/12	18	0.0	331
2017/1/12	19	0.0	112
2017/1/12	20	0.0	58
2017/1/12	21	0.0	274
2017/1/12	22	0.1	158
2017/1/12	23	0.0	285
2017/1/13	0	0.1	186
2017/1/13	1	0.0	175
2017/1/13	23	0.0	124
2017/1/13		0.0	284
2017/1/13	<u>4</u> 5	0.0	256 147
<u>2017/1/13</u> 2017/1/13	6	0.0	147
	7		
2017/1/13	8	0.0	250
2017/1/13 2017/1/13	9	0.0	<u>242</u> 94
2017/1/13	10	0.0	165
2017/1/13	10	0.2	86
2017/1/13	11	0.0	231
2017/1/13	12	0.0	160
2017/1/13	15 14	0.0	
2017/1/13	14	0.1	<u> </u>
2017/1/13	15	0.1	139
2017/1/13	18	0.0	168
2017/1/13	17	0.0	55
	18	0.0	131
2017/1/13	20	0.0	77
2017/1/13			
2017/1/13	21	0.0	130
2017/1/13	22	0.0	60
2017/1/13	23	0.0	213
2017/1/18	0	0.1	72

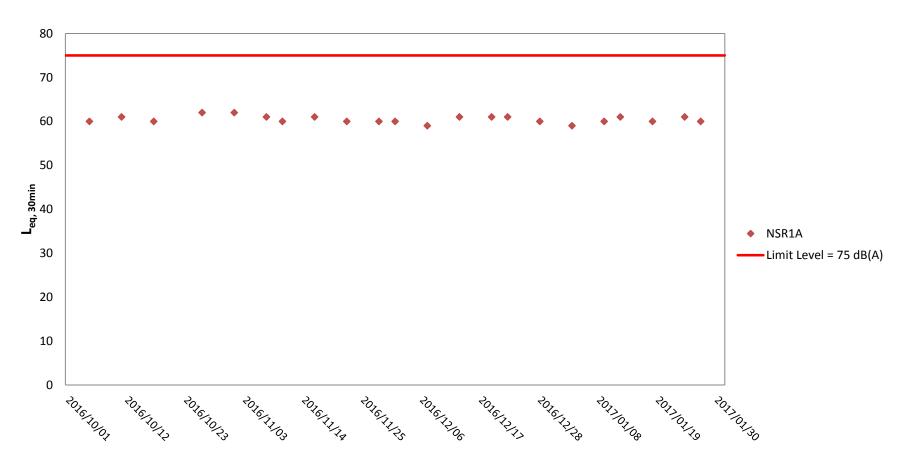
Date 2017/1/18 2017/1/18 2017/1/18 2017/1/18 2017/1/18 2017/1/18 2017/1/18	Time (HH) 2 3 4	Wind speed (m/s) 0.1 0.0	Wind direction (deg) 94
2017/1/18 2017/1/18 2017/1/18 2017/1/18 2017/1/18	3		
2017/1/18 2017/1/18 2017/1/18 2017/1/18			
2017/1/18 2017/1/18 2017/1/18	4		158
2017/1/18 2017/1/18	5	0.0	119
2017/1/18	5 6	0.3	161
		0.0	115
2017/1/18	7	0.0	79
	8	0.0	130
2017/1/18	9	0.1	175
2017/1/18	10	0.2	130
2017/1/18	11	0.0	288
2017/1/18	12	0.1	160
2017/1/18	13	0.0	164
2017/1/18	14	0.0	170
2017/1/18	15	0.0	169
2017/1/18	16	0.0	169
2017/1/18	17	0.0	169
2017/1/18	18	0.0	138
2017/1/18	19	0.0	170
2017/1/18	20	0.0	170
2017/1/18	21	0.0	154
2017/1/18	22	0.0	180
2017/1/18	23	0.0	180
2017/1/19	0	0.0	180
2017/1/19	1	0.0	180
2017/1/19	2	0.0	180
2017/1/19	3	0.0	180
2017/1/19	4	0.0	180
2017/1/19	5	0.0	180
2017/1/19	6	0.0	134
2017/1/19	7	0.0	166
2017/1/19	8	0.0	142
2017/1/19	9	0.0	211
2017/1/19	10	0.0	77
2017/1/19	11	0.0	160
2017/1/19	12	0.0	95
2017/1/19	13	0.0	162
2017/1/19	14	0.0	131
2017/1/19	15	0.0	105
2017/1/19	16	0.0	67
2017/1/19	17	0.0	85
2017/1/19	18	0.1	136
2017/1/19	19	0.1	147
2017/1/19	20	0.0	153
2017/1/19	21	0.0	161
2017/1/19	22	0.3	225
2017/1/19	23	0.1	194
2017/1/24	0	1.2	192
2017/1/24	1	0.9	226
2017/1/24	2	1.0	193
2017/1/24	3	1.1	182
2017/1/24	4	0.9	180
2017/1/24	5	0.9	178
2017/1/24	6	0.9	162
2017/1/24	7	0.1	160
2017/1/24	8	0.1	170
2017/1/24	9	0.8	170
2017/1/24	10	0.7	206
2017/1/24	11	0.0	219
2017/1/24	12	0.5	115
2017/1/24	13	2.0	144
2017/1/24	14	2.1	158
2017/1/24	15	2.8	174
2017/1/24	16	2.1	172
2017/1/24	17	2.3	177
	18	2.9	174
2017/1/24	19	2.5	183
2017/1/24	20	2.1	187
2017/1/24 2017/1/24			
2017/1/24	20 21	2.6	168
2017/1/24 2017/1/24 2017/1/24 2017/1/24	21 22	0.9	195
2017/1/24 2017/1/24 2017/1/24	21		
2017/1/24 2017/1/24 2017/1/24 2017/1/24	21 22	0.9	195
2017/1/24 2017/1/24 2017/1/24 2017/1/24 2017/1/24	21 22 23	0.9 1.5	195 206
2017/1/24 2017/1/24 2017/1/24 2017/1/24 2017/1/24 2017/1/25 2017/1/25	21 22 23 0 1	0.9 1.5 1.6	195           206           173
2017/1/24 2017/1/24 2017/1/24 2017/1/24 2017/1/24 2017/1/25	21 22 23 0	0.9 1.5 1.6 0.1	195           206           173           111

Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2017/1/25	5	1.2	162
2017/1/25	6	0.4	147
2017/1/25	7	0.1	172
2017/1/25	8	0.0	79
2017/1/25	9	0.0	248
2017/1/25	10	0.0	240
2017/1/25	11	0.0	160
2017/1/25	12	0.1	176
2017/1/25	13	0.1	221
2017/1/25	14	1.2	199
2017/1/25	15	2.8	176
2017/1/25	16	3.0	169
2017/1/25	17	1.3	157
2017/1/25	18	2.0	165
2017/1/25	19	0.9	134
2017/1/25	20	1.0	140
2017/1/25	21	1.0	148
2017/1/25	22	1.4	185
2017/1/25	23	1.4	165
2017/1/27	0	0.5	126
2017/1/27	1	0.3	130
2017/1/27	2	0.0	208
2017/1/27	3	0.0	134
2017/1/27	4	0.0	36
2017/1/27	5	0.0	58
2017/1/27	6	0.0	183
2017/1/27	7	0.2	181
2017/1/27	8	0.0	147
2017/1/27	9	0.0	183
2017/1/27	10	0.0	158
2017/1/27	11	0.0	232
2017/1/27	12	0.1	303
2017/1/27	13	0.0	177
2017/1/27	14	0.0	174
2017/1/27	15	0.0	141
2017/1/27	16	0.2	120
2017/1/27	17	1.2	172
2017/1/27	18	0.7	172
2017/1/27	19	0.4	177
2017/1/27	20	1.6	155
2017/1/27	21	1.8	160
2017/1/27	22	0.1	131
2017/1/27	23	0.1	115
2017/1/28	0	0.0	110
2017/1/28	1	0.3	171
2017/1/28 2017/1/28	23	0.1	171 191
	4	0.1	163
2017/1/28 2017/1/28	5	2.9	169
2017/1/28	6	1.8	190
2017/1/28	7	3.2	190
2017/1/28	8	3.6	162
2017/1/28	9	3.1	172
2017/1/28	10	1.8	198
2017/1/28	10	1.0	198
2017/1/28	11	1.2	140
		1.4	170
	13	1.1	1/0
2017/1/28	<u>13</u> 14		179
2017/1/28 2017/1/28	14	1.7	179 182
2017/1/28 2017/1/28 2017/1/28	14 15	1.7 1.2	182
2017/1/28 2017/1/28 2017/1/28 2017/1/28	14 15 16	1.7 1.2 0.1	182 106
2017/1/28 2017/1/28 2017/1/28 2017/1/28 2017/1/28	14 15 16 17	1.7 1.2 0.1 0.0	182 106 49
2017/1/28 2017/1/28 2017/1/28 2017/1/28 2017/1/28 2017/1/28	14 15 16 17 18	1.7 1.2 0.1 0.0 0.1	182 106 49 91
2017/1/28 2017/1/28 2017/1/28 2017/1/28 2017/1/28 2017/1/28 2017/1/28	14 15 16 17 18 19	1.7 1.2 0.1 0.0 0.1 1.5	182 106 49 91 167
2017/1/28 2017/1/28 2017/1/28 2017/1/28 2017/1/28 2017/1/28 2017/1/28 2017/1/28	14 15 16 17 18 19 20	1.7 1.2 0.1 0.0 0.1 1.5 1.5	182 106 49 91 167 179
2017/1/28 2017/1/28 2017/1/28 2017/1/28 2017/1/28 2017/1/28 2017/1/28	14 15 16 17 18 19	1.7 1.2 0.1 0.0 0.1 1.5	182 106 49 91 167

Appendix I

Impact Noise Monitoring Results and Graphical Presentation

Dreiset	\A/orko		Otation	Moother Condition		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	2017-01-03	NSR1A	Sunny	9:48	59	61	55	75	0.2	RION NL31 (S/N	RION NC73 (S/N
TWICERE	111/2012/07	2017-01-03	NONIA	Sunny	9.40	- 59	01	- 55	75	0.2	00603867)	10997142)
TMCLKL	HY/2012/07	2017-01-09	NSR1A	Sunny	9:23	60	62	54	75	0.2	RION NL31 (S/N	RION NC73 (S/N
TWICERE	111/2012/07	2017-01-09	NONIA	Sunny	9.23	00	02	54	75	0.2	00603867)	10997142)
TMCLKL	HY/2012/07	2017-01-12	NSR1A	Cloudy	10:36	61	63	55	75	0.3	RION NL31 (S/N	RION NC73 (S/N
TIMOLINE	111/2012/07	2017-01-12	NORIA	Cloudy	10.56	01	03	- 55	75	0.5	00603867)	10997142)
TMCLKL	HY/2012/07	2017-01-18	NSR1A	Cloudy	9:37	60	62	53	75	0.2	RION NL31 (S/N	RION NC73 (S/N
TIMOLAL	HT/2012/07	2017-01-10	NORIA	Cloudy	9.37	00	02	- 55	75	0.2	00603867)	10997142)
TMCLKL	HY/2012/07	2017-01-24	NSR1A	Sunny	10:23	61	63	57	75	0.3	RION NL31 (S/N	RION NC73 (S/N
TWICERE	111/2012/07	2017-01-24	NONIA	Sunny	10.23	01	03	57	75	0.5	00603867)	10997142)
TMCLKL	HY/2012/07	2017-01-27	NSR1A	Sunny	10:35	60	62	55	75	0.2	RION NL31 (S/N	RION NC73 (S/N
TWICERE	111/2012/07	2017-01-27	NORIA	Sunny	10.55	00	02	- 55	75	0.2	00603867)	10997142)
					Min.	59						
					Max.	61						
					Average	60						



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-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v S	SS_v
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	CS(Mf)5	10:17	Surface	1	1	20.5	7.94	27.5	7.69	6.72	9.1
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	CS(Mf)5	10:17	Surface	1	2	20.5	7.96	27.6	7.71	6.74	9.2
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	CS(Mf)5	10:17	Middle	2	1	20.6	8.13	27.7	7.88	6.88	9.4
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	CS(Mf)5	10:17	Middle	2	2	20.7	8.15	27.8	7.9	6.91	9.4
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	CS(Mf)5	10:17	Bottom	3	1	20.8	8.02	27.9	8.14	7.05	9.9
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	CS(Mf)5	10:17	Bottom	3	2	20.8	8.04	27.9	8.12	7.08	9.9
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	SR4a	10:40	Surface	1	1	20.5	8.13	27.6	7.84	6.48	8.9
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	SR4a	10:40	Surface	1	2	20.6	8.15	27.6	7.87	6.45	8.9
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	SR4a	10:40	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	SR4a	10:40	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	SR4a	10:40	Bottom	3	1	20.7	7.9	27.7	7.99	6.55	9.1
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	SR4a	10:40	Bottom	3	2	20.8	7.93	27.8	8.01	6.57	9.2
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	SR4	11:05	Surface	1	1	20.5	8.14	27.6	7.92	6.66	9.2
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	SR4	11:05	Surface	1	2	20.6	8.17	27.7	7.95	6.68	9.2
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	SR4	11:05	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	SR4	11:05	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	SR4	11:05	Bottom	3	1	20.7	7.73	27.8	8.13	6.79	9.6
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	SR4	11:05	Bottom	3	2	20.8	7.75	27.8	8.15	6.81	9.7
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS8	11:25	Surface	1	1	20.5	7.93	27.5	8.14	6.72	9.3
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS8	11:25	Surface	1	2	20.5	7.96	27.6	8.17	6.75	9.3
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS8	11:25	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS8	11:25	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS8	11:25	Bottom	3	1	20.6	8.13	27.7	8.44	7.03	10
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS8	11:25	Bottom	3	2	20.7	8.15	27.8	8.46	7.06	10
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS(Mf)16	11:43	Surface	1	1	20.6	8.07	27.5	8.04	6.34	8.7
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS(Mf)16	11:43	Surface	1	2	20.7	8.11	27.6	8.07	6.37	8.8
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS(Mf)16	11:43	Middle	2	1	20.8	7.83	27.7	8.15	6.45	8.7
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS(Mf)16	11:43	Middle	2	2	20.7	7.8	27.8	8.18	6.48	8.8
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS(Mf)16	11:43	Bottom	3	1	20.9	7.6	27.9	8.29	6.77	9.3
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS(Mf)16	11:43	Bottom	3	2	20.8	7.63	27.8	8.31	6.79	9.3
TMCLKL	HY/2012/07	2017-01-03			12:10	Surface	1	1	20.5	8.13	27.7	8.04	6.41	8.5
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS(Mf)9	12:10	Surface	1	2	20.5	8.16	27.6	8.07	6.44	8.6

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS(Mf)9	12:10	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS(Mf)9	12:10	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS(Mf)9	12:10	Bottom	3	1	20.6	7.94	27.8	8.25	6.58	8.9
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	IS(Mf)9	12:10	Bottom	3	2	20.7	7.91	27.8	8.27	6.61	9
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	CS(Mf)3	12:30	Surface	1	1	20.4	7.83	27.5	7.85	6.74	9
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	CS(Mf)3	12:30	Surface	1	2	20.5	7.85	27.6	7.88	6.71	8.9
TMCLKL	HY/2012/07	2017-01-03		CS(Mf)3	12:30	Middle	2	1	20.6	8.11	27.7	8.04	7	9.4
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	CS(Mf)3	12:30	Middle	2	2	20.7	8.13	27.7	8.07	7.03	9.5
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	CS(Mf)3	12:30	Bottom	3	1	20.8	7.94	27.8	8.29	7.15	9.9
TMCLKL	HY/2012/07	2017-01-03	Mid-Flood	CS(Mf)3	12:30	Bottom	3	2	20.8	7.97	27.7	8.31	7.17	9.9
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	CS(Mf)5	17:16	Surface	1	1	20.6	7.62	27.7	7.56	7.41	10.1
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	CS(Mf)5	17:16	Surface	1	2	20.7	7.68	27.6	7.6	7.45	10.1
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	CS(Mf)5	17:16	Middle	2	1	20.7	7.97	27.7	7.94	7.58	10.3
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	CS(Mf)5	17:16	Middle	2	2	20.8	7.93	27.8	7.99	7.53	10.2
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	CS(Mf)5	17:16	Bottom	3	1	20.9	7.54	27.8	7.8	7.68	10.6
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	CS(Mf)5	17:16	Bottom	3	2	20.9	7.59	27.9	7.76	7.71	10.6
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	SR4a	16:48	Surface	1	1	20.6	7.84	27.9	7.57	7.36	9.8
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	SR4a	16:48	Surface	1	2	20.5	7.88	27.8	7.64	7.4	9.8
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	SR4a	16:48	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	SR4a	16:48	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	SR4a	16:48	Bottom	3	1	20.7	7.65	27.9	7.88	7.52	10.2
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	SR4a	16:48	Bottom	3	2	20.7	7.67	27.9	7.94	7.55	10.2
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	SR4	16:27	Surface	1	1	20.6	7.54	27.8	7.61	7.42	9.9
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	SR4	16:27	Surface	1	2	20.7	7.59	27.8	7.67	7.46	9.9
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	SR4	16:27	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	SR4	16:27	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	SR4		Bottom	3	1	20.7	7.67	27.7	7.92	7.79	10.4
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	SR4	16:27	Bottom	3	2	20.7	7.73	27.8	7.95	7.75	10.3
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS8	15:58	Surface	1	1	20.5	7.86	27.9	7.68	7.53	10
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS8	15:58	Surface	1	2	20.6	7.83	27.8	7.74	7.58	10.1
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS8	15:58	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS8	15:58	Middle	2	2						

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS8	15:58	Bottom	3	1	20.8	7.93	27.9	7.82	7.66	10.3
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS8	15:58	Bottom	3	2	20.7	7.96	27.9	7.86	7.69	10.4
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS(Mf)16	15:40	Surface	1	1	20.6	7.77	27.7	7.44	7.63	10.1
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS(Mf)16	15:40	Surface	1	2	20.7	7.72	27.8	7.47	7.67	10.2
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS(Mf)16	15:40	Middle	2	1	20.8	7.5	27.8	7.95	7.54	10
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS(Mf)16	15:40	Middle	2	2	20.8	7.54	27.8	7.91	7.56	10.1
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS(Mf)16	15:40	Bottom	3	1	20.9	7.92	27.8	7.56	7.83	10.6
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS(Mf)16	15:40	Bottom	3	2	20.8	7.98	27.9	7.59	7.8	10.5
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS(Mf)9	15:20	Surface	1	1	20.6	7.66	27.9	7.47	7.34	9.9
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS(Mf)9	15:20	Surface	1	2	20.6	7.61	27.8	7.56	7.36	9.9
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS(Mf)9	15:20	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS(Mf)9	15:20	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS(Mf)9	15:20	Bottom	3	1	20.7	7.94	27.8	7.68	7.52	10.2
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	IS(Mf)9	15:20	Bottom	3	2	20.7	7.98	27.8	7.71	7.55	10.3
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	CS(Mf)3	14:54	Surface	1	1	20.6	7.85	27.8	7.42	7.26	9.8
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	CS(Mf)3	14:54	Surface	1	2	20.7	7.91	27.8	7.46	7.28	9.8
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	CS(Mf)3	14:54	Middle	2	1	20.7	7.74	27.9	7.53	7.37	9.9
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	CS(Mf)3	14:54	Middle	2	2	20.7	7.7	27.8	7.57	7.33	9.9
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	CS(Mf)3	14:54	Bottom	3	1	20.8	7.82	27.7	7.49	7.5	10.2
TMCLKL	HY/2012/07	2017-01-03	Mid-Ebb	CS(Mf)3	14:54	Bottom	3	2	20.9	7.88	27.7	7.55	7.53	10.3
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	CS(Mf)5	11:50	Surface	1	1	21.4	7.89	27.6	7.59	8.64	11.7
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	CS(Mf)5	11:50	Surface	1	2	21.5	7.86	27.6	7.64	8.57	11.7
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	CS(Mf)5	11:50	Middle	2	1	21.4	7.84	27.6	7.59	9	12.1
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	CS(Mf)5	11:50	Middle	2	2	21.4	7.87	27.6	7.6	8.92	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	CS(Mf)5	11:50	Bottom	3	1	21.4	7.89	27.6	7.48	8.76	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	CS(Mf)5	11:50	Bottom	3	2	21.4	7.92	27.6	7.49	8.82	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	SR4a	12:06	Surface	1	1	21.4	7.94	27.6	7.78	8.64	11.6
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	SR4a	12:06	Surface	1	2	21.4	7.96	27.6	7.82	8.72	11.6
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	SR4a	12:06	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	SR4a	12:06	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	SR4a	12:06	Bottom	3	1	21.3	7.94	27.6	7.68	8.86	11.8
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	SR4a	12:06	Bottom	3	2	21.3	7.92	27.6	7.69	8.9	11.5

Project	Works	Date (yyyy-mm-o	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v S	SS_v
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	SR4	12:20	Surface	1	1	21.4	7.96	27.6	7.34	8.74	11.7
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	SR4	12:20	Surface	1	2	21.5	7.92	27.5	7.38	8.8	11.7
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	SR4	12:20	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	SR4	12:20	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	SR4	12:20	Bottom	3	1	21.4	7.94	27.6	7.27	9.02	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	SR4	12:20	Bottom	3	2	21.4	7.94	27.6	7.3	9.06	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS8	12:34	Surface	1	1	21.5	7.93	27.6	7.62	8.79	11.7
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS8	12:34	Surface	1	2	21.4	7.96	27.6	7.65	8.82	11.7
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS8	12:34	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS8	12:34	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS8	12:34	Bottom	3	1	21.4	7.93	27.6	7.59	8.96	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS8	12:34	Bottom	3	2	21.4	7.94	27.6	7.63	9.02	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS(Mf)16	12:48	Surface	1	1	21.5	7.96	27.6	7.68	8.79	11.7
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS(Mf)16	12:48	Surface	1	2	21.5	7.92	27.6	7.64	8.82	11.7
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS(Mf)16	12:48	Middle	2	1	21.4	7.92	27.6	7.65	8.93	11.8
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS(Mf)16	12:48	Middle	2	2	21.4	7.93	27.6	7.62	8.96	11.7
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS(Mf)16	12:48	Bottom	3	1	21.4	7.92	27.6	7.69	8.79	12.1
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS(Mf)16	12:48	Bottom	3	2	21.4	7.93	27.6	7.74	8.86	11.8
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS(Mf)9	13:08	Surface	1	1	21.4	7.76	27.6	7.68	8.68	11.5
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS(Mf)9	13:08	Surface	1	2	21.5	7.78	27.6	7.69	8.7	11.6
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS(Mf)9	13:08	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS(Mf)9	13:08	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS(Mf)9		Bottom	3	1	21.4	7.69	27.6	7.58	9.04	12.3
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	IS(Mf)9	13:08	Bottom	3	2	21.4	7.68	27.6	7.62	9.02	12.3
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	CS(Mf)3	13:21	Surface	1	1	21.5	7.65	27.6	7.78	8.87	11.8
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	CS(Mf)3	13:21	Surface	1	2	21.5	7.68	27.6	7.74	8.89	11.8
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	CS(Mf)3	13:21	Middle	2	1	21.4	7.69	27.6	7.72	9.02	12.1
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	CS(Mf)3	13:21	Middle	2	2	21.4	7.74	27.6	7.7	9.06	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	CS(Mf)3	13:21	Bottom	3	1	21.4	7.68	27.6	7.66	8.92	12.4
TMCLKL	HY/2012/07	2017-01-05	Mid-Flood	CS(Mf)3	13:21	Bottom	3	2	21.4	7.72	27.6	7.68	8.86	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	CS(Mf)5	18:51	Surface	1	1	21.4	7.87	27.7	7.6	8.59	11.8
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	CS(Mf)5	18:51	Surface	1	2	21.4	7.84	27.6	7.56	8.62	11.7

Project	Works	Date (yyyy-mm-o	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	CS(Mf)5	18:51	Middle	2	1	21.5	7.85	27.6	7.53	8.89	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	CS(Mf)5	18:51	Middle	2	2	21.4	7.83	27.6	7.56	8.94	12.1
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	CS(Mf)5	18:51	Bottom	3	1	21.5	7.94	27.7	7.47	8.86	12.3
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	CS(Mf)5	18:51	Bottom	3	2	21.5	7.88	27.6	7.49	8.81	12.3
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	SR4a	18:31	Surface	1	1	21.4	7.91	27.6	7.73	8.74	11.9
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	SR4a	18:31	Surface	1	2	21.3	7.95	27.6	7.71	8.69	12
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	SR4a	18:31	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	SR4a	18:31	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	SR4a	18:31	Bottom	3	1	21.4	7.96	27.6	7.63	8.83	12.3
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	SR4a	18:31	Bottom	3	2	21.4	7.93	27.7	7.6	8.85	12.5
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	SR4	18:17	Surface	1	1	21.4	7.89	27.5	7.29	8.77	12.1
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	SR4	18:17	Surface	1	2	21.4	7.93	27.6	7.27	8.83	12.1
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	SR4	18:17	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	SR4	18:17	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	SR4	18:17	Bottom	3	1	21.4	7.92	27.6	7.23	8.99	12.7
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	SR4	18:17	Bottom	3	2	21.4	7.94	27.5	7.2	9.03	12.9
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS8	18:17	Surface	1	1	21.4	7.91	27.6	7.56	8.82	12.1
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS8	18:17	Surface	1	2	21.5	7.93	27.6	7.58	8.77	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS8	18:17	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS8	18:17	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS8	18:17	Bottom	3	1	21.5	7.89	27.6	7.52	8.91	12.7
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS8	18:17	Bottom	3	2	21.5	7.92	27.5	7.5	8.89	12.8
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS(Mf)16	17:44	Surface	1	1	21.5	7.93	27.5	7.66	8.81	12.1
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS(Mf)16	17:44	Surface	1	2	21.4	7.9	27.6	7.63	8.77	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS(Mf)16	17:44	Middle	2	1	21.4	7.88	27.6	7.6	8.84	12.1
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS(Mf)16	17:44	Middle	2	2	21.4	7.91	27.6	7.58	8.8	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS(Mf)16	17:44	Bottom	3	1	21.5	7.91	27.6	7.67	8.87	12
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS(Mf)16	17:44	Bottom	3	2	21.4	7.94	27.6	7.71	8.83	12.1
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS(Mf)9	17:28	Surface	1	1	21.5	7.74	27.6	7.62	8.67	11.5
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS(Mf)9		Surface	1	2	21.5	7.77	27.5	7.6	8.73	11.6
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS(Mf)9	17:28	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS(Mf)9	17:28	Middle	2	2						

