路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Contract No. HY/2011/03

Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Quarterly EM&A Report No. 18 (December 2016 to February 2017)

27 July 2017

Revision 1

Main Contractor

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Designer

ATKINS

Contains *sensitive* information

Contents

Executive Summary

Figures

Appendices

Executive Summary

The Hong Kong-Zhuhai-Macao Bridge (HZMB) Hong Kong Link Road (HKLR) serves to connect the HZMB Main Bridge at the Hong Kong Special Administrative Region (HKSAR) Boundary and the HZMB Hong Kong Boundary Crossing Facilities (HKBCF) located at the north eastern waters of the Hong Kong International Airport (HKIA).

The HKLR project has been separated into two contracts. They are Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between Scenic Hill and Hong Kong Boundary Crossing Facilities (hereafter referred to as the Contract) and Contract No. HY/2011/09 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between HKSAR Boundary and Scenic Hill.

China State Construction Engineering (Hong Kong) Ltd. was awarded by Highways Department as the Contractor to undertake the construction works of Contract No. HY/2011/03. The main works of the Contract include land tunnel at Scenic Hill, tunnel underneath Airport Road and Airport Express Line, reclamation and tunnel to the east coast of the Airport Island, at-grade road connecting to the HKBCF and highway works of the HKBCF within the Airport Island and in the vicinity of the HKLR reclamation. The Contract is part of the HKLR Project and HKBCF Project, these projects are considered to be "Designated Projects", under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap 499) and EIA Reports (Register No. AEIAR-144/2009 and AEIAR-145/2009) were prepared for the Project. The current Environmental Permit (EP) EP-352/2009/D for HKLR and EP-353/2009/K for HKBCF were issued on 22 December 2014 and 11 April 2016, respectively. These documents are available through the EIA Ordinance Register. The construction phase of Contract was commenced on 17 October 2012.

BMT Asia Pacific Limited has been appointed by the Contractor to implement the Environmental Monitoring & Audit (EM&A) programme for the Contract in accordance with the Updated EM&A Manual for HKLR (Version 1.0) and will be providing environmental team services to the Contract.

This is the eighteenth Quarterly EM&A report for the Contract which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 December 2016 to 28 February 2017.

Environmental Monitoring and Audit Progress

The EM&A programme were undertaken in accordance with the Updated EM&A Manual for HKLR (Version 1.0). A summary of the monitoring activities during this reporting period is presented as below:

Monitoring Activity		Monitoring Date		
		December 2016	January 2017	February 2017
Air Quality	1-hr TSP	6, 12, 16, 22 and 28	3, 9, 13, 19, 24 and 27	2, 7, 13, 17 and 23
	24-hr TSP	5, 9, 15, 21, 24 and 30	5, 10, 16, 20 and 26	1, 6, 10, 16, 22 and 28
Noise		6, 12, 22 and 28	3, 9, 19 and 24	2, 7, 13 and 23
Water Quality		2, 5, 7, 9, 12, 14, 16, 19, 21, 23, 26, 28 and 30	2, 4, 6, 9, 11, 13, 16, 18, 20, 23, 25, 27 and 30	1, 3, 6, 8, 10, 13, 15, 17, 20, 22, 24 and 27
Chinese White Dolphin		1, 6, 16 and 19	10, 12, 16 and 20	7, 9, 16 and 21
Mudflat Monitoring (Ecology)		3, 4, 5, 17, 18 and 19	--	--
Mudflat Monitoring (Sedimentation rate)		7	--	--
Site Inspection		7, 14, 21 and 30	4, 11, 18 and 27	3, 8, 15, 22 and 28

Due to boat availability, the dolphin monitoring schedule was rescheduled from 9 December 2016 to 16 December 2016 and from 12 December 2016 to 19 December 2016.

Due to boat availability, the dolphin monitoring schedule was rescheduled from 19 January 2017 to 16 January 2017 and from 23 January 2017 to 20 January 2017.

Due to weather condition, the dolphin monitoring schedule was rescheduled from 14 February 2017 to 16 February 2017. Due to boat availability, the dolphin monitoring schedule was rescheduled from 20 February 2017 to 21 February 2017.

Breaches of Action and Limit Levels

A summary of environmental exceedances for this reporting period is as follows:

Environmental Monitoring	Parameters	Action Level (AL)	Limit Level (LL)
Air Quality	1-hr TSP	0	0
	24-hr TSP	0	0
Noise	L_{eq} (30 min)	0	0
Water Quality	Suspended solids level (SS)	4	0
	Turbidity level	0	0
	Dissolved oxygen level (DO)	0	0
Dolphin Monitoring	Quarterly Analysis (Dec 2016 to Feb 2017)	0	1

The Environmental Team investigated all exceedances and found that they were not project related.

All investigation reports for exceedances of the Contract have been submitted to ENPO/IEC for comments and/or follow up to identify whether the exceedances occurred related to other HZMB contracts.

Implementation of Mitigation Measures

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. Potential environmental impacts due to the construction activities were monitored and reviewed.

Complaint Log

There were five complaints received in relation to the environmental impacts during the reporting period.

A summary of environmental complaints for this reporting period s as follows:

Environmental Complaint No.	Date of Complaint Received	Description of Environmental Complaints
COM-2016-099	2 December 2016	Slurry on public road
COM-2016-100	14 December 2016	Mud/debris on public road
COM-2016-103 (See Remark 1)	14 December 2016	Noise
COM-2017-104 (See Remark 2)	9 January 2017	Cleanliness problem at East Coast Road and Tung Fai Road
COM-2017-108	23 February 2017 and 2 March 2017	Cleanliness problem at East Coast Road

Remarks:

1.Based on updated information received in February 2017, the environmental complaint no. COM-2016-104 mentioned in Monthly EM&A Report for December 2016 and January 2017 should be COM-2016-103.

2. Based on updated information received in February 2017, the environmental complaint no. COM-2016-105 mentioned in Monthly EM&A Report for January 2017 should be COM-2016-104.

Notifications of Summons and Prosecutions

There were no notifications of summons or prosecutions received during this reporting period.

Reporting Changes

This report has been developed in compliance with the reporting requirements for the quarterly summary EM&A reports as required by the Updated EM&A Manual for HKLR (Version 1.0).

The proposal for the change of Action Level and Limit Level for suspended solid and turbidity was approved by EPD on 25 March 2013.

The revised Event and Action Plan for dolphin monitoring was approved by EPD on 6 May 2013.

The original monitoring station at IS(Mf)9 (Coordinate- East:813273, North 818850) was observed inside the perimeter silt curtain of Contract HY/2010/02 on 1 July 2013, as such the original impact water quality monitoring location at IS(Mf)9 was temporarily shifted outside the silt curtain. As advised by the Contractor of HY/2010/02 in August 2013, the perimeter silt curtain was shifted to facilitate safe anchorage zone of construction barges/vessels until end of 2013 subject to construction progress. Therefore, water quality monitoring station IS(Mf)9 was shifted to 813226E and 818708N since 1 July 2013. According to the water quality monitoring team's observation on 24 March 2014, the original monitoring location of IS(Mf)9 was no longer enclosed by the perimeter silt curtain of Contract HY/2010/02. Thus, the impact water quality monitoring works at the original monitoring location of IS(Mf)9 has been resumed since 24 March 2014.

Transect lines 1, 2, 7, 8, 9 and 11 for dolphin monitoring have been revised due to the obstruction of the permanent structures associated with the construction works of HKLR and the southern viaduct of TM-CLKL, as well as provision of adequate buffer distance from the Airport Restricted Areas. The EPD issued a memo and confirmed that they had no objection on the revised transect lines on 19 August 2015.

The water quality monitoring locations at IS10 (Coordinate: 812577E, 820670N) and SR5 (811489E, 820455N) are located inside Hong Kong International Airport (HKIA) Approach Restricted Areas. The previously granted Vessel's Entry Permit for accessing stations IS10 and SR5 was expired on 31 December 2016. Renewal of the permit was applied in mid of December 2016. As the application was still under Civil Aviation Department's review on 2 January 2017 to determine whether the proposed water quality monitoring at locations IS10 and SR5 would affect airport's operation and their permission is one of consideration for Marine Department to issue the Permit. Therefore, accessing monitoring locations at IS10 and SR5 was temporarily prohibited on 2, 4 and 6 January 2017. During the permit renewing process, the water quality monitoring location was shifted to IS10(N) (Coordinate: 813060E, 820540N) and SR5(N) (Coordinate: 811430E, 820978N) on 2, 4 and 6 January 2017 temporarily. IS10(N) and SR5(N) were located outside the restricted area but close to the original monitoring location. So, the monitoring results obtained at IS10(N) and SR5(N) are still representative and the baseline monitoring results are still applicable. The permit has been granted by Marine Department on 6 January 2017. Thus, the impact water quality monitoring works at original monitoring locations at IS10 and SR5 has been resumed since 9 January 2017.

1 Introduction

1.1 Basic Project Information

1.1.1 The Hong Kong-Zhuhai-Macao Bridge (HZMB) Hong Kong Link Road (HKLR) serves to connect the HZMB Main Bridge at the Hong Kong Special Administrative Region (HKSAR) Boundary and the HZMB Hong Kong Boundary Crossing Facilities (HKBCF) located at the north eastern waters of the Hong Kong International Airport (HKIA).

1.1.2 The HKLR project has been separated into two contracts. They are Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between Scenic Hill and Hong Kong Boundary Crossing Facilities (hereafter referred to as the Contract) and Contract No. HY/2011/09 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between HKSAR Boundary and Scenic Hill.

1.1.3 China State Construction Engineering (Hong Kong) Ltd. was awarded by Highways Department (HyD) as the Contractor to undertake the construction works of Contract No. HY/2011/03. The Contract is part of the HKLR Project and HKBCF Project, these projects are considered to be “Designated Projects”, under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap 499) and EIA Reports (Register No. AEIAR-144/2009 and AEIAR-145/2009) were prepared for the Project. The current Environmental Permit (EP) EP-352/2009/D for HKLR and EP-353/2009/K for HKBCF were issued on 22 December 2014 and 11 April 2016, respectively. These documents are available through the EIA Ordinance Register. The construction phase of Contract was commenced on 17 October 2012. **Figure 1.1** shows the project site boundary.

1.1.4 BMT Asia Pacific Limited has been appointed by the Contractor to implement the EM&A programme for the Contract in accordance with the Updated EM&A Manual for HKLR (Version 1.0) for HKLR and will be providing environmental team services to the Contract. Ramboll Environ Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project. The project organization with regard to the environmental works is provided in **Appendix A**.

1.1.5 This is the eighteenth Quarterly Environmental Monitoring and Audit (EM&A) report for the Contract which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 December 2016 to 28 February 2017.

1.2 Project Organisation

1.2.1 The project organization structure and lines of communication with respect to the on-site environmental management structure with the key personnel contact names and numbers are shown in **Appendix A**.

1.3 Construction Programme

1.3.1 A copy of the Contractor’s construction programme is provided in **Appendix B**.

1.4 Construction Works Undertaken During the Reporting Period

1.4.1 A summary of the construction activities undertaken during this reporting period is shown in **Table 1.1**. The Works areas of the Contract are showed in **Appendix C**.

Table 1.1 Construction Activities during Reporting Period

Description of Activities	Site Area
Stockpiling	WA7
Dismantling/Trimming of Temporary 40mm Stone Platform for Construction of Seawall	Portion X
Construction of Seawall	Portion X
Pipe Piling	Portion X
Loading and Unloading of Filling Materials	Portion X
Backfilling at Scenic Hill Tunnel (Cut & Cover Tunnel)	Portion X
Construction of Tunnel Box Structure at Scenic Hill Tunnel (Cut & Cover Tunnel)	Portion X
Excavation for HKBCF to Airport Tunnel & construction of tunnel box structure	Portion X
Excavation for Diversion of culvert PR9 and PR14	Portion X
Works for Diversion of Airport Road	Airport Road
Utilities Detection	Airport Road / Airport Express Line / East Coast Road
Establishment of Site Access	Airport Road / Airport Express Line/ East Coast Road
Mined Tunnel Excavation / Box Jacking underneath Airport Road and Airport Express Line	Airport Road / Airport Express Line
Excavation and lateral support works at shaft 3 extension north shaft (Package T1.12.1)	Near Kwo Lo Wan Road
Construction of Tunnel box structure (Package T1.12.1)	Near Kwo Lo Wan Road
Construction of Tunnel box structure	Shaft 3 Extension South Shaft
Excavation and Lateral Support Works & Construction of Tunnel Box Structure for HKBCF to Airport Tunnel West (Cut & Cover Tunnel)	Airport Road
Excavation and Lateral Support Works & Construction of Tunnel Box Structure for HKBCF to Airport Tunnel West (Cut & Cover Tunnel)	Portion X
Sub-structure & superstructure works for Highway Operation and Maintenance Area Building	Portion X
Superstructure works for Scenic Hill Tunnel West Portal Ventilation Buildingilding	West Portal
Excavation for Scenic Hill Tunnel	West Portal

2 EM&A Requirement

2.1 Summary of EM&A Requirements

2.1.1 The EM&A programme requires environmental monitoring of air quality, noise, water quality, dolphin monitoring and mudflat monitoring as specified in the approved EM&A Manual.

2.1.2 A summary of Impact EM&A requirements is presented in **Table 2.1**. The locations of air quality, noise and water quality monitoring stations are shown as in **Figure 2.1**. The transect line layout in Northwest and Northeast Lantau Survey Areas is presented in **Figure 2.2**.

Table 2.1 Summary of Impact EM&A Requirements

Environmental Monitoring	Description	Monitoring Station	Frequencies	Remarks
Air Quality	1-hr TSP	AMS 5 & AMS 6	At least 3 times every 6 days	While the highest dust impact was expected.
	24-hr TSP		At least once every 6 days	--
Noise	L_{eq} (30mins), L_{10} (30mins) and L_{90} (30mins)	NMS5	At least once per week	Daytime on normal weekdays (0700-1900 hrs).
Water Quality	• Depth • Temperature • Salinity • Dissolved Oxygen (DO) • Suspended Solids (SS) • DO Saturation • Turbidity • pH	• Impact Stations: IS5, IS(Mf)6, IS7, IS8, IS(Mf)9 & IS10, • Control/Far Field Stations: CS2 & CS(Mf)5, • Sensitive Receiver Stations: SR3, SR4, SR5, SR10A & SR10B	Three times per week during mid-ebb and mid-flood tides (within ± 1.75 hour of the predicted time)	3 (1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth is less than 6 m, in which case the mid-depth station may be omitted. Should the water depth be less than 3 m, only the mid-depth station will be monitored).
Dolphin	Line-transect Methods	Northeast Lantau survey area and Northwest Lantau survey area	Twice per month	--
Mudflat	Horseshoe crabs, seagrass beds, intertidal soft shore communities, sedimentation rates and water quality	San Tau and Tung Chung Bay	Once every 3 months	--

2.2 Action and Limit Levels

2.2.1 **Table 2.2** presents the Action and Limit Levels for the 1-hour TSP, 24-hour TSP and noise level.

Table 2.2 Action and Limit Levels for 1-hour TSP, 24-hour TSP and Noise

Environmental Monitoring	Parameters	Monitoring Station	Action Level	Limit Level
Air Quality	1-hr TSP	AMS 5	352 µg/m^3	500 µg/m^3
		AMS 6	360 µg/m^3	
	24-hr TSP	AMS 5	164 µg/m^3	260 µg/m^3
		AMS 6	173 µg/m^3	
Noise	$L_{eq\ (30\ min)}$	NMS 5	When one documented complaint is received	75 dB(A)

2.2.2 The Action and Limit Levels for water quality monitoring are given as in **Table 2.3**.

Table 2.3 Action and Limit Levels for Water Quality

Parameter (unit)	Water Depth	Action Level	Limit Level
Dissolved Oxygen (mg/L)	Surface and Middle	5.0	4.2 except 5 for Fish Culture Zone
	Bottom	4.7	3.6
Turbidity (NTU)	Depth average	27.5 or 120% of upstream control station's turbidity at the same tide of the same day; The action level has been amended to "27.5 ***and*** 120% of upstream control station's turbidity at the same tide of the same day" since 25 March 2013.	47.0 or 130% of turbidity at the upstream control station at the same tide of same day; The limit level has been amended to "47.0 ***and*** 130% of turbidity at the upstream control station at the same tide of same day" since 25 March 2013.
Suspended Solid (SS) (mg/L)	Depth average	23.5 or 120% of upstream control station's SS at the same tide of the same day; The action level has been amended to "23.5 ***and*** 120% of upstream control station's SS at the same tide of the same day" since 25 March 2013.	34.4 or 130% of SS at the upstream control station at the same tide of same day and 10mg/L for Water Services Department Seawater Intakes; The limit level has been amended to "34.4 ***and*** 130% of SS at the upstream control station at the same tide of same day and 10mg/L for Water Services Department Seawater Intakes" since 25 March 2013

Notes:
(1) Depth-averaged is calculated by taking the arithmetic means of reading of all three depths.
(2) For DO, non-compliance of the water quality limit occurs when monitoring result is lower that the limit.
(3) For SS & turbidity non-compliance of the water quality limits occur when monitoring result is higher than the limits.
(4) The change to the Action and limit Levels for Water Quality Monitoring for the EM&A works was approved by EPD on 25 March 2013. Therefore, the amended Action and Limit Levels are applied for the water monitoring results obtained on and after 25 March 2013.