Project	Works	Date (yyyy-mm-o	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS(Mf)9	17:28	Bottom	3	1	21.5	7.73	27.6	7.55	8.99	12.3
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	IS(Mf)9	17:28	Bottom	3	2	21.5	7.75	27.6	7.57	9.03	12.3
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	CS(Mf)3	17:04	Surface	1	1	21.5	7.65	27.5	7.73	8.85	11.8
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	CS(Mf)3	17:04	Surface	1	2	21.6	7.61	27.6	7.7	8.9	11.8
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	CS(Mf)3	17:04	Middle	2	1	21.6	7.67	27.6	7.7	8.97	12.1
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	CS(Mf)3	17:04	Middle	2	2	21.6	7.71	27.6	7.67	9.03	12.2
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	CS(Mf)3	17:04	Bottom	3	1	21.6	7.69	27.6	7.65	8.99	12.4
TMCLKL	HY/2012/07	2017-01-05	Mid-Ebb	CS(Mf)3	17:04	Bottom	3	2	21.5	7.67	27.6	7.63	8.93	12.2
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	CS(Mf)5	12:31	Surface	1	1	20.4	7.74	27.6	7.68	6.54	8.9
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	CS(Mf)5	12:31	Surface	1	2	20.3	7.7	27.7	7.66	6.59	9
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	CS(Mf)5	12:31	Middle	2	1	20.5	7.66	27.8	7.95	6.83	9.3
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	CS(Mf)5	12:31	Middle	2	2	20.5	7.89	27.9	7.92	6.79	9.2
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	CS(Mf)5	12:31	Bottom	3	1	20.5	7.65	28	8.01	6.61	9.3
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	CS(Mf)5	12:31	Bottom	3	2	20.6	7.66	28.1	8.03	6.69	9.4
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	SR4a	11:51	Surface	1	1	20.4	7.81	27.7	7.56	6.21	8.6
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	SR4a	11:51	Surface	1	2	20.5	7.84	27.6	7.55	6.28	8.7
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	SR4a	11:51	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	SR4a	11:51	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	SR4a	11:51	Bottom	3	1	20.5	7.79	27.7	7.49	6.47	9
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	SR4a	11:51	Bottom	3	2	20.5	7.76	27.8	7.44	6.4	9
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	SR4	13:03	Surface	1	1	20.4	7.68	27.7	7.69	6.34	8.7
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	SR4	13:03	Surface	1	2	20.5	7.71	27.6	7.71	6.31	8.7
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	SR4	13:03	Middle	2	1						
	HY/2012/07	2017-01-07			13:03	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	SR4	13:03	Bottom	3	1	20.5			7.54	6.69	9.4
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	SR4	13:03	Bottom	3	2	20.5	7.77	27.8	7.58	6.75	9.6
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS8		Surface	1	1	20.4	7.88	27.6	7.72	6.42	8.9
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS8	13:15	Surface	1	2	20.4	7.84	27.7	7.74	6.48	8.9
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS8	13:15	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS8	13:15	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS8	13:15	Bottom	3	1	20.5	7.8	27.7	7.82	6.53	9.3
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS8	13:15	Bottom	3	2	20.4	7.82	27.7	7.83	6.61	9.4

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS(Mf)16	13:27	Surface	1	1	20.4	7.7	27.6	7.52	6.41	8.8
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS(Mf)16	13:27	Surface	1	2	20.5	7.73	27.5	7.5	6.52	9
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS(Mf)16	13:27	Middle	2	1	20.3	7.74	27.7	7.46	6.76	9.1
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS(Mf)16	13:27	Middle	2	2	20.4	7.78	27.6	7.48	6.81	9.3
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS(Mf)16	13:27	Bottom	3	1	20.4	7.83	27.9	7.69	6.62	9.1
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS(Mf)16	13:27	Bottom	3	2	20.5	7.82	27.8	7.72	6.67	9.1
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS(Mf)9	13:42	Surface	1	1	20.4	7.88	27.5	7.47	6.25	8.3
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS(Mf)9	13:42	Surface	1	2	20.4	7.91	27.4	7.44	6.19	8.2
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS(Mf)9	13:42	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS(Mf)9	13:42	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS(Mf)9	13:42	Bottom	3	1	20.4	7.82	27.6	7.52	6.34	8.6
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	IS(Mf)9	13:42	Bottom	3	2	20.5	7.78	27.6	7.55	6.38	8.7
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	CS(Mf)3	14:03	Surface	1	1	20.4	7.87	27.6	7.56	6.24	8.3
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	CS(Mf)3	14:03	Surface	1	2	20.3	7.84	27.5	7.54	6.31	8.4
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	CS(Mf)3	14:03	Middle	2	1	20.5	7.92	27.7	7.36	6.38	8.5
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	CS(Mf)3	14:03	Middle	2	2	20.4	7.9	27.8	7.38	6.32	8.5
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	CS(Mf)3	14:03	Bottom	3	1	20.6	7.79	27.8	7.42	6.47	9
TMCLKL	HY/2012/07	2017-01-07	Mid-Flood	CS(Mf)3	14:03	Bottom	3	2	20.6	7.78	27.9	7.46	6.54	9
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	CS(Mf)5	8:55	Surface	1	1	20.5	7.68	27.6	7.47	6.47	8.9
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	CS(Mf)5	8:55	Surface	1	2	20.4	7.74	27.5	7.51	6.51	8.9
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	CS(Mf)5	8:55	Middle	2	1	20.6	8.03	27.7	7.85	6.64	9
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	CS(Mf)5	8:55	Middle	2	2	20.7	7.99	27.8	7.9	6.59	9
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	CS(Mf)5	8:55	Bottom	3	1	20.7	7.6	27.8	7.71	6.74	9.3
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	CS(Mf)5	8:55	Bottom	3	2	20.8	7.65	27.9	7.67	6.77	9.3
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	SR4a	8:42	Surface	1	1	20.5	7.9	27.6	7.48	6.42	8.6
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	SR4a	8:42	Surface	1	2	20.6	7.94	27.7	7.55	6.46	8.6
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	SR4a	8:42	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	SR4a	8:42	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	SR4a	8:42	Bottom	3	1	20.6	7.71	27.7	7.79	6.58	8.9
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	SR4a	8:42	Bottom	3	2	20.6	7.73	27.8	7.85	6.61	8.9
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	SR4	8:29	Surface	1	1	20.5	7.6	27.5	7.52	6.48	8.6
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	SR4	8:29	Surface	1	2	20.4	7.65	27.6	7.58	6.52	8.7
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	SR4	8:29	Middle	2	1						

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	SR4	8:29	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	SR4	8:29	Bottom	3	1	20.5	7.73	27.7	7.83	6.85	9
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	SR4	8:29	Bottom	3	2	20.6	7.79	27.8	7.86	6.81	9.1
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS8	8:19	Surface	1	1	20.3	7.92	27.5	7.59	6.59	8.9
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS8	8:19	Surface	1	2	20.4	7.89	27.4	7.65	6.64	8.8
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS8	8:19	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS8	8:19	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS8	8:19	Bottom	3	1	20.5	7.99	27.6	7.73	6.72	9
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS8	8:19	Bottom	3	2	20.4	8.02	27.5	7.77	6.75	9.1
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS(Mf)16	8:05	Surface	1	1	20.3	7.83	27.3	7.35	6.69	8.9
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS(Mf)16	8:05	Surface	1	2	20.2	7.78	27.4	7.38	6.73	
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS(Mf)16	8:05	Middle	2	1	20.4	7.56	27.5	7.86	6.6	8.8
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS(Mf)16	8:05	Middle	2	2	20.5	7.6	27.6	7.82		8.8
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS(Mf)16	8:05	Bottom	3	1	20.6	7.98	27.7	7.47		9.4
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS(Mf)16	8:05	Bottom	3	2	20.7	8.04	27.8	7.5	6.86	
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS(Mf)9	7:53	Surface	1	1	20.4	7.72	27.5	7.38	6.4	8.6
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS(Mf)9	7:53	Surface	1	2	20.4	7.67	27.6	7.47	6.42	8.7
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS(Mf)9	7:53	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-07		IS(Mf)9	7:53	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS(Mf)9	7:53	Bottom	3	1	20.5	8		7.59	6.58	
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	IS(Mf)9	7:53	Bottom	3	2	20.4	8.04	27.6	7.62	6.61	9.1
-	HY/2012/07	2017-01-07		CS(Mf)3	7:38	Surface	1	1	20.2	7.91	27.4	7.33		8.5
	HY/2012/07	2017-01-07		CS(Mf)3		Surface	1	2	20.3		27.5	7.37		8.5
TMCLKL	HY/2012/07	2017-01-07	Mid-Ebb	CS(Mf)3		Middle	2	1	20.5		27.6	7.44		8.7
TMCLKL	HY/2012/07	2017-01-07		CS(Mf)3		Middle	2		20.4	7.76		7.48		8.6
TMCLKL	HY/2012/07	2017-01-07		CS(Mf)3		Bottom	3	1	20.5	7.88	27.7	7.4		
	HY/2012/07	2017-01-07		CS(Mf)3	7:38	Bottom	3	2	20.6	7.94	27.8	7.46		
TMCLKL	HY/2012/07	2017-01-10		· · · /		Surface	1	1	20.1	7.74	27.2	7.35	6.22	8.5
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	CS(Mf)5	14:58	Surface	1	2	20.1	7.79	27.2	7.39	6.25	8.5
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	CS(Mf)5	14:58	Middle	2	1	20.1	7.86	27.3	7.41	6.3	8.6
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	CS(Mf)5	14:58	Middle	2	2	20.2	7.91	27.4	7.46		
-	HY/2012/07	2017-01-10	Mid-Flood	CS(Mf)5	14:58	Bottom	3	1	20.3	7.57	27.5	7.38	6.47	9.1
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	CS(Mf)5	14:58	Bottom	3	2	20.4	7.62	27.5	7.43	6.49	9.1

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	SR4a	15:14	Surface	1	1	20.1	7.81	27	7.43	6.4	8.8
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	SR4a	15:14	Surface	1	2	20.2	7.87	27.1	7.48	6.43	8.9
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	SR4a	15:14	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	SR4a	15:14	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	SR4a	15:14	Bottom	3	1	20.3	7.54	27.3	7.66	6.35	8.8
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	SR4a	15:14	Bottom	3	2	20.4	7.58	27.4	7.7	6.38	8.9
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	SR4	15:41	Surface	1	1	20.4	7.72	27.2	7.56	6.47	8.9
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	SR4	15:41	Surface	1	2	20.3	7.75	27.2	7.58	6.5	9
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	SR4	15:41	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	SR4	15:41	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	SR4	15:41	Bottom	3	1	20.5	7.8	27.3	7.83	6.77	9.5
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	SR4	15:41	Bottom	3	2	20.6	7.86	27.4	7.86	6.81	9.7
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	IS8	16:00	Surface	1	1	20.4	7.64	27.3	7.66	6.55	9
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	IS8	16:00	Surface	1	2	20.4	7.68	27.3	7.7	6.59	9.1
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	IS8	16:00	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	IS8	16:00	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	IS8	16:00	Bottom	3	1	20.4	7.85	27.2	7.78	6.67	9.5
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	IS8	16:00	Bottom	3	2	20.5	7.88	27.3	7.82	6.69	9.5
TMCLKL	HY/2012/07	2017-01-10			16:17	Surface	1	1	20.1	7.86	27.1	7.33	6.65	9.2
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	IS(Mf)16	16:17	Surface	1	2	20.1	7.81	27.1	7.38	6.6	9.1
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	IS(Mf)16	16:17	Middle	2	1	20.2	7.52	27.1	7.91	6.48	8.7
TMCLKL	HY/2012/07	2017-01-10			16:17	Middle	2	2	20.3	7.57	27.2	7.98	6.51	8.9
	HY/2012/07	2017-01-10	Mid-Flood	IS(Mf)16	16:17	Bottom	3	1	20.2	7.99	27.3	7.59	6.72	9.2
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	IS(Mf)16	16:17	Bottom	3	2	20.2	7.96	27.2	7.64		9.3
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	IS(Mf)9	16:33	Surface	1	1	20.1	7.54	27.2	7.34		8.5
	HY/2012/07	2017-01-10		· · · /		Surface	1	2	20.2	7.59	27.3	7.36	6.39	8.5
	HY/2012/07	2017-01-10		· · · ·		Middle	2							
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	IS(Mf)9	16:33	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	IS(Mf)9	16:33	Bottom	3	1	20.3	7.87	27.2	7.62	6.53	8.9
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	IS(Mf)9	16:33	Bottom	3	2	20.3	7.82	27.2	7.67		8.9
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	CS(Mf)3	16:47	Surface	1	1	20.2	7.96	27.1	7.44	6.39	8.5
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	CS(Mf)3	16:47	Surface	1	2	20.3	7.92	27	7.49	6.41	8.5
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	CS(Mf)3	16:47	Middle	2	1	20.2	7.99	27.1	7.58	6.52	8.7

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	CS(Mf)3	16:47	Middle	2	2	20.2	8.02	27.2	7.53	6.55	8.8
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	CS(Mf)3	16:47	Bottom	3	1	20.3	7.73	27.3	7.62	6.57	9.1
TMCLKL	HY/2012/07	2017-01-10	Mid-Flood	CS(Mf)3	16:47	Bottom	3	2	20.4	7.78	27.4	7.69	6.6	9.1
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	CS(Mf)5	12:47	Surface	1	1	20.2	7.74	27.3	7.38	6.53	8.9
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	CS(Mf)5	12:47	Surface	1	2	20.3	7.8	27.4	7.42	6.57	8.9
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	CS(Mf)5	12:47	Middle	2	1	20.4	7.94	27.4	7.76	6.7	8.6
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	CS(Mf)5	12:47	Middle	2	2	20.3	7.9	27.5	7.81	6.65	9
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	CS(Mf)5	12:47	Bottom	3	1	20.4	7.66	27.6	7.62	6.8	9.4
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	CS(Mf)5	12:47	Bottom	3	2	20.4	7.71	27.5	7.58	6.83	9.4
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	SR4a	12:23	Surface	1	1	20.2	7.81	27.3	7.39	6.48	8.7
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	SR4a	12:23	Surface	1	2	20.1	7.85	27.2	7.46	6.52	8.7
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	SR4a	12:23	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	SR4a	12:23	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	SR4a	12:23	Bottom	3	1	20.2	7.62	27.4	7.7	6.64	9
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	SR4a	12:23	Bottom	3	2	20.3	7.64	27.3	7.76	6.67	8.9
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	SR4	12:01	Surface	1	1	20.3	7.66	27.3	7.43	6.54	8.7
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	SR4	12:01	Surface	1	2	20.4	7.71	27.4	7.49	6.58	8.8
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	SR4	12:01	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-10		SR4	12:01	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	SR4	12:01	Bottom	3	1	20.5	7.79	27.5	7.74	6.91	9.1
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	SR4	12:01	Bottom	3	2	20.4	7.85	27.4	7.77	6.87	9.1
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	IS8	11:39	Surface	1	1	20.3	7.83	27.1	7.5	6.65	8.8
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	IS8	11:39	Surface	1	2	20.2	7.8	27.2	7.56	6.7	8.9
	HY/2012/07	2017-01-10		IS8		Middle	2	1						
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	IS8	11:39	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	IS8	11:39	Bottom	3	1	20.3	7.9		7.64	6.78	9.1
	HY/2012/07	2017-01-10	Mid-Ebb	IS8	11:39	Bottom	3	2	20.4	7.93	27.3	7.68		9.2
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	IS(Mf)16	11:17	Surface	1	1	20	7.74	27	7.26		9
TMCLKL	HY/2012/07	2017-01-10		IS(Mf)16	11:17	Surface	1	2	20.1	7.69	27.1	7.29	1	9.1
TMCLKL	HY/2012/07	2017-01-10		IS(Mf)16		Middle	2	1	20.2		27.2	7.77		8.9
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	IS(Mf)16	11:17	Middle	2	2	20.1	7.51	27.3	7.73		8.9
TMCLKL	HY/2012/07	2017-01-10		IS(Mf)16	11:17	Bottom	3	1	20.2	7.89	27.3	7.38	6.95	9.5
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	IS(Mf)16	11:17	Bottom	3	2	20.3	7.95	27.4	7.41	6.92	9.3

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	IS(Mf)9	10:55	Surface	1	1	20	7.63	27.1	7.29	6.46	8.7
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	IS(Mf)9	10:55	Surface	1	2	19.9	7.58	27.2	7.38	6.48	8.7
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	IS(Mf)9	10:55	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	IS(Mf)9	10:55	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	IS(Mf)9	10:55	Bottom	3	1	20	7.91	27.3	7.5	6.64	9.1
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	IS(Mf)9	10:55	Bottom	3	2	20.1	7.95	27.2	7.53	6.67	9.1
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	CS(Mf)3	10:33	Surface	1	1	20.1	7.82	27.2	7.24	6.38	8.5
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	CS(Mf)3	10:33	Surface	1	2	20	7.88	27.3	7.28	6.4	8.6
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	CS(Mf)3	10:33	Middle	2	1	20.1	7.71	27.4	7.35	6.49	8.8
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	CS(Mf)3	10:33	Middle	2	2	20.2	7.67	27.3	7.39	6.45	8.7
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	CS(Mf)3	10:33	Bottom	3	1	20.3	7.79	27.5	7.31	6.62	9.1
TMCLKL	HY/2012/07	2017-01-10	Mid-Ebb	CS(Mf)3	10:33	Bottom	3	2	20.4	7.85	27.6	7.37	6.65	9.1
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	CS(Mf)5	16:31	Surface	1	1	20.4	7.62	26.9	7.33	6.2	8.4
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	CS(Mf)5	16:31	Surface	1	2	20.4	7.67	26.9	7.36	6.23	8.5
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	CS(Mf)5	16:31	Middle	2	1	20.3	7.83	27	7.4	6.27	8.5
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	CS(Mf)5	16:31	Middle	2	2	20.4	7.88	26.9	7.44	6.31	8.6
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	CS(Mf)5	16:31	Bottom	3	1	20.4	7.51	27.1	7.39	6.38	8.9
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	CS(Mf)5	16:31	Bottom	3	2	20.5	7.56	27.2	7.42	6.34	
	HY/2012/07	2017-01-12	Mid-Flood	SR4a	16:48	Surface	1	1	20.3	7.71	26.9	7.48	6.41	8.8
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	SR4a	16:48	Surface	1	2	20.4	7.76	27	7.52	6.44	8.9
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	SR4a	16:48	Middle	2	1						
	HY/2012/07	2017-01-12			16:48	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	SR4a	16:48	Bottom	3		20.4	7.55	27	7.76		8.9
	HY/2012/07	2017-01-12				Bottom	3	2	20.5	7.59	27.1	7.79	6.41	9
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	SR4	17:17	Surface	1	1	20.3	7.63	27	7.52	6.34	8.7
	HY/2012/07	2017-01-12	Mid-Flood	SR4	17:17	Surface	1	2	20.4	7.69	27.1	7.58	6.38	8.8
	HY/2012/07	2017-01-12				Middle	2	1						
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	SR4	17:17	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	SR4	17:17	Bottom	3	1	20.4	7.86	27	7.91	6.67	9.4
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	SR4	17:17	Bottom	3	2	20.4	7.81	27	7.96		9.5
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS8	17:33	Surface	1	1	20.1	7.66	26.9	7.76		
	HY/2012/07	2017-01-12			17:33	Surface	1	2	20.2	7.71	27	7.74	6.49	9
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS8	17:33	Middle	2	1						

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS8	17:33	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS8	17:33	Bottom	3	1	20.3	7.82	27	7.87	6.66	9.5
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS8	17:33	Bottom	3	2	20.3	7.89	27.1	7.91	6.7	9.5
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS(Mf)16	17:47	Surface	1	1	20.1	7.64	27	7.38	6.45	8.9
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS(Mf)16	17:47	Surface	1	2	20.1	7.66	26.9	7.43	6.48	8.9
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS(Mf)16	17:47	Middle	2	1	20.2	7.87	27	7.81	6.53	8.8
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS(Mf)16	17:47	Middle	2	2	20.3	7.93	27.1	7.87	6.57	8.9
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS(Mf)16	17:47	Bottom	3	1	20.3	8.02	27.1	7.69	6.84	9.4
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS(Mf)16	17:47	Bottom	3	2	20.2	8.08	27.2	7.64	6.89	9.4
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS(Mf)9	18:03	Surface	1	1	20.1	7.55	26.9	7.33	6.26	8.3
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS(Mf)9	18:03	Surface	1	2	20.2	7.58	26.9	7.36	6.3	8.4
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS(Mf)9	18:03	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS(Mf)9	18:03	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS(Mf)9	18:03	Bottom	3	1	20.3	7.78	27	7.67	6.63	9
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	IS(Mf)9	18:03	Bottom	3	2	20.3	7.71	27.1	7.72	6.68	9.1
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	CS(Mf)3	18:18	Surface	1	1	20.3	7.86	26.9	7.46	6.4	8.5
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	CS(Mf)3	18:18	Surface	1	2	20.3	7.91	27	7.5	6.46	8.6
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	CS(Mf)3	18:18	Middle	2	1	20.4	7.97	27.1	7.62	6.59	8.8
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	CS(Mf)3	18:18	Middle	2	2	20.3	8.03	27.2	7.66	6.63	9
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	CS(Mf)3	18:18	Bottom	3	1	20.5	7.81	27.1	7.54	6.6	9.2
TMCLKL	HY/2012/07	2017-01-12	Mid-Flood	CS(Mf)3	18:18	Bottom	3	2	20.5	7.88	27.1	7.58	6.56	9.1
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	CS(Mf)5	14:31	Surface	1	1	20.4	7.8	26.9	7.29	6.59	9
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	CS(Mf)5	14:31	Surface	1	2	20.5	7.86	27	7.33	6.63	9
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	CS(Mf)5	14:31	Middle	2	1	20.5	8	27.1	7.67	6.76	9.2
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	CS(Mf)5	14:31	Middle	2	2	20.4	7.96	27.2	7.72	6.71	9.1
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	CS(Mf)5	14:31	Bottom	3	1	20.5	7.72	27.4	7.53	6.86	9.5
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	CS(Mf)5	14:31	Bottom	3	2	20.6	7.77	27.3	7.49		9.5
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	SR4a	14:07	Surface	1	1	20.2	7.87	27	7.3	6.54	8.8
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	SR4a	14:07	Surface	1	2	20.3	7.91	27.1	7.37	6.58	8.8
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	SR4a	14:07	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	SR4a	14:07	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	SR4a	14:07	Bottom	3	1	20.5	7.68	27.3	7.61	6.7	9
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	SR4a	14:07	Bottom	3	2	20.4	7.7	27.2	7.67	6.73	9

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	SR4	13:45	Surface	1	1	20.2	7.72	26.9	7.34	6.6	8.8
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	SR4	13:45	Surface	1	2	20.3	7.77	26.8	7.4	6.64	8.8
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	SR4	13:45	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	SR4	13:45	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	SR4	13:45	Bottom	3	1	20.3	7.85	27	7.65	6.97	9.2
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	SR4	13:45	Bottom	3	2	20.4	7.91	27.1	7.68	6.93	9.2
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS8	13:23	Surface	1	1	20.4	7.89	27	7.41	6.71	8.9
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS8	13:23	Surface	1	2	20.5	7.86	26.9	7.47	6.76	9
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS8	13:23	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS8	13:23	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS8	13:23	Bottom	3	1	20.5	7.96	27.1	7.55	6.84	9.2
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS8	13:23	Bottom	3	2	20.4	7.99	27.2	7.59	6.87	9.3
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS(Mf)16	13:01	Surface	1	1	20.3	7.8	26.9	7.17	6.81	9.1
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS(Mf)16	13:01	Surface	1	2	20.4	7.75	27	7.2	6.85	9.2
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS(Mf)16	13:01	Middle	2	1	20.4	7.53	27.2	7.68	6.72	8.9
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS(Mf)16	13:01	Middle	2	2	20.5	7.57	27.3	7.64	6.74	9
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS(Mf)16	13:01	Bottom	3	1	20.6	7.95	27.3	7.29	7.01	9.5
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS(Mf)16	13:01	Bottom	3	2	20.5	8.01	27.4	7.32	6.98	9.4
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS(Mf)9		Surface	1	1	20.3	7.69	26.8	7.2	6.52	8.8
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS(Mf)9	12:39	Surface	1	2	20.3	7.64	26.7	7.29	6.54	8.8
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS(Mf)9	12:39	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS(Mf)9	12:39	Middle	2							
	HY/2012/07	2017-01-12	Mid-Ebb	IS(Mf)9	12:39	Bottom	3		20.3		26.9		6.7	9.2
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	IS(Mf)9	12:39	Bottom	3	2	20.4	8.01	27	7.44	6.73	9.2
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	CS(Mf)3	12:17	Surface	1	1	20.3	7.88	26.8	7.15	6.44	8.6
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	CS(Mf)3		Surface	1	2	20.2	7.94	26.9	7.19		8.7
	HY/2012/07	2017-01-12	Mid-Ebb	CS(Mf)3		Middle	2		20.4	7.77	27	7.26		8.8
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	CS(Mf)3	12:17	Middle	2	2	20.5	7.73	27.1	7.3	6.51	8.8
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	CS(Mf)3	12:17	Bottom	3	1	20.5	7.85	27.3	7.22	6.68	9.2
TMCLKL	HY/2012/07	2017-01-12	Mid-Ebb	CS(Mf)3		Bottom	3	2	20.4	7.91	27.2	7.28	6.71	9.2
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	CS(Mf)5		Surface	1	1	20.1	7.86	26.6	7.35	6.5	8.8
	HY/2012/07	2017-01-14	Mid-Flood	CS(Mf)5	8:22	Surface	1	2	20.2	7.92	26.5	7.39	6.54	8.9
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	CS(Mf)5	8:22	Middle	2	1	20.2	8.06	26.7	7.73	6.67	9.1

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	CS(Mf)5	8:22	Middle	2	2	20.2	8.02	26.8	7.78	6.62	9
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	CS(Mf)5	8:22	Bottom	3	1	20.4	7.78	26.8	7.59	6.77	9.5
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	CS(Mf)5	8:22	Bottom	3	2	20.3	7.83	26.9	7.55	6.8	9.5
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	SR4a	8:44	Surface	1	1	20.2	7.93	26.4	7.36	6.45	8.9
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	SR4a	8:44	Surface	1	2	20.3	7.97	26.5	7.43	6.49	9
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	SR4a	8:44	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	SR4a	8:44	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	SR4a	8:44	Bottom	3	1	20.2	7.74	26.6	7.67	6.61	9.2
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	SR4a	8:44	Bottom	3	2	20.2	7.76	26.5	7.7	6.64	9.3
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	SR4	9:06	Surface	1	1	20.3	7.78	26.6	7.4	6.51	9
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	SR4	9:06	Surface	1	2	20.2	7.83	26.7	7.46	6.55	9
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	SR4	9:06	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	SR4	9:06	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	SR4	9:06	Bottom	3	1	20.4	7.91	26.7	7.71	6.88	9.7
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	SR4	9:06	Bottom	3	2	20.3	7.97	26.8	7.74	6.84	9.7
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS8	9:28	Surface	1	1	20.4	7.95	26.7	7.47	6.62	9.1
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS8	9:28	Surface	1	2	20.3	7.92	26.8	7.53	6.67	9.2
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS8	9:28	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS8	9:28	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS8	9:28	Bottom	3	1	20.4	8.02	26.9	7.61	6.75	9.6
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS8	9:28	Bottom	3	2	20.4	8.05	27	7.65	6.78	9.6
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS(Mf)16	9:50	Surface	1	1	20.2	7.86	26.8	7.23	6.72	9.3
	HY/2012/07	2017-01-14	Mid-Flood	IS(Mf)16	9:50	Surface	1	2	20.3	7.81	26.7	7.26	6.76	9.3
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS(Mf)16	9:50	Middle	2	1	20.4	7.59	26.8	7.59	6.63	8.9
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS(Mf)16		Middle	2		20.3	7.63	26.9	7.55		9
	HY/2012/07	2017-01-14		· · · ·		Bottom	3		20.4	8.01	27	7.35		9.5
	HY/2012/07	2017-01-14		, , ,	9:50	Bottom	3	2	20.5	8.07	27.1	7.38		9.4
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS(Mf)9	10:12	Surface	1	1	20.4	7.75	26.6		1	8.6
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS(Mf)9	10:12	Surface	1	2	20.3	7.7	26.7	7.3	6.45	8.6
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS(Mf)9	10:12	Middle	2							
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS(Mf)9	10:12	Middle	2							
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS(Mf)9	10:12	Bottom	3	1	20.5	8.03	26.7	7.47	6.61	9
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	IS(Mf)9	10:12	Bottom	3	2	20.5	8.07	26.8	7.5	6.64	9

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	CS(Mf)3	10:36	Surface	1	1	20.4	7.94	26.7	7.21	6.35	8.4
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	CS(Mf)3	10:36	Surface	1	2	20.5	8	26.8	7.25	6.37	8.5
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	CS(Mf)3	10:36	Middle	2	1	20.6	7.83	26.8	7.32	6.46	8.7
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	CS(Mf)3	10:36	Middle	2	2	20.5	7.79	26.9	7.36	6.42	8.7
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	CS(Mf)3	10:36	Bottom	3	1	20.7	7.91	27.1	7.28	6.59	9.2
TMCLKL	HY/2012/07	2017-01-14	Mid-Flood	CS(Mf)3	10:36	Bottom	3	2	20.8	7.97	27.2	7.34	6.62	9.1
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	CS(Mf)5	14:35	Surface	1	1	20.3	7.68	26.4	7.14	6.64	9.1
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	CS(Mf)5	14:35	Surface	1	2	20.4	7.7	26.5	7.17	6.67	9.1
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	CS(Mf)5	14:35	Middle	2	1	20.5	7.84	26.6	7.25	6.73	9.2
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	CS(Mf)5	14:35	Middle	2	2	20.6	7.82	26.7	7.28	6.76	9.2
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	CS(Mf)5	14:35	Bottom	3	1	20.7	8.07	26.8	7.34	6.84	9.4
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	CS(Mf)5	14:35	Bottom	3	2	20.6	8.04	26.7	7.37	6.87	9.5
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	SR4a	14:15	Surface	1	1	20.4	7.94	26.4	7.25	6.74	9
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	SR4a	14:15	Surface	1	2	20.4	7.97	26.4	7.27	6.72	8.9
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	SR4a	14:15	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	SR4a	14:15	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	SR4a	14:15	Bottom	3	1	20.5	8.15	26.5	7.38	6.86	9.3
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	SR4a	14:15	Bottom	3	2	20.6	8.13	26.6	7.41	6.88	9.2
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	SR4	14:00	Surface	1	1	20.3	7.74	26.4	7.24	6.47	8.6
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	SR4	14:00	Surface	1	2	20.4	7.77	26.5	7.27	6.49	8.6
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	SR4	14:00	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	SR4	14:00	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	SR4	14:00	Bottom	3	1	20.5	8.05	26.6	7.47	6.51	8.6
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	SR4	14:00	Bottom	3	2	20.6	8.07	26.7	7.49	6.53	8.7
	HY/2012/07	2017-01-14	Mid-Ebb	IS8		Surface	1	1	20.3	8.04	26.4	7.36	6.54	8.7
	HY/2012/07	2017-01-14	Mid-Ebb	IS8	13:46	Surface	1	2	20.4	8.02	26.5	7.34	6.57	8.7
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS8	13:46	Middle	2							
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS8	13:46	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS8	13:46	Bottom	3	1	20.6	7.92	26.6	7.52	6.61	8.9
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS8	13:46	Bottom	3	2	20.5	7.95	26.5	7.55	6.63	9
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS(Mf)16	13:27	Surface	1	1	20.4	7.67	26.5	7.19	6.6	8.8
TMCLKL	HY/2012/07	2017-01-14		IS(Mf)16	13:27	Surface	1	2	20.1	7.69	26.6	7.17	6.63	8.9
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS(Mf)16	13:27	Middle	2	1	20.5	8.04	26.7	7.25	6.77	9

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS(Mf)16	13:27	Middle	2	2	20.6	8.02	26.7	7.27	6.79	9
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS(Mf)16	13:27	Bottom	3	1	20.7	7.85	26.8	7.34	6.85	9.3
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS(Mf)16	13:27	Bottom	3	2	20.6	7.88	26.7	7.37	6.87	9.2
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS(Mf)9	13:05	Surface	1	1	20.5	7.84	26.5	6.98	6.72	9.1
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS(Mf)9	13:05	Surface	1	2	20.5	7.86	26.6	7	6.74	9.1
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS(Mf)9	13:05	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS(Mf)9	13:05	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS(Mf)9	13:05	Bottom	3	1	20.6	7.99	26.7	7.14	6.95	9.5
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	IS(Mf)9	13:05	Bottom	3	2	20.7	8.01	26.8	7.16	6.97	9.5
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	CS(Mf)3	12:44	Surface	1	1	20.6	8.14	26.4	7.04	6.49	8.7
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	CS(Mf)3	12:44	Surface	1	2	20.5	8.17	26.5	7.07	6.51	8.7
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	CS(Mf)3	12:44	Middle	2	1	20.7	8.04	26.6	7.2	6.65	9
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	CS(Mf)3	12:44	Middle	2	2	20.7	8.06	26.7	7.23	6.67	9
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	CS(Mf)3	12:44	Bottom	3	1	20.8	7.92	26.8	7.38	6.42	8.9
TMCLKL	HY/2012/07	2017-01-14	Mid-Ebb	CS(Mf)3	12:44	Bottom	3	2	20.7	7.95	26.7	7.4	6.44	8.8
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	CS(Mf)5	10:17	Surface	1	1	18.6	7.78	26.5	7.19	13.5	18.4
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	CS(Mf)5	10:17	Surface	1	2	18.7	7.81	26.6	7.22	12.6	17.1
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	CS(Mf)5	10:17	Middle	2	1	18.8	7.69	26.6	7.36	9.85	13.4
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	CS(Mf)5	10:17	Middle	2	2	18.9	7.73	26.7	7.3	9.93	13.5
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	CS(Mf)5	10:17	Bottom	3	1	18.9	7.8	26.8	7.38	14.1	19.7
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	CS(Mf)5	10:17	Bottom	3	2	19	7.77	26.9	7.41	14.8	20.7
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	SR4a	10:45	Surface	1	1	18.6	7.79	26.6	7.08	11.7	16.1
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	SR4a	10:45	Surface	1	2	18.6	7.84	26.6	7.11	12.2	16.8
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	SR4a	10:45	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	SR4a	10:45	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	SR4a	10:45	Bottom	3	1	18.6	7.81	26.6	7.23	14	19.5
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	SR4a	10:45	Bottom	3	2	18.7	7.85	26.7	7.26	14.7	20.6
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	SR4	10:58	Surface	1	1	18.5	7.69	26.6	7.17	12.3	17
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	SR4	10:58	Surface	1	2	18.6	7.73	26.7	7.14	13.1	18.1
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	SR4	10:58	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	SR4	10:58	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	SR4	10:58	Bottom	3	1	18.6	7.72	26.7	7.09	14	19.7
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	SR4	10:58	Bottom	3	2	18.6	7.75	26.8	7.13	14.7	20.9

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS8	11:14	Surface	1	1	18.6	7.84	26.7	7.26	11.6	16
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS8	11:14	Surface	1	2	18.6	7.77	26.7	7.22	12.2	16.8
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS8	11:14	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS8	11:14	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS8	11:14	Bottom	3	1	18.6	7.74	26.8	7.29	13.6	19.3
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS8	11:14	Bottom	3	2	18.6	7.8	26.8	7.32	14.2	20.2
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS(Mf)16	11:34	Surface	1	1	18.6	7.83	26.5	7.08	13.3	18.4
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS(Mf)16	11:34	Surface	1	2	18.7	7.87	26.6	7.05	14	19.3
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS(Mf)16	11:34	Middle	2	1	18.6	7.74	26.6	7.21	10.8	14.5
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS(Mf)16	11:34	Middle	2	2	18.6	7.8	26.7	7.25	11.5	15.6
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS(Mf)16	11:34	Bottom	3	1	18.7	7.84	26.8	7.18	14.8	20.3
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS(Mf)16		Bottom	3	2	18.8	7.88	26.9	7.15	15.4	21.1
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS(Mf)9	11:55	Surface	1	1	18.7	7.74	26.7	7.05	11.8	15.7
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS(Mf)9	11:55	Surface	1	2	18.7	7.7	26.7	7.09	12.4	16.5
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS(Mf)9	11:55	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS(Mf)9	11:55	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS(Mf)9	11:55	Bottom	3	1	18.6		26.8	7.14	14	19
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	IS(Mf)9	11:55	Bottom	3	2	18.6	7.77	26.8	7.18	14.9	20.3
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	CS(Mf)3	12:17	Surface	1	1	18.7	7.74	26.8	6.97	12.8	17
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	CS(Mf)3		Surface	1	2	18.8	7.78	26.9	7	13.6	18.1
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	CS(Mf)3	12:17	Middle	2	1	18.8	7.67	26.9	7.06	11.2	15
	HY/2012/07	2017-01-17	Mid-Flood	CS(Mf)3	12:17	Middle	2		18.9	7.73	27	7.1	10.7	14.4
TMCLKL	HY/2012/07	2017-01-17	Mid-Flood	CS(Mf)3	12:17	Bottom	3	1	19		27.1	7.16	14.1	19.6
	HY/2012/07	2017-01-17		, , ,		Bottom	3	2	19		27.2	7.12	15	20.7
	HY/2012/07	2017-01-17		CS(Mf)5		Surface	1	1	18.9		26.7	7.26	14.1	19.3
	HY/2012/07	2017-01-17	Mid-Ebb	CS(Mf)5		Surface	1	2	18.8	7.98	26.8	7.3	13.2	18
	HY/2012/07	2017-01-17		CS(Mf)5		Middle	2		19	8.12	26.8	7.64	10.6	14.4
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	CS(Mf)5	17:03	Middle	2		19.1	8.08	26.9	7.69	11.2	15.2
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	CS(Mf)5	17:03	Bottom	3	1	19.1	7.84	27	7.5	14.7	20.3
-	HY/2012/07	2017-01-17		CS(Mf)5		Bottom	3	2	19.2	7.89	27.1	7.46		21.3
	HY/2012/07	2017-01-17		SR4a		Surface	1	1	19	7.99	26.8	7.27	12.3	16.5
	HY/2012/07	2017-01-17		SR4a		Surface	1	2	18.9	8.03	26.9	7.34	12.8	17
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	SR4a	16:39	Middle	2	1						

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	SR4a	16:39	Middle	2	2	,					
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	SR4a	16:39	Bottom	3	1	19	7.8	26.9	7.58	14.6	19.7
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	SR4a	16:39	Bottom	3	2	19.1	7.82	27	7.61	15.3	20.5
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	SR4	16:17	Surface	1	1	18.9	7.84	26.9	7.31	14.3	19
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	SR4	16:17	Surface	1	2	. 19	7.89	27	7.37	15.1	20.1
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	SR4	16:17	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	SR4	16:17	Middle	2	2	r					
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	SR4	16:17	Bottom	3	1	19	7.97	27	7.62	16.7	22
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	SR4	16:17	Bottom	3	2	19.1	8.03	27.1	7.65	17.4	23.1
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS8	15:55	Surface	1	1	18.9	8.01	26.7	7.38	12.5	16.6
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS8	15:55	Surface	1	2	18.9	7.98	26.8	7.44	13.1	17.4
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS8	15:55	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS8	15:55	Middle	2	2	r					
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS8	15:55	Bottom	3	1	18.9	8.08	26.9	7.52	15.8	21.2
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS8	15:55	Bottom	3	2	. 19	8.11	27	7.56	15.1	20.4
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS(Mf)16	15:33	Surface	1	1	18.7	7.92	26.5	7.14	13.9	18.5
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS(Mf)16	15:33	Surface	1	2	18.8		26.6			
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS(Mf)16	15:33	Middle	2	1	18.9	7.65	26.7	7.5	11.4	15.2
	HY/2012/07	2017-01-17		IS(Mf)16	15:33	Middle	2	2	. 19	7.69	26.8			16.1
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS(Mf)16	15:33	Bottom	3	1	19.1	8.07	26.9			20.9
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS(Mf)16	15:33	Bottom	3	2	. 19		26.8	7.29	16	21.4
	HY/2012/07	2017-01-17	Mid-Ebb	IS(Mf)9		Surface	1	1	18.8		26.8	-	12.4	16.7
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS(Mf)9		Surface	1	2	18.9	7.76	26.9	7.21	13	17.6
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS(Mf)9		Middle	2							
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS(Mf)9		Middle	2		r					
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	IS(Mf)9	15:11	Bottom	3		18.9	8.06	27.1	7.38	14.6	
	HY/2012/07	2017-01-17		IS(Mf)9		Bottom	3	2	. 19	8.13			15.5	21.2
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	CS(Mf)3	14:49	Surface	1	1	18.7	8	27	7.12	13.4	18
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	CS(Mf)3	14:49	Surface	1	2	18.8	8.06	26.9		1	19
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	CS(Mf)3	14:49	Middle	2		19					
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	CS(Mf)3	14:49	Middle	2		18.9	7.85	27.1			15.3
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	CS(Mf)3	14:49	Bottom	3	1	19.1	7.97	27.2	7.19	14.7	20.3
TMCLKL	HY/2012/07	2017-01-17	Mid-Ebb	CS(Mf)3	14:49	Bottom	3	2	19.2	8.03	27.3	7.25	15.6	21.4

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	CS(Mf)5	11:31	Surface	1	1	19.9	7.79	26.7	7.71	6.67	9.1
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	CS(Mf)5	11:31	Surface	1	2	19.8	7.74	26.6	7.67	6.61	9
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	CS(Mf)5	11:31	Middle	2	1	19.7	7.63	26.8	7.81	6.58	8.9
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	CS(Mf)5	11:31	Middle	2	2	19.8	7.66	26.8	7.8	6.52	8.9
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	CS(Mf)5	11:31	Bottom	3	1	19.7	7.69	26.9	7.74	6.78	9.5
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	CS(Mf)5	11:31	Bottom	3	2	19.6	7.72	27	7.76	6.69	9.4
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	SR4a	11:57	Surface	1	1	19.8	7.63	26.8	7.65	6.31	8.7
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	SR4a	11:57	Surface	1	2	19.7	7.64	26.7	7.68	6.25	8.6
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	SR4a	11:57	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	SR4a	11:57	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	SR4a	11:57	Bottom	3	1	19.9	7.72	26.9	7.58	6.46	9
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	SR4a	11:57	Bottom	3	2	19.9	7.7	26.8	7.56	6.54	9.2
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	SR4	12:14	Surface	1	1	19.8	7.67	26.9	7.63	6.52	9
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	SR4	12:14	Surface	1	2	19.7	7.66	26.8	7.61	6.58	9.1
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	SR4	12:14	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	SR4	12:14	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	SR4	12:14	Bottom	3	1	19.8	7.72	26.9	7.69	6.72	9.5
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	SR4	12:14	Bottom	3	2	19.8	7.76	26.9	7.73	6.61	9.4
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS8	12:30	Surface	1	1	19.7	7.78	26.8	7.54	6.38	8.8
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS8	12:30	Surface	1	2	19.8	7.77	26.8	7.51	6.31	8.7
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS8	12:30	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS8	12:30	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS8	12:30	Bottom	3	1	19.7	7.7	26.9	7.44	6.54	9.3
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS8	12:30	Bottom	3	2	19.6	7.68	26.8	7.46	6.6	9.4
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS(Mf)16	12:46	Surface	1	1	19.7	7.62	26.9	7.67	6.56	9.1
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS(Mf)16	12:46	Surface	1	2	19.7	7.64	26.8	7.64		9.1
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS(Mf)16	12:46	Middle	2	1	19.8	7.69	26.9	7.74		8.9
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS(Mf)16	12:46	Middle	2	2	19.7	7.66	27	7.78	6.69	9.1
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS(Mf)16	12:46	Bottom	3	1	19.9	7.7	27.2	7.72	6.49	8.9
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS(Mf)16	12:46	Bottom	3	2	19.8	7.73	27.1	7.7	6.42	8.8
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS(Mf)9	13:05	Surface	1	1	19.6	7.74	26.6	7.73	6.49	8.6
	HY/2012/07	2017-01-19	Mid-Flood	IS(Mf)9	13:05	Surface	1	2	19.7	7.78	26.7	7.72	6.44	8.6
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS(Mf)9	13:05	Middle	2	1						

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS(Mf)9	13:05	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS(Mf)9	13:05	Bottom	3	1	19.7	7.7	26.8	7.61	6.6	9
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	IS(Mf)9	13:05	Bottom	3	2	19.8	7.68	26.7	7.58	6.52	8.9
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	CS(Mf)3	13:30	Surface	1	1	19.7	7.63	26.7	7.78	6.39	8.5
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	CS(Mf)3	13:30	Surface	1	2	19.8	7.6	26.8	7.76	6.32	8.4
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	CS(Mf)3	13:30	Middle	2	1	19.9	7.68	26.8	7.64	6.47	8.7
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	CS(Mf)3	13:30	Middle	2	2	19.9	7.69	26.9	7.65	6.41	8.7
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	CS(Mf)3	13:30	Bottom	3	1	19.6	7.76	27.1	7.59	6.7	9.3
TMCLKL	HY/2012/07	2017-01-19	Mid-Flood	CS(Mf)3	13:30	Bottom	3	2	19.7	7.75	27	7.57	6.63	9.1
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	CS(Mf)5	16:38	Surface	1	1	20.1	7.62	26.8	7.43	7.1	9.7
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	CS(Mf)5	16:38	Surface	1	2	20.2	7.63	26.9	7.51	7.12	9.7
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	CS(Mf)5	16:38	Middle	2	1	20.2	7.74	26.9	7.77	6.67	9.1
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	CS(Mf)5	16:38	Middle	2	2	20.2	7.76	26.9	7.65	6.69	9.1
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	CS(Mf)5	16:38	Bottom	3	1	20.3	7.62	26.9	7.52	6.82	9.4
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	CS(Mf)5	16:38	Bottom	3	2	20.2	7.63	26.8	7.63	6.84	9.4
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	SR4a	16:58	Surface	1	1	20.2	7.43	26.7	7.44	6.52	8.7
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	SR4a	16:58	Surface	1	2	20.3	7.45	26.8	7.49	6.58	8.8
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	SR4a	16:58	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	SR4a	16:58	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	SR4a	16:58	Bottom	3	1	20.3	7.55	26.8	7.63	6.92	9.3
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	SR4a	16:58	Bottom	3	2	20.3	7.57	26.9	7.72	6.94	9.3
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	SR4	17:10	Surface	1	1	20.2	7.58	26.8	7.52	6.73	9
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	SR4	17:10	Surface	1	2	20.2	7.59	26.9	7.59	6.78	9
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	SR4	17:10	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	SR4	17:10	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	SR4	17:10	Bottom	3	1	20.2	7.66	26.9	7.41	6.96	9.2
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	SR4	17:10	Bottom	3	2	20.3	7.67	26.8	7.32	6.99	9.3
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS8	17:22	Surface	1	1	20.1	7.83	26.7	7.23	6.77	9
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS8	17:22	Surface	1	2	20.2	7.84	26.8	7.39	6.76	9
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS8	17:22	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS8	17:22	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS8	17:22	Bottom	3		20.2	7.65	26.8	7.31	6.68	9
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS8	17:22	Bottom	3	2	20.3	7.66	26.7	7.38	6.69	9

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS(Mf)16	17:34	Surface	1	1	20	7.61	26.6	7.58	6.88	9.2
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS(Mf)16	17:34	Surface	1	2	20.1	7.55	26.7	7.5	6.87	9.2
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS(Mf)16	17:34	Middle	2	1	20.1	7.42	26.7	7.43	6.75	9
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS(Mf)16	17:34	Middle	2	2	20.2	7.44	26.8	7.58	6.76	9
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS(Mf)16	17:34	Bottom	3	1	20.3	7.56	26.8	7.69	6.99	9.5
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS(Mf)16	17:34	Bottom	3	2	20.3	7.59	26.7	7.73	6.97	9.3
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS(Mf)9	17:49	Surface	1	1	20.2	7.76	26.7	7.49	6.67	9
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS(Mf)9	17:49	Surface	1	2	20.2	7.79	26.8	7.53	6.68	9
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS(Mf)9	17:49	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS(Mf)9	17:49	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS(Mf)9	17:49	Bottom	3	1	20.2	7.88	26.8	7.73	6.92	9.5
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	IS(Mf)9	17:49	Bottom	3	2	20.3	7.86	26.9	7.82	6.93	9.5
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	CS(Mf)3	18:10	Surface	1	1	20.2	7.52	26.8	7.43	6.58	8.8
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	CS(Mf)3	18:10	Surface	1	2	20.3	7.53	26.8	7.58	6.57	8.8
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	CS(Mf)3	18:10	Middle	2	1	20.3	7.69	26.9	7.39	6.73	9.1
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	CS(Mf)3	18:10	Middle	2	2	20.2	7.7	26.8	7.48	6.77	9.1
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	CS(Mf)3	18:10	Bottom	3	1	20.3	7.53	26.8	7.65	6.82	9.4
TMCLKL	HY/2012/07	2017-01-19	Mid-Ebb	CS(Mf)3	18:10	Bottom	3	2	20.3	7.55	26.8	7.71	6.91	9.5
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	CS(Mf)5	12:08	Surface	1	1	19.9	7.81	26.8	7.25	6.85	9.3
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	CS(Mf)5	12:08	Surface	1	2	19.8	7.79	26.8	7.23	6.91	9.4
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	CS(Mf)5	12:08	Middle	2	1	19.8	7.72	26.9	7.34	7.07	9.6
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	CS(Mf)5	12:08	Middle	2	2	19.8	7.7	26.8	7.37	7.11	9.7
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	CS(Mf)5	12:08	Bottom	3	1	19.8	7.76	27	7.55	7.02	9.7
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	CS(Mf)5	12:08	Bottom	3	2	19.9	7.73	26.9	7.53	6.97	9.8
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	SR4a	12:27	Surface	1	1	19.8	7.67	26.6	7.4	6.6	9.1
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	SR4a	12:27	Surface	1	2	19.9	7.65	26.7	7.36	6.65	9.2
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	SR4a	12:27	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	SR4a	12:27	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	SR4a	12:27	Bottom	3	1	19.9	7.73	26.7	7.45	6.8	9.5
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	SR4a	12:27	Bottom	3	2	19.9	7.71	26.8	7.47	6.89	9.6
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	SR4		Surface	1	1	19.8	7.7	26.8	7.58	6.52	9
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	SR4	12:49	Surface	1	2	19.8	7.72	26.9	7.61	6.49	9
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	SR4	12:49	Middle	2	1						

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	SR4	12:49	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	SR4	12:49	Bottom	3	1	19.8	7.75	27	7.78	6.61	9.3
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	SR4	12:49	Bottom	3	2	19.8	7.78	27	7.75	6.69	9.5
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS8	13:04	Surface	1	1	19.9	7.88	26.8	7.42	6.69	9.2
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS8	13:04	Surface	1	2	19.8	7.9	26.9	7.4	6.77	9.3
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS8	13:04	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS8	13:04	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS8	13:04	Bottom	3	1	19.9	7.83	26.8	7.37	6.86	9.7
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS8	13:04	Bottom	3	2	19.9	7.81	26.9	7.35	6.82	9.7
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS(Mf)16	13:19	Surface	1	1	19.8	7.73	26.7	7.59	6.43	8.9
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS(Mf)16	13:19	Surface	1	2	19.7	7.7	26.7	7.61	6.51	9
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS(Mf)16	13:19	Middle	2	1	19.8	7.79	26.7	7.77	6.5	8.7
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS(Mf)16	13:19	Middle	2	2	19.9	7.82	26.8	7.74	6.58	8.9
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS(Mf)16	13:19	Bottom	3	1	19.9	7.85	26.9	7.51	6.61	9.1
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS(Mf)16	13:19	Bottom	3	2	19.9	7.82	26.9	7.54	6.69	9.2
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS(Mf)9	13:40	Surface	1	1	19.8	7.79	26.8	7.34	6.61	8.8
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS(Mf)9	13:40	Surface	1	2	19.8	7.82	26.7	7.36	6.73	9
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS(Mf)9	13:40	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS(Mf)9	13:40	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS(Mf)9	13:40	Bottom	3	1	19.8	7.88	26.9	7.49	6.88	9.4
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	IS(Mf)9	13:40	Bottom	3	2	19.9	7.93	26.8	7.46	6.93	9.4
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	CS(Mf)3	13:55	Surface	1	1	19.9	7.72	26.9	7.47	7.01	9.3
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	CS(Mf)3	13:55	Surface	1	2	19.9	7.75	26.8	7.45	6.96	9.3
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	CS(Mf)3	13:55	Middle	2	1	19.8		26.9	7.53	7.24	9.7
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	CS(Mf)3		Middle	2	2	19.9	7.81	26.9	7.55		
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	CS(Mf)3	13:55	Bottom	3	1	19.9	7.85	27	7.62	7.09	9.9
TMCLKL	HY/2012/07	2017-01-21	Mid-Flood	CS(Mf)3	13:55	Bottom	3	2	19.9	7.89	27	7.61	7.03	9.7
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	CS(Mf)5	8:13	Surface	1	1	19.8	7.87	26.8	7.15	6.96	9.5
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	CS(Mf)5	8:13	Surface	1	2	19.9	7.85	26.7	7.18	7.03	9.6
-	HY/2012/07	2017-01-21	Mid-Ebb	CS(Mf)5	8:13	Middle	2	1	19.7	7.69	26.9	7.23		9.8
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	CS(Mf)5	8:13	Middle	2	2	19.8	7.73	27	7.26	7.26	9.9
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	CS(Mf)5	8:13	Bottom	3	1	19.6	7.78	27.2	7.42	7.14	9.8
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	CS(Mf)5	8:13	Bottom	3	2	19.7	7.74	27.1	7.44	7.09	9.8

Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	SR4a	7:53	Surface	1	1	19.7	7.74	26.7	7.28	6.71	9
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	SR4a	7:53	Surface	1	2	19.6	7.73	26.7	7.24	6.78	9
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	SR4a	7:53	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	SR4a	7:53	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	SR4a	7:53	Bottom	3	1	19.8	7.82	26.8	7.34	6.94	9.4
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	SR4a	7:53	Bottom	3	2	19.7	7.8	26.7	7.37	7.02	9.4
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	SR4	7:41	Surface	1	1	19.7	7.73	26.7	7.46	6.65	8.8
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	SR4	7:41	Surface	1	2	19.7	7.76	26.8	7.49	6.61	8.8
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	SR4	7:41	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	SR4	7:41	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	SR4	7:41	Bottom	3	1	19.7	7.79	27.1	7.66	6.74	8.9
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	SR4	7:41	Bottom	3	2	19.8	7.78	27	7.68	6.83	9.1
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS8	7:30	Surface	1	1	19.8	7.86	26.8	7.34	6.81	9.1
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS8	7:30	Surface	1	2	19.9	7.89	26.8	7.31	6.88	9.2
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS8	7:30	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS8	7:30	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS8	7:30	Bottom	3	1	19.8	7.82	26.9	7.25	6.95	9.3
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS8	7:30	Bottom	3	2	19.8	7.81	26.8	7.21	6.91	9.3
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS(Mf)16	7:18	Surface	1	1	19.7	7.71	26.7	7.51	6.52	8.7
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS(Mf)16	7:18	Surface	1	2	19.6	7.75	26.6	7.54	6.59	8.8
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS(Mf)16	7:18	Middle	2	1	19.9	7.8	26.8	7.68	6.68	8.9
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS(Mf)16	7:18	Middle	2	2	19.8	7.84	26.9	7.66	6.61	8.8
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS(Mf)16	7:18	Bottom	3	1	19.9	7.89	27.1	7.4	6.7	9.1
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS(Mf)16	7:18	Bottom	3	2	19.8	7.87	27	7.42	6.79	9.1
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS(Mf)9	7:06	Surface	1	1	19.7	7.81	26.7	7.26	6.74	9.1
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS(Mf)9	7:06	Surface	1	2	19.8	7.84	26.8	7.29	6.82	9.2
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS(Mf)9	7:06	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS(Mf)9	7:06	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS(Mf)9	7:06	Bottom	3	1	19.9	7.89	27	7.4	6.95	9.5
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	IS(Mf)9	7:06	Bottom	3	2	19.9	7.92	26.9	7.37	7.04	9.6
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	CS(Mf)3		Surface	1	1	19.8	7.74	26.8	7.38	7.12	9.5
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	CS(Mf)3	6:47	Surface	1	2	19.9	7.76	26.8	7.36	7.06	9.5
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	CS(Mf)3	6:47	Middle	2	1	19.7	7.8	26.9	7.44	7.36	9.9