2.2.3 The Action and Limit Levels for dolphin monitoring are shown in **Tables 2.4 and 2.5**.

Table 2.4 Action and Limit Level for Dolphin Impact Monitoring

	North Lantau Social Cluster	
	NEL	**NWL**
Action Level	STG < 70% of baseline & ANI < 70% of baseline	STG < 70% of baseline & ANI < 70% of baseline
Limit Level	STG < 40% of baseline & ANI < 40% of baseline	

Remarks:

(1) STG means quarterly average encounter rate of number of dolphin sightings.
(2) ANI means quarterly average encounter rate of total number of dolphins.
(3) For North Lantau Social Cluster, AL will be triggered if either NEL or NWL fall below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.

Table 2.5 Derived Value of Action Level (AL) and Limit Level (LL)

	North Lantau Social Cluster	
	NEL	**NWL**
Action Level	STG < 4.2 & ANI < 15.5	STG < 6.9 & ANI < 31.3
Limit Level	(STG < 2.4 & ANI < 8.9) and (STG < 3.9 & ANI < 17.9)	

Remarks:

(1) STG means quarterly average encounter rate of number of dolphin sightings.
(2) ANI means quarterly average encounter rate of total number of dolphins.
(3) For North Lantau Social Cluster, AL will be triggered if either NEL or NWL fall below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.

2.3 Event Action Plans

2.3.1 The Event Actions Plans for air quality, noise, water quality and dolphin monitoring are annexed in **Appendix D.**

2.4 Mitigation Measures

2.4.1 Environmental mitigation measures for the contract were recommended in the approved EIA Report. **Appendix E** lists the recommended mitigation measures and the implementation status.

3 Environmental Monitoring and Audit

3.1 Implementation of Environmental Measures

3.1.1 In response to the site audit findings, the Contractor have rectified all observations identified in environmental site inspections undertaken during the reporting period. Details of site audit findings and the corrective actions during the reporting period are presented in **Appendix F**.

3.1.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix E**.

3.1.3 Regular marine travel route for marine vessels were implemented properly in accordance to the submitted plan and relevant records were kept properly.

3.1.4 Dolphin Watching Plan was implemented during the reporting period. No dolphins inside the silt curtain were observed. The relevant records were kept properly.

3.2 Air Quality Monitoring Results

3.2.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in **Tables 3.1** and **3.2** respectively. Detailed impact air quality monitoring results and relevant graphical plots are presented in **Appendix G**.

Table 3.1 Summary of 1-hour TSP Monitoring Results Obtained During the Reporting Period

Reporting Period	Monitoring Station	Average (µg/m^3)	Range (µg/m^3)	Action Level (µg/m^3)	Limit Level (µg/m^3)
December 2016	AMS5	75	32 – 168	352	500
	AMS6	72	30 – 136	360	
January 2017	AMS5	101	19 – 286	352	
	AMS6	91	38 – 205	360	
February 2017	AMS5	107	32 – 191	352	
	AMS6	138	54 – 329	360	

Table 3.2 Summary of 24-hour TSP Monitoring Results Obtained During the Reporting Period

Reporting Period	Monitoring Station	Average (µg/m^3)	Range (µg/m^3)	Action Level (µg/m^3)	Limit Level (µg/m^3)
December 2016	AMS5	117	52 – 148	164	260
	AMS6	111	79 – 167	173	
January 2017	AMS5	65	45 – 89	164	
	AMS6	74	45 – 98	173	
February 2017	AMS5	72	36 – 98	164	
	AMS6	75	52 – 104	173	

3.2.2 No Action/ Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at AMS5 and AMS6 during the reporting period.

3.3 Noise Monitoring Results

3.3.1 The monitoring results for construction noise are summarized in **Table 3.3** and the monitoring results and relevant graphical plots for this reporting period are provided in **Appendix H.**

Table 3.3 Summary of Construction Noise Monitoring Results Obtained During the Reporting Period

Reporting period	Monitoring Station	Average L_{eq} (30 mins), dB(A)*	Range of L_{eq} (30 mins), dB(A)*	Action Level	Limit Level L_{eq} (30 mins), dB(A)

December 2016	NMS5	61	60 – 61	When one documented complaint is received	75
January 2017		59	58 – 60		
February 2017		61	58 – 63		

*A correction factor of +3dB(A) from free field to facade measurement was included.

3.3.2 There were no Action and Limit Level exceedances for noise during daytime on normal weekdays of the reporting period.

3.3.3 Major noise sources during the noise monitoring included construction activities of the Contract and nearby traffic noise and insect noise.

3.4 Water Quality Monitoring Results

3.4.1 Impact water quality monitoring was conducted at all designated monitoring stations during the reporting period. Impact water quality monitoring results and relevant graphical plots are provided in **Appendix I**.

3.4.2 During the reporting period, three Action Level exceedances of suspended solids were recorded at stations IS(Mf)6, IS7 and SR4 during mid-flood tide on 14 December 2016 respectively. An Action Level exceedance of suspended solids was recorded at station SR10B during mid-ebb tide on 15 February 2017. Record of “Notification of Environmental Quality Limit Exceedances” is provided in **Appendix M**. No Action/ Limit Level exceedances of turbidity and dissolved oxygen level were recorded during the reporting period. No Limit Level exceedances of suspended solids level were recorded during the reporting period.

3.4.3 Water quality impact sources during the water quality monitoring were the construction activities of the Contract, nearby construction activities by other parties and nearby operating vessels by other parties.

3.5 Dolphin Monitoring Results

Data Analysis

3.5.1 Distribution Analysis – The line-transect survey data was integrated with the Geographic Information System (GIS) in order to visualize and interpret different spatial and temporal patterns of dolphin distribution using sighting positions. Location data of dolphin groups were plotted on map layers of Hong Kong using a desktop GIS (ArcView© 3.1) to examine their distribution patterns in details. The dataset was also stratified into different subsets to examine distribution patterns of dolphin groups with different categories of group sizes, young calves and activities.

3.5.2 Encounter rate analysis – Encounter rates of Chinese white dolphins (number of on-effort sightings per 100 km of survey effort, and total number of dolphins sighted on-effort per 100 km of survey effort) were calculated in NEL and NWL survey areas in relation to the amount of survey effort conducted during each month of monitoring survey. Dolphin encounter rates were calculated in two ways for comparisons with the HZMB baseline monitoring results as well as to AFCD long-term marine mammal monitoring results.

3.5.3 Firstly, for the comparison with the HZMB baseline monitoring results, the encounter rates were calculated using primary survey effort alone, and only data collected under Beaufort 3 or below condition would be used for encounter rate analysis. The average encounter rate of sightings (STG) and average encounter rate of dolphins (ANI) were deduced based on the encounter rates from six events during the present quarter (i.e. six sets of line-transect surveys in North Lantau), which was also compared with the one deduced from the six events during the baseline period (i.e. six sets of line-transect surveys in North Lantau).

3.5.4 Secondly, the encounter rates were calculated using both primary and secondary survey effort collected under Beaufort 3 or below condition as in AFCD long-term monitoring study. The encounter rate of sightings and dolphins were deduced by dividing the total number of on-effort sightings (STG) and total number of dolphins (ANI) by the amount of survey effort for the present quarterly period.

3.5.5 Quantitative grid analysis on habitat use – To conduct quantitative grid analysis of habitat use, positions of on-effort sightings of Chinese White Dolphins collected during the quarterly impact phase monitoring period were plotted onto 1-km^2 grids among NWL and NEL survey areas on GIS. Sighting densities (number of on-effort sightings per km^2) and dolphin densities (total number of dolphins from on-effort sightings per km^2) were then calculated for each 1 km by 1 km grid with the aid of GIS. Sighting density grids and dolphin density grids were then further normalized with the amount of survey effort conducted within each grid. The total amount of survey effort spent on each grid was calculated by examining the survey coverage on each line-transect survey to determine how many times the grid was surveyed during the study period. For example, when the survey boat traversed through a specific grid 50 times, 50 units of survey effort were counted for that grid. With the amount of survey effort calculated for each grid, the sighting density and dolphin density of each grid were then normalized (i.e. divided by the unit of survey effort).

3.5.6 The newly-derived unit for sighting density was termed SPSE, representing the number of on-effort **s**ightings **p**er 100 units of **s**urvey **e**ffort. In addition, the derived unit for actual dolphin density was termed DPSE, representing the number of **d**olphins **p**er 100 units of **s**urvey **e**ffort. Among the 1-km^2 grids that were partially covered by land, the percentage of sea area was calculated using GIS tools, and their SPSE and DPSE values were adjusted accordingly. The following formulae were used to estimate SPSE and DPSE in each 1-km^2 grid within the study area:

$$SPSE = ((S / E) \times 100) / SA\%$$
$$DPSE = ((D / E) \times 100) / SA\%$$

where S = total number of on-effort sightings
D = total number of dolphins from on-effort sightings
E = total number of units of survey effort
SA% = percentage of sea area

3.5.7 Behavioural analysis – When dolphins were sighted during vessel surveys, their behaviour was observed. Different activities were categorized (i.e. feeding, milling/resting, traveling, socializing) and recorded on sighting datasheets. This data was then input into a separate database with sighting information, which can be used to determine the distribution of behavioural data with a desktop GIS. Distribution of sightings of dolphins engaged in different activities and behaviours would then be plotted on GIS and carefully examined to identify important areas for different activities of the dolphins.

3.5.8 Ranging pattern analysis – Location data of individual dolphins that occurred during the 3-month baseline monitoring period were obtained from the dolphin sighting database and photo-identification catalogue. To deduce home ranges for individual dolphins using the fixed kernel methods, the program Animal Movement Analyst Extension, was loaded as an extension with ArcView© 3.1 along with another extension Spatial Analyst 2.0. Using the fixed kernel method, the program calculated kernel density estimates based on all sighting positions, and provided an active interface to display kernel density plots. The kernel estimator then calculated and displayed the overall ranging area at 95% UD level.

Summary of Survey Effort and Dolphin Sightings

3.5.9 During the period of December 2016 to February 2017, six sets of systematic line-transect vessel surveys were conducted to cover all transect lines in NWL and NEL survey areas twice per month.

3.5.10 From these surveys, a total of 878.35 km of survey effort was collected, with 86.5% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility). Among the two areas, 340.00 km and 538.35 km of survey effort were conducted in NEL and NWL survey areas respectively.

3.5.11 The total survey effort conducted on primary lines was 632.39 km, while the effort on secondary lines was 245.96 km. Survey effort conducted on both primary and secondary lines were considered as on-effort survey data. A summary table of the survey effort is shown in **Annex I of Appendix J**.

3.5.12 During the six sets of monitoring surveys in December 2016 to February 2017, a total of 17 groups of 62 Chinese White Dolphins were sighted. A summary table of the dolphin sightings is shown in **Annex II of Appendix J**.

3.5.13 For the present quarterly period, 14 of the 17 dolphin sightings were made during on-effort search, while all except one on-effort dolphin sightings were made on primary lines. In addition, all dolphin groups were sighted in NWL, and no dolphin was sighted at all in NEL. In fact, since August 2014, only two sightings of two lone dolphins were made respectively in NEL during HKLR03 monitoring surveys.

Distribution

3.5.14 Distribution of dolphin sightings made during monitoring surveys in December 2016 to February 2017 is shown in **Figure 1 of Appendix J**.

3.5.15 Dolphin sightings made in the present quarter were mainly located to the north of Lung Kwu Chau and at the northwestern end of NWL survey area (**Figure 1 of Appendix J**). A few sightings were also made to the west of airport platform adjacent to the western territorial boundary (**Figure 1 of Appendix J**). On the other hand, the dolphins were completely absent from the central and western portions of North Lantau waters as in previous quarters (**Figure 1 of Appendix J**).

3.5.16 All dolphin sightings were located far away from the HKBCF and HKLR03 reclamation sites as well as along the alignment of Tuen Mun-Chek Lap Kok Link (TMCLKL). However, two dolphin groups were sighted adjacent to the HKLR09 alignment near Sham Wat (**Figure 1 of Appendix J**).

3.5.17 Sighting distribution of dolphins during the present impact phase monitoring period (December 2016 to February 2017) was drastically different from the one during the baseline monitoring period (September to November 2011) (**Figure 1 of Appendix J**). In the present quarter, dolphins have disappeared from the NEL region, which was in stark contrast to their frequent occurrence around the Brothers Islands, near Shum Shui Kok and in the vicinity of HKBCF reclamation site during the baseline period (Figure 1). The nearly complete abandonment of NEL region by the dolphins has been consistently recorded in the past 16 quarters of HKLR03 monitoring, which has resulted in zero to extremely low dolphin encounter rates in this area.

3.5.18 In NWL survey area, dolphin occurrence was also significantly different between the baseline and impact phase periods. During the present impact monitoring period, much fewer dolphins occurred in this survey area (mostly to the north of Lung Kwu Chau at the northwestern corner of the survey area) than during the baseline period, when many dolphin groups were frequently sighted between Lung Kwu Chau and Black Point, around Sha Chau, near Pillar Point and to the west of the Chek Lap Kok Airport (**Figure 1 of Appendix J**).

3.5.19 Another comparison in dolphin distribution was made between the five quarterly periods of winter months in 2012-17 (**Figure 2 of Appendix J**). Among the five winter periods, dolphins were regularly sighted in NWL waters in 2012-13 and 2013-14, but their usage there has gradually diminished in the three subsequent winter periods, with the only occurrences mostly concentrated within and around the Sha Chau and Lung Kwu Chau Marine Park (**Figure 2 of Appendix J**).

Encounter Rate

3.5.20 During the present three-month study period, the encounter rates of Chinese White Dolphins deduced from the survey effort and on-effort sighting data from the primary transect lines under favourable conditions (Beaufort 3 or below) for each set of the surveys in NEL and NWL are shown in **Table 3.4**. The average encounter rates deduced from the six sets of surveys were also compared with the ones deduced from the baseline monitoring period (September – November 2011) (See **Table 3.5**).

3.5.21 To facilitate the comparison with the AFCD long-term monitoring results, the encounter rates were also calculated for the present quarter using both primary and secondary survey effort. The encounter rates of sightings (STG) and dolphins (ANI) in NWL were 2.91 sightings and 10.73 dolphins per 100 km of survey effort respectively, while the encounter rates of sightings (STG) and dolphins (ANI) in NEL were both nil for this quarter.

Table 3.4 Dolphin Encounter Rates (Sightings Per 100 km of Survey Effort) During Reporting Period (December 2016 – February 2017)

Survey Area	Dolphin Monitoring	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
Northeast Lantau	Set 1 (1 & 6 Dec 2016)	0.00	0.00
	Set 2 (16 & 19 Dec 2016)	0.00	0.00
	Set 3 (10 & 12 Jan 2017)	0.00	0.00
	Set 4 (16 & 20 Jan 2017)	0.00	0.00
	Set 5 (7 & 9 Feb 2017)	0.00	0.00
	Set 6 (16 & 21 Feb 2017)	0.00	0.00
Northwest Lantau	Set 1 (1 & 6 Dec 2016)	1.58	1.58
	Set 2 (16 & 19 Dec 2016)	5.99	22.45
	Set 3 (10 & 12 Jan 2017)	0.00	0.00
	Set 4 (16 & 20 Jan 2017)	6.27	20.38
	Set 5 (7 & 9 Feb 2017)	0.00	0.00
	Set 6 (16 & 21 Feb 2017)	8.99	42.71

Table 3.5 **Comparison of average dolphin encounter rates from impact monitoring period (December 2016 – February 2017) and baseline monitoring period (September – November 2011)**

Survey Area	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)	
	December 2016 – February 2017	September – November 2011	December 2016 – February 2017	September – November 2011
Northeast Lantau	0.0	6.00 ± 5.05	0.0	22.19 ± 26.81
Northwest Lantau	3.80 ± 3.79	9.85 ± 5.85	14.52 ± 17.21	44.66 ± 29.85

Notes:
1) The encounter rates deduced from the baseline monitoring period have been recalculated based only on the survey effort and on-effort sighting data made along the primary transect lines under favourable conditions.
2) ± denotes the standard deviation of the average encounter rates.

3.5.22 In NEL, the average dolphin encounter rates (both STG and ANI) in the present three-month impact monitoring period were both zero with no on-effort sighting being made, and such extremely low occurrence of dolphins in NEL have been consistently recorded in the past 16 quarters of HKLR03 monitoring (**Table 3.6**). This is a serious concern as the dolphin occurrence in NEL in the past few years (0.0-1.0 for ER(STG) and 0.0-3.9 for ER(ANI)) have remained exceptionally low when compared to the baseline period (**Table 3.6**). Dolphins have been virtually absent from NEL waters since January 2014, with only three groups of six dolphins sighted there since then despite consistent and intensive survey effort being conducted in this survey area.