Project	Works	Date (yyyy-mm-o	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	CS(Mf)3	6:47	Middle	2	2	19.6	7.83	27	7.46	7.28	9.8
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	CS(Mf)3	6:47	Bottom	3	1	19.7	7.86	27.2	7.52	7.19	9.9
TMCLKL	HY/2012/07	2017-01-21	Mid-Ebb	CS(Mf)3	6:47	Bottom	3	2	19.8	7.88	27.1	7.53	7.15	9.8
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	CS(Mf)5	14:22	Surface	1	1	19.1	8.32	27.3	7.04	7.03	9.6
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	CS(Mf)5	14:22	Surface	1	2	19.2	8.27	27.4	7.02	7.09	9.6
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	CS(Mf)5	14:22	Middle	2	1	19.3	8.17	27.6	7.07	6.86	9.3
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	CS(Mf)5	14:22	Middle	2	2	19.2	8.19	27.5	7.09	6.9	9.4
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	CS(Mf)5	14:22	Bottom	3	1	19.4	8.37	27.6	7.18	7.12	10
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	CS(Mf)5	14:22	Bottom	3	2	19.5	8.36	27.7	7.16	7.18	10.1
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	SR4a	14:44	Surface	1	1	19.1	8.22	27.4	6.92	6.86	9.4
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	SR4a	14:44	Surface	1	2	19.2	8.18	27.5	6.94	6.8	9.7
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	SR4a	14:44	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	SR4a	14:44	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	SR4a	14:44	Bottom	3	1	19.2	8.09	27.5	6.7	6.99	9.7
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	SR4a	14:44	Bottom	3	2	19.3	8.07	27.6	6.69	6.93	10
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	SR4	15:06	Surface	1	1	19.2	8.16	27.5	6.8	7.23	10
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	SR4	15:06	Surface	1	2	19.1	8.14	27.6	6.82	7.15	9.9
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	SR4	15:06	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	SR4	15:06	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	SR4	15:06	Bottom	3	1	19.1	8.07	27.7	6.89	7.32	10.3
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	SR4	15:06	Bottom	3	2	19.2	8.1	27.6	6.92	7.39	10.5
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS8	15:28	Surface	1	1	18.9	8.27	27.5	6.93	7.09	9.8
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS8	15:28	Surface	1	2	19	8.29	27.4	6.9	7.15	9.9
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS8	15:28	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS8	15:28	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-24				Bottom	3	1	19		27.5	6.98	7.29	10.4
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS8	15:28	Bottom	3	2	19.1	8.2	27.6	7	7.21	10.2
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS(Mf)16		Surface	1	1	19.1	8.15	27.6	6.98	6.78	9.4
	HY/2012/07	2017-01-24		· · · · ·	15:50	Surface	1	2	19.2		27.7	7	6.7	9.2
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS(Mf)16	15:50	Middle	2		19.3		27.7	7.1	6.81	9.1
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS(Mf)16	15:50	Middle	2	2	19.4	8.3	27.8	7.07	6.86	9.3
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS(Mf)16	15:50	Bottom	3	1	19.5	8.39	27.9	6.81	7.05	9.7
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS(Mf)16	15:50	Bottom	3	2	19.4	8.41	27.8	6.84	7.03	9.6

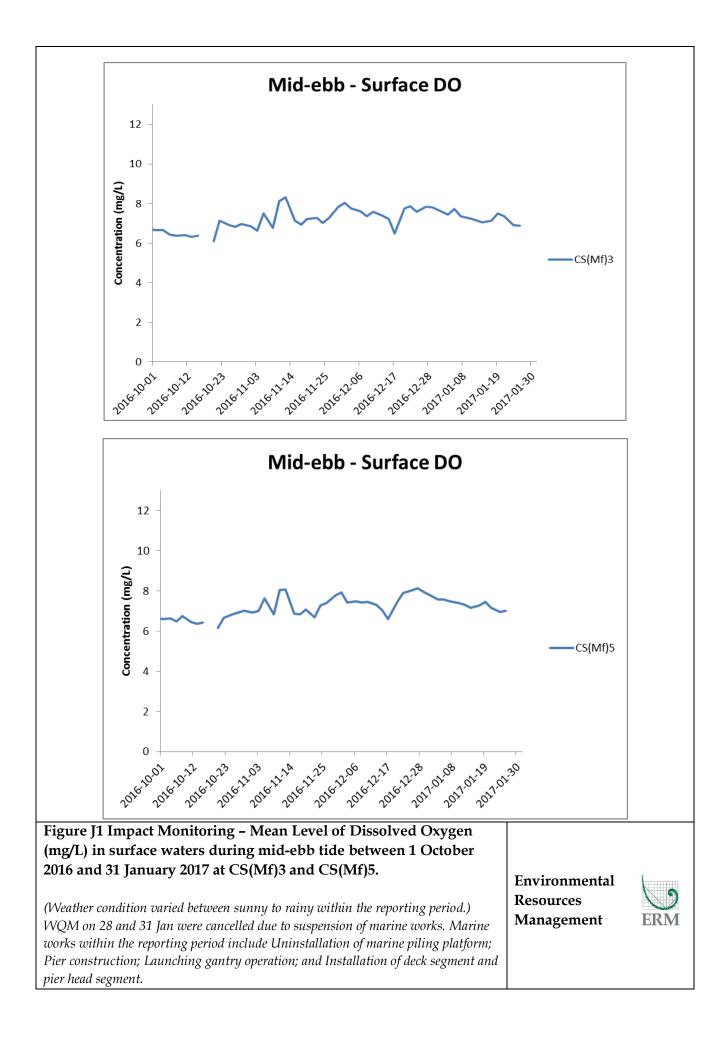
Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS(Mf)9	16:12	Surface	1	1	19	8.03	27.5	6.77	7.17	9.5
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS(Mf)9	16:12	Surface	1	2	19.1	8.07	27.4	6.81	7.2	9.6
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS(Mf)9	16:12	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS(Mf)9	16:12	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS(Mf)9	16:12	Bottom	3	1	19.1	8.14	27.5	6.88	7.29	9.9
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	IS(Mf)9	16:12	Bottom	3	2	19.2	8.15	27.6	6.9	7.34	10
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	CS(Mf)3	16:36	Surface	1	1	18.9	7.98	27.5	7	7.32	9.7
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	CS(Mf)3	16:36	Surface	1	2	18.8	8	27.6	6.97	7.22	9.6
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	CS(Mf)3	16:36	Middle	2	1	18.9	8.22	27.6	7.17	7.35	9.8
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	CS(Mf)3	16:36	Middle	2	2	19	8.25	27.7	7.2	7.43	10
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	CS(Mf)3	16:36	Bottom	3	1	19.1	8.32	27.8	7.34	7.59	10.6
TMCLKL	HY/2012/07	2017-01-24	Mid-Flood	CS(Mf)3		Bottom	3	2	19.1	8.33	27.7	7.3	7.5	10.4
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	CS(Mf)5	12:15	Surface	1	1	19		27.3	6.98	7.12	9.8
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	CS(Mf)5	12:15	Surface	1	2	19	8.21	27.2	6.96	7.18	9.8
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	CS(Mf)5	12:15	Middle	2	1	19.1	8.11	27.5	7.01	6.95	9.5
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	CS(Mf)5	12:15	Middle	2	2	19.2	8.13	27.4	7.03	6.99	9.5
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	CS(Mf)5	12:15	Bottom	3		19.3	8.31	27.7	7.12	7.21	9.9
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	CS(Mf)5	12:15	Bottom	3	2	19.2	8.3	27.8	7.1	7.27	10
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	SR4a	11:51	Surface	1	1	18.9	8.16	27.4	6.86	6.95	9.3
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	SR4a	11:51	Surface	1	2	19	8.12	27.3	6.88	6.89	9.2
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	SR4a	11:51	Middle	2	1						
	HY/2012/07	2017-01-24		SR4a	11:51	Middle	2							
	HY/2012/07	2017-01-24	Mid-Ebb	SR4a	11:51	Bottom	3		19.1	8.03	27.4	6.64	7.08	9.6
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	SR4a	11:51	Bottom	3	2	19		27.4	6.63	7.02	9.4
TMCLKL	HY/2012/07	2017-01-24		SR4		Surface	1	1	19	8.1	27.5	6.74	7.32	9.7
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	SR4	11:35	Surface	1	2	18.9	8.08	27.4	6.76	7.24	9.6
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	SR4	11:35	Middle	2							
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	SR4	11:35	Middle	2	2						
	HY/2012/07	2017-01-24	Mid-Ebb	SR4	11:35	Bottom	3	1	19.1	8.01	27.6	6.83	7.41	9.8
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	SR4	11:35	Bottom	3	2	19		27.5	6.86	7.48	9.9
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS8	11:19	Surface	1	1	18.9		27.4	6.87	7.18	9.5
	HY/2012/07	2017-01-24		IS8	11:19	Surface	1	2	18.8	8.23	27.3	6.84	7.24	9.6
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS8	11:19	Middle	2	1						

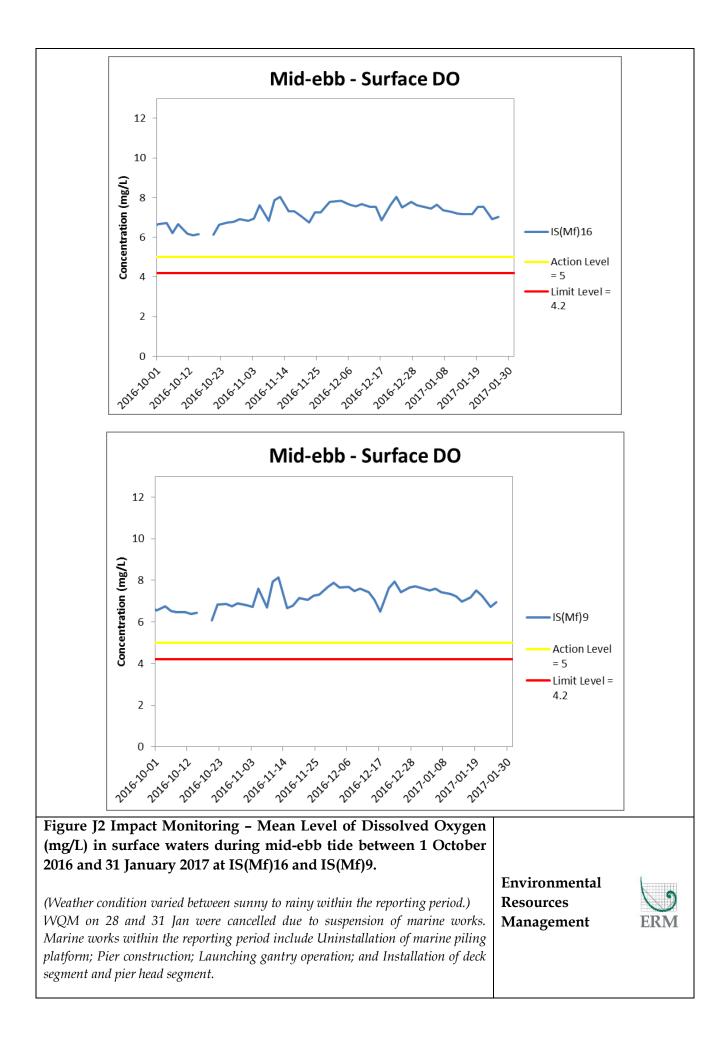
Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS8	11:19	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS8	11:19	Bottom	3	1	19	8.16	27.5	6.92	7.38	9.9
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS8	11:19	Bottom	3	2	19	8.14	27.4	6.94	7.3	9.9
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS(Mf)16	11:00	Surface	1	1	19	8.09	27.4	6.92	6.87	9.1
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS(Mf)16	11:00	Surface	1	2	19.1	8.13	27.5	6.94	6.79	9.1
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS(Mf)16	11:00	Middle	2	1	19.1	8.27	27.7	7.04	6.9	9.2
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS(Mf)16	11:00	Middle	2	2	19.2	8.24	27.6	7.01	6.95	9.2
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS(Mf)16	11:00	Bottom	3	1	19.4	8.33	27.8	6.75	7.14	9.7
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS(Mf)16	11:00	Bottom	3	2	19.3	8.35	27.7	6.78	7.22	9.7
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS(Mf)9	10:44	Surface	1	1	19	7.97	27.4	6.71	7.26	9.8
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS(Mf)9	10:44	Surface	1	2	19.9	8.01	27.3	6.75	7.29	9.8
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS(Mf)9	10:44	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS(Mf)9	10:44	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS(Mf)9	10:44	Bottom	3	1	19.1	8.08	27.5	6.82	7.38	10.1
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	IS(Mf)9	10:44	Bottom	3	2	19	8.09	27.4	6.84	7.43	10.2
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	CS(Mf)3	10:19	Surface	1	1	18.7	7.92	27.5	6.94	7.38	9.9
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	CS(Mf)3	10:19	Surface	1	2	18.8	7.94	27.4	6.91	7.31	9.8
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	CS(Mf)3	10:19	Middle	2	1	18.9	8.16	27.6	7.11	7.44	10
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	CS(Mf)3	10:19	Middle	2	2	19	8.19	27.5	7.14	7.52	10.2
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	CS(Mf)3	10:19	Bottom	3	1	19.2	8.26	27.6	7.28	7.68	10.6
TMCLKL	HY/2012/07	2017-01-24	Mid-Ebb	CS(Mf)3	10:19	Bottom	3	2	19.1	8.27	27.7	7.24	7.59	10.4
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	CS(Mf)5	15:45	Surface	1	1	19	8.27	27.3	7.09	6.87	9.3
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	CS(Mf)5	15:45	Surface	1	2	19.1	8.33	27.3	7.14	6.94	9.4
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	CS(Mf)5	15:45	Middle	2	1	19.1	8.08	27.4	7.06	6.98	9.5
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	CS(Mf)5	15:45	Middle	2	2	19.2	8.15	27.4	7.02	7.08	9.6
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	CS(Mf)5	15:45	Bottom	3	1	19.1	8.3	27.5	7.15	7.25	10.2
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	CS(Mf)5	15:45	Bottom	3	2	19	8.36	27.5	7.2	7.18	10.1
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	SR4a	16:11	Surface	1	1	19	8.01	27.4	6.84	6.72	9.3
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	SR4a	16:11	Surface	1	2	19	8.06	27.3	6.88	6.77	9.3
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	SR4a	16:11	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	SR4a	16:11	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	SR4a	16:11	Bottom	3	1	19.2	8.11	27.3	6.97	6.84	9.5
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	SR4a	16:11	Bottom	3	2	19.3	8.14	27.3	6.92	6.87	9.6

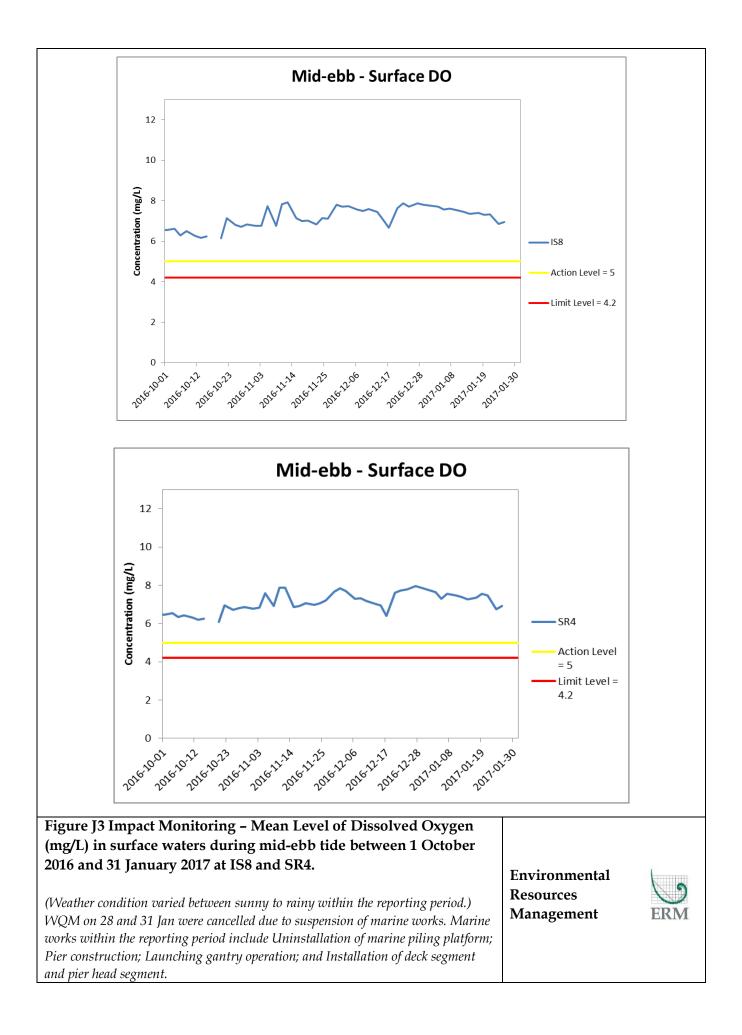
Project	Works	Date (yyyy-mm-c	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	SR4	16:29	Surface	1	1	19.1	8.22	27.4	6.72	7.14	9.9
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	SR4	16:29	Surface	1	2	19.1	8.26	27.4	6.76	7.19	9.9
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	SR4	16:29	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	SR4	16:29	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	SR4	16:29	Bottom	3	1	19.2	8.07	27.5	6.85	7.23	10.2
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	SR4	16:29	Bottom	3	2	19.2	8.13	27.6	6.88	7.27	10.3
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS8	16:51	Surface	1	1	19	8.2	27.3	6.87	7.12	9.8
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS8	16:51	Surface	1	2	19.1	8.24	27.4	6.92	7.16	9.9
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS8	16:51	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS8	16:51	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS8	16:51	Bottom	3	1	19.2	8.35	27.5	6.8	7.17	10.2
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS8	16:51	Bottom	3	2	19.3	8.31	27.6	6.74	7.23	10.3
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS(Mf)16	17:13	Surface	1	1	19.1	8.29	27.4	6.88	6.7	9.2
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS(Mf)16	17:13	Surface	1	2	19.2	8.34	27.3	6.94	6.74	9.3
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS(Mf)16	17:13	Middle	2	1	19.3	8.07	27.5	6.73	6.83	9.2
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS(Mf)16	17:13	Middle	2	2	19.2	8.01	27.6	6.77	6.88	9.4
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS(Mf)16	17:13	Bottom	3	1	19.5	8.25	27.8	7.05	7.03	9.6
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS(Mf)16	17:13	Bottom	3	2	19.4	8.31	27.8	7.12	6.97	9.5
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS(Mf)9	17:35	Surface	1	1	19.1	8.16	27.4	6.82	7.03	9.3
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS(Mf)9	17:35	Surface	1	2	19.2	8.21	27.3	6.86	7.08	9.4
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS(Mf)9	17:35	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS(Mf)9	17:35	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS(Mf)9	17:35	Bottom	3	1	19.4	8.03	27.5	6.92	7.19	9.8
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	IS(Mf)9		Bottom	3	2	19.3	8.08	27.6	6.99	7.25	9.9
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	CS(Mf)3	17:57	Surface	1	1	19	8.15	27.4	6.9	7.04	9.4
	HY/2012/07	2017-01-26	Mid-Flood	CS(Mf)3	17:57	Surface	1	2	19.2	8.11	27.5	6.94	7.1	9.4
	HY/2012/07	2017-01-26	Mid-Flood	CS(Mf)3		Middle	2		19.2	8.27	27.7	6.82	7.4	9.9
TMCLKL	HY/2012/07	2017-01-26	Mid-Flood	CS(Mf)3	17:57	Middle	2		19.3	8.34	27.7	6.88	7.36	9.9
	HY/2012/07	2017-01-26	Mid-Flood	CS(Mf)3	17:57	Bottom	3		19.5	8.02	27.5	7.05	7.21	10
	HY/2012/07	2017-01-26	Mid-Flood	CS(Mf)3	17:57	Bottom	3	2	19.6		27.4	7.11	7.26	10
TMCLKL	HY/2012/07	2017-01-26	1	CS(Mf)5	13:30	Surface	1	1	19	8.13	27.2	7.04	7.04	9.6
TMCLKL	HY/2012/07	2017-01-26		CS(Mf)5	13:30	Surface	1	2	19.1	8.08	27.2	7	6.99	9.5
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	CS(Mf)5	13:30	Middle	2	1	19.1	8.12	27.2	7.07	7.08	9.6

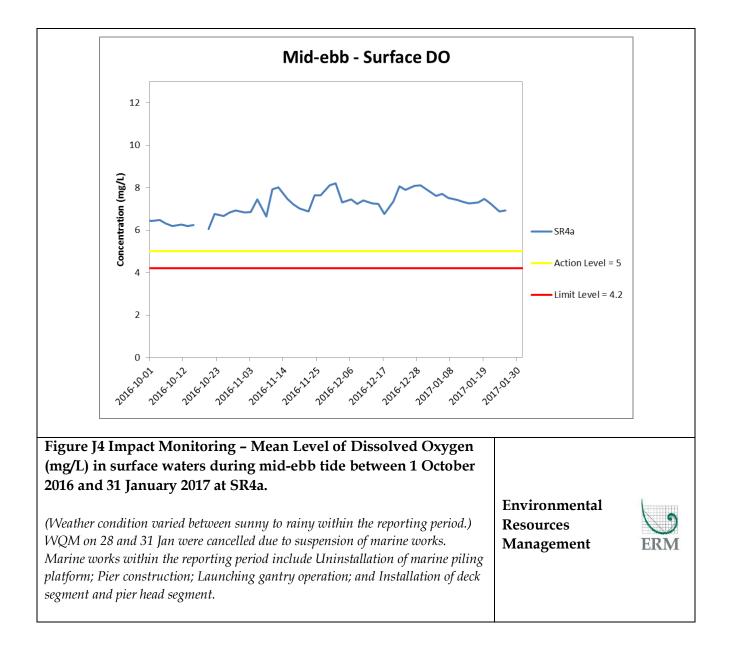
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TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	CS(Mf)5	13:30	Middle	2	2	19.1	8.07	27.3	7.03	7.15	9.7
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	CS(Mf)5	13:30	Bottom	3	1	19.1	8.09	27.4	7.14	7.28	10
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	CS(Mf)5	13:30	Bottom	3	2	19.2	8.15	27.5	7.18	7.34	10.1
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	SR4a	13:06	Surface	1	1	19	7.99	27.3	6.95	7.08	9.5
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	SR4a	13:06	Surface	1	2	19	8.03	27.2	6.91	7.05	9.4
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	SR4a	13:06	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	SR4a	13:06	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	SR4a	13:06	Bottom	3	1	19	8.05	27.3	6.99	7.18	9.7
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	SR4a	13:06	Bottom	3	2	19	8.01	27.3	6.96	7.23	9.7
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	SR4	12:50	Surface	1	1	19	8.13	27.3	6.89	7.17	9.5
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	SR4	12:50	Surface	1	2	19.1	8.07	27.3	6.92	7.22	9.6
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	SR4	12:50	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	SR4	12:50	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	SR4	12:50	Bottom	3	1	19.1	8.08	27.3	6.85	7.44	9.8
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	SR4	12:50	Bottom	3	2	19.1	8.14	27.4	6.81	7.39	9.8
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS8	12:34	Surface	1	1	19	8.09	27.3	6.97	7.24	9.6
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS8	12:34	Surface	1	2	19	8.11	27.4	6.94	7.3	9.7
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS8	12:34	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS8	12:34	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS8	12:34	Bottom	3	1	19	8.05	27.4	6.9	7.39	9.9
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS8	12:34	Bottom	3	2	19.1	8	27.4	6.87	7.33	9.9
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS(Mf)16	12:15	Surface	1	1	19	8.07	27.3	7.04	7.06	9.4
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS(Mf)16	12:15	Surface	1	2	19	8.04	27.3	7.01	7.13	9.6
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS(Mf)16	12:15	Middle	2	1	19	8.01	27.4	6.93	7.35	9.8
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS(Mf)16	12:15	Middle	2	2	19.1	8.05	27.4	6.97	7.3	9.7
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS(Mf)16	12:15	Bottom	3	1	19.1	8.04	27.6	6.99	7.48	10.2
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS(Mf)16	12:15	Bottom	3	2	19.1	8.08	27.6	7.02	7.4	9.9
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS(Mf)9	12:00	Surface	1	1	18.9	8.1	27.3	6.96	7.23	9.8
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS(Mf)9	12:00	Surface	1	2	19	8.07	27.3	6.92	7.35	9.9
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS(Mf)9	12:00	Middle	2	1						
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS(Mf)9	12:00	Middle	2	2						
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS(Mf)9	12:00	Bottom	3		19	8.02	27.4	7.01	7.46	10.2
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	IS(Mf)9	12:00	Bottom	3	2	19.1	7.98	27.4	7.04	7.38	10.1

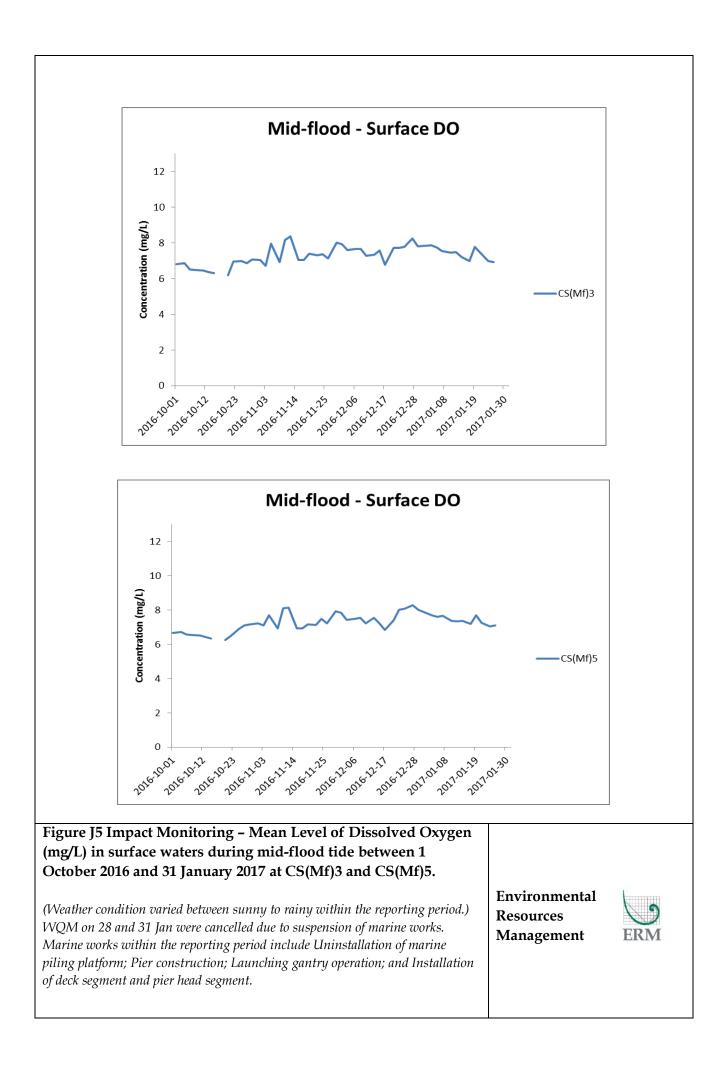
Project	Works	Date (yyyy-mm-o	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	CS(Mf)3	11:39	Surface	1	1	18.9	8.03	27.3	6.88	7.46	10
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	CS(Mf)3	11:39	Surface	1	2	18.9	8.06	27.4	6.91	7.38	9.9
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	CS(Mf)3	11:39	Middle	2	1	19	7.98	27.5	6.93	7.86	10.6
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	CS(Mf)3	11:39	Middle	2	2	18.9	8.01	27.6	6.96	7.69	10.4
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	CS(Mf)3	11:39	Bottom	3	1	19.3	7.96	27.6	7	7.53	10.4
TMCLKL	HY/2012/07	2017-01-26	Mid-Ebb	CS(Mf)3	11:39	Bottom	3	2	19.4	7.99	27.7	7.03	7.48	10.2

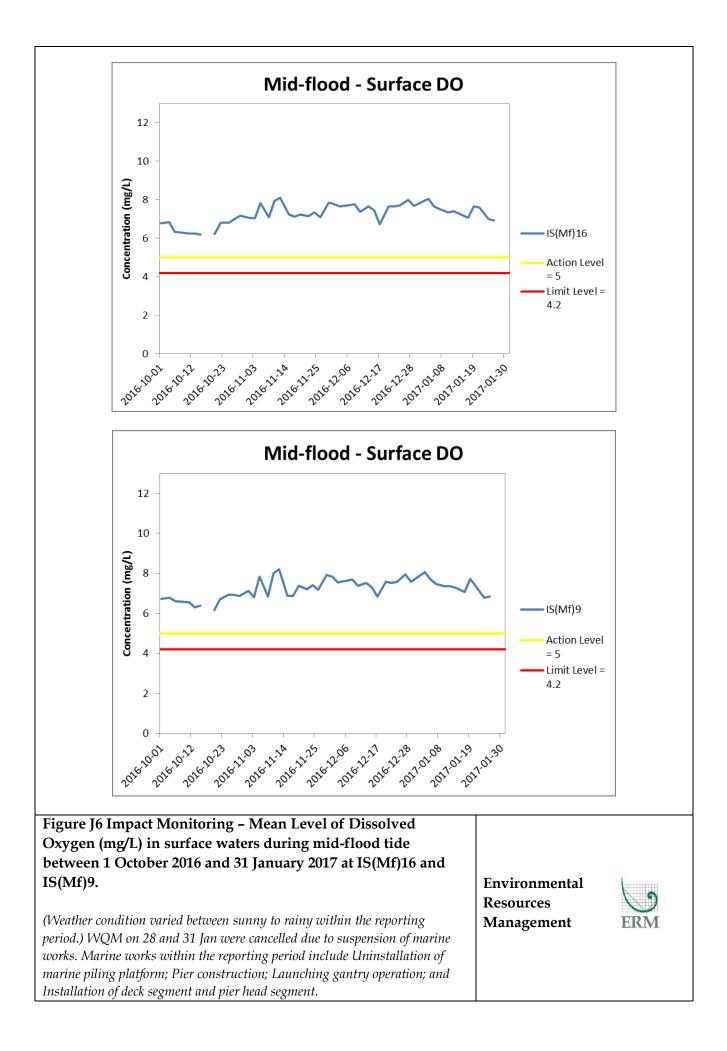


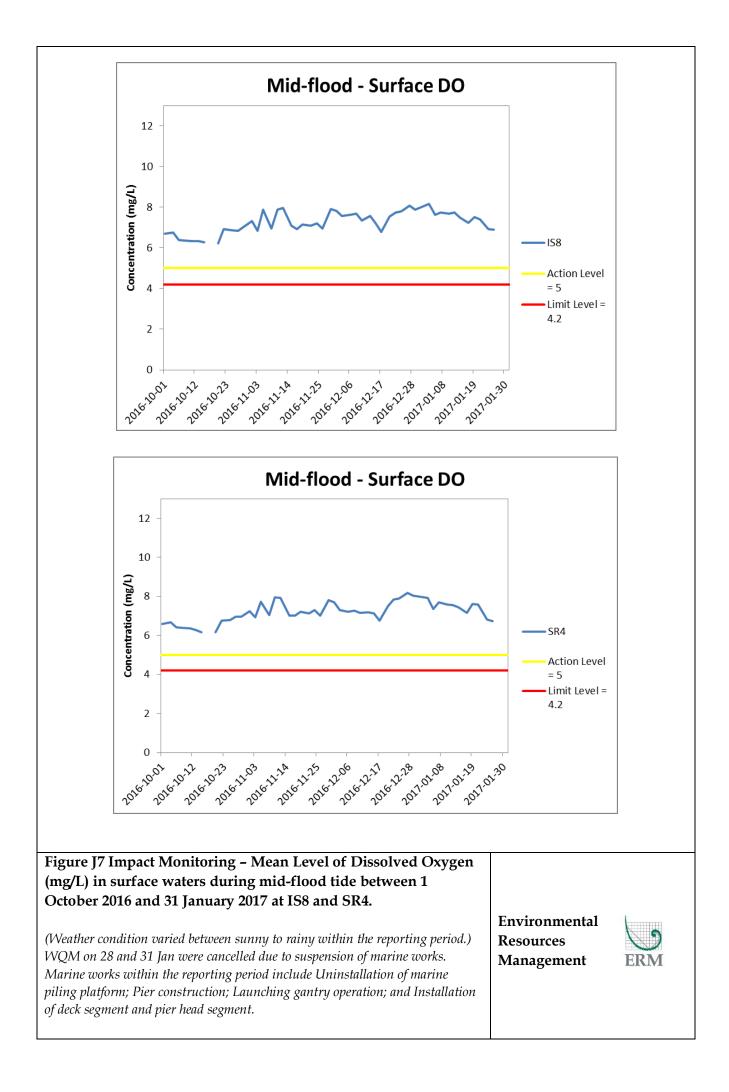


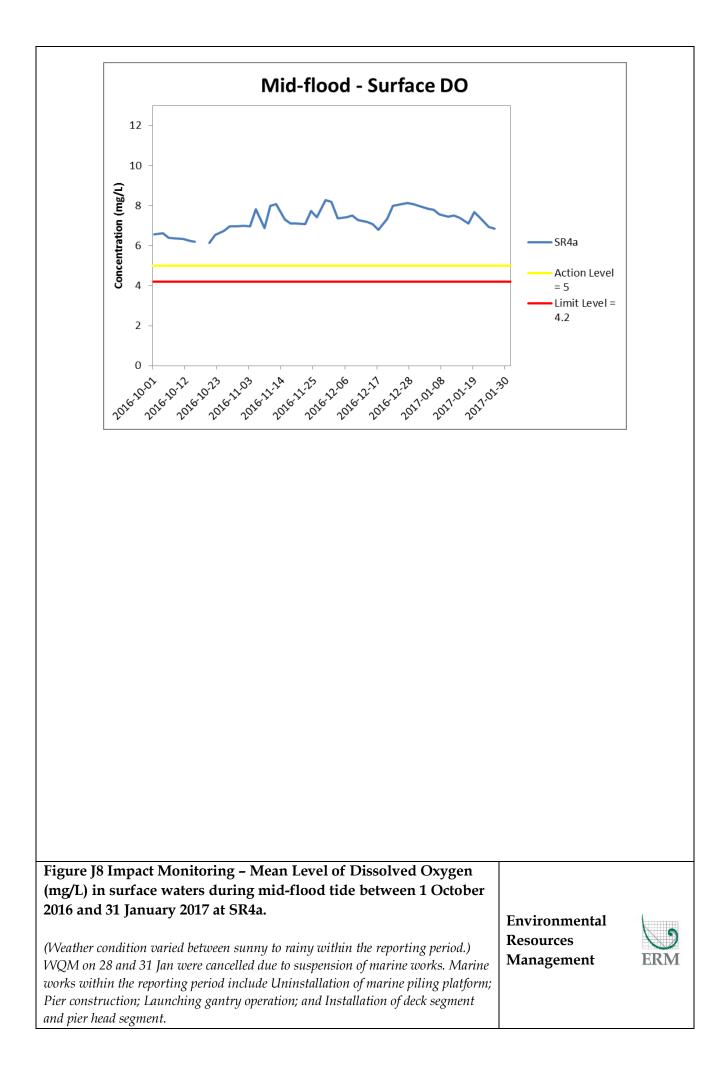


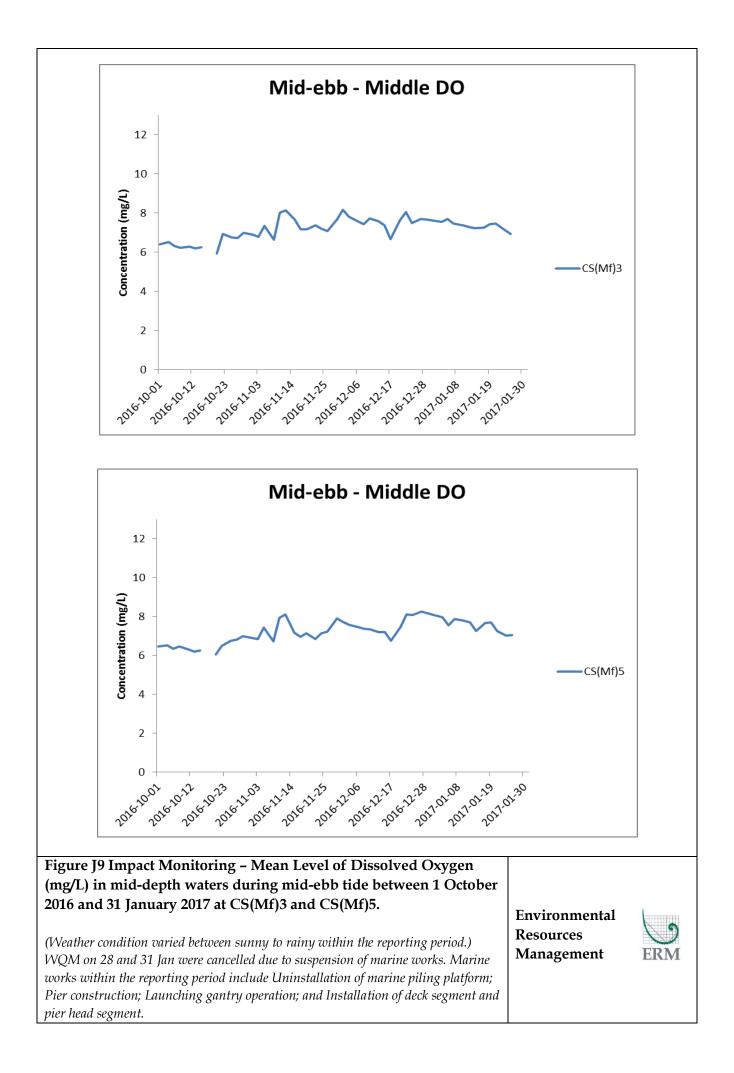


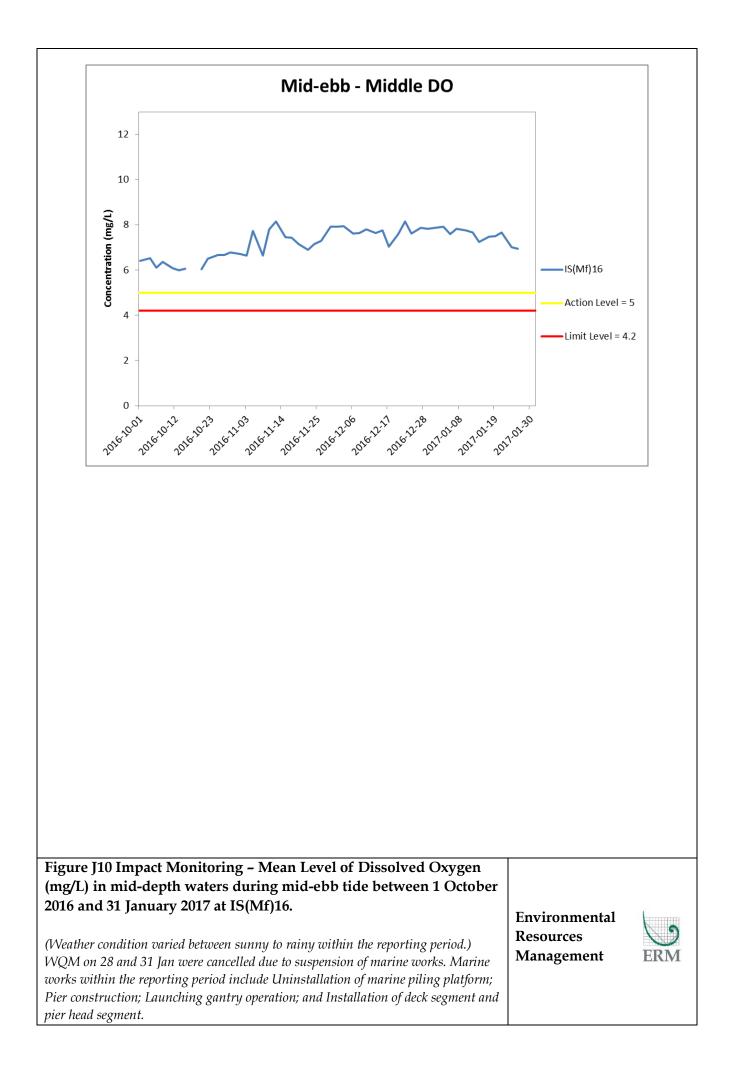


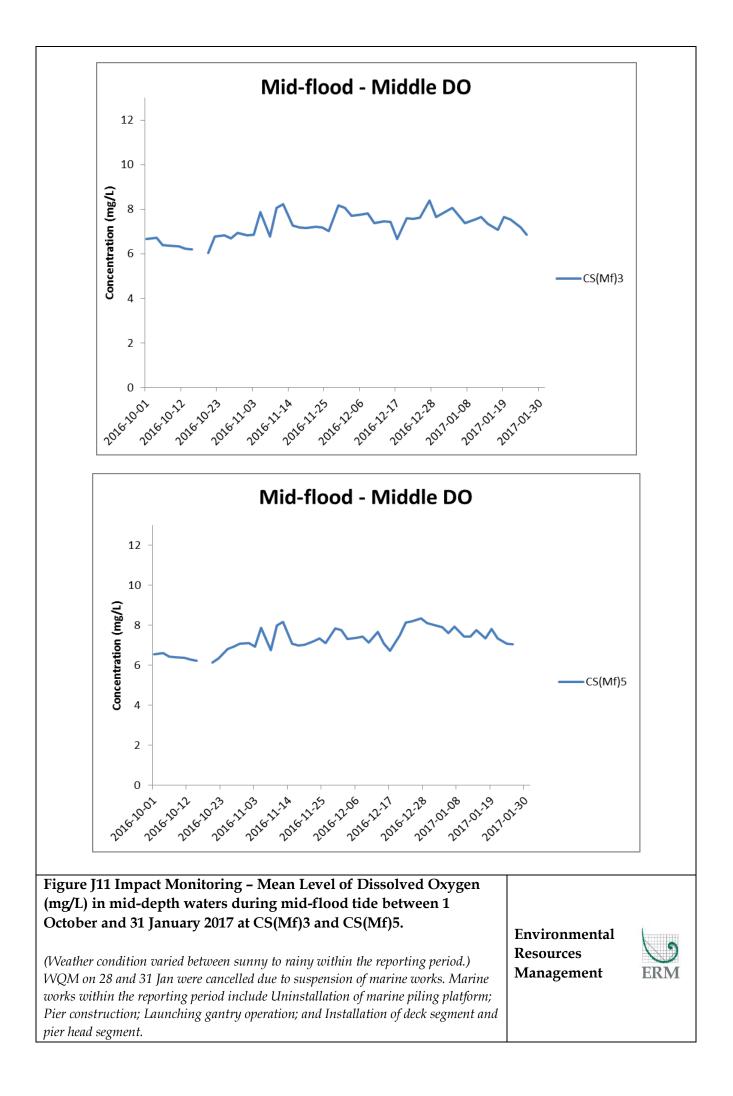


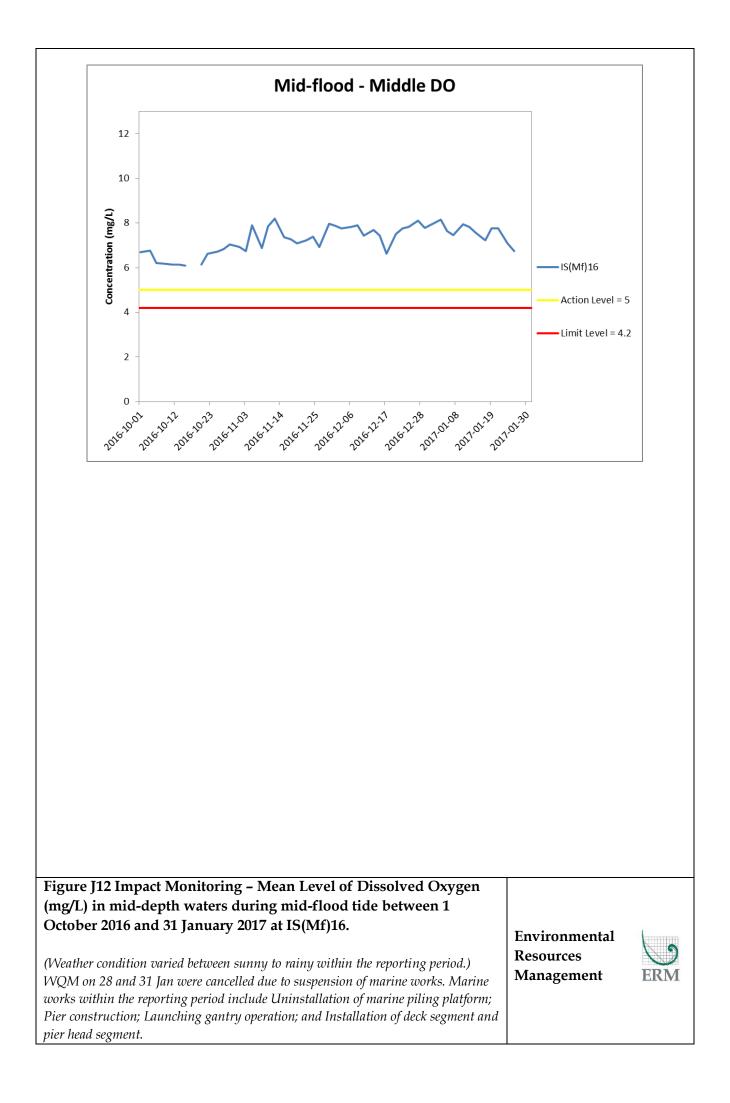


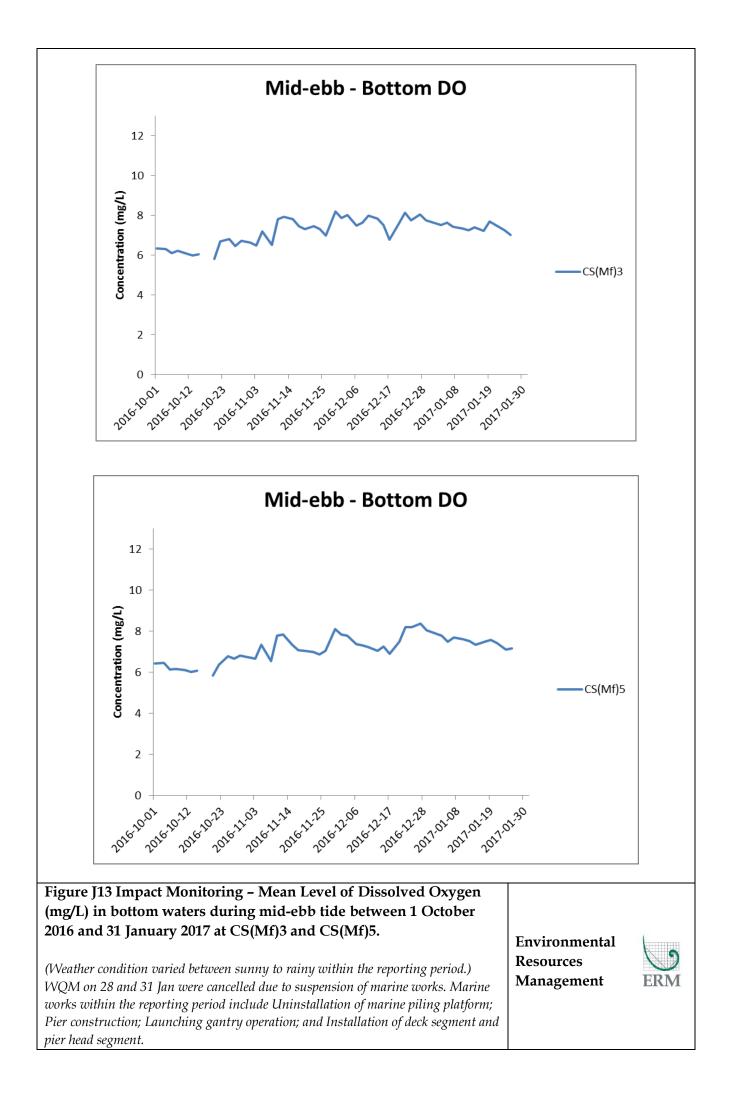


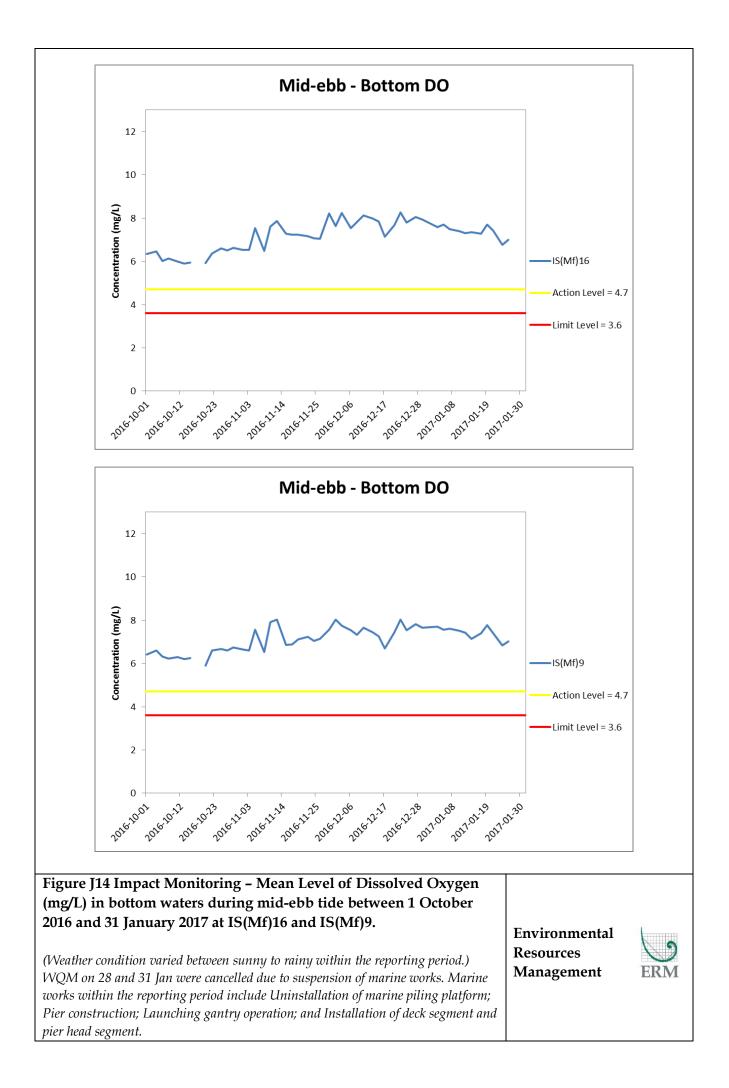


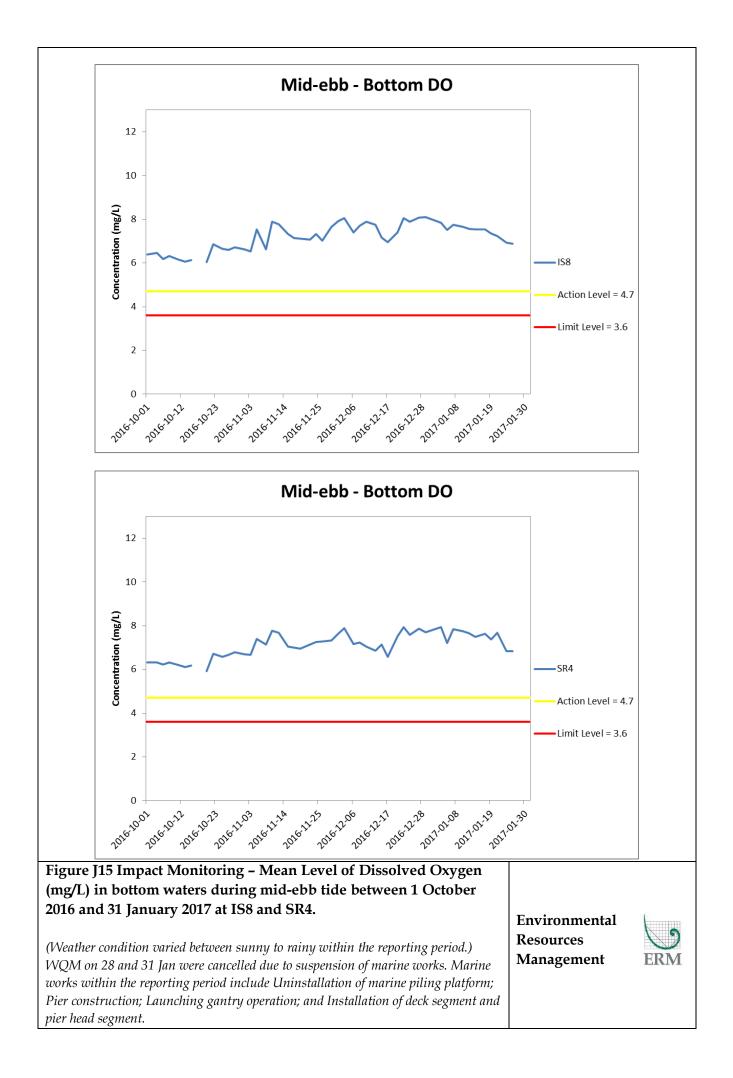


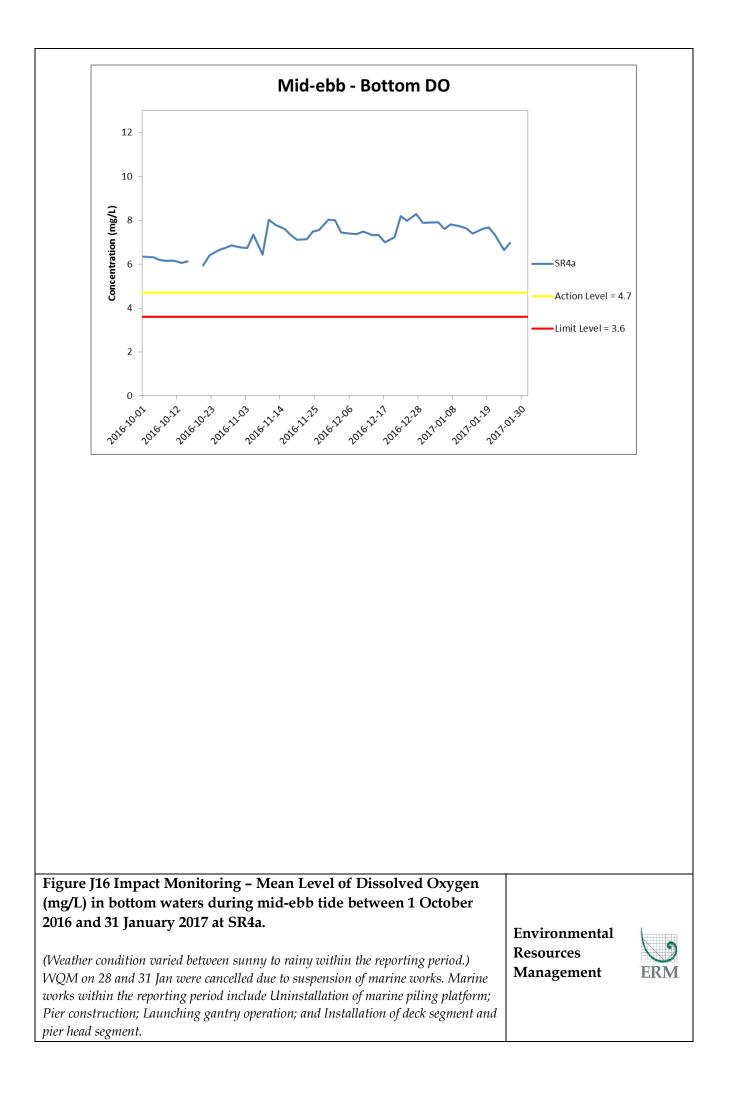


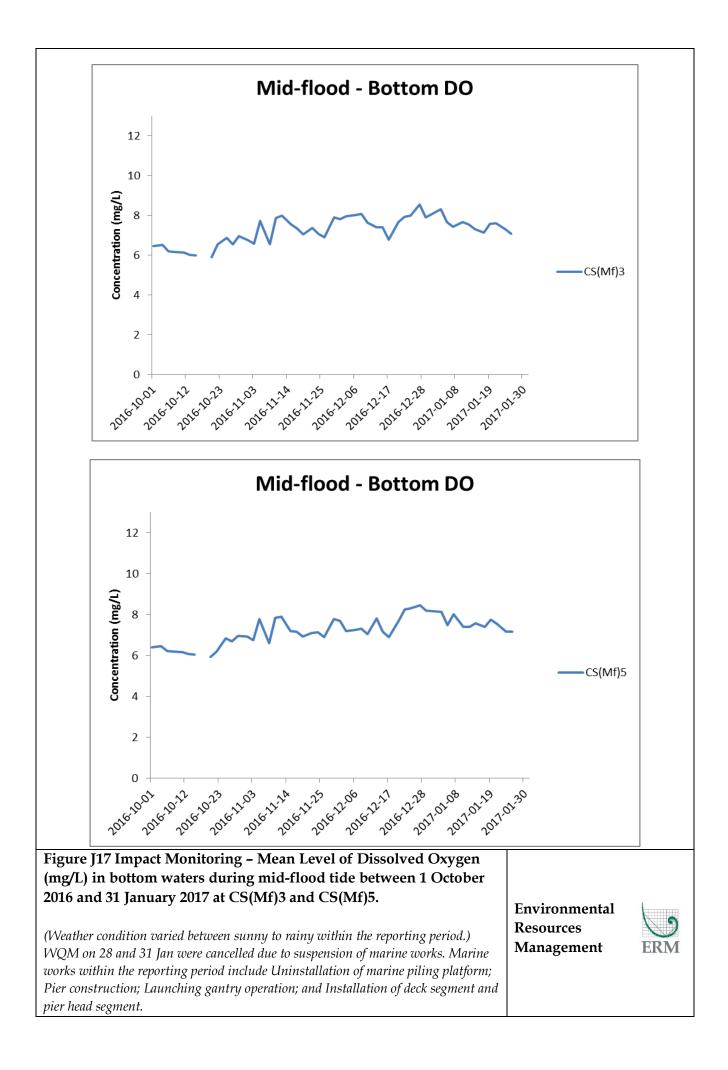