Table 3.6 **Comparison of Average Dolphin Encounter Rates in Northeast Lantau Survey Area from All Quarters of Impact Monitoring Period and Baseline Monitoring Period (Sep – Nov 2011)**

Monitoring Period	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)
September-November 2011 (Baseline)	6.00 ± 5.05	22.19 ± 26.81
December 2012-February 2013 (Impact)	3.14 ± 3.21*	6.33 ± 8.64*
March-May 2013 (Impact)	0.42 ± 1.03	0.42 ± 1.03
June-August 2013 (Impact)	0.88 ± 1.36	3.91 ± 8.36
September-November 2013 (Impact)	1.01 ± 1.59	3.77 ± 6.49
December 2013-February 2014 (Impact)	0.45 ± 1.10*	1.34 ± 3.29*
March-May 2014 (Impact)	0.00	0.00
June-August 2014 (Impact)	0.42 ± 1.04	1.69 ± 4.15
September-November 2014 (Impact)	0.00	0.00
December 2014-February 2015 (Impact)	0.00*	0.00*
March-May 2015 (Impact)	0.00	0.00
June-August 2015 (Impact)	0.44 ± 1.08	0.44 ± 1.08

Monitoring Period	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)
September-November 2015 (Impact)	0.00	0.00
December 2015-February 2016 (Impact)	0.00*	0.00*
March-May 2016 (Impact)	0.00	0.00
June-August 2016 (Impact)	0.00	0.00
September-November 2016 (Impact)	0.00	0.00
December 2016-February 2017 (Impact)	0.00*	0.00*

Notes:
1) The encounter rates deduced from the baseline monitoring period have been recalculated based only on survey effort and on-effort sighting data made along the primary transect lines under favourable conditions.
2) ± denotes the standard deviation of the average encounter rates.
3) The encounter rates in winter months were in blue and marked with asterisk.

3.5.23 On the other hand, the average dolphin encounter rates (STG and ANI) in NWL during the present impact phase monitoring period (reductions of 61.4% and 67.5% respectively) were only small fractions of the ones recorded during the three-month baseline period, indicating a dramatic decline in dolphin usage of this survey area as well during the present impact phase period (**Table 3.7**).

3.5.24 During the same winter quarters, dolphin encounter rates in NWL during 2016-17 was slightly higher than the previous two winter periods, but was still much lower than the ones in the winter periods of 2012-13 and 2013-14 (**Table 3.7**). Such temporal trend should be closely monitored in the upcoming monitoring quarters whether the dolphin occurrence would continue to increase as the construction activities of HZMB works have been mostly completed in coming months.

Table 3.7 Comparison of Average Dolphin Encounter Rates in Northwest Lantau Survey Area from All Quarters of Impact Monitoring Period and Baseline Monitoring Period (Sep – Nov 2011)

Monitoring Period	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)
September-November 2011 (Baseline)	9.85 ± 5.85	44.66 ± 29.85
December 2012-February 2013 (Impact)	8.36 ± 5.03*	35.90 ± 23.10*
March-May 2013 (Impact)	7.75 ± 3.96	24.23 ± 18.05
June-August 2013 (Impact)	6.56 ± 3.68	27.00 ± 18.71
September-November 2013 (Impact)	8.04 ± 1.10	32.48 ± 26.51
December 2013-February 2014 (Impact)	8.21 ± 2.21*	32.58 ± 11.21*
March-May 2014 (Impact)	6.51 ± 3.34	19.14 ± 7.19
June-August 2014 (Impact)	4.74 ± 3.84	17.52 ± 15.12
September-November 2014 (Impact)	5.10 ± 4.40	20.52 ± 15.10

December 2014-February 2015 (Impact)	2.91 ± 2.69*	11.27 ± 15.19*
March-May 2015 (Impact)	0.47 ± 0.73	2.36 ± 4.07
June-August 2015 (Impact)	2.53 ± 3.20	9.21 ± 11.57
September-November 2015 (Impact)	3.94 ± 1.57	21.05 ± 17.19
December 2015-February 2016 (Impact)	2.64 ± 1.52*	10.98 ± 3.81*
March-May 2016 (Impact)	0.98 ± 1.10	4.78 ± 6.85
June-August 2016 (Impact)	1.72 ± 2.17	7.48 ± 10.98
September-November 2016 (Impact)	2.86 ± 1.98	10.89 ± 10.98
December 2016-February 2017 (Impact)	3.80 ± 3.79*	14.52 ± 17.21*

Notes:
1) The encounter rates deduced from the baseline monitoring period have been recalculated based only on survey effort and on-effort sighting data made along the primary transect lines under favourable conditions.
2) ± denotes the standard deviation of the average encounter rates.
3) The encounter rates in winter months were in blue and marked with asterisk.

3.5.25 As recently discussed in Hung (2016), the dramatic decline in dolphin usage of NEL waters in the past few years (including the declines in abundance, encounter rate and habitat use in NEL, as well as shifts of individual core areas and ranges away from NEL waters) was possibly related to the HZMB construction works that were commenced since 2012. It appeared that such noticeable decline has already extended to NWL waters progressively in the past few years, and with no sign of recovery even the HZMB-related construction activities has well past the peak.

3.5.26 A two-way ANOVA with repeated measures and unequal sample size was conducted to examine whether there were any significant differences in the average encounter rates between the baseline and impact monitoring periods. The two variables that were examined included the two periods (baseline and impact phases) and two locations (NEL and NWL).

3.5.27 For the comparison between the baseline period and the present quarter (17th quarter of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.0110 and 0.0440 respectively. If the alpha value is set at 0.05, significant differences were detected between the baseline and present quarters in both the average dolphin encounter rates of STG and ANI.

3.5.28 For the comparison between the baseline period and the cumulative quarters in impact phase (i.e. the first 17 quarters of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.000003 and 0.000001 respectively. Even if the alpha value is set at 0.00001, significant differences were still detected in both the average dolphin encounter rates of STG and ANI (i.e. between the two periods and the locations).

3.5.29 As indicated in both dolphin distribution patterns and encounter rates, dolphin usage has been significantly reduced in both NEL and NWL survey areas during the present quarterly period, and such low occurrence of dolphins has also been consistently documented in previous quarters. This raises serious concern, as the timing of the decline in dolphin usage in North Lantau waters coincided well with the construction schedule of the HZMB-related projects (Hung 2016).

3.5.30 To ensure the continuous usage of North Lantau waters by the dolphins, every possible measure should be implemented by the contractors and relevant authorities of HZMB-related works to minimize all disturbances to the dolphins.

Group Size

3.5.31 Group size of Chinese White Dolphins ranged from one to eight individuals per group in North Lantau region during December 2016 to February 2017. The average dolphin group sizes from these three months were compared with the ones deduced from the baseline period in September to November 2011, as shown in **Table 3.8**.

Table 3.8 Comparison of Average Dolphin Group Sizes between Reporting Period (Dec 2016 – Feb 2017) and Baseline Monitoring Period (Sep – Nov 2011)

Survey Area	**Average Dolphin Group Size**	
	Reporting Period	**Baseline Monitoring Period**
Overall	3.65 ± 2.37 (n = 17)	3.72 ± 3.13 (n = 66)
Northeast Lantau	---	3.18 ± 2.16 (n = 17)
Northwest Lantau	3.65 ± 2.37 (n = 17)	3.92 ± 3.40 (n = 49)

Note:

1) ± denotes the standard deviation of the average group size.

3.5.32 The average dolphin group size in NWL waters during December 2016 to February 2017 was slightly lower than the one recorded during the three-month baseline period (**Table 3.8**). Most of these dolphin groups were composed of 1-4 individuals only, while there were five medium-sized groups of 5-8 individuals.

3.5.33 Distribution of the larger dolphin groups (i.e. five individuals or more per group) during the present quarter is shown in **Figure 3 of Appendix J**, with comparison to the one in baseline period. During the winter months of 2016-17, the five medium-sized groups were sighted to the north of Lung Kwu Chau, near Sha Chau, and to the west of the airport platform (**Figure 3 of Appendix J**). Such distribution pattern was very different from the baseline period, when the larger dolphin groups were more frequently sighted and more evenly distributed in NWL waters, with a few more sighted in NEL waters (**Figure 3 of Appendix J**).

Habitat Use

3.5.34 From December 2016 to February 2017, the more important habitats utilized by Chinese White Dolphins were mostly concentrated around Lung Kwu Chau and to the north of the island (**Figures 4a and 4b of Appendix J**). Two grids located to the west of the airport platform and adjacent to HKLR09 alignment also recorded moderate to high densities of dolphins. On the contrary, all grids near HKLR03/ HKBCF reclamation sites as well as TMCLKL alignment did not record any presence of dolphins at all during on-effort search in the present quarterly period (**Figures 4a and 4b of Appendix J**).

3.5.35 However, it should be emphasized that the amount of survey effort collected in each grid during the three-month period was fairly low (6-12 units of survey effort for most grids), and therefore the habitat use pattern derived from the three-month dataset should be treated with caution. A more complete picture of dolphin habitat use pattern should be examined when more survey effort for each grid will be collected throughout the impact phase monitoring programme.

3.5.36 When compared with the habitat use patterns during the baseline period, dolphin usage in NEL and NWL has drastically diminished in both areas during the present impact monitoring period (**Figure 5 of Appendix J**). During the baseline period, many grids between Siu Mo To and Shum Shui Kok in NEL recorded moderately high to high dolphin densities, which was in stark contrast to the complete absence of dolphins there during the present impact phase period (**Figure 5 of Appendix J**).

3.5.37 The density patterns were also very different in NWL between the baseline and impact phase monitoring periods, with higher dolphin usage throughout the area, especially around Sha Chau, near Black Point, to the west of the airport, as well as between Pillar Point and airport platform during the baseline period. In contrast, the only areas with moderate to high dolphin densities were restricted to the waters near Lung Kwu Chau during the present impact phase period (Figure 5 of Appendix J).

Mother-calf Pairs

3.5.38 During the present quarterly period, three unspotted juveniles were sighted with their mothers in the North Lantau region. These sightings of young calves were located near Sha Chau and to the west of the airport platform (**Figure 6 of Appendix J**).

3.5.39 The infrequent occurrence of young calves in the present quarter was very different from their regular occurrence in North Lantau waters during the baseline period (**Figure 6 of Appendix J**). This should be of a serious concern, and the occurrence of young calves in North Lantau waters should be closely monitored in the upcoming quarters.

Activities and Associations with Fishing Boats

3.5.40 Four of the 17 dolphin groups were engaged in feeding activities, while none of them was engaged in socializing, traveling or milling/resting activity during the three-month study period.

3.5.41 The percentage of sightings associated with feeding activities (23.5%) was much higher than the one recorded during the baseline period (11.6%). However, it should be noted the sample size on total numbers of dolphin sightings during the present quarter (17 dolphin groups) was much lower than the baseline period (66 dolphin groups).

3.5.42 Distribution of dolphins engaged in various activities during the present impact phase period and the baseline period is shown in **Figure 6 of Appendix J**. The four dolphin groups engaged in feeding activities were sighted around Lung Kwu Chau, Sha Chau as well as to the west of Shum Wat adjacent to the HKLR09 alignment during the present quarterly period, which was very different from the baseline period when various dolphin activities occurred throughout the North Lantau region (**Figure 6 of Appendix J**).

3.5.43 Notably, none of the 17 dolphin groups was found to be associated with any operating fishing vessel during the present impact phase period.

Summary Photo-identification works

3.5.44 From December 2016 to February 2017, over 2,100 digital photographs of Chinese White Dolphins were taken during the impact phase monitoring surveys for the photo-identification work.

3.5.45 In total, 26 individuals sighted 43 times altogether were identified (see summary table in Appendix III and photographs of identified individuals in **Annex IV of Appendix J**). All of these re-sightings were made in NWL. Nine individuals (NL46, NL98, NL104, NL136, NL182, NL210, NL321 WL145 and WL275) were re-sighted twice, while two individuals (NL202 and NL286) were both re-sighted five times during the three-month period (**Annex III of Appendix J**).

3.5.46 Notably, six of these 26 individuals (CH105, NL98, NL120, NL123, NL182 and NL226) were also sighted in West Lantau waters during the HKLR09 monitoring surveys from December 2016 to February 2017, showing their extensive individual movements across different survey areas.

Individual range use

3.5.47 Ranging patterns of the 26 individuals identified during the three-month study period were determined by fixed kernel method, and are shown in **Annex V of Appendix J**.

3.5.48 All identified dolphins sighted in the present quarter were utilizing NWL waters only, but have completely avoided NEL waters where many of them have utilized as their core areas in the past (**Annex V of Appendix J**). This is in contrary to the extensive movements between NEL and NWL survey areas observed in the earlier impact monitoring quarters as well as the baseline period.

3.5.49 On the other hand, several individuals (NL98, NL120, NL123, NL182 and NL226) consistently utilized North Lantau waters in the past have extended their range use to WL during the present quarter. In the upcoming quarters, individual range use and movements should be continuously monitored to examine whether there has been any consistent shifts of individual home ranges from North Lantau to West or Southwest Lantau, as such shift could possibly be related to the HZMB-related construction works (see Hung 2015, 2016).

Conclusion

3.5.50 During the present quarter of dolphin monitoring, no adverse impact from the activities of this construction project on Chinese White Dolphins was noticeable from general observations.

3.5.51 Although dolphins rarely occurred in the area of HKLR03 construction in the past and during the baseline monitoring period, it is apparent that dolphin usage has been dramatically reduced in NEL since 2012, and many individuals have shifted away completely from the important habitat around the Brothers Islands.

3.5.52 It is critical to continuously monitor the dolphin usage in North Lantau region in the upcoming quarters, to determine whether the dolphins are continuously affected by the various construction activities in relation to the HZMB-related works, and whether suitable mitigation measure can be applied to revert the situation.

References

3.5.53 Buckland, S. T., Anderson, D. R., Burnham, K. P., Laake, J. L., Borchers, D. L., and Thomas, L. 2001. Introduction to distance sampling: estimating abundance of biological populations. Oxford University Press, London.

3.5.54 Hung, S. K. 2008. Habitat use of Indo-Pacific humpback dolphins (*Sousa chinensis*) in Hong Kong. Ph.D. dissertation. University of Hong Kong, Hong Kong, 266 p.

3.5.55 Hung, S. K. 2015. Monitoring of marine mammals in Hong Kong waters – data collection: final report (2014-15). An unpublished report submitted to the Agriculture, Fisheries and Conservation Department of Hong Kong SAR Government, 198 pp.

3.5.56 Hung, S. K. 2016. Monitoring of marine mammals in Hong Kong waters – data collection: final report (2015-16). An unpublished report submitted to the Agriculture, Fisheries and Conservation Department of Hong Kong SAR Government, 163 pp.

3.5.57 Jefferson, T. A. 2000. Population biology of the Indo-Pacific hump-backed dolphin in Hong Kong waters. Wildlife Monographs 144:1-65.

3.6 Mudflat Monitoring Results

Sedimentation Rate Monitoring

3.6.1 The baseline sedimentation rate monitoring was in September 2012 and impact sedimentation rate monitoring was undertaken on 7 December 2016. The mudflat surface levels at the four established monitoring stations and the corresponding XYZ HK1980 GRID coordinates are presented in **Table 3.9** and **Table 3.10.**

Table 3.9 Measured Mudflat Surface Level Results

	Baseline Monitoring (September 2012)			Impact Monitoring (December 2016)		
Monitoring Station	**Easting (m)**	**Northing (m)**	**Surface Level (mPD)**	**Easting (m)**	**Northing (m)**	**Surface Level (mPD)**
S1	810291.160	816678.727	0.950	810291.174	816678.732	1.102
S2	810958.272	815831.531	0.864	810958.273	815831.508	0.961
S3	810716.585	815953.308	1.341	810716.583	815953.287	1.456
S4	811221.433	816151.381	0.931	811221.428	816151.395	1.058

Table 3.10 Comparison of Measurement

	Comparison of measurement			Remarks and Recommendation
Monitoring Station	**Easting (m)**	**Northing (m)**	**Surface Level (mPD)**	
S1	0.0014	0.005	0.152	Level continuously increased
S2	0.0001	-0.023	0.097	Level continuously increased
S3	-0.002	-0.021	0.115	Level continuously increased
S4	-0.005	0.014	0.127	Level continuously increased

3.6.2 This measurement result was generally and relatively higher than the baseline measurement at S1, S2, S3 and S4. The mudflat level is continuously increased.

Water Quality Monitoring

3.6.3 The mudflat monitoring covered water quality monitoring data. Reference was made to the water quality monitoring data of the representative water quality monitoring station (i.e. SR3) as in the EM&A Manual. The water quality monitoring location (SR3) is shown in **Figure 2.1**.

3.6.4 Impact water quality monitoring in San Tau (monitoring station SR3) was conducted in December 2016. The monitoring parameters included dissolved oxygen (DO), turbidity and suspended solids (SS).