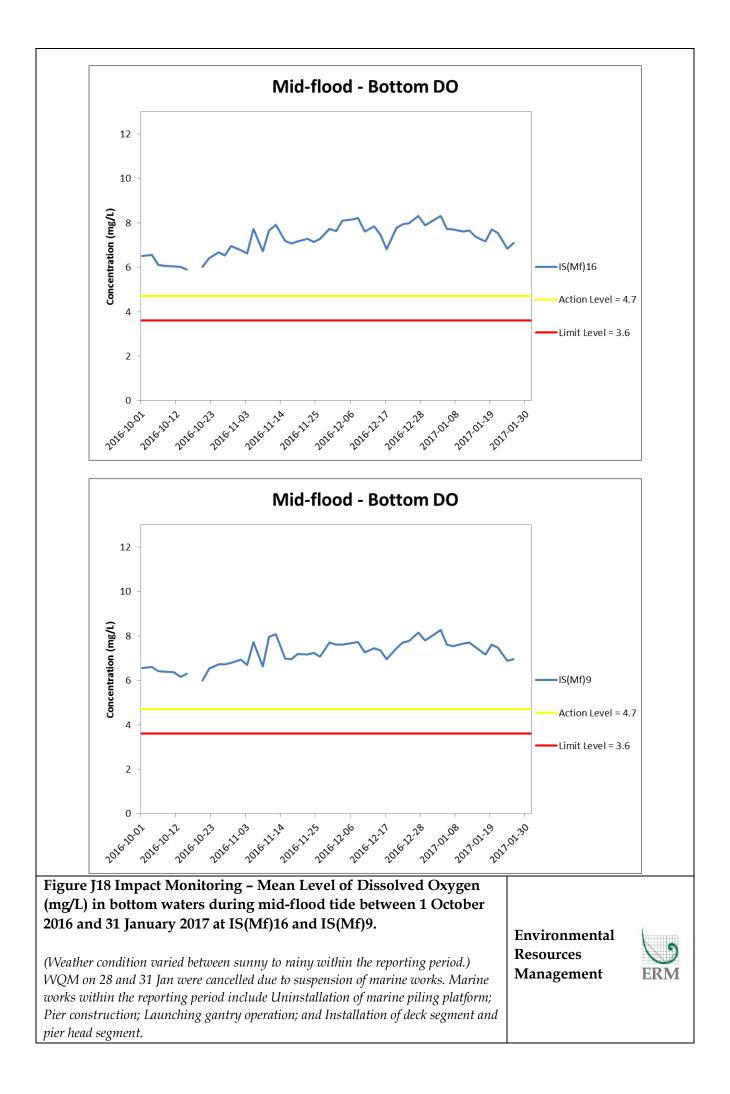


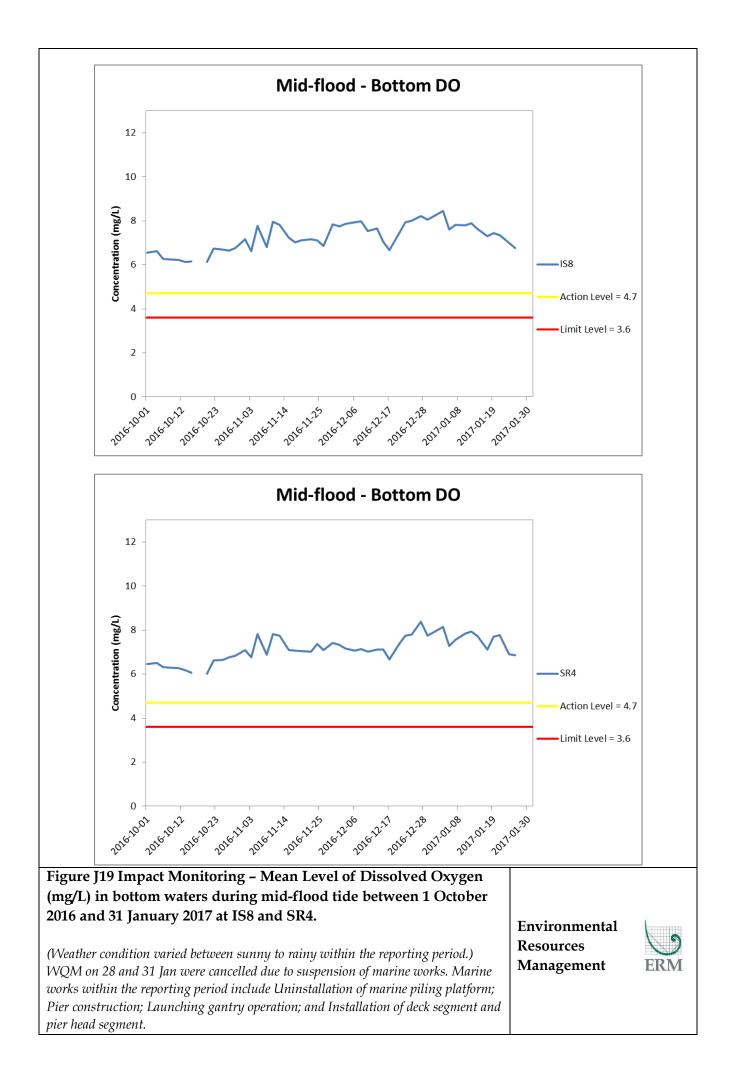


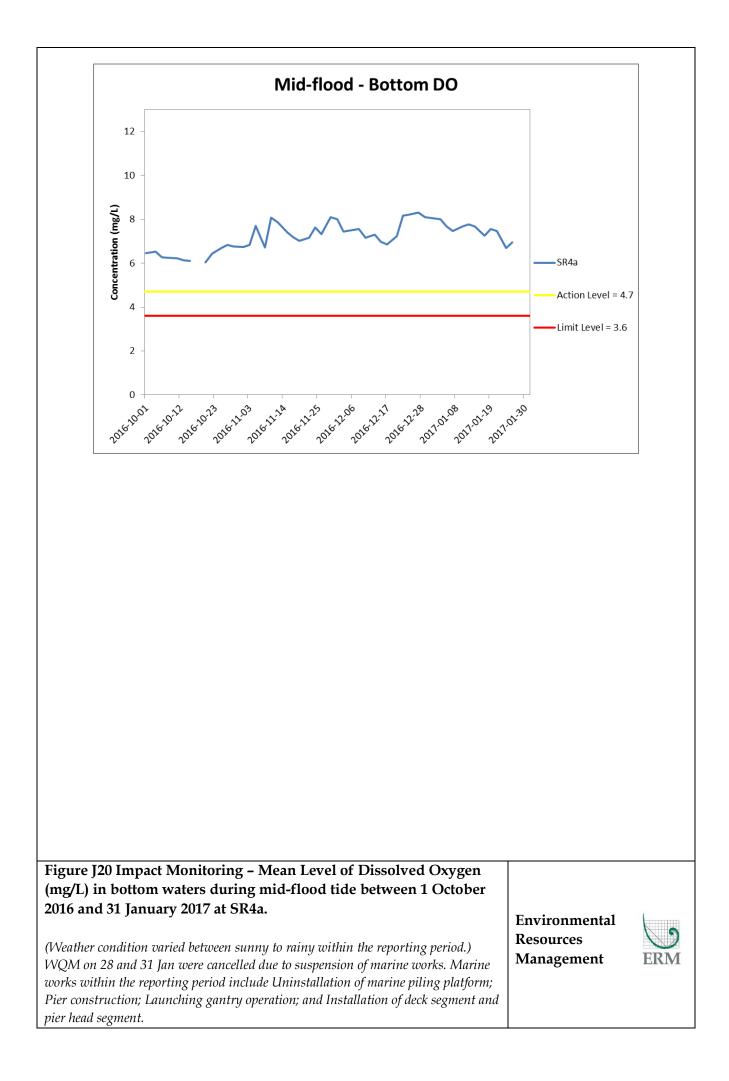


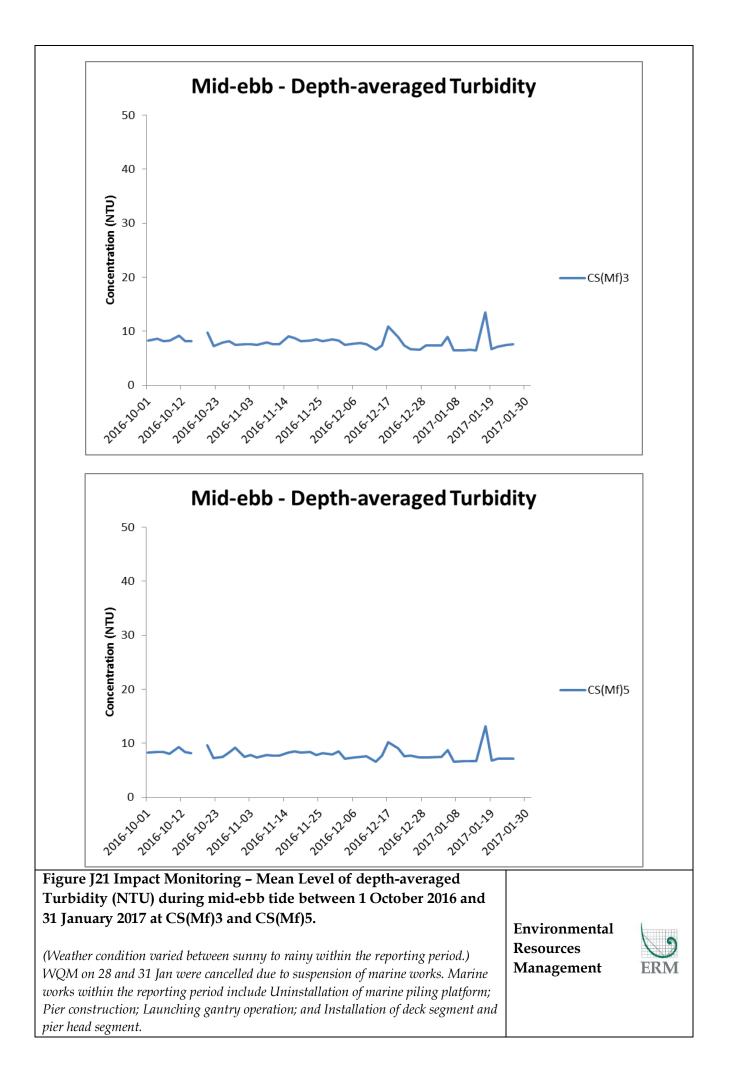


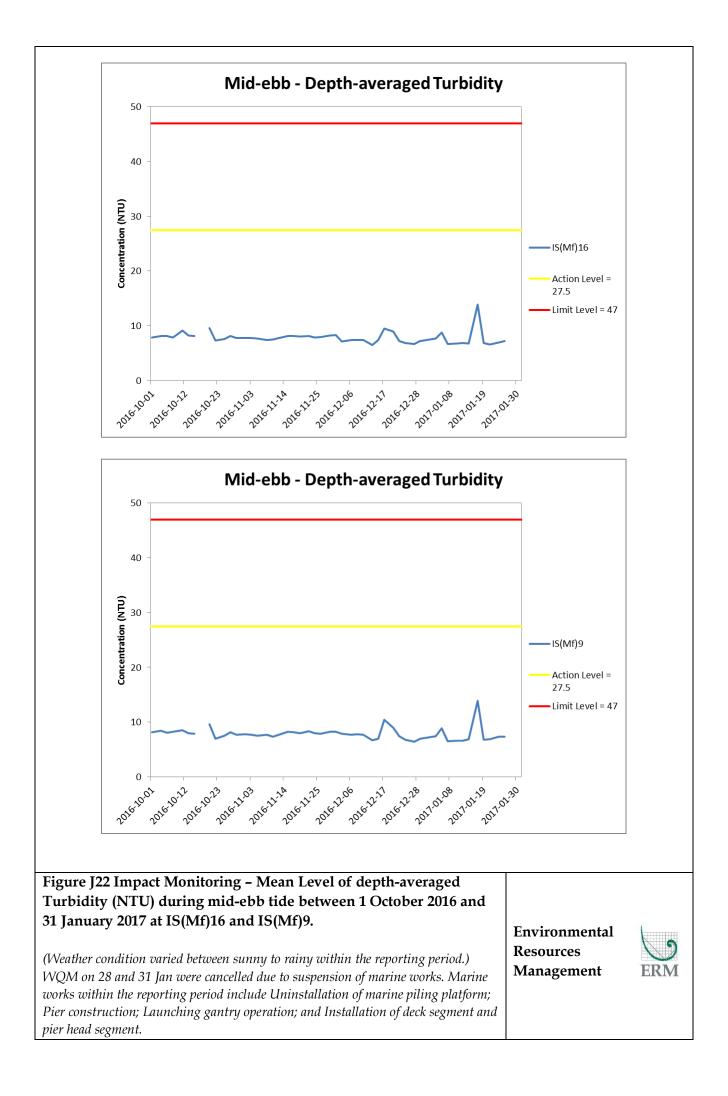


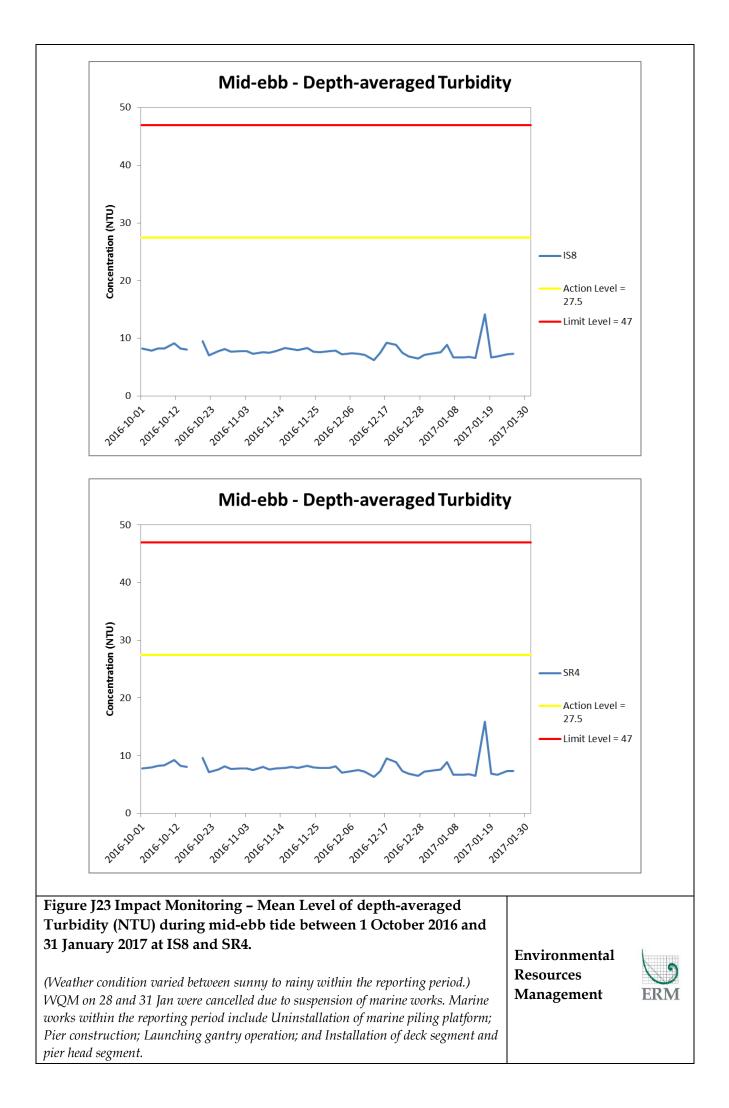


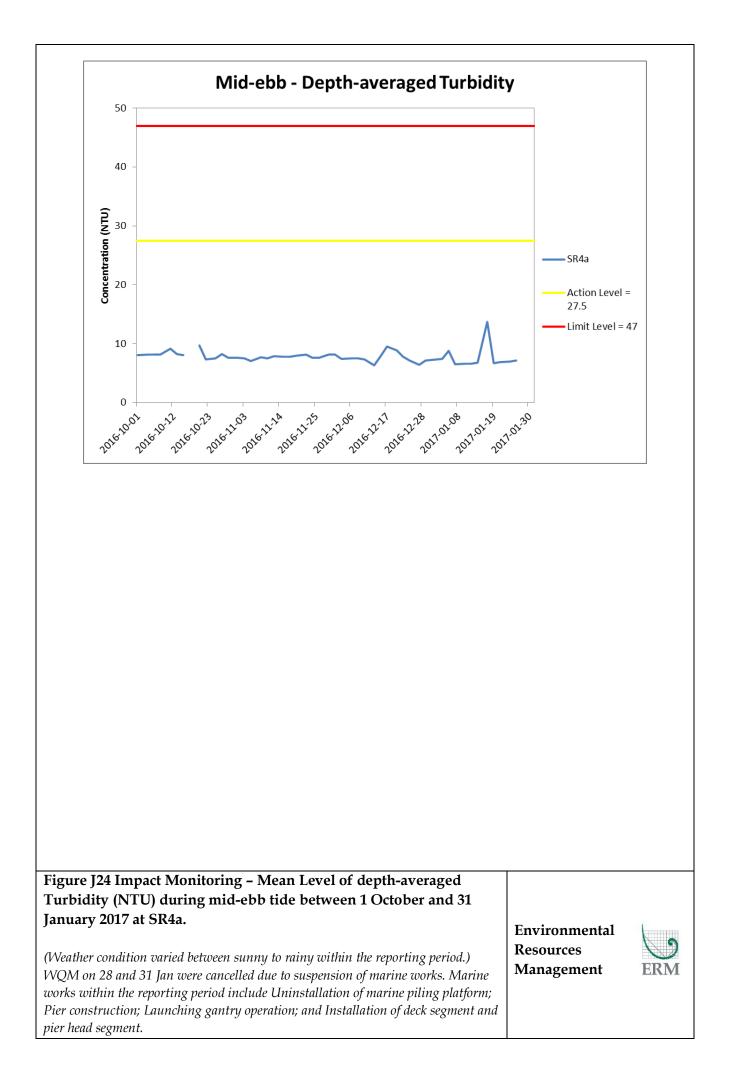


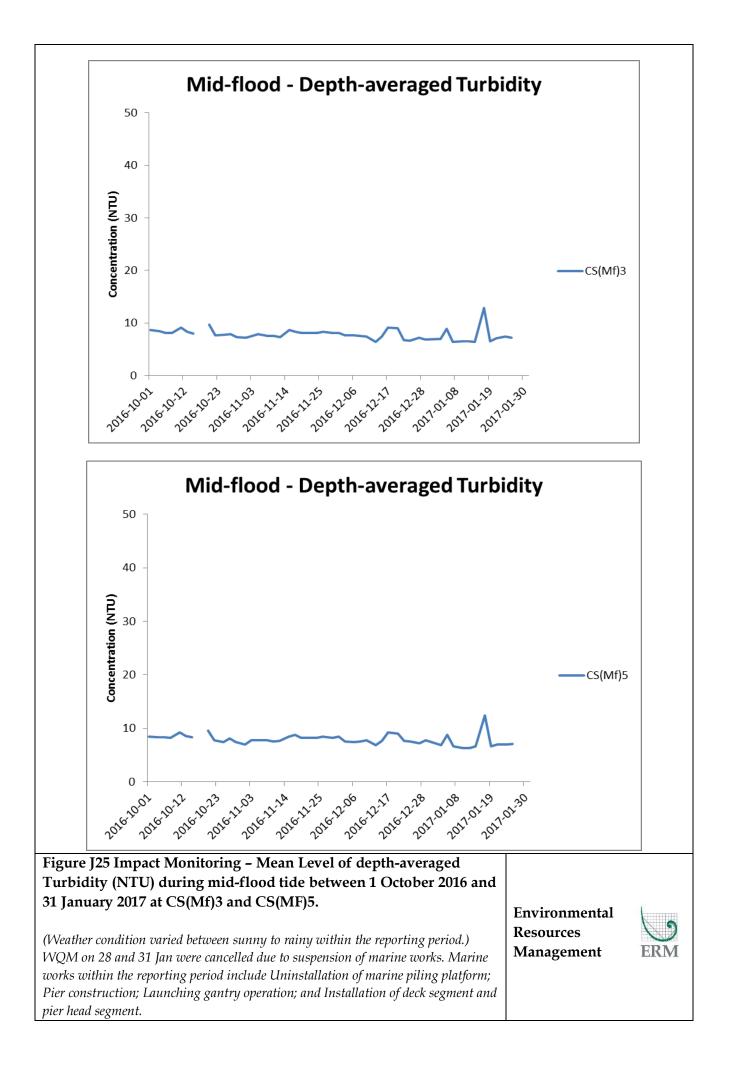


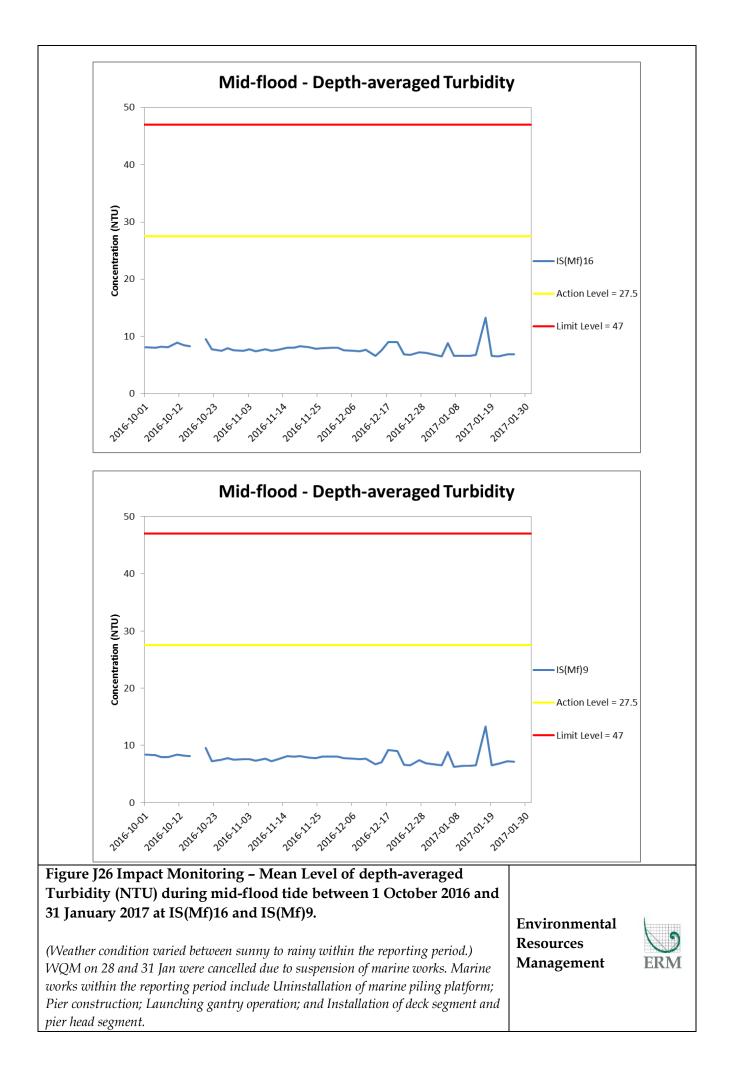


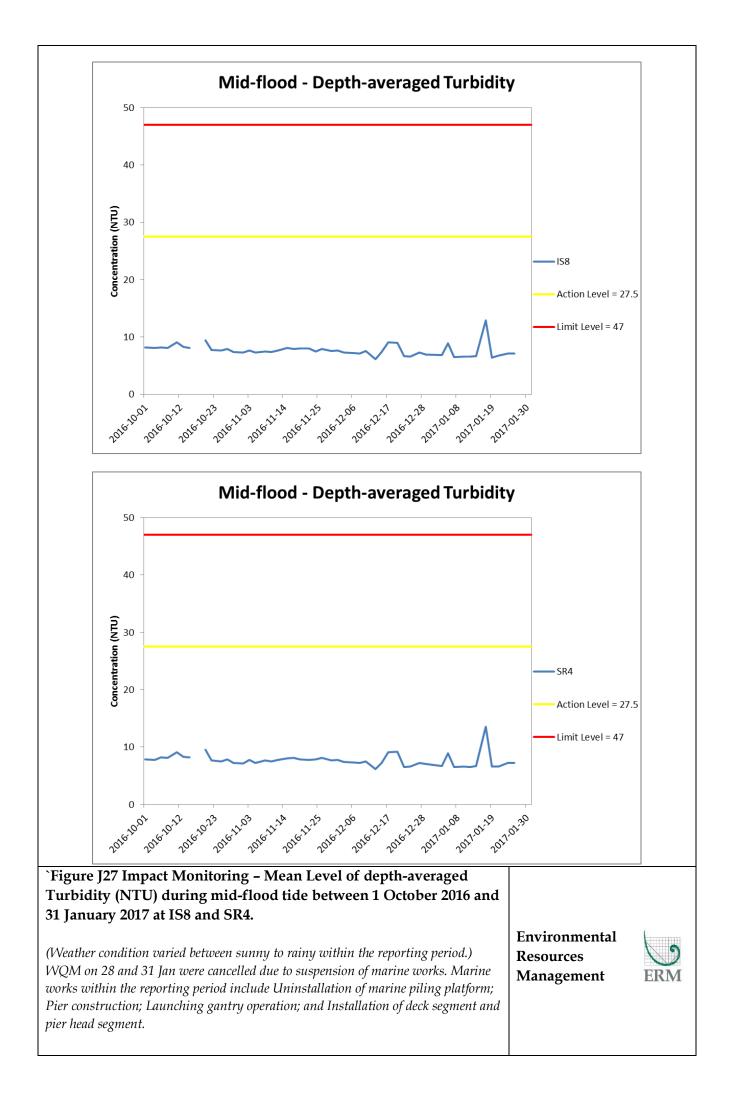


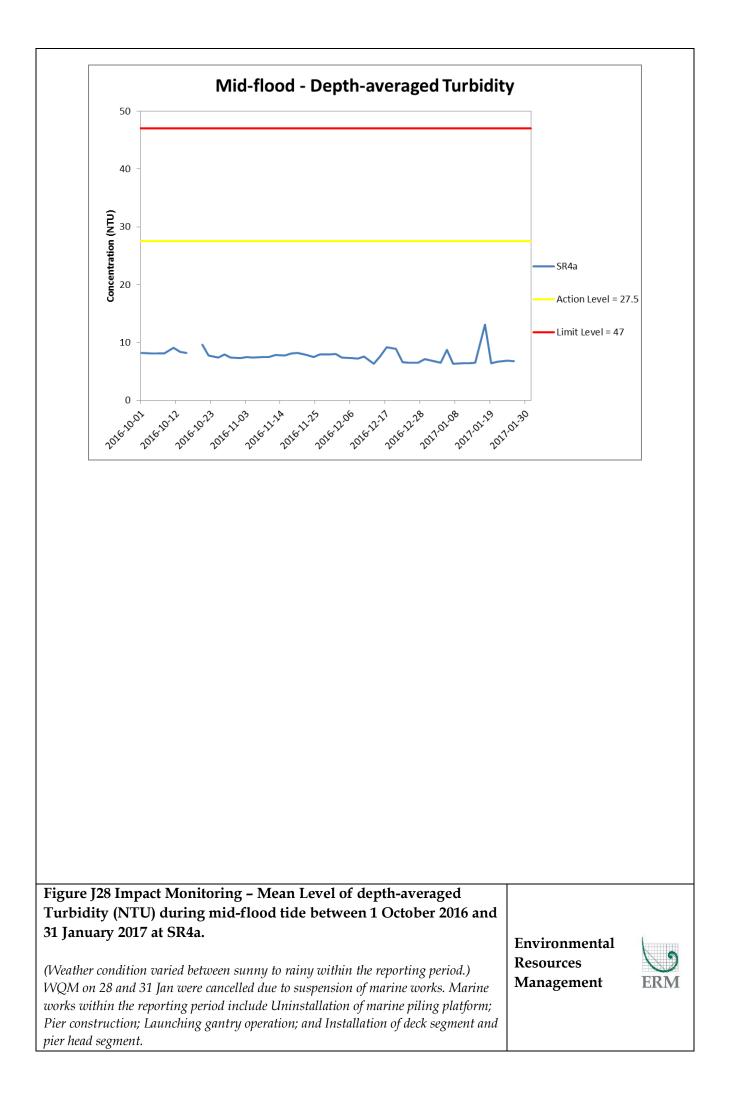


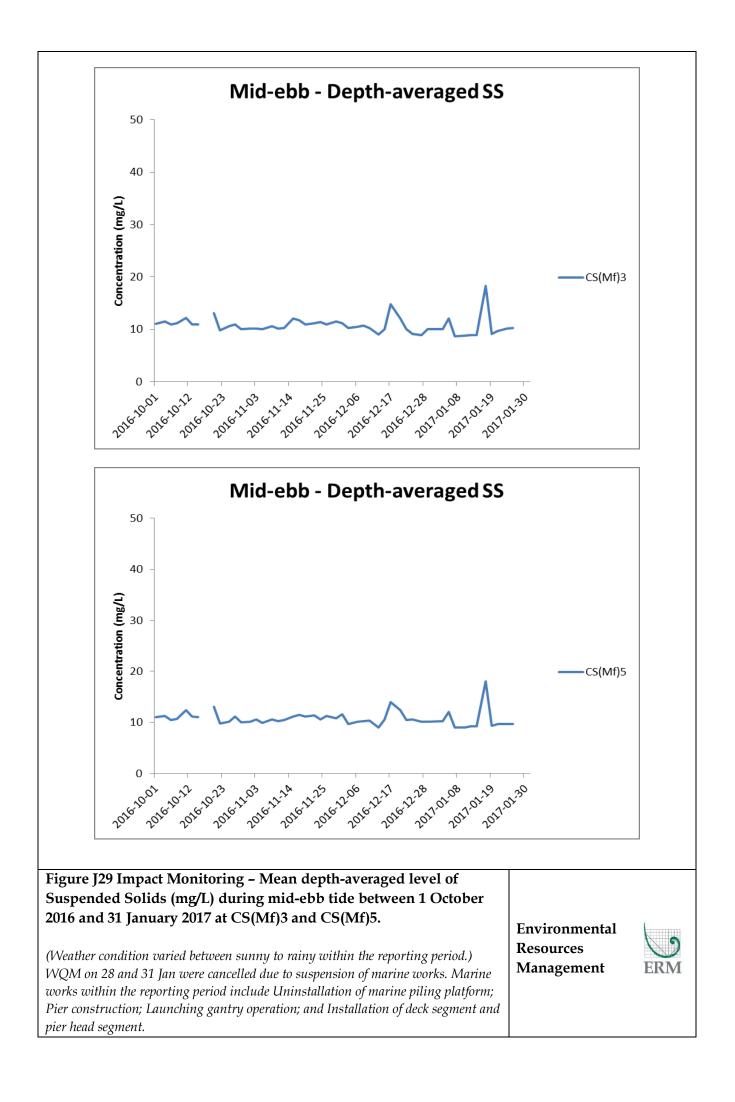


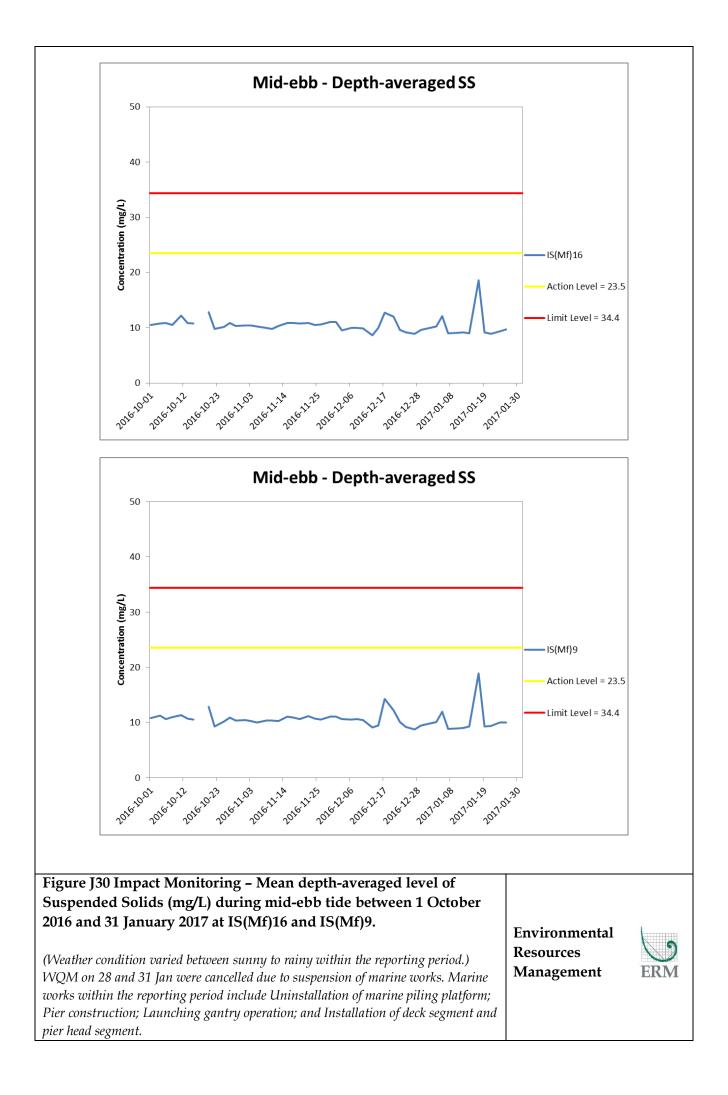


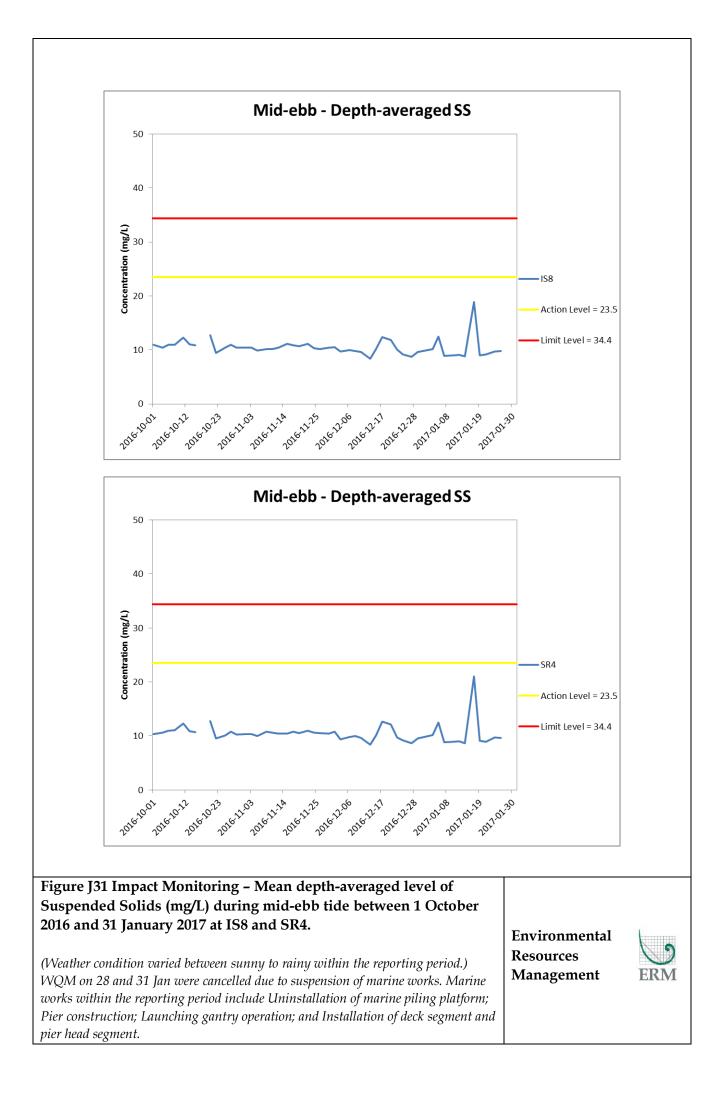


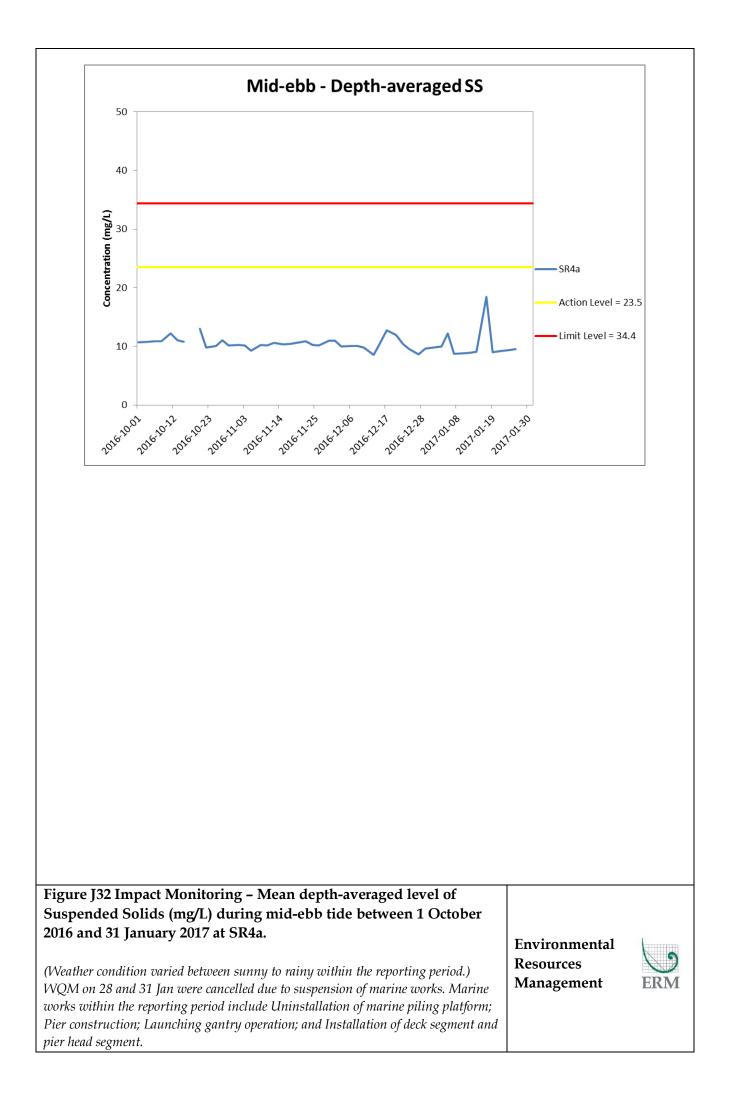


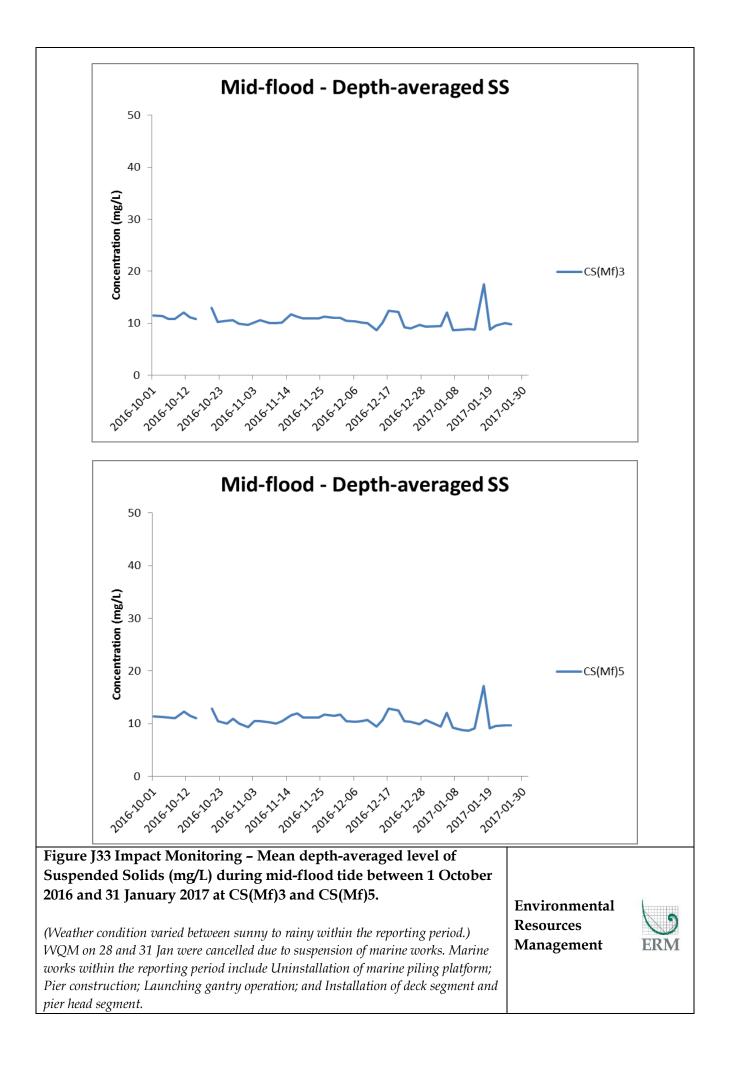


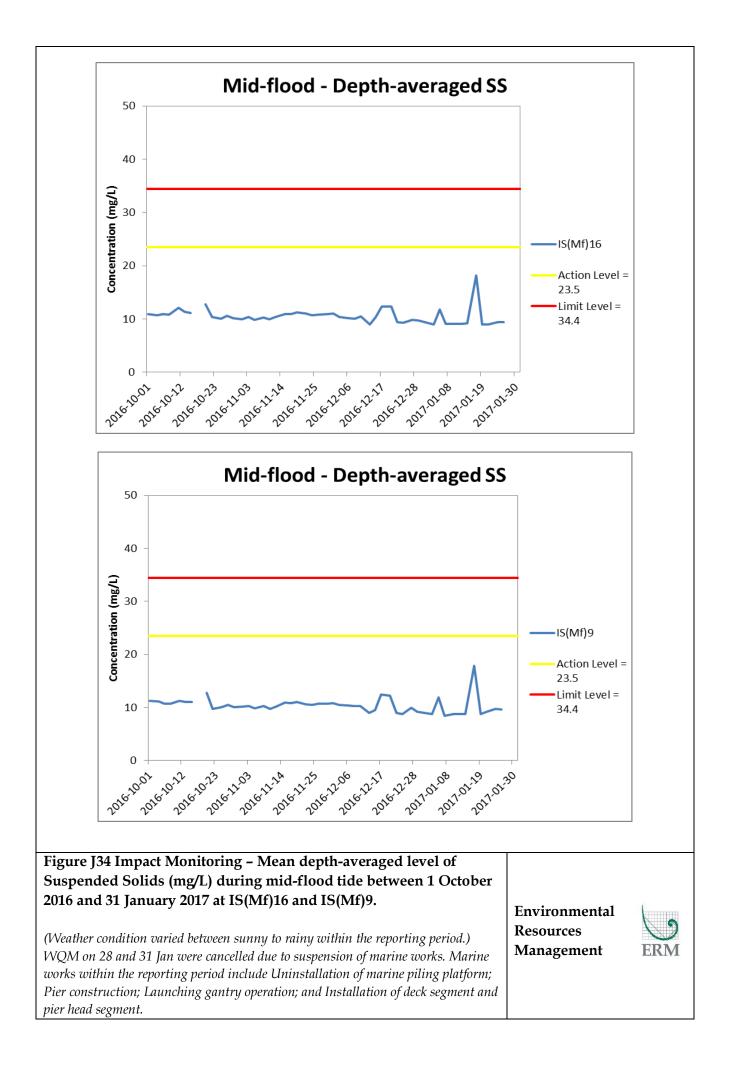


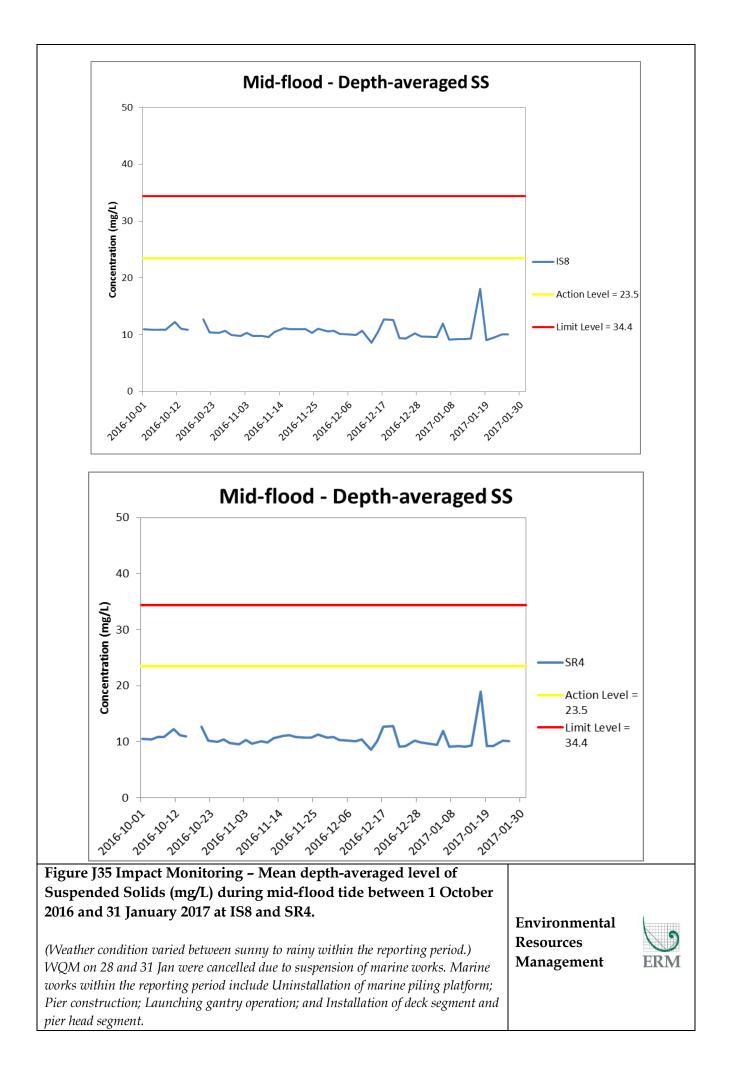


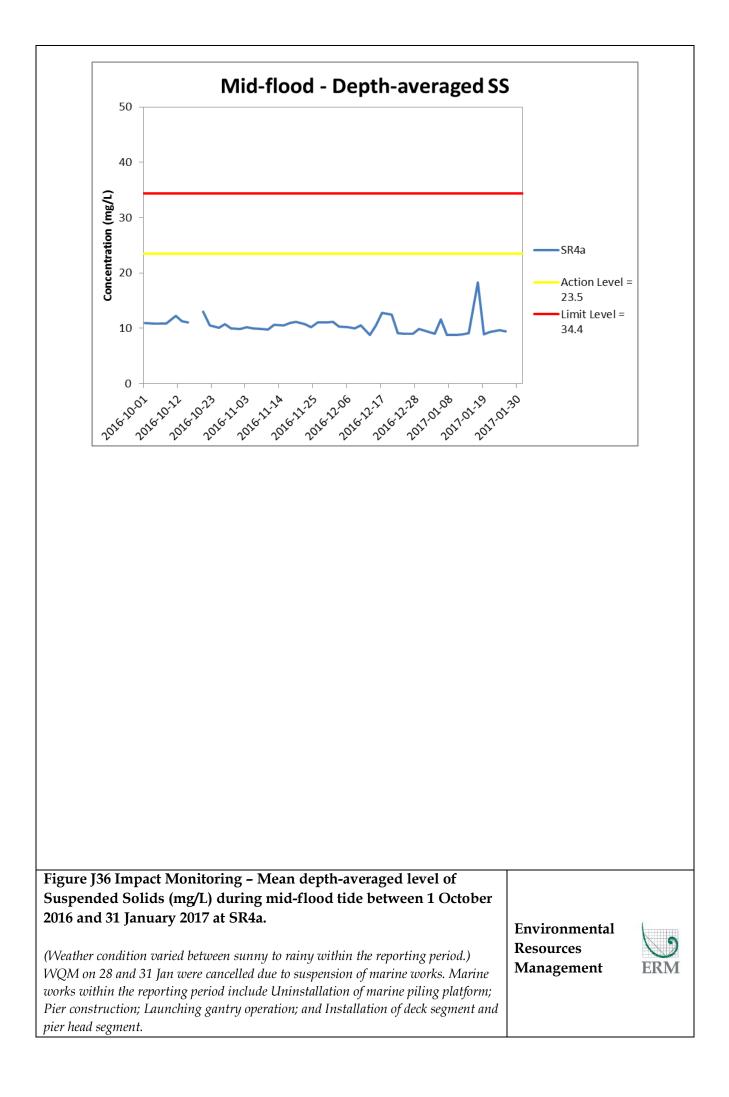












Appendix K

Impact Dolphin Monitoring Survey Results

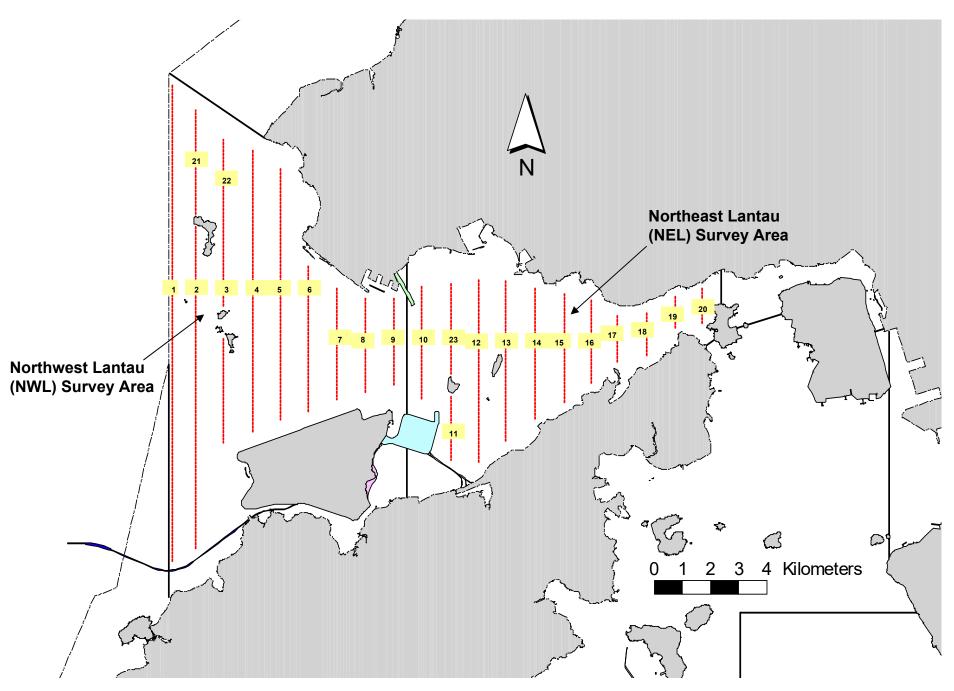


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

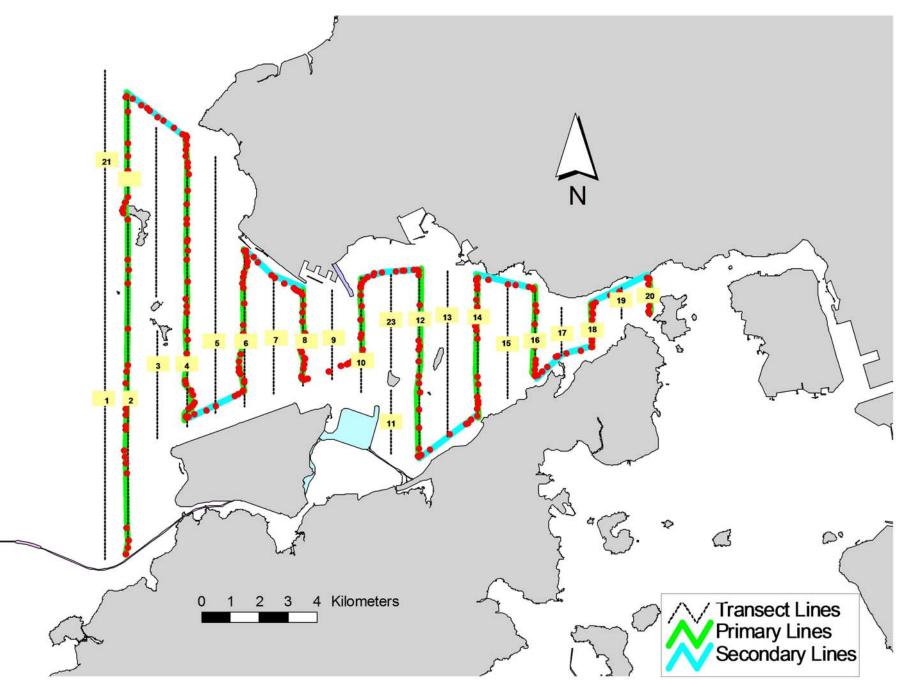


Figure 2. Survey Route on January 10th, 2017 (from HKLR03 project)