3.6.5 The Impact monitoring result for SR3 were extracted and summarised below:

Table 3.11 Impact Water Quality Monitoring Results (Depth Average)

Date	Mid Ebb Tide			Mid Flood Tide		
	DO (mg/L)	**Turbidity (NTU)**	**SS (mg/L)**	**DO (mg/L)**	**Turbidity (NTU)**	**SS (mg/L)**
2-Dec-16	7.19	6.55	4.95	6.90	7.20	11.60
5-Dec-16	7.14	7.10	7.50	6.80	7.05	9.00
7-Dec-16	6.90	7.35	16.50	7.30	10.15	19.50
9-Dec-16	6.98	4.35	8.85	7.22	5.20	7.45
12-Dec-16	7.27	3.80	5.15	7.51	7.15	8.00
14-Dec-16	7.69	2.55	7.15	7.65	2.20	14.30
16-Dec-16	8.30	3.10	7.45	7.81	3.60	8.40

Date	Mid Ebb Tide			Mid Flood Tide		
	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
19-Dec-16	7.74	4.30	7.15	8.04	4.40	6.75
21-Dec-16	7.53	6.85	9.85	7.64	6.90	8.25
23-Dec-16	7.56	3.70	5.10	7.88	5.15	4.20
26-Dec-16	7.96	3.45	4.75	8.37	3.20	5.90
28-Dec-16	8.55	3.85	7.50	8.51	5.20	7.90
30-Dec-16	8.68	4.35	10.50	8.53	6.10	11.00
Average	7.65	4.72	7.88	7.70	5.65	9.40

Mudflat Ecology Monitoring

Sampling Zone

3.6.6 In order to collect baseline information of mudflats in the study site, the study site was divided into three sampling zones (labeled as TC1, TC2, TC3) in Tung Chung Bay and one zone in San Tau (labeled as ST) (**Figure 2.1 of Appendix O**). The horizontal shoreline of sampling zones TC1, TC2, TC3 and ST were about 250 m, 300 m, 300 m and 250 m respectively. Survey of horseshoe crabs, seagrass beds and intertidal communities were conducted in every sampling zone. The present survey was conducted in December 2016 (totally 6 sampling days between 3rd and 19th December 2016).

Horseshoe Crabs

3.6.7 Active search method was conducted for horseshoe crab monitoring by two experienced surveyors in every sampling zone. During the search period, any accessible and potential area would be investigated for any horseshoe crab individuals within 2-3 hours of low tide period (tidal level below 1.2 m above Chart Datum (C.D.)). Once a horseshoe crab individual was found, the species was identified referencing to Li (2008). The prosomal width, inhabiting substratum and respective GPS coordinate were recorded. A photographic record was taken for future investigation. Any grouping behavior of individuals, if found, was recorded. The horseshoe crab surveys were conducted on 5th (for TC3 and ST) and 19th (for TC1 and TC2) December 2016. The weather was generally warm and sunny on 5th December while it was cloudy and windy on 19th December.

Seagrass Beds

3.6.8 Active search method was conducted for seagrass bed monitoring by two experienced surveyors in every sampling zone. During the search period, any accessible and potential area would be investigated for any seagrass beds within 2-3 hours of low tide period. Once seagrass bed was found, the species, estimated area, estimated coverage percentage and respective GPS coordinates were recorded. The seagrass beds surveys were conducted on 5th (for TC3 and ST) and 19th (for TC1 and TC2) December 2016. The weather was generally warm and sunny on 5th December while it was cloudy and windy on 19th December.

Intertidal Soft Shore Communities

3.6.9 The intertidal soft shore community surveys were conducted in low tide period on 3rd (for TC2), 4th (for TC3), 17th (for ST) and 18th (for TC1) December 2016. In every sampling zone, three 100m horizontal transect lines were laid at high tidal level (H: 2.0 m above C.D.), mid tidal level (M: 1.5 m above C.D.) and low tidal level (L: 1.0 m above C.D.). Along every horizontal transect line, ten random quadrats (0.5 m x 0.5 m) were placed.

3.6.10 Inside a quadrat, any visible epifauna were collected and were in-situ identified to the lowest practical taxonomical resolution. Whenever possible a hand core sample (10 cm internal diameter × 20 cm depth) of sediments was collected in the quadrat. The core sample was gently washed through a sieve of mesh size 2.0 mm in-situ. Any visible infauna were collected and identified. Finally the top 5 cm surface sediments was dug for visible infauna in the quadrat regardless of hand core sample was taken.

3.6.11 All collected fauna were released after recording except some tiny individuals that are too small to be identified on site. These tiny individuals were taken to laboratory for identification under dissecting microscope.

3.6.12 The taxonomic classification was conducted in accordance to the following references: Polychaetes: Fauchald (1977), Yang and Sun (1988); Arthropods: Dai and Yang (1991), Dong (1991); Mollusks: Chan and Caley (2003), Qi (2004).

Data Analysis

3.6.13 Data collected from direct search and core sampling was pooled in every quadrat for data analysis. Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) were calculated for every quadrat using the formulae below,

$H' = -\Sigma (Ni / N) \ln (Ni / N)$ (Shannon and Weaver, 1963)
$J = H' / \ln S$, (Pielou, 1966)

where S is the total number of species in the sample, N is the total number of individuals, and Ni is the number of individuals of the i^{th} species.

Mudflat Ecology Monitoring Results and Conclusion

Horseshoe Crabs

3.6.14 In the present survey, two species of horseshoe crab *Carcinoscorpius rotundicauda* (total 70 ind.) and *Tachypleus tridentatus* (total 24 ind.) were recorded in TC3 and ST only. For one sight record, grouping of 2-19 individuals was observed at same locations with similar substratum (fine sand or soft mud). Photo records were shown in **Figure 3.1 of Appendix O** while the complete survey records were listed in **Annex II of Appendix O**.

3.6.15 **Table 3.1 of Appendix O** summarizes the survey results of horseshoe crab in present survey. For Carcinoscorpius rotundicauda, there were 27 and 43 individuals in TC3 and ST respectively. For ST, the search record was the higher (7.2 ind. hr-1 person-1) while the average body size was 44.05 mm (prosomal width ranged 25.61-66.22 mm). The search record of TC3 was 4.5 ind. hr-1 person-1 with average body size 41.68 mm (prosomal width ranged 16.85-65.73 mm).

3.6.16 For *Tachypleus tridentatus*, there were 17 and 7 individuals in TC3 and ST respectively. For TC3, the search record was higher (2.8 ind. hr^{-1} $person^{-1}$) while the average body size was 39.13 mm (prosomal width ranged 20.40-64.24 mm). For ST, the search record was 1.2 ind. hr^{-1} $person^{-1}$ while the average body size was 44.79 mm (prosomal width ranged 41.50-52.57 mm).

3.6.17 In the previous survey of March 2015, there was one important finding that a mating pair of *Carcinoscorpius rotundicauda* was found in ST (prosomal width: male 155.1 mm, female 138.2 mm) **(Figure 3.2 of Appendix O)**. It indicated the importance of ST as a breeding ground of horseshoe crab. Moreover, two moults of *Carcinoscorpius rotundicauda* were found in TC1 with similar prosomal width 130-140 mm **(Figure 3.2 of Appendix O)**. It reflected that a certain numbers of moderately sized individuals inhabited the sub-tidal habitat of Tung Chung Wan after its nursery period on soft shore. These individuals might move onto soft shore during high tide for foraging, moulting and breeding. Then it would return to sub-tidal habitat during ebb tide. Because the mating pair should be inhabiting sub-tidal habitat in most of the time. The record was excluded from the data analysis to avoid mixing up with juvenile population living on soft shore. In another previous survey of Jun. 2016, the records of the two big individuals of *Carcinoscorpius rotundicauda* (prosomal width 117.37 mm and 178.17 mm) in TC1 were excluded from data analysis according to the same principle.

3.6.18 No marked individual of horseshoe crab was recorded in present survey. Some marked individuals were found in previous surveys conducted in Sep. 2013, Mar. 2014 and Sep. 2014. All of them were released through a conservation programme conducted by Prof. Paul Shin (Department of Biology and Chemistry, The City University of Hong Kong (CityU)). It was a re-introduction trial of artificial bred horseshoe crab juvenile at selected sites. So that the horseshoe crabs population might be restored in the natural habitat. Through a personal conversation with Prof. Shin, about 100 individuals were released in the sampling zone ST on 20 June 2013. All of them were marked with color tape and internal chip detected by specific chip sensor. There should be second round of release between June and September 2014 since new marked individuals were found in the survey of September 2014.

3.6.19 The artificial bred individuals, if found, would be excluded from the results of present monitoring programme in order to reflect the changes of natural population. However, the mark on their prosoma might have been detached during moulting after a certain period of release. The artificially released individuals were no longer distinguishable from the natural population without the specific chip sensor. The survey data collected would possibly cover both natural population and artificially bred individuals.

Population difference among the sampling zones

3.6.20 **Figures 3.3 and 3.4 of Appendix O** show the changes of number of individuals, mean prosomal width and search record of horseshoe crabs *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* respectively in every sampling zone throughout the monitoring period.

3.6.21 Throughout the monitoring conducted, it was obvious that TC3 and ST (western shore of Tung Chung Wan) was an important nursery ground for horseshoe crab especially newly hatched individuals due to larger area of suitable substratum (fine sand or soft mud) and less human disturbance (far from urban district). Relatively, other sampling zones were not a suitable nursery ground especially TC2. Possible factors were less area of suitable substratum (especially TC1) and higher human disturbance (TC1 and TC2: close to urban district and easily accessible). In TC2, large daily salinity fluctuation was a possible factor either since it was flushed by two rivers under tidal inundation. The individuals inhabiting TC1 and TC2 were confined in small foraging area due to limited area of suitable substrata.

3.6.22 For TC3 and ST, high to medium search records (i.e. number of individuals) of both species were always found. The search record of ST was higher from Sep. 2012 to Jun. 2014 while it was replaced by TC3 from Sep. 2014 to Jun. 2015. The search records were similar between two sampling zones from Sep. 2015 to Jun. 2016. In Sep. 2016, the search record of *Carcinoscorpius rotundicauda* in ST was much higher than TC3. In the present survey (Dec. 2016), the search records of both species were similar again between two sampling zones. It reflected a natural variation of horseshoe crab population in these two zones due to weather condition and tidal effect during the survey.

3.6.23 For TC1, the search record was at low to medium level throughout the monitoring period. The change of *Carcinoscorpius rotundicauda* was relatively more variable than that of *Tachypleus tridentatus.* Relatively, the search record was very low in TC2 (2 ind. in Sep. 2013; 1 ind. in Mar., Jun., Sep. 2014, Mar. and Jun. 2015; 4 ind. in Sep. 2015; 6 ind. in Jun. 2016; 1 ind. in Sep. 2016).

3.6.24 About the body size, larger individuals of *Carcinoscorpius rotundicauda* were usually found in ST and TC1 relative to those in TC3. For *Tachypleus tridentatus*, larger individuals were usually found in ST followed by TC3 and TC1.

3.6.25 Throughout the monitoring period, it was obvious that TC3 and ST (western shore of Tung Chung Wan) was an important nursery ground for horseshoe crab especially newly hatched individuals due to larger area of suitable substratum (fine sand or soft mud) and less human disturbance (far from urban district). Relatively, other sampling zones were not a suitable nursery ground especially TC2. Possible factors were less area of suitable substratum (especially TC1) and higher human disturbance (TC1 and TC2: close to urban district and easily accessible). In TC2, large daily salinity fluctuation was a possible factor either since it was flushed by two rivers under tidal inundation. The individuals inhabiting TC1 and TC2 were confined in small foraging area due to limited area of suitable substrata.

Seasonal variation of horseshoe crab population

3.6.26 Throughout the monitoring period conducted, the search record of horseshoe crab declined obviously during dry season especially December (**Figures 3.3 and 3.4 of Appendix O**). In Dec. 2012, 4 individuals of *Carcinoscorpius rotundicauda* and 12 individuals of *Tachypleus tridentatus* were found only. In Dec. 2013, no individual of horseshoe crab was found. In Dec. 2014, 2 individuals of *Carcinoscorpius rotundicauda* and 8 individuals of *Tachypleus tridentatus* were found only. In Dec. 2015, 2 individuals of Carcinoscorpius rotundicauda, 6 individuals of *Tachypleus tridentatus* and one newly hatched, unidentified individual were found only. The horseshoe crabs were inactive and burrowed in the sediments during cold weather (<15 ºC). Similar results of low search record in dry season were reported in a previous territory-wide survey of horseshoe crab. For example, the search records in Tung Chung Wan were 0.17 ind. hr^{-1} $person^{-1}$ and 0.00 ind. hr^{-1} $person^{-1}$ in wet season and dry season respectively (details see Li, 2008). Relatively the serach records were much higher in the present survey (Dec. 2016). There were totally 70 individuals of *Carcinoscorpius rotundicauda* and 24 individuals of *Tachypleus tridentatus* in TC3 and ST. Because the survey was arranged in early December while the weather was warm with sunlight (~22 °C during dawn according to Hong Kong Observatory database, Chek Lap Kok station on 5 Dec). In contrast, there was no search record in TC1 and TC2 because the survey was conducted in mid December with colder and cloudy weather (~20 °C during dawn on 19 Dec). The horseshoe crab activity would decrease gradually during December and would increase with the warmer climate during March to April.

3.6.27 From Sep. 2012 to Dec. 2013, *Carcinoscorpius rotundicauda* was a less common species relative to *Tachypleus tridentatus*. Only 4 individuals were ever recorded in ST in Dec. 2012. This species had ever been believed of very low density in ST hence the encounter rate was very low. Since Mar. 2014, it was found in all sampling zones with higher abundance in ST. Based on its average size (mean prosomal width 39.28-49.81 mm), it indicated that breeding and spawning of this species had occurred about 3 years ago along the coastline of Tung Chun Wan. However, these individuals were still small while their walking trails were inconspicuous. Hence there was no search record in previous sampling months. Since Mar. 2014, more individuals were recorded due to larger size and higher activity (i.e. more conspicuous walking trail).

3.6.28 For *Tachypleus tridentatus*, sharp increase of number of individuals was recorded in ST during the wet season of 2013 (from Mar. to Sep.). According to a personal conversation with Prof. Shin (CityU), his monitoring team had recorded similar increase of horseshoe crab population during wet season. It was believed that the suitable ambient temperature increased its conspicuousness. However similar pattern was not recorded in the following wet seasons. The number of individuals increased in Mar. and Jun. 2014 followed by a rapid decline in Sep. 2014. Then the number of individuals fluctuated slightly in TC3 and ST until Dec. 2016 (present survey). Apart from natural mortality, migration from nursery soft shore to subtidal habitat was another possible cause. Since the mean prosomal width of *Tachypleus tridentatus* continued to grow and reached about 50 mm since Mar. 2014. Then it varied slightly between 35-65 mm from Sep. 2014 to Jun. 2016. Most of the individuals might have reached a suitable size strong enough to forage in sub-tidal habitat.

3.6.29 Since TC3 and ST were regarded as important nursery ground for horseshoe crab, box plots of prosomal width of two horseshoe crab species were constructed to investigate the changes of population in details.

Box plot of horseshoe crab populations in TC3

3.6.30 **Figure 3.5 of Appendix O** shows the changes of prosomal width of *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* in TC3. As mentioned above, *Carcinoscorpius rotundicauda* was rarely found between Sep. 2012 and Dec. 2013 hence the data were lacking. In Mar 2014, the major size (50% of individual records between upper and lower quartile) ranged

40-60 mm while only few individuals were found. From Mar. 2014 to Dec. 2016 (present survey), the size of major population decreased and more small individuals were recorded after Mar. of every year. It indicated new rounds of successful breeding and spawning of *Carcinoscorpius rotundicauda* in TC3. It matched with the previous mating record in ST in Mar. 2015. Also there were slight increasing trends of body size from Jun. to Dec. in years 2015 and 2016. It indicated a stable growth of individuals. Focused on much larger individuals (circle dots above the box in the box plots), the size range was quite variable (prosmal width 60-90 mm) along the sampling months. It was yet to determine their size of migrating to sub-tidal habitat in TC3.

3.6.31 For *Tachypleus tridentatus*,the major size ranged 20-50 mm while the number of individuals fluctuated from Sep. 2012 to Jun. 2014. Then a slight but consistent growing trend was observed from Sep. 2014 to Jun. 2015. The prosomal width increased from 25-35 mm to 35-65 mm. As mentioned, the large individuals might have reached a suitable size for migrating from the nursery soft shore to subtidal habitat. It accounted for the declined population in TC3. From Mar. to Sep. 2016, slight increasing trend of major size was noticed again. In Dec. 2016 (present survey), the major size decreased to 25-45 mm. Across the monitoring period, the maximum prosomal width of major population ranged 60-70 mm. It reflected individuals reaching this size would gradually migrate to sub-tidal habitats.

Box plot of horseshoe crab populations in ST

3.6.32 **Figure 3.6 of Appendix O** shows the changes of prosomal width of *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* in ST. As mentioned above, *Carcinoscorpius rotundicauda* was rarely found between Sep. 2012 and Dec. 2013 hence the data were lacking. From Mar. 2014 to Sep. 2016, the size of major population decreased and more small individuals (i.e. circle dots below the box in the box plots) were recorded after Jun. of every year. It indicated new round of successful spawning in ST. It matched with the previous mating record in ST in Mar. 2015. Also there were slight increasing trends of body size from Sep. to Jun. from 2014 to 2016. It indicated a stable growth of individuals. Across the whole monitoring period, the maximum prosomal width (i.e. circle dots above the box in the box plots) usually ranged 70-80 mm. It reflected individuals reaching this size would gradually migrate to sub-tidal habitats.