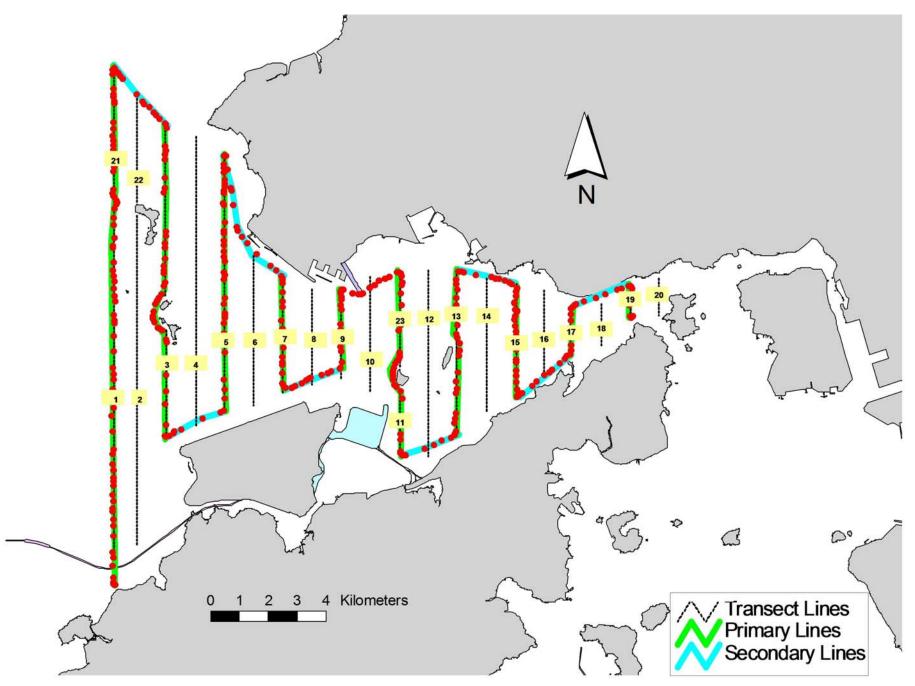


Figure 3. Survey Route on January 12th, 2017 (from HKLR03 project)

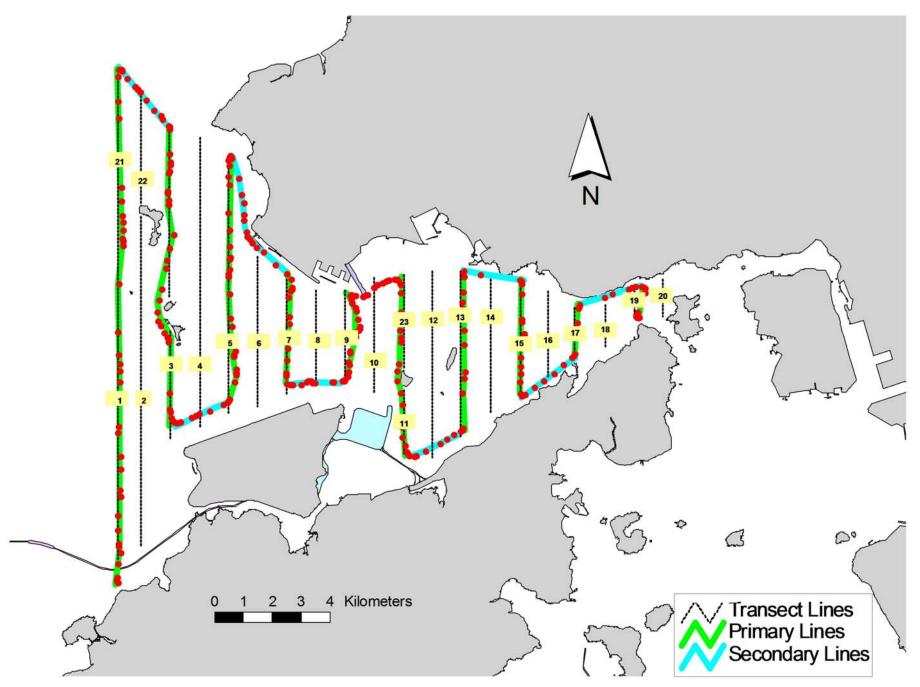


Figure 4. Survey Route on January 16th, 2017 (from HKLR03 project)

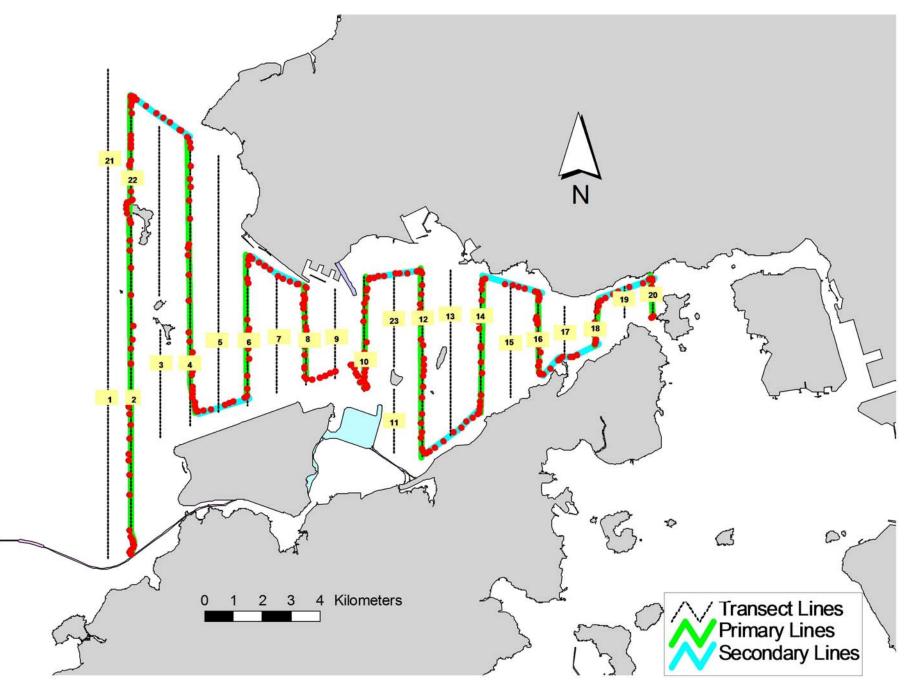


Figure 5. Survey Route on January 20th, 2017 (from HKLR03 project)

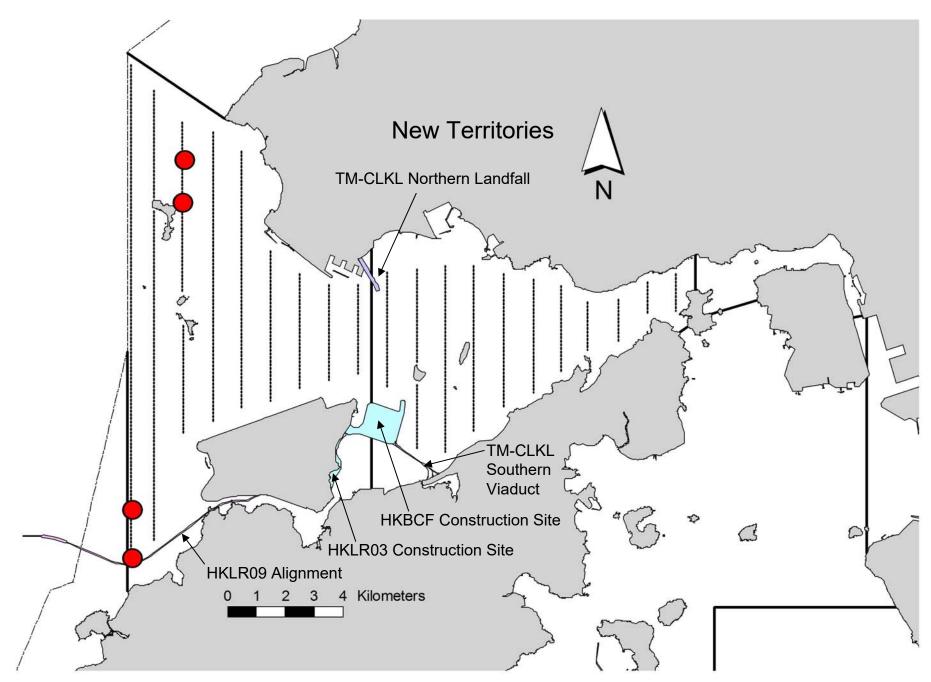


Figure 6. Distribution of Chinese White Dolphin Sightings during January 2017 HKLR03 Monitoring Surveys

### Appendix I. HKLR03 Survey Effort Database (January 2017)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
10-Jan-17	NE LANTAU	2	4.00	WINTER	STANDARD36826	HKLR	Р
10-Jan-17	NE LANTAU	3	14.60	WINTER	STANDARD36826	HKLR	Р
10-Jan-17	NE LANTAU	2	8.90	WINTER	STANDARD36826	HKLR	S
10-Jan-17	NE LANTAU	3	2.10	WINTER	STANDARD36826	HKLR	S
10-Jan-17	NW LANTAU	2	0.70	WINTER	STANDARD36826	HKLR	Р
10-Jan-17	NW LANTAU	3	28.52	WINTER	STANDARD36826	HKLR	Р
10-Jan-17	NW LANTAU	4	2.10	WINTER	STANDARD36826	HKLR	Р
10-Jan-17	NW LANTAU	2	2.10	WINTER	STANDARD36826	HKLR	S
10-Jan-17	NW LANTAU	3	5.88	WINTER	STANDARD36826	HKLR	S
12-Jan-17	NW LANTAU	2	11.90	WINTER	STANDARD31516	HKLR	Р
12-Jan-17	NW LANTAU	3	28.60	WINTER	STANDARD31516	HKLR	Р
12-Jan-17	NW LANTAU	2	11.00	WINTER	STANDARD31516	HKLR	S
12-Jan-17	NW LANTAU	3	2.30	WINTER	STANDARD31516	HKLR	S
12-Jan-17	NE LANTAU	2	16.82	WINTER	STANDARD31516	HKLR	Р
12-Jan-17	NE LANTAU	2	8.97	WINTER	STANDARD31516	HKLR	S
12-Jan-17	NE LANTAU	3	1.00	WINTER	STANDARD31516	HKLR	S
16-Jan-17	NW LANTAU	2	17.83	WINTER	STANDARD36826	HKLR	Р
16-Jan-17	NW LANTAU	3	19.51	WINTER	STANDARD36826	HKLR	Р
16-Jan-17	NW LANTAU	2	10.47	WINTER	STANDARD36826	HKLR	S
16-Jan-17	NW LANTAU	3	2.70	WINTER	STANDARD36826	HKLR	S
16-Jan-17	NE LANTAU	2	10.30	WINTER	STANDARD36826	HKLR	Р
16-Jan-17	NE LANTAU	3	6.40	WINTER	STANDARD36826	HKLR	Р
16-Jan-17	NE LANTAU	2	9.60	WINTER	STANDARD36826	HKLR	S
20-Jan-17	NW LANTAU	2	0.70	WINTER	STANDARD31516	HKLR	Р
20-Jan-17	NW LANTAU	3	25.76	WINTER	STANDARD31516	HKLR	Р
20-Jan-17	NW LANTAU	4	4.64	WINTER	STANDARD31516	HKLR	Р
20-Jan-17	NW LANTAU	2	1.20	WINTER	STANDARD31516	HKLR	S
20-Jan-17	NW LANTAU	3	6.20	WINTER	STANDARD31516	HKLR	S
20-Jan-17	NE LANTAU	2	13.65	WINTER	STANDARD31516	HKLR	Р
20-Jan-17	NE LANTAU	3	5.69	WINTER	STANDARD31516	HKLR	Р
20-Jan-17	NE LANTAU	2	10.46	WINTER	STANDARD31516	HKLR	S
		_					

Appendix II. HKLR03 Chinese White Dolphin Sighting Database (January 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
16-Jan-17	1	1027	1	NW LANTAU	2	84	ON	HKLR	815336	804713	WINTER	NONE	Р
16-Jan-17	2	1041	5	NW LANTAU	3	22	ON	HKLR	816920	804716	WINTER	NONE	Р
16-Jan-17	3	1211	3	NW LANTAU	3	121	ON	HKLR	828289	806500	WINTER	NONE	Р
16-Jan-17	4	1226	4	NW LANTAU	2	200	ON	HKLR	826916	806446	WINTER	NONE	Р

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

ID#	DATE	STG#	AREA
NL46	16/01/17	3	NW LANTAU
NL136	16/01/17	3	NW LANTAU
NL202	16/01/17	4	NW LANTAU
NL210	16/01/17	4	NW LANTAU
NL269	16/01/17	2	NW LANTAU
NL286	16/01/17	4	NW LANTAU
WL28	16/01/17	2	NW LANTAU
WL145	16/01/17	2	NW LANTAU
WL234	16/01/17	3	NW LANTAU



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

Appendix L

# Event Action Plan

### Appendix L1 Event/ Action Plan for Air Quality

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

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

	ACTION											
EVENT	ET	IEC	SOR	Contractor								
Action Level	<ol> <li>Notify the IEC and the Contractor.</li> <li>Carry out investigation.</li> </ol>	1. Review the analysed results submitted by the ET.	1. Confirm receipt of notification of failure in writing.	1. Submit noise mitigation proposals to IEC								
	<ol> <li>Report the results of investigation to the IEC and the Contractor.</li> </ol>	measures by the Contractor and	<ol> <li>Notify the Contractor.</li> <li>Require the Contractor to propose</li> </ol>	2. Implement noise mitigation proposals								
	<ol> <li>Discuss with the Contractor and formulate remedial measures.</li> </ol>	<ul><li>advise the SOR accordingly.</li><li>3. Supervise the implementation of</li></ul>	remedial measures for the analysed noise problem.									
	<ol><li>Increase monitoring frequency to check mitigation effectiveness.</li></ol>	remedial measures.	4. Ensure remedial measures are properly implemented.									
2.	1. Notify the IEC, the SOR, the DEP and the Contractor.	and the Contractor on the potential	1. Confirm receipt of notification of failure in writing.	1. Take immediate action to avoid further exceedance								
	2. Identify the source.	remedial actions.	2. Notify the Contractor.	2. Submit proposals for remedial								
	<ol><li>Repeat measurement to confirm findings.</li></ol>	actions whenever necessary to	3. Require the Contractor to propose remedial measures for the analysed	actions to IEC within 3 working days of notification								
	4. Increase monitoring frequency.	assure their effectiveness and advise the SOR accordingly.	noise problem.	3. Implement the agreed proposals								
	<ol> <li>Carry out analysis of Contractor's working procedures to determine</li> </ol>	<ol> <li>Supervise the implementation of remedial measures.</li> </ol>	4. Ensure remedial measures are properly implemented.	4. Resubmit proposals if problem standar control								
	possible mitigation to be implemented.		5. If exceedance continues, consider what activity of the work is	5. Stop the relevant activity of works as determined by the SOR until th								
	<ol> <li>Inform the IEC, the SOR and the DEP the causes &amp; actions taken for the exceedances.</li> </ol>		responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.	exceedance is abated.								
	<ol> <li>Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results.</li> </ol>											
	8. If exceedance stops, cease additional monitoring.											

## Appendix L3Event/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.						appropriate.
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-
10,	2.	Identify source(s) of impact;	•		•			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, SOR and Contractor;	4.	Supervise the implementation of mitigation measures.			4.	Submit proposal of additional mitigation measures to SOR within 3 working days of
	6.	Ensure mitigation measures are implemented;		mugaton neusures.				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	ET	Leader		IEC	SC	DR		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;		1. 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;	2.	Discuss with ET and Contractor		measures; 2. Request Contractor to	2.	Submit proposal of mitigation measures to SOR within 3
	3.	Inform IEC, contractor, SOR and EPD;		on possible remedial actions;		critically review the working methods;		working days of notification and discuss with ET, IEC and
	4.	Check monitoring data, all plant, 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
	6.	Ensure mitigation measures are implemented;	4.	Supervise the implementation of mitigation measures.		<ul><li>6.</li><li>7. Consider and instruct, if necessary, the Contractor to slow down or to stop all</li></ul>		mitigation measures if 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.

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

### Appendix L4Implementation of Event-Action Plan for Dolphin Monitoring

Event ET Leader		IE	C	SC	OR	Co	ntractor
Limit Level1. Repeat statistical2. Review all availa raw data and stat parameters cover differences are as previously observed3. Identify source(s)4. Inform the IEC, Efindings;5. Check monitoring6. Repeat review to measures are full advise on addition7. If ET proves that any of the constru- contract, ET to ar IEC, ER/SOR and additional dolphi potential mitigati modify the perimi- control/temporar activity etc.) and	R/SOR and Contractor of g data; ensure all the dolphin protective y and properly implemented and nal measures if necessary; the source of impact is caused by action activity by the works range a meeting to discuss with a Contractor the necessity of n monitoring and/or any other on measures (e.g., consider to eter silt curtain or consider to rily stop relevant construction submit to IEC a proposal of n monitoring and/or mitigation	<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	Check monitoring data submitted 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.	1.		<ol> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	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.

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</i> <i>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	<ol> <li>Repeat statistical data analysis to confirm findings;</li> <li>Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences;</li> <li>Identify source(s) of impact;</li> <li>Inform the IEC, SO and Contractor;</li> <li>Check monitoring data;</li> <li>Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary</li> </ol>	<ol> <li>Check monitoring data submitted by ET and Contractor;</li> <li>Discuss monitoring with the ET and the Contractor;</li> </ol>	<ol> <li>Discuss with the IEC the repeat monitoring and any other measures proposed by the ET;</li> <li>Make agreement on measures to be implemented.</li> </ol>	<ol> <li>Inform the SO and confirm notification of the non- compliance in writing;</li> <li>Discuss with the ET and the IEC and propose measures to the IEC and the SO;</li> <li>Implement the agreed measures.</li> </ol>

## Appendix L5 Event and Action Plan on Dolphin Acoustic Behaviour

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

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)

Month\Material	Actual Quantities of Inert C&D Materials Generation					Actual Quantities of C&D wastes Generation				Actual Quantities of Recyclables Generation						
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fills	Imported Fill	Marine Sediment, Cat. L	Marine Sediment, Cat. Mp	Marine Sediment, Cat. Mf	Marine Sediment, Cat. H	Chemical Waste	General Refuse	Metals	Felled trees	Paper/ cardboard packaging	Plastics
Unit	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)
Jan	4.591	0.702	0.474	-	4.118	-	-	-	-	-	3.400	99.840	-	-	0.140	-
Feb	-	0.000	-	-	-	-	-	-	-	-			-	-		-
Mar	-	0.000	-	-	-	-	-	-	-	-			-	-		-
Apr	-	0.000	-	-	-	-	-	-	-	-			-			-
May	-	0.000	-	-	-	-	-	-	-	-			-	-		-
Jun	-	0.000	-	-	-	-	-	-	-	-			-	-		-
SUB-TOTAL	4.591	0.702	0.474	-	4.118	0.000	-	-	-	-	3.400	99.840	-	0.000	0.140	-
Jul	-	0.000	-	-	-	-	-	-	-	-			-			-
Aug	-	0.000	-	-	-	-	-	-	-	-			-			-
Sep	-	0.000	-	-	-	-	-	-	-	-			-	-		-
Oct	-	0.000	-	-	-	-	-	-	-	-			-	-		-
Nov	-	0.000	-	-	-	-		-	-	-			-	-		-
Dec	-	0.000	-	-	-	-		-	-	-			-	-		-
TOTAL	4.591	0.702	0.474	-	4.118	-	-	-	-	-	3.400	99.840	-	-	0.140	-

#### 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	0	7

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

Reporting Period	Cumulative Statistics					
	Complaints	Notifications of Summons	Successful Prosecutions			
This Reporting Month (January 2017)	1	0	0			
Total No. received since project commencement	8	0	0			

#### ENVIRONMENTAL COMPLAINT/ ENQUIRY FORM



Complaint/ <del>Enquiry</del> Received*
Date: 13 January 2017
Time: Undisclosed
From: Agriculture, Fisheries and Conservation Department (AFCD)
Via: Email
Complainant/ <del>Enquirer</del> *:
Name: Undisclosed
Tel: Undisclosed
Address: Undisclosed
Media: <del>Dust</del> Noise Water Quality Other
Description: On 12 January 2017, a complaint was made by the AFCD to HyD regarding constructional vessels and silt curtain
found within the boundary of Brothers Marine Park (BMP) on 4 and 5 January 2017. Two observations were reported by AFCD,
1) Twenty-two barges/tug boats were observed anchored inside the BMP (see <i>Figure 1</i> ) and 2) A section of silt curtain enclosing
the Hong Kong Boundary Crossing Facilities (HKBCF) project site was found inside the BMP or in close vicinity of the boundary

### Investigation Report & Response

Record of constructional vessels and operation records were reviewed immediately upon receiving the complaint. None of the construction vessels in the list provided by AFCD was employed under this Contract. Major marine works under this Contract carried out this month were mainly installation of deck segments and pier head segments, pier construction and launching gantry operations. All Contract related construction vessels were found working inside the project site boundary under this Contract. According to ET's weekly site inspection on 4 January 2017, barges/tug boats were observed located at the south of HKBCF, mainly near Viaduct A and Viaduct D within the project site boundary. None of them were observed operating or anchoring outside the project site boundary under this Contract (*Figure 2*).

In addition, silt curtain enclosing the HKBCF was not deployed under this Contract. Therefore, the observation on silt curtain found inside the BMP or in close vicinity of the boundary of BMP was considered not related to this Contract.

Based on the above, it is reasonable to consider that the complaint was not related to the Contract.

#### Mitigation Measures and Follow-Up Actions Recommended to Contractor

of BMP. The Contractor received the complaint notification on 13 January 2017.

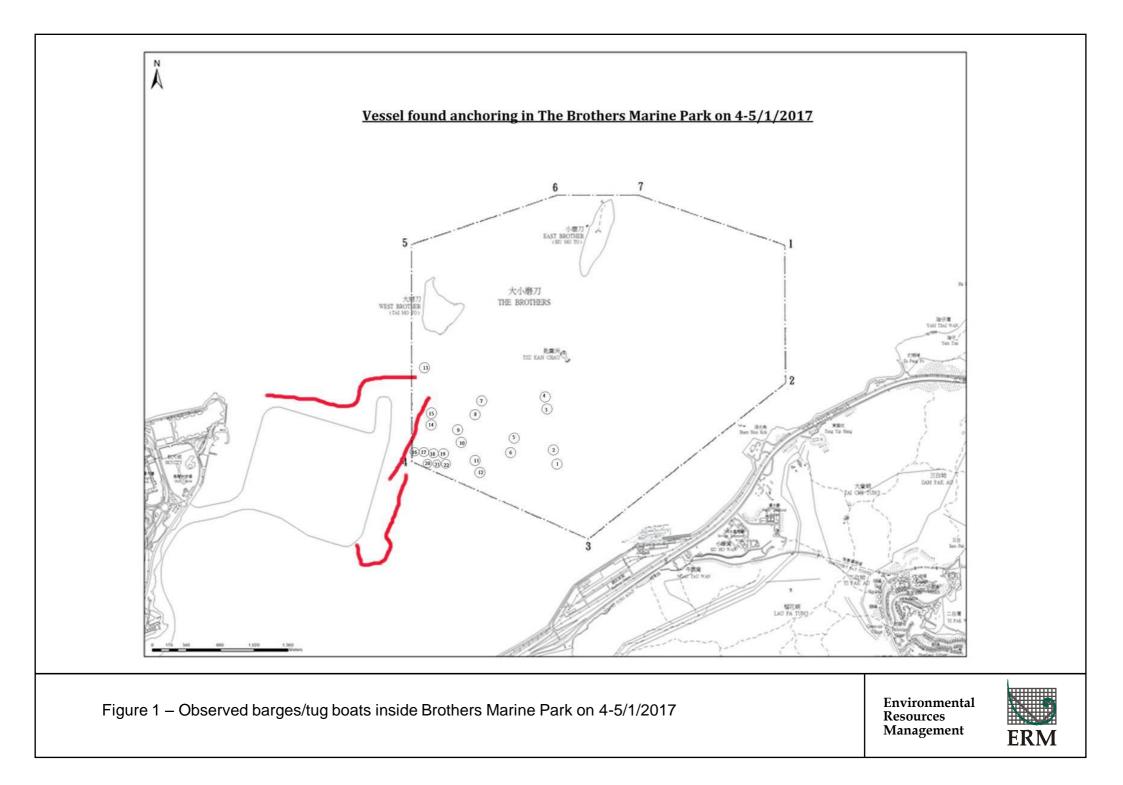
The complaint is considered not related to this Contract and thus no further action is required. The ET will keep checking on the operation of construction vessels.

Date of File Closed :

13 January 2017

Approved and Filed by:

(Jovy Tam, ET Leader) Date: 13 January 2017



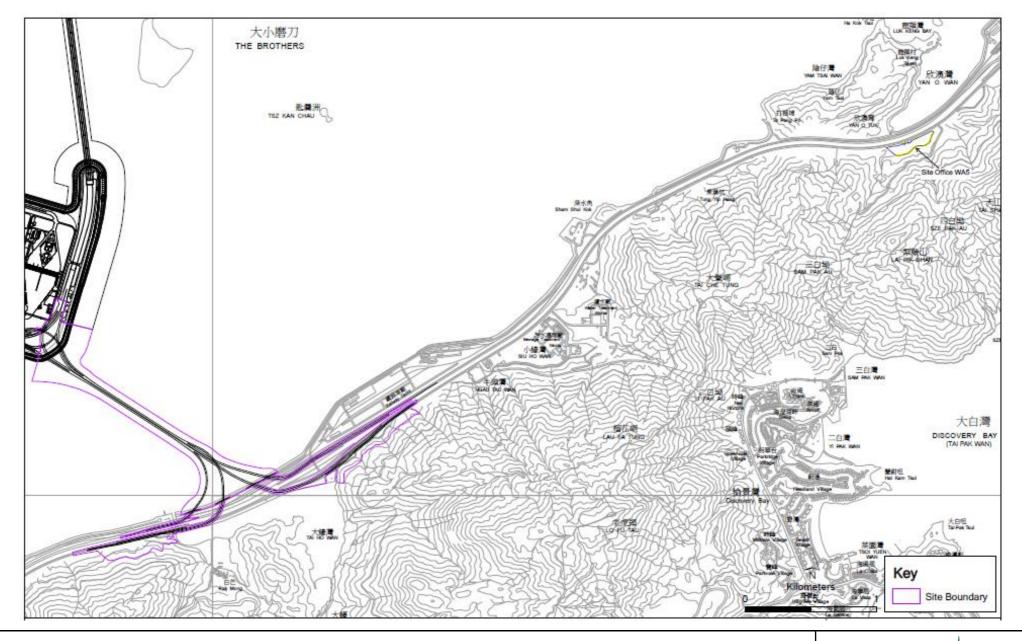


Figure 2 – Project site boundary under this Contract