3.6.33 For *Tachypleus tridentatus*, a consistent growing trend was observed for the major population from Dec. 2012 to Dec. 2014 regardless of change of search record. The prosomal width increased from 15-30 mm to 55-70 mm. As mentioned, the large individuals might have reached a suitable size for migrating from the nursery soft shore to subtidal habitat. From Mar. to Sep. 2015, the size of major population decreased slightly to a prosomal width 40-60 mm. At the same time, the number of individuals decreased gradually. It further indicated some of large individuals might have migrated to sub-tidal habitat, leaving the smaller individuals on shore. There was an overall growth trend. In Dec. 2015, two big individuals (prosomal width 89.27 mm and 98.89 mm) were recorded only while it could not represent the major population. From Dec. 2015 to Mar. 2016, the number of individual was very few in ST that no boxplot could be produced. In Jun. 2016, the prosomal width of major population ranged 50-70 mm. But it dropped clearly to 30-40 mm in Sep. 2016 followed by an increase to 40-50 mm in Dec. 2016 (present survey). Based on overall higher number of small individuals recorded in Jun. and Sep. 2016, it indicated new round of successful spawning in ST. Throughout the monitoring period, the maximum prosomal width of major population ranged 60-70 mm. It reflected individuals reaching this size would gradually migrate to sub-tidal habitats, similar to the finding in TC3.

3.6.34 As a summary for horseshoe crab populations in TC3 and ST, there was successful spawning of *Carcinoscorpius rotundicauda* from 2014 to 2016 while the spawning time should be in spring. There were consistent, increasing trends of population size in these two sampling zones. For *Tachypleus tridentatus*, small individuals were rarely found in TC3 and ST from 2014 to 2015. It was believed no occurrence of successful spawning. The existing individuals (that recorded since 2012) grew to a mature size and migrated to sub-tidal habitat. Hence the number of individuals decreased gradually. In 2016, new round of successful spawning was recorded in ST while increasing number of individuals and body size was noticed.

Impact of the HKLR project

3.6.35 It was the 17th survey of the EM&A programme during the construction period. Based on the results, impact of the HKLR project could not be detected on horseshoe crabs. The population change was mainly determined by seasonal variation while successful spawnings were observed for both species. In case, abnormal phenomenon (e.g. very few numbers of horseshoe crab individuals in wet season, large number of dead individuals on the shore) is found, it would be reported as soon as possible.

Seagrass Beds

3.6.36 In the present survey, seagrass species *Halophila ovalis* and *Zostera japonica* were recorded in TC3 and ST. Photo records were shown in **Figure 3.7 of Appendix O** while the complete records of seagrass beds survey were shown in **Annex III of Appendix O.**

3.6.37 **Table 3.2 of Appendix O** summarizes the results of seagrass beds survey. In TC3, three small patches of *Halophila ovalis* were found in soft mud area at 0.5-1.0 m above C.D. while the total seagrass bed area and vegetation coverage were about 55.1 m^2 (average area 18.4 m^2) and 80%.

3.6.38 In ST, eleven patches of *Halophila ovalis* were found while the total seagrass bed area was about 12550.4 m^2. The seagrass bed area was highly variable among patches. In the soft mud area at 0.5-1.5 m above C.D., the largest patch was an extensive, horizontal strand with area ~10838.3 m^2 and vegetation coverage 70%. It had covered significant portion of the mud flat area in ST (Fig. 3.7). At vicinity, there were seven small-medium, irregular patches (total area 8.1-62.7 m^2, coverage 80-90%). At higher tidal level (2.0 m above C.D.), there were three seagrass patches in the sandy area nearby the seaward mangrove boundary. The largest patch was a horizontal strand with area ~796 m^2 and vegetation coverage 50-70% followed by other two medium patches (area ~135.7-448.8 m^2, coverage 50-80%).

3.6.39 For *Zostera japonica*, there was one medium, horizontal strand only in the sandy area nearby the seaward mangrove boundary. The seagrass bed area and vegetation coverage were about 64.5 m^2 and 50-70%.

3.6.40 Since majority of seagrass bed was confined in ST, the temporal change of both seagrass species were investigated in details.

Temporal variation of seagrass beds

3.6.41 **Figure 3.8 of Appendix O** shows the changes of estimated total area of seagrass beds in ST along the sampling months. For *Zostera japonica*, it was not recorded in the 1st and 2nd surveys of monitoring programme. Seasonal recruitment of few, small patches (total seagrass area: 10 m^2) was found in Mar. 2013 that grew within the large patch of seagrass Halophila ovalis. Then the patch size increased and merged gradually with the warmer climate from Mar. to Jun. 2013 (15 m^2). However the patch size decreased and remained similar from Sep. 2013 (4 m^2) to Mar. 2014 (3 m^2). In Jun. 2014, the patch size increased obviously again (41 m^2) with warmer climate followed by a decrease between Sep. 2014 (2 m^2) and Dec. 2014 (5 m^2). From Mar. to Jun. 2015, the patch size increased sharply again (90 m^2). It might be due to the disappearance of the originally dominant seagrass *Halophila ovalis* resulting in less competition for substratum and nutrients. From Sep.2015 to Jun.2016, it was found coexisting with seagrass *Halophila ovalis* with steady increasing patch size (from 44 m^2 to 115 m^2) and variable coverage. In Sep. 2016, the patch size decreased again to (38 m^2) followed by an increase to a horizontal strand (65 m^2) in Dec. 2016. And it was no longer co-exisitng with Halophila ovalis. From Sep. 2014 to Dec. 2016, an increasing trend was noticed from Sep. to Jun. followed by a rapid decline to Sep. It was possibly the causes of heat stress, typhoon and stronger grazing pressure during wet season.

3.6.42 For *Halophila ovalis*, it was recorded as 3-4 medium to large patches (area 18.9-251.7 m^2; vegetation coverage 50-80%) beside the mangrove vegetation at tidal level 2 m above C.D. in Sep. 2012 (first survey). The total seagrass bed area grew steadily from 332.3 m^2 in Sep. 2012 to 727.4 m^2 in Dec. 2013. Flowers were observed in the largest patch during its flowering period.

In Mar. 2014, 31 small to medium patches were newly recorded (variable area 1-72 m^2 per patch, vegetation coverage 40-80% per patch) in lower tidal zone between 1.0 and 1.5 m above C.D. The total seagrass area increased further to 1350 m^2. In Jun. 2014, these small and medium patches grew and extended to each other. These patches were no longer distinguishable and were covering a significant mudflat area of ST. It was generally grouped into 4 large patches (1116 – 2443 m^2) of seagrass beds characterized of patchy distribution, variable vegetable coverage (40-80%) and smaller leaves. The total seagrass bed area increased sharply to 7629 m^2. In Sep. 2014, the total seagrass area declined sharply to 1111 m^2. There were only 3-4 small to large patches (6-253 m^2) at high tidal level and 1 patch at low tidal level (786 m^2). Typhoon or strong water current was a possible cause (Fong, 1998). In Sep. 2014, there were two tropical cyclone records in Hong Kong (7th-8th Sep.: no cyclone name, maximum signal number 1; 14th-17th Sep.: Kalmaegi, maximum signal number 8SE) before the seagrass survey dated 21st Sep. 2014. The strong water current caused by the cyclone, Kalmaegi especially, might have given damage to the seagrass beds. In addition, natural heat stress and grazing force were other possible causes reducing seagrass beds area. Besides, very small patches of *Halophila ovalis* could be found in other mud flat area in addition to the recorded patches. But it was hardly distinguished due to very low coverage (10-20%) and small leaves.

3.6.43 In Dec. 2014, all the seagrass patches of *Halophila ovalis* disappeared in ST. **Figure 3.9 of Appendix O** shows the difference of the original seagrass beds area nearby the mangrove vegetation at high tidal level between Jun. 2014 and Dec. 2014. Such rapid loss would not be seasonal phenomenon because the seagrass beds at higher tidal level (2.0 m above C.D.) were present and normal in December 2012 and 2013. According to Fong (1998), similar incident had occurred in ST in the past. The original seagrass area had declined significantly during the commencement of the construction and reclamation works for the international airport at Chek Lap Kok in 1992. The seagrass almost disappeared in 1995 and recovered gradually after the completion of reclamation works. Moreover, incident of rapid loss of seagrass area was also recorded in another intertidal mudflat in Lai Chi Wo in 1998 with unknown reason. Hence *Halophila ovalis* was regarded as a short-lived and r-strategy seagrass that could colonize areas in short period but disappears quickly under unfavourable conditions (Fong, 1998).

Unfavourable conditions to seagrass *Halophila ovalis*

3.6.44 Typhoon or strong water current was suggested as one unfavourable condition to *Halophila ovalis* (Fong, 1998). As mentioned above, there were two tropical cyclone records in Hong Kong in September 2014. The strong water current caused by the cyclones might have given damage to the seagrass beds.

3.6.45 Prolonged light deprivation due to turbid water would be another unfavourable condition. Previous studies reported that *Halophila ovalis* had little tolerance to light deprivation. During experimental darkness, seagrass biomass declined rapidly after 3-6 days and seagrass died completely after 30 days. The rapid death might be due to shortage of available carbohydrate under limited photosynthesis or accumulation of phytotoxic end products of anaerobic respiration (details see Longstaff *et al.*, 1999). Hence the seagrass bed of this species was susceptible to temporary light deprivation events such as flooding river runoff (Longstaff and Dennison, 1999).

3.6.46 In order to investigate any deterioration of water quality (e.g. more turbid) in ST, the water quality measurement results at two closest monitoring stations SR3 and IS5 of the EM&A programmewere obtained from the water quality monitoring team. Based on the results from June to December 2014, the overall water quality was in normal fluctuation except there was one exceedance of suspended solids (SS) at both stations in September. On 10th Sep., 2014, the SS concentrations measured during mid-ebb tide at stations SR3 (27.5 mg/L) and IS5 (34.5 mg/L) exceeded the Action Level (≤23.5 mg/L and 120% of upstream control station's reading) and Limit Level (≤34.4 mg/L and 130% of upstream control station's reading) respectively. The turbidity readings at SR3 and IS5 reached 24.8-25.3 NTU and 22.3-22.5 NTU respectively. The temporary turbid water should not be caused by the runoff from upstream rivers. Because there was no rain or slight rain from 1st to 10th Sep. 2014 (daily total rainfall at the Hong Kong International Airport: 0-2.1 mm; extracted from the climatological data of Hong Kong Observatory). The effect of upstream runoff on water quality should be neglectable in that period. Moreover the exceedance of water quality was considered unlikely to be related to the contract works of HKLR according to the 'Notifications of Environmental Quality Limits Exceedances' provided by the respective environmental team. The respective construction of seawall and stone column works, which possibly caused turbid water, were carried out within silt curtain as recommended in the EIA report. Moreover there was no leakage of turbid water, abnormity or malpractice recorded during water sampling. In general, the exceedance of suspended solids concentration was considered to be attributed to other external factors, rather than the contract works.

3.6.47 Based on the weather condition and water quality results in ST, the co-occurrence of cyclone hit and turbid waters in Sep. 2014 might have combined the adverse effects on *Halophila ovalis* that leaded to disappearance of this short-lived and r-strategy seagrass species. Fortunately *Halophila ovalis* was a fast-growing species (Vermaat et al., 1995). Previous studies showed that the seagrass bed could be recovered to the original sizes in 2 months through vegetative propagation after experimental clearance (Supanwanid, 1996). Moreover it was reported to recover rapidly in less than 20 days after dugong herbivory (Nakaoka and Aioi, 1999). As mentioned, the disappeared seagrass in ST in 1995 could recover gradually after the completion of reclamation works for international airport (Fong, 1998). The seagrass beds of *Halophila ovalis* might recolonize the mudflat of ST through seed reproduction as long as there was no unfavourable condition in the coming months.

Recolonization of seagrass beds

3.6.48 **Figure 3.9 of Appendix O** shows the recolonization of seagrass bed area in ST from Dec. 2014 to Dec. 2016 (present survey). From Mar. to Jun. 2015, 2-3 small patches of *Halophila ovalis* were newly found coinhabiting with another seagrass species *Zostera japonica*. But its total patch area was still very low relative to the previous records. The recolonization rate was low while cold weather and insufficient sunlight were possible factors between Dec. 2014 and Mar. 2015. Moreover, it would need to compete with seagrass *Zostera japonica* for substratum and nutrient. Since *Zostera japonica* had extended and had covered the original seagrass bed of *Halophila ovalis* at certain degree. From Jun. 2015 to Mar. 2016, the total seagrass area of *Halophila ovalis* had increased rapidly from 6.8 m^2 to 230.63 m^2. It had recolonized its original patch locations and covered *Zostera japonica*. In Jun. 2016, the total seagrass area increased sharply to 4707.3 m^2. Similar to the previous records of Mar to Jun. 2014, the original patch area increased further to a horizontally long strand. Another large seagrass beds colonized the lower tidal zone (1.0-1.5 m above C.D.). In Sep. 2016, this patch extended much and covered significant soft mud area of ST, resulting in sharp increase of total area (24245 m^2). It indicated the second extensive colonization of this r-strategy seagrass. In Dec. 2016 (present survey), this extensive seagrass patch decreased in size and had separated into few, smaller patches. Moreover, the horizontal strand nearby the mangrove vegetation decreased in size (Fig. 3.9). The total seagrass bed decreased to 12550 m^2. Such decline of seagrass bed area might be similar to the results in Sep-Dec. 2014.

Impact of the HKLR project

3.6.49 It was the 17th survey of the EM&A programme during the construction period. According to the results of present survey, there was clear recolonization of both seagrass species *Halophila ovalis* and *Zostera japonica* in ST. Hence the negative impact of HKLR project on the seagrass was not significant. In Dec. 2016 (present survey), a decline of seagrass bed was noted again but it was yet to deduce the presence of stress factors. In case unfavourable phenomenon (e.g. reduction of seagrass patch size, abnormal change of leave colour) is found presistent, it would be reported as soon as possible.

Intertidal Soft Shore Communities

3.6.50 **Table 3.3 and Figure 3.10 of Appendix O** show the types of substratum along the horizontal transect at every tidal level in all sampling zones. The relative distribution of different substrata was estimated by categorizing the substratum types (Gravels & Boulders / Sands / Soft mud) of the ten random quadrats along the horizontal transect. The distribution of substratum types varied among tidal levels and sampling zones:

- In TC1, the major substratum type was 'Gravels and Boulders' (60%) followed by 'Sands' (40%) at high tidal level. High percentage of 'Gravels and Boulders'(90%) was recorded at the mid and low tidal levels.
- In TC2, the major substrata types were 'Sands' (50-60%) and 'Soft mud' (30-50%) at the high and mid tidal levels. 'Soft mud' was the major substratum type (90%) at the low tidal level.
- In TC3, 'Sands' was the substratum type at the high and mid tidal levels (100%). At low tidal level, 'Gravels and Boulders' (70%) was mainly recorded followed by 'Soft mud' (20%).
- In ST, high percentage of 'Gravels and Boulders' (90-100%) was recorded at high and mid tidal levels. The major substrata types were 'Gravels and Boulders' (50%) and 'Soft mud' (30%) at the low tidal level.

3.6.51 There was neither consistent vertical nor horizontal zonation pattern of substratum type in all sampling zones. Such heterogeneous variation should be caused by different hydrology (e.g. wave in different direction and intensity) received by the four sampling zones.

3.6.52 **Table 3.4 of Appendix O** lists the total abundance, density and number of taxon of every phylum in this survey. A total of 9725 individuals were recorded. Mollusca was clearly the most abundant phylum (total individuals 9231, density 308 ind. m^{-2}, relative abundance 94.9%). The second and third abundant phya were Arthropoda (383 ind., 13 ind. m^{-2}, 3.9%) and Annelida (60 ind., 2 ind. m^{-2}, 0.6%) respectively. Relatively other phyla were very low in abundances (density ≤1 ind. m^{-2}, relative abundance ≤0.2%). Moreover, the most diverse phylum was Mollusca (36 taxa) followed by Arthropoda (13 taxa) and Annelida (9 taxa). There was 1 taxon recorded only for other phyla. The taxonomic resolution and complete list of collected specimens are shown in **Annex IV and V of Appendix O** respectively.

3.6.53 **Table 3.5 of Appendix O** shows the number of individual, relative abundance and density of each phylum in every sampling zone. The total abundance (1650-3245 ind.) varied among the four sampling zones while the phyla distributions were similar. In general, Mollusca was the most dominant phylum (no. of individuals: 1446-3129 ind.; relative abundance 87.6-97.5%; density 193-417 ind. m^{-2}). Other phyla were significantly lower in number of individuals. Arthropoda was the second abundant phylum (28-171 ind.; 1.7-10.4%; 4-23 ind. m^{-2}). Annelida was the third abundant phylum in TC2 and TC3 (19-29 ind.; 0.6-1.8%; 3-4 ind. m^{-2}). Relatively other phyla were low in abundance in all sampling zones (≤ 0.5%).

Dominant species in every sampling zone

3.6.54 **Table 3.6 of Appendix O** lists the abundant species (relative abundance >10%) in every sampling zone. In the present survey, most of the listed abundant species were of low to moderate densities (50-200 ind. m^{-2}). Other listed species of lower density (< 50 ind. m^{-2}) were regared as common species.

3.6.55 In TC1, gastropod *Batillaria multiformis* was highly dominant at very high density (524 ind. m^{-2}, relative abundance 85%) at high tidal level (major substratum: 'Gravels and Boulders'). At mid tidal level (major substratum: 'Gravels and Boulders'), gastropods *Batillaria multiformis* (136 ind. m^{-2}, 37%), *Monodonta labio* (74 ind. m^{-2}, 20%) and rock oyster *Saccostrea cucullata* (95 ind. m^{-2}, 26%, attached on boulders) were abundant at low-moderate densities. At low tidal level (major substratum: 'Gravels and Boulders'), rock oyster *Saccostrea cucullata* (110 ind. m^{-2}, 38%) was the abundant at moderate density followed by common gastropod *Batillaria multiformis* (29 ind. m^{-2}, 10%).

3.6.56 In TC2, gastropods *Cerithidea djadjariensis* (144 ind. m^{-2}, 47%) and *Cerithidea cingulata* (84 ind. m^{-2}, 28%) were abundant at moderate densities at high tidal level (major substratum:

'Sands'). Rock oyster *Saccostrea cucullata* (33 ind. m^{-2}, 11%) was a common species. There was no clearly abundant species at mid and low tidal levels. Rock oyster *Saccostrea cucullata* (64 ind. m^{-2}, 27-53%) and gastropod *Batillaria zonalis* (18-50 ind. m^{-2}, 15-21%) were common at mid (major substratum: 'Sands') and low tidal levels (major substratum: 'Soft mud'). Besides fiddler crab *Uca. sp* (38 ind. m^{-2}, 16%) and gastropod *Cerithidea djadjariensis* (30 ind. m^{-2}, 13%) were also common at mid tidal level.

3.6.57 In TC3, gastropods *Batillaria multiformis* (216 ind. m^{-2}, 44%) and *Cerithidea djadjariensis* (183 ind. m^{-2}, 38%) were abundant at moderate densities at high tidal level (major substrata: 'Sands' and 'Soft mud'). And gastropod *Cerithidea cingulata* (66 ind. m^{-2},13%) was common species. At mid tidal level (major substratum: 'Sands'), gastropod *Cerithidea djadjariensis* (140 ind. m^{-2}, 56%) was abundant at moderate density followed by common gastropods *Batillaria multiformis* (33 ind. m^{-2}, 13%) and *Cerithidea cingulata* (32 ind. m^{-2}, 13%). At low tidal level (major substratum: 'Gravels and Boulders'), rock oyster *Saccostrea cucullata* (262 ind. m^{-2}, 47%) was the most abundant at moderate-high density. Other less abundant species were gastropods *Monodonta labio* (98 ind. m^{-2}, 17%) and *Batillaria multiformis* (67 ind. m^{-2}, 12%).

3.6.58 In ST, no single species was clearly abundant at high tidal level (major substratum: 'Gravels and Boulders'). The relatively abundant species included gastropods *Monodonta labio* (83 ind. m^{-2}, 31%) and *Batillaria multiformis* (62 ind. m^{-2}, 23%). Other common species were gastropod *Lunella coronata* (36 ind. m^{-2}, 13%) and rock oyster *Saccostrea cucullata* (41 ind. m^{-2}, 15%). At mid tidal level (major substratum: 'Gravels and Boulders'), rock oyster *Saccostrea cucullata* (146 ind. m^{-2}, 43%) was abundant at moderate density followed by common gastropods *Lunella coronata* (44 ind. m^{-2}, 13%) and *Monodonta labio* (40 ind. m^{-2}, 12%). At low tidal level (major substratum: 'Sands'), rock oyster *Saccostrea cucullata* (30 ind. m^{-2}, 53%) was the common species only.

3.6.59 In general, there was no consistent zonation pattern of species distribution across all sampling zones and tidal levels. The species distribution should be determined by the type of substratum primarily. In general, gastropods *Batillaria multiformis* (total number of individuals: 2758 ind., relative abundance 28.4%), *Cerithidea djadjariensis* (1409 ind., 14.5%) and *Cerithidea cingulata* (590 ind., 6.1%) were the most commonly occurring species on sandy and soft mud substrata. Rock oyster *Saccostrea cucullata* (2163 ind., 22.2%) and gastropod *Monodonta labio* (855 ind., 8.8%) were commonly occurring species inhabiting gravel and boulders substratum.

Biodiversity and abundance of soft shore communities

3.6.60 **Table 3.7 of Appendix O** shows the mean values of species number, density, biodiversity index (*H')* and species evenness (*J*) of soft shore communities at every tidal level and in every sampling zone. The variations among sampling zones and tidal levels were determined by the type of substratum primarily mentioned above.

3.6.61 Among the sampling zones, the mean species number of TC1 (10 spp. 0.25 m^{-2}) were slightly higher than that of TC2, TC3 and ST (7-8 spp. 0.25 m^{-2}). It was different from previous survey results that the mean species number of ST was usually higher. The mean densities of TC3 and TC1 (422-433 ind. m^{-2}) were higher than TC2 and ST (220-222 ind. m^{-2}). Since the species distribution of ST was more even relatively, the mean *H'* (1.4) and *J* (0.8) were slightly higher than that of TC1, TC2 and TC3 (*H'*: 1.2-1.3, *J*: 0.6-0.7).

3.6.62 Across the tidal levels, there was no consistent difference of the mean species number, density and *H'* in all sampling zones. For the mean *J*, there was a slightly increasing trend from high to low tidal level.

3.6.63 **Figures 3.11 to 3.14 of Appendix O** show the temporal changes of mean species number, mean density, *H'* and *J* at every tidal level and in every sampling zone along the sampling months. In general, all the biological parameters fluctuated seasonally throughout the monitoring period. Lower mean species number and density were recorded in dry season (Dec.) but the mean *H'* and *J* fluctuated within a stable range. There was no unfavourable change observed until the present survey.

Impact of the HKLR project

3.6.64 It was the 17th survey of the EM&A programme during the construction period. Based on the results, impacts of the HKLR project were not detected on intertidal soft shore community. In case, abnormal phenomenon (e.g. rapid or consistent decline of fauna densities and species number) is observed, it would be reported as soon as possible.

3.7 Solid and Liquid Waste Management Status

3.7.1 The Contractor registered with EPD as a Chemical Waste Producer on 12 July 2012 for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

3.7.2 The summary of waste flow table is detailed in **Appendix K**.

3.7.3 The Contractor was reminded that chemical waste containers should be properly treated and stored 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.

3.8 Environmental Licenses and Permits

3.8.1 The valid environmental licenses and permits during the reporting period are summarized in **Appendix L.**

4 Environmental Complaint and Non-compliance

4.1 Environmental Exceedances

4.1.1 The detailed air quality, noise, water quality and dolphin exceedances are provided in **Appendix M**. Also, the summaries of the environmental exceedances are presented as follows:

Air Quality

4.1.2 No Action / Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at AMS5 and AMS6 during the reporting period.

Noise

4.1.3 No Action/ Limit Level exceedances for noise were recorded during daytime on normal weekdays of the reporting period.

Water Quality

4.1.4 For marine water quality monitoring, three Action Level exceedances of suspended solids were recorded at stations IS(Mf)6, IS7, and SR4 during mid-flood tide on 14 December 2016 respectively. An Action Level exceedance of suspended solids was recorded at station SR10B during mid-ebb tide on 15 February 2017. Record of “Notification of Environmental Quality Limit Exceedances” is provided in **Appendix M**. No Action/ Limit Level exceedances of turbidity and dissolved oxygen level were recorded during the reporting period. No Limit Level exceedances of suspended solids level were recorded during the reporting period.

Dolphin

4.1.5 There was one Limit Level exceedance of dolphin monitoring for the quarterly monitoring data (between December 2016 and February 2017). According to the contractor’s information, the marine activities undertaken for HKLR03 during the quarter of December 2016 – February 2017 included piling works, removal of surcharge materials, road and drainage works, temporary drainage diversion, ground investigation, box culvert diversion, construction of permanent sea wall and maintenance of silt curtain.

4.1.6 There is no evidence showing the current LL non-compliance directly related to the construction works of HKLR03 (where the amounts of working vessels for HKLR03 have been decreasing), although the generally increased amount of vessel traffic in NEL during the impact phase has been partly contributed by HKLR03 works since October 2012. It should also be noted that reclamation work under HKLR03 (adjoining the Airport Island) situates in waters which has rarely been used by dolphins in the past, and the working vessels under HKLR03 have been travelling from source to destination in accordance with the Marine Travel Route to minimize impacts on Chinese White Dolphin (CWD). In addition, the contractor will implement proactive mitigation measures such as avoiding anchoring at Marine Department’s designated anchorage site – Sham Shui Kok Anchorage (near Brothers Island) as far as practicable.

4.1.7 All dolphin protective measures are fully and properly implemented in accordance with the EM&A Manual. According to the Marine Travel Route Plan, the travelling speed of vessels must not exceed 5 knots when crossing the edge of the proposed marine park. The Contractor will continue to provide training for skippers to ensure that their working vessels travel from source to destination to minimize impacts on Chinese White Dolphin and avoid anchoring at Marine Department’s designated anchorage site - Sham Shui Kok Anchorage (near Brothers Island) as far as practicable. Also, it is recommended to complete the marine works of the Contract as soon as possible so as to reduce the overall duration of impacts and allow the dolphins population to recover as early as possible. Record of “Notification of Environmental Quality Limit Exceedances” is provided in **Appendix M**.

4.2 Summary of Environmental Complaint, Notification of Summons and Successful Prosecution

4.2.1 There were five complaints received in relation to the environmental impacts during the reporting period. The summary of environmental complaint is presented in **Table 4.1**. Complaint investigations were undertaken and the complaints were unlikely related to Contract No. HY/2011/03. The details of cumulative statistics of Environmental Complaints are provided in **Appendix N**.

Table 4.1 A Summary of Environmental Complaint for the Reporting Period

Environmental Complaint No.	Date of Complaint Received	Description of Environmental Complaint
COM-2016-099	2 December 2016	Slurry on public road
COM-2016-100	14 December 2016	Mud/debris on public road
COM-2016-103 (See Remark 1)	14 December 2016	Noise
COM-2017-104 (See Remark 2)	9 January 2017	Cleanliness problem at East Coast Road and Tung Fai Road
COM-2017-108	23 February 2017 and 2 March 2017	Cleanliness problem at East Coast Road

Remarks:

1.Based on updated information received in February 2017, the environmental complaint no. COM-2016-104 mentioned in Monthly EM&A Report for December 2016 and January 2017 should be COM-2016-103.

2. Based on updated information received in February 2017, the environmental complaint no. COM-2016-105 mentioned in Monthly EM&A Report for January 2017 should be COM-2016-104.

4.2.2 No notification of summons and prosecution was received during the reporting period.

4.2.3 Statistics on notifications of summons and successful prosecutions are summarized in **Appendix M**.

5 Comments, Recommendations and Conclusion

5.1 Comments

5.1.1 According to the environmental site inspections undertaken during the reporting period, the following recommendations were provided:

- The Contractor was reminded to maintain the earth bund at the seafront of S7, S11 properly.
- The Contractor was reminded to maintain the silt curtain properly at Portion X.
- The Contractor was reminded to provide drip tray for the chemical containers at HMA, SHT, S11, S15, S23, S25, N1, N26, N30 and HyD Workshop.
- The Contractor was reminded to remove the stagnant water at S15, N30 and PR9.
- The Contractor was reminded to remove the oil stains on the ground of S25 and in the holes at Shaft 2.
- The Contractor was reminded to remove the accumulated waste at S15, S16, S19, S25 HMA, N1, N30, PR9, and HyD Workshop.
- The Contractor was reminded to cover the cement bags entirely by impervious sheeting at West Portal, HMA and S25.
- The Contractor was reminded to cover the truck properly at S15 and S25.
- The Contractor was reminded not to overload the dump truck at S15.
- The Contractor was reminded to label the chemical waste containers at S25.
- The Contractor was reminded to provide water spraying during concrete breaking at Shaft 3.
- The Contractor was reminded to clean the wastewater treatment facility at S23.
- The Contractor was reminded to remove the mud next to the water-filled barriers at S25 and N1 and the mud storage pit at S16.
- The Contractor was reminded to install filtering material at the discharge of pipe at S16 and S25.
- The Contractor was reminded to provide properly sealed earth bund at S7, S11 and PR9.
- The Contractor was reminded to maintain the broken pipe of the wastewater treatment facility at N1.
- The Contractor was reminded to remove the concrete disposed of on the construction area of S15.
- The Contractor was reminded to maintain the wheel washing facilities and provide cleaning for each vehicle before they leave the construction site at S25.
- The Contractor was reminded to undertake watering on the unpaved road regularly at S25.
- The Contractor was reminded to seal the toe of water-filled barrier properly at N30.
- The Contractor was reminded to remove the sand next to the water-filled barriers on East Coast Road.

5.2 Recommendations

5.2.1 The impact monitoring programme for air quality, noise, water quality and dolphin ensured that any deterioration in environmental condition was readily detected and timely actions taken to rectify any non-compliance. Assessment and analysis of monitoring results collected demonstrated the environmental impacts of the contract. With implementation of the recommended environmental mitigation measures, the contract's environmental impacts were considered environmentally acceptable. The weekly environmental site inspections ensured that all the environmental mitigation measures recommended were effectively implemented.

5.2.2 The recommended environmental mitigation measures, as included in the EM&A programme, effectively minimize the potential environmental impacts from the contract. Also, the EM&A programme effectively monitored the environmental impacts from the construction activities and ensure the proper implementation of mitigation measures. No particular recommendation was advised for the improvement of the programme.

5.3 Conclusions

5.3.1 The construction phase and EM&A programme of the Contract commenced on 17 October 2012. This is the eighteenth Quarterly EM&A Report which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 December 2016 to 28 February 2017.

Air Quality

5.3.2 No Action / Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at AMS5 and AMS6 during the reporting period.

Noise

5.3.3 No Action/Limit Level exceedances for noise were recorded during daytime on normal weekdays of the reporting period.

Water Quality

For marine water quality monitoring, three Action Level exceedances of suspended solids were recorded at stations IS(Mf)6, IS7, and SR4 during mid-flood tide on 14 December 2016 respectively. An Action Level exceedance of suspended solids was recorded at station SR10B during mid-ebb tide on 15 February 2017 No Action/ Limit Level exceedances of turbidity and dissolved oxygen level were recorded during the reporting period. No Limit Level exceedances of suspended solids level were recorded during the reporting period.

Dolphin

5.3.4 There was a Limit Level exceedance of dolphin monitoring for the quarterly monitoring data between December 2016 to February 2017.

5.3.5 During the present quarter of dolphin monitoring, no adverse impact from the activities of this construction project on Chinese White Dolphins was noticeable from general observations.

5.3.6 Although dolphins rarely occurred in the area of HKLR03 construction in the past and during the baseline monitoring period, it is apparent that dolphin usage has been dramatically reduced in NEL since 2012, and many individuals have shifted away completely from the important habitat around the Brothers Islands.

5.3.7 It is critical to continuously monitor the dolphin usage in North Lantau region in the upcoming quarters, to determine whether the dolphins are continuously affected by the various construction activities in relation to the HZMB-related works, and whether suitable mitigation measure can be applied to revert the situation.

Mudflat -Sedimentation Rate

5.3.8 This measurement result was generally and relatively higher than the baseline measurement at S1, S2, S3 and S4. The mudflat level is continuously increased.

Mudflat - Ecology

5.3.9 The December 2016 survey was the seventeenth survey of the EM&A programme during the construction period. Based on the results, impacts of the HKLR project could not be detected on horseshoe crabs, seagrass and intertidal soft shore community.

Environmental Site Inspection and Audit

5.3.10 Environmental site inspection was carried out on 7, 14, 21 and 30 December 2016; 4, 11, 18 and 27 January 2017; and 3, 8, 15, 22 and 28 February 2017. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.

5.3.11 There were five complaints received in relation to the environmental impacts during the reporting period. Complaint investigations were undertaken and the complaints were unlikely related to Contract No. HY/2011/03.

5.3.12 No notification of summons and prosecution was received during the reporting period.

FIGURES

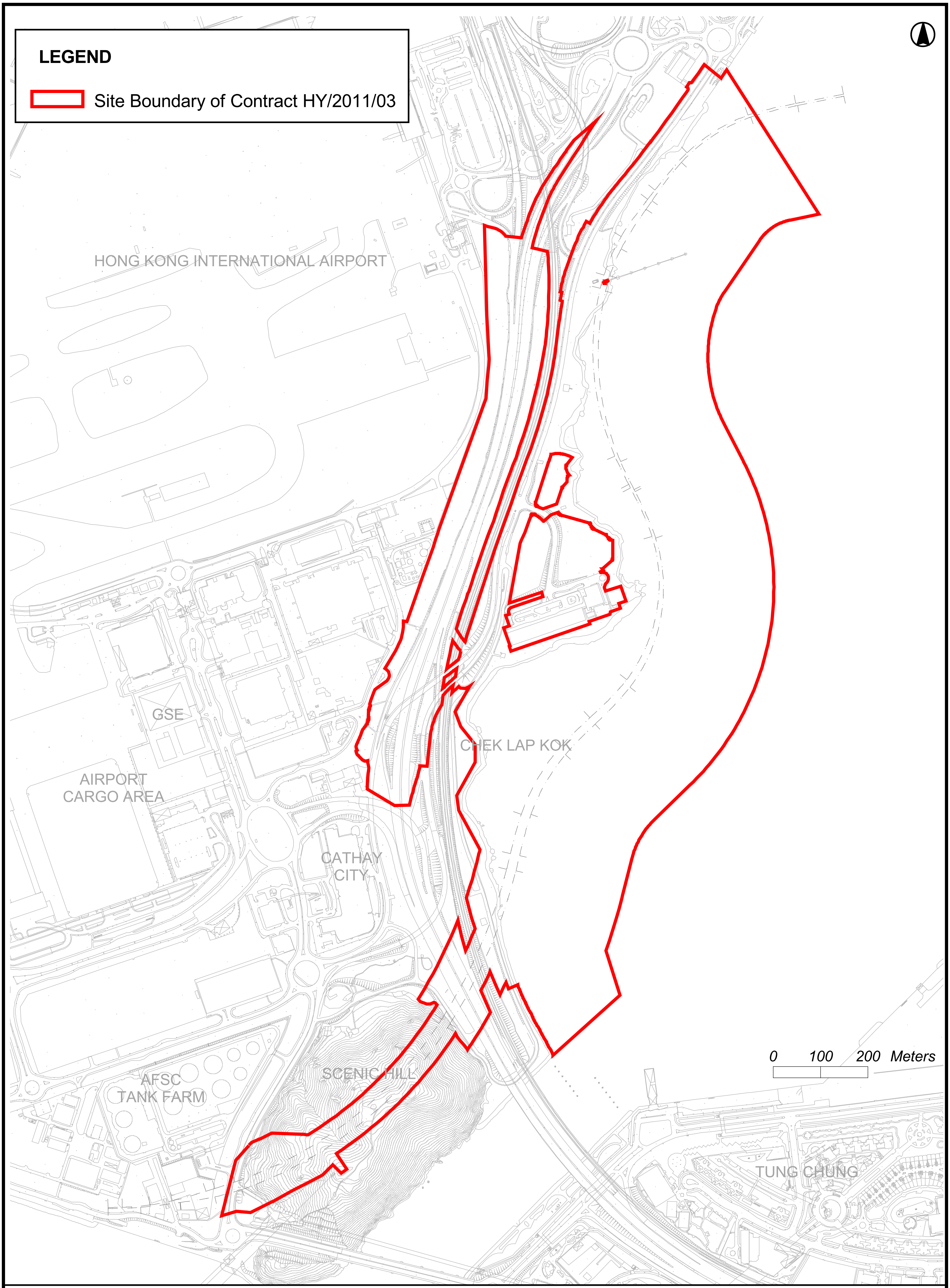
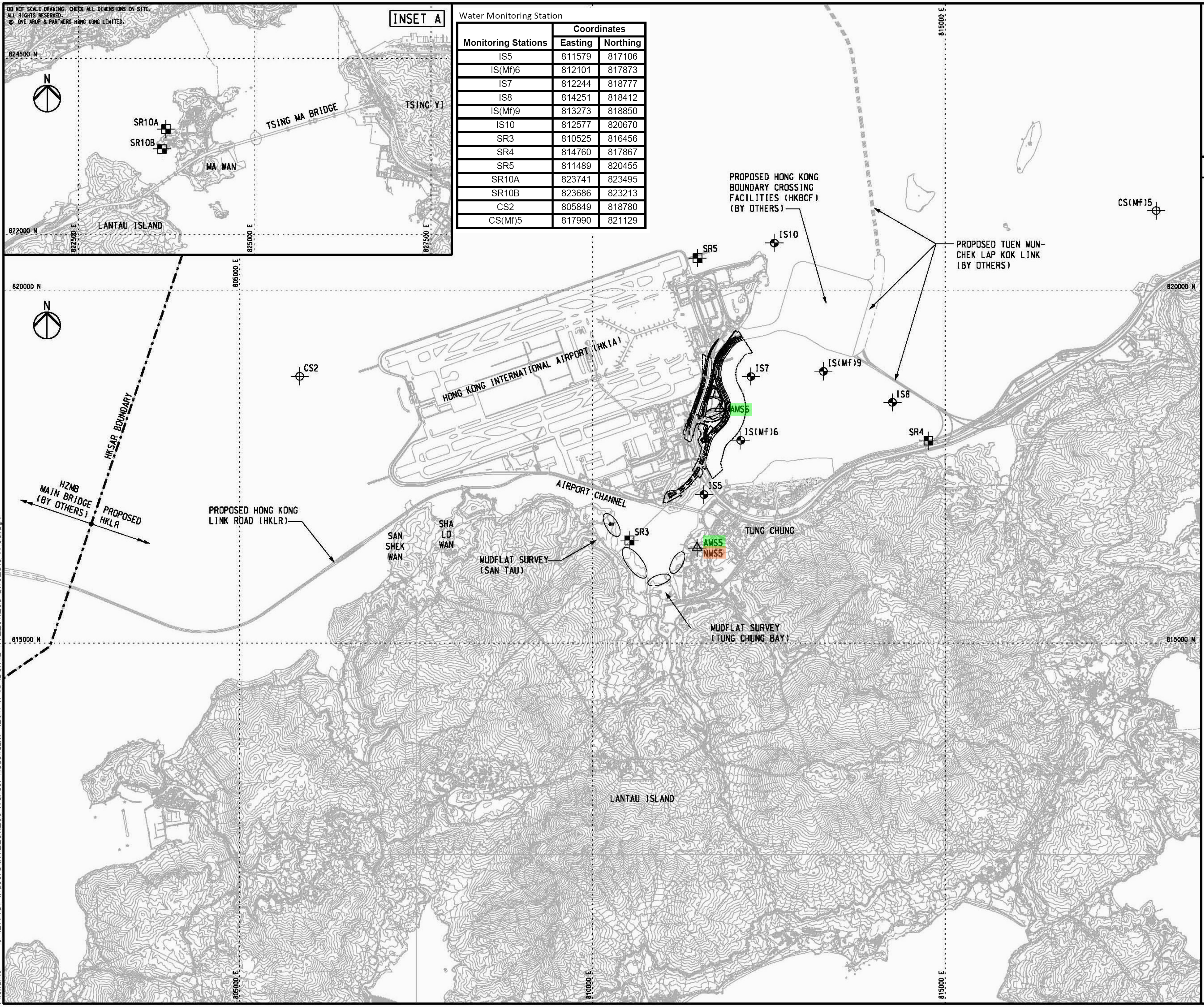
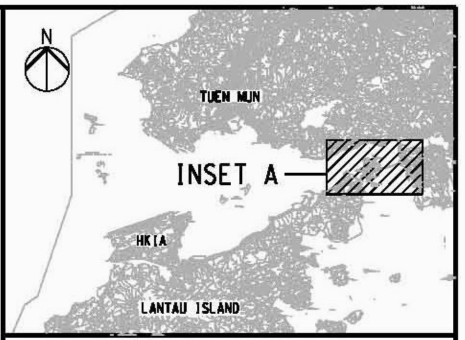


Figure 1.1 Location of the Site

Water Monitoring Station

Monitoring Stations	Coordinates	
	Easting	Northing
IS5	811579	817106
IS(Mf)6	812101	817873
IS7	812244	818777
IS8	814251	818412
IS(Mf)9	813273	818850
IS10	812577	820670
SR3	810525	816456
SR4	814760	817867
SR5	811489	820455
SR10A	823741	823495
SR10B	823686	823213
CS2	805849	818780
CS(Mf)5	817990	821129





KEY PLAN

NOTES

1. EXACT LOCATIONS OF MONITORING STATIONS ARE TO BE DETERMINED ON SITE. THE CONTRACTOR AND ENVIRONMENTAL TEAM (ET) SHALL AGREE WITH THE INDEPENDENT ENVIRONMENTAL CHECKER (IEC) AND ENVIRONMENTAL PROJECT OFFICE (ENPO) AND APPROVED BY THE SUPERVISING OFFICER FOR THE PROPOSED LOCATION OF THE MONITORING STATIONS.
2. THE LOCATION AND EXTENT OF MUDFLAT SURVEY SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. THE CONTRACTOR AND ET SHALL DETERMINE AND AGREE WITH THE IEC, ENPO AND SUPERVISING OFFICER THE DETAILS OF THE MUDFLAT SURVEY IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE EIA REPORTS AND EM&A MANUALS.
3. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS STIPULATED IN THE EM&A MANUALS TO CONDUCT THE ENVIRONMENTAL MONITORING AND AUDIT WORKS.

LEGEND

- - - -	WORKS BOUNDARY OF CONTRACT HY/2011/03
IS	IMPACT STATIONS (WATER QUALITY)
CS	CONTROL/FAR FIELD STATIONS (WATER QUALITY)
SR	SENSITIVE RECEIVERS STATIONS (WATER QUALITY)
ST	STATION FOR SENSITIVITY TEST RESULT (WATER QUALITY)
AMS	MONITORING STATIONS (AIR QUALITY)
NMS	MONITORING STATIONS (NOISE)
⬭	MUDFLAT ECOLOGICAL SAMPLING LOCATION

Rev	Description	By	Date
A	TENDER ADDENDUM ISSUE	AW	11/11

Consultant

ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contract No. and Title:

Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title

ENVIRONMENTAL MONITORING STATIONS

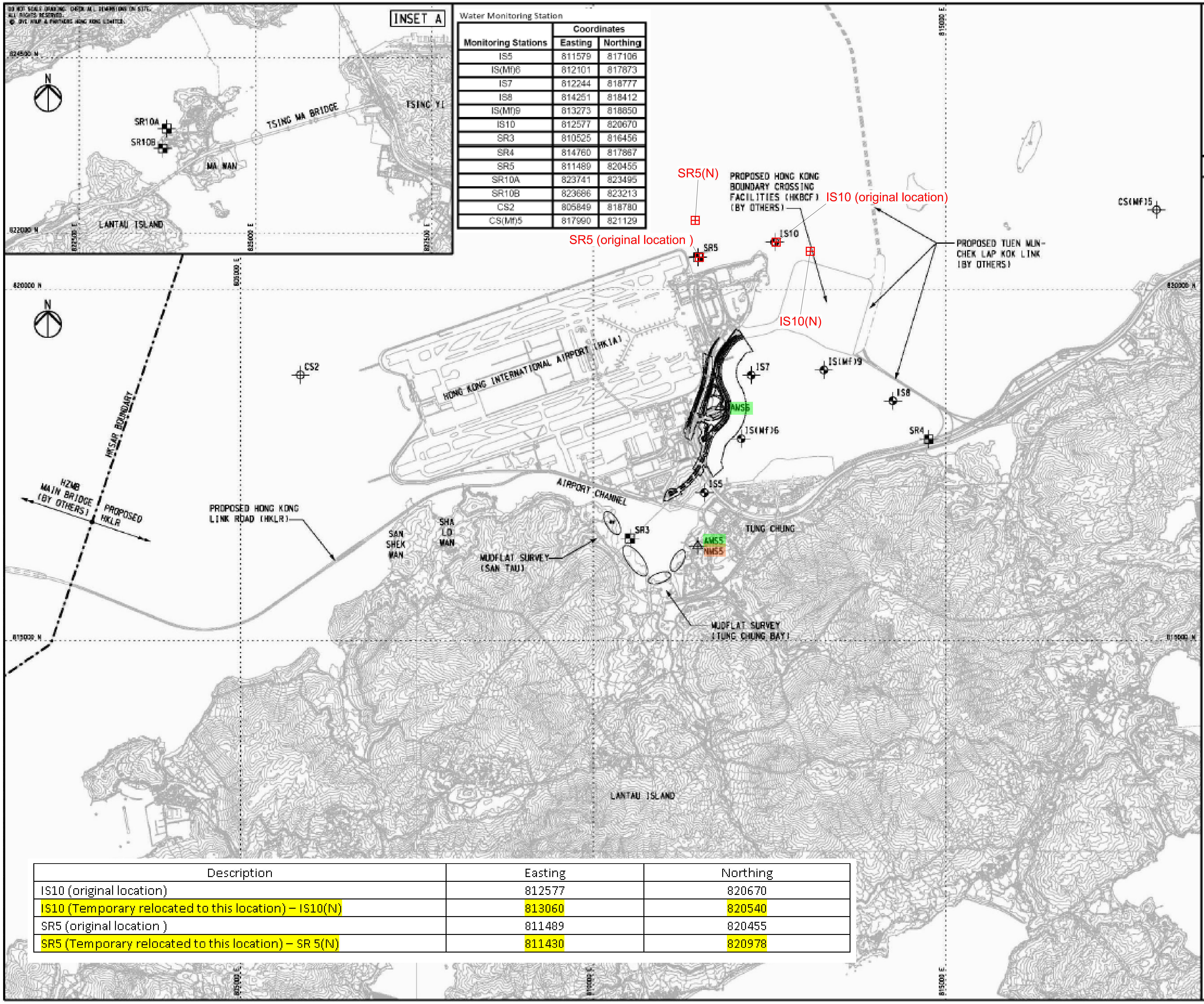
Drawing	Rev.
Figure 2.1	A

Drawn	Date	Checked	Approved
RY	11/11	AW	SK

Scale As shown
Status

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

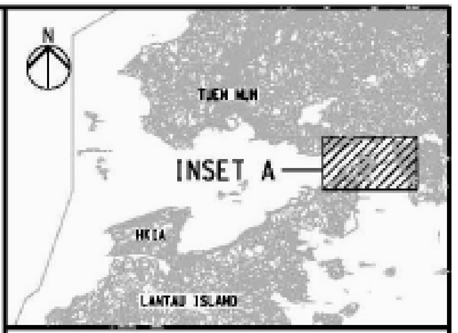
Printed by : 10/11/2011
Filename : J:\214487\Record\HY_2011_03\Tender Addendum (2011-11-11)\DGN\E-HY_2011_03-DRG_310-A-00.dgn



Water Monitoring Station

Monitoring Stations	Coordinates	
	Easting	Northing
IS5	811579	817106
IS(Mf)6	812101	817873
IS7	812244	818777
IS8	814251	818412
IS(Mf)9	813273	818850
IS10	812577	820670
SR3	810525	816456
SR4	814760	817867
SR5	811489	820455
SR10A	823741	823495
SR10B	823686	823213
CS2	805849	818780
CS(Mf)5	817990	821129

Description	Easting	Northing
IS10 (original location)	812577	820670
IS10 (Temporary relocated to this location) – IS10(N)	813060	820540
SR5 (original location)	811489	820455
SR5 (Temporary relocated to this location) – SR 5(N)	811430	820978



KEY PLAN

NOTES

1. EXACT LOCATIONS OF MONITORING STATIONS ARE TO BE DETERMINED ON SITE. THE CONTRACTOR AND ENVIRONMENTAL TEAM (ET) SHALL AGREE WITH THE INDEPENDENT ENVIRONMENTAL CHECKER (IEC) AND ENVIRONMENTAL PROJECT OFFICE (ENPO) AND APPROVED BY THE SUPERVISING OFFICER FOR THE PROPOSED LOCATION OF THE MONITORING STATIONS.
2. THE LOCATION AND EXTENT OF MUDFLAT SURVEY SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. THE CONTRACTOR AND ET SHALL DETERMINE AND AGREE WITH THE IEC, ENPO AND SUPERVISING OFFICER THE DETAILS OF THE MUDFLAT SURVEY IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE EIA REPORTS AND EM&A MANUALS.
3. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS STIPULATED IN THE EM&A MANUALS TO CONDUCT THE ENVIRONMENTAL MONITORING AND AUDIT WORKS.

LEGEND

- - - -	WORKS BOUNDARY OF CONTRACT HY/2011/03
⌖ IS	IMPACT STATIONS (WATER QUALITY)
⌖ CS	CONTROL/FAR FIELD STATIONS (WATER QUALITY)
⊞ SR	SENSITIVE RECEIVERS STATIONS (WATER QUALITY)
⊞ ST	STATION FOR SENSITIVITY TEST RESULT (WATER QUALITY)
△ AMS	MONITORING STATIONS (AIR QUALITY)
△ NMS	MONITORING STATIONS (NOISE)
⬭	MUDFLAT ECOLOGICAL SAMPLING LOCATION

A	TENDER ADDENDUM ISSUE	AW	11/11
Rev	Description	By	Date

Consultant
ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contract No. and Title
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title
ENVIRONMENTAL MONITORING
STATIONS

Drawing Figure 2.1
Rev. A

Drawn	Date	Checked	Approved
RY	11/11	AR	SK

Scale As shown
Status

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

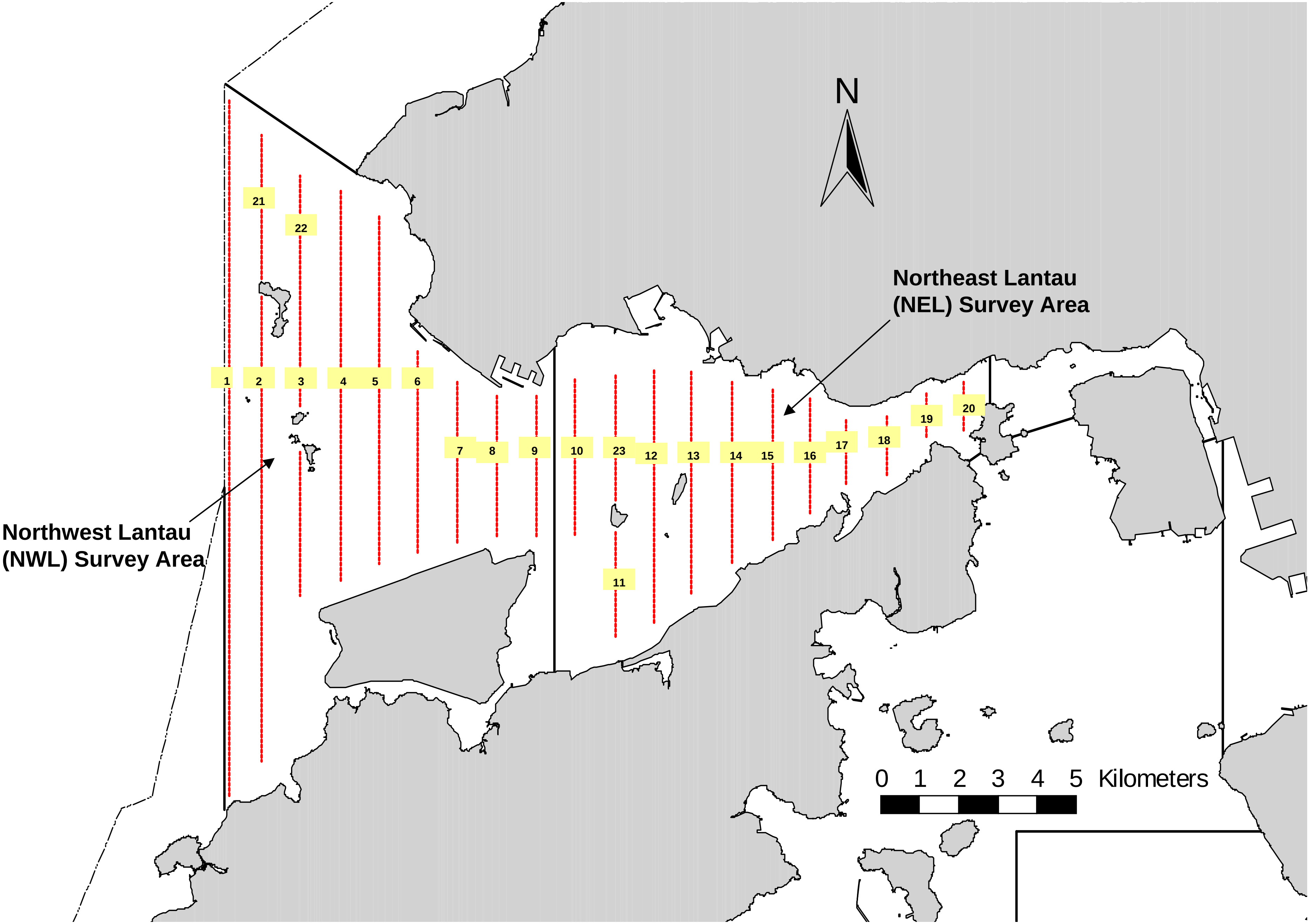


Figure 2.2 Transect Line Layout in Northwest and Northeast Lantau Survey Areas

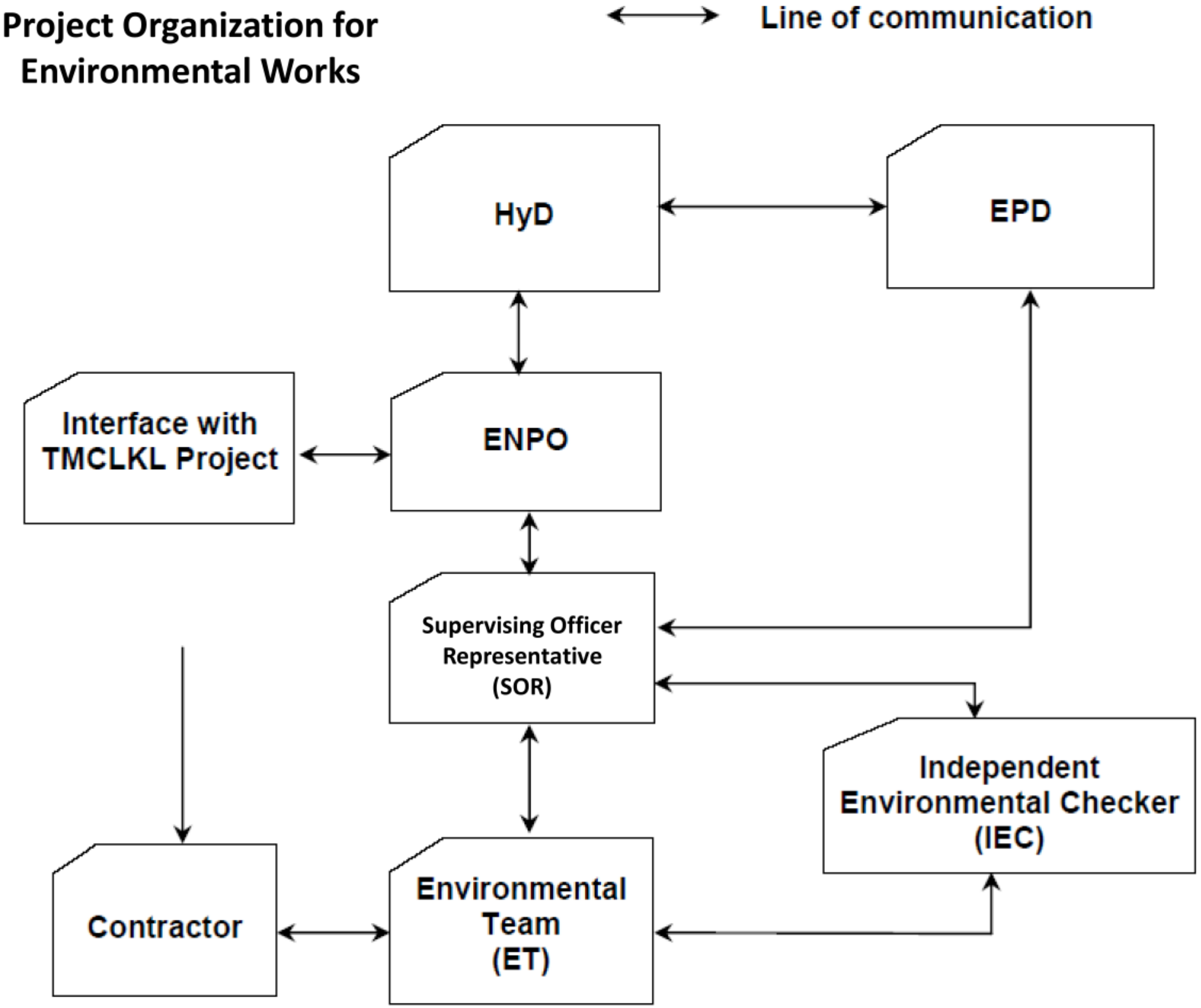
APPENDIX A

Environmental Management Structure

Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Supervising Officer's Representative (Ove Arup & Partners Hong Kong Limited)	(Chief Resident Engineer, CRE)	Robert Antony Evans	3968 0801	2109 1882
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899
	Independent Environmental Checker	Antony Wong	3465 2888	3465 2899
Contractor (China State Construction Engineering (Hong Kong) Ltd)	Project Manager	S. Y. Tse	3968 7002	2109 2588
	Environmental Officer	Federick Wong	3968 7117	2109 2588
Environmental Team (BMT Asia Pacific)	Environmental Team Leader	Claudine Lee	2241 9847	2815 3377
24 hours complaint hotline	---	---	5699 5730	---

Project Organization for Environmental Works



APPENDIX B

Construction Programme

FILE: 3M55 (Rev.00)

Sheet 1 of 9

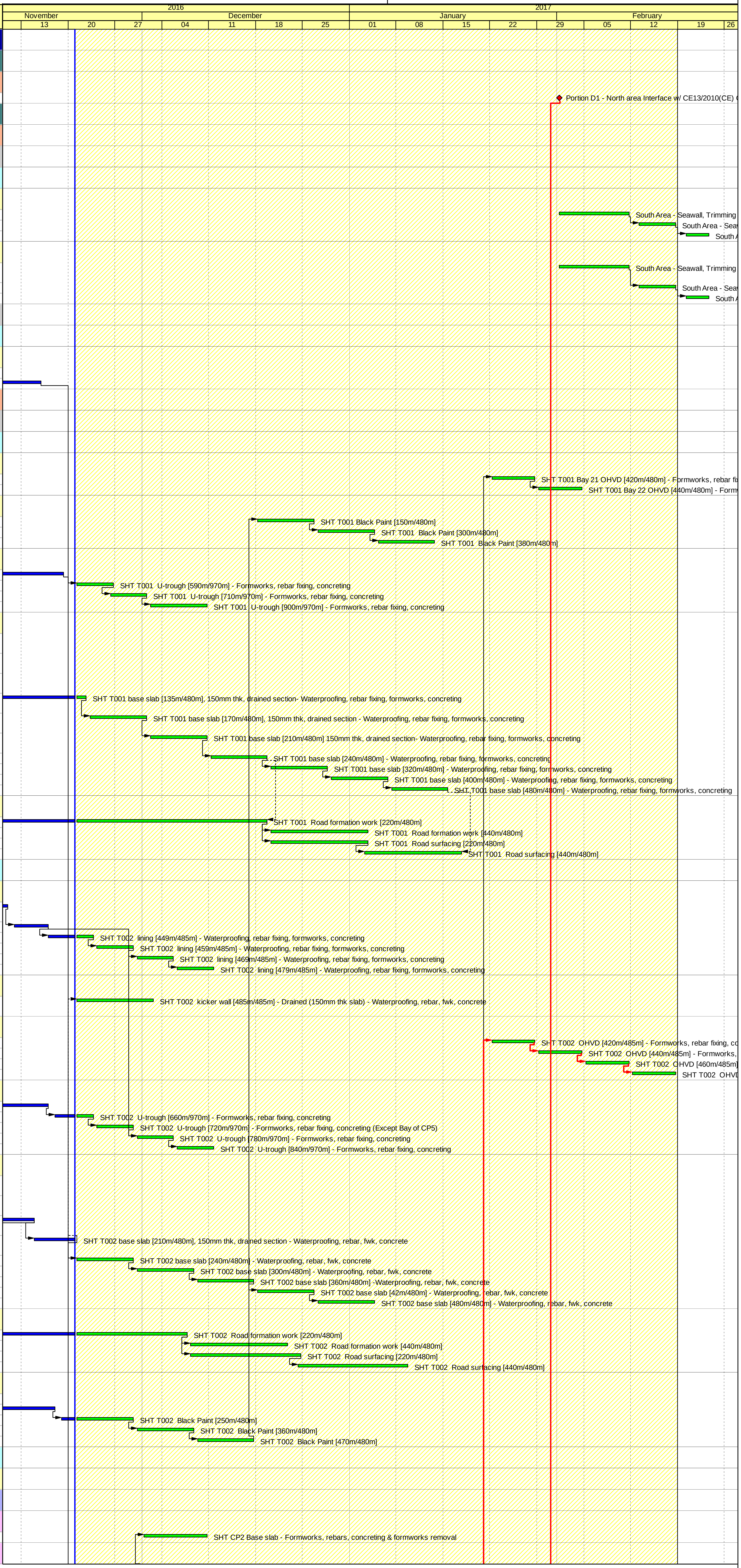
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Dec 2016 to Feb 2017)

Layout HZMB - (3M55 Rolling Prog)

TASK filters: 3M55, HZMB No Level Effort.

Activity ID	Activity Name
3 MONTHS PROGRAMME HY/2011/03 (Dec 2016 to Feb 2017)(Rev0)	
KEY DATES (Commencement, Possessions, Completions and Handover)	
Contractors Possession	
POS150	Portion D1 - North area Interface w/ CE13/2010(CE) Contractor - Handover back to CSHK
WORKS IN SOUTH AREA - CH 13+516 to CH 15+050 (SCENIC HILL TUNNEL, MT & CCT)	
Reclamation Works	
Outstanding Reclamation Works - SWCH 0+000 to SWCH 0+450	
Seawall Construction	
SWCH 0+000 to SWCH 0+080 - 80m	
SW1550	South Area - Seawall, Trimming & Laying Geotextile along seawall line
SW1560	South Area - Seawall, Rockfill Core
SW1570	South Area - Seawall, Underlayer Rock
SWCH 0+150 to SWCH 0+240 - 90m	
SW1450	South Area - Seawall, Trimming & Laying Geotextile along seawall line (after PR10 permanent diversion)
SW1460	South Area - Seawall, Rockfill Core
SW1470	South Area - Seawall, Underlayer Rock
Area 1: Outstanding Remedial Works to Seawall - SWCH 0+450 to SWCH 0+780 (300m)	
Surcharge	
Area 3A-2	
A238234	South Area Remedial Works - Surcharge Removal (1st half)
A1191	South Area Remedial Works - Surcharge Removal (2nd half)
SHT Mined Tunnel Works at Scenic Hill	
Mined Tunnel through Scenic Hill [480m Approx.]	
To Zhuhai-Macao [4-Lane] Carriageway - T001	
T001 OHVD	
SHT5110-120	SHT T001 Bay 21 OHVD [420m/480m] - Formworks, rebar fixing, concreting
SHT5110-140	SHT T001 Bay 22 OHVD [440m/480m] - Formworks, rebar fixing, concreting
T001 Tunnel Black Paint	
SHT7510-645	SHT T001 Black Paint [150m/480m]
SHT7510-655	SHT T001 Black Paint [300m/480m]
SHT7510-665	SHT T001 Black Paint [380m/480m]
T001 Utility Trough	
SHT7510-195	SHT T001 U-trough [470m/970m] - Formworks, rebar fixing, concreting
SHT7510-295	SHT T001 U-trough [590m/970m] - Formworks, rebar fixing, concreting
SHT7510-305	SHT T001 U-trough [710m/970m] - Formworks, rebar fixing, concreting
SHT7510-315	SHT T001 U-trough [900m/970m] - Formworks, rebar fixing, concreting
T001 Base Slab	
SHT4010	SHT T001 base slab LHS[36m/480m], 150mm thk, drained section - Waterproofing, rebar, fwk, concrete
SHT4020	SHT T001 base slab LHS [80m/480m], 150mm thk, drained section - Waterproofing, rebar, fwk, concrete
SHT4030	SHT T001 base slab [105m/480m], 150mm thk, drained section - Waterproofing, rebar, fwk, concrete
SHT4040	SHT T001 base slab [135m/480m], 150mm thk, drained section- Waterproofing, rebar fixing, formworks, concreting
SHT4050	SHT T001 base slab [170m/480m], 150mm thk, drained section - Waterproofing, rebar fixing, formworks, concreting
SHT4060	SHT T001 base slab [210m/480m] 150mm thk, drained section- Waterproofing, rebar fixing, formworks, concreting
SHT4070	SHT T001 base slab [240m/480m] - Waterproofing, rebar fixing, formworks, concreting
SHT4080	SHT T001 base slab [320m/480m] - Waterproofing, rebar fixing, formworks, concreting
SHT4090	SHT T001 base slab [400m/480m] - Waterproofing, rebar fixing, formworks, concreting
SHT4100	SHT T001 base slab [480m/480m] - Waterproofing, rebar fixing, formworks, concreting
T001 Roadworks	
SHT7510-505	SHT T001 Road formation work [220m/480m]
SHT7510-515	SHT T001 Road formation work [440m/480m]
SHT7510-535	SHT T001 Road surfacing [220m/480m]
SHT7510-545	SHT T001 Road surfacing [440m/480m]
To HKBCF [3-Lane] Carriageway - T002	
T002 Lining	
SHT7470	SHT T002 lining [429m/485m] - Waterproofing, rebar fixing, formworks, concreting (After Airport Rd Section breakthrough)
SHT7480	SHT T002 lining [439m/485m] - Waterproofing, rebar fixing, formworks, concreting
SHT7490	SHT T002 lining [449m/485m] - Waterproofing, rebar fixing, formworks, concreting
SHT7520	SHT T002 lining [459m/485m] - Waterproofing, rebar fixing, formworks, concreting
SHT7530	SHT T002 lining [469m/485m] - Waterproofing, rebar fixing, formworks, concreting
SHT7540	SHT T002 lining [479m/485m] - Waterproofing, rebar fixing, formworks, concreting
T002 Kicker Wall	
SHT6500-23	SHT T002 kicker wall [485m/485m] - Drained (150mm thk slab) - Waterproofing, rebar, fwk, concrete
T002 OHVD	
SHT7510-21	SHT T002 OHVD [420m/485m] - Formworks, rebar fixing, concreting
SHT7510-22	SHT T002 OHVD [440m/485m] - Formworks, rebar fixing, concreting
SHT7510-23	SHT T002 OHVD [460m/485m] - Formworks, rebar fixing, concreting
SHT7510-24	SHT T002 OHVD [480m/485m] - Formworks, rebar fixing, concreting
T002 Utility Trough	
SHT7510-235	SHT T002 U-trough [620m/970m] - Formworks, rebar fixing, concreting
SHT7510-245	SHT T002 U-trough [660m/970m] - Formworks, rebar fixing, concreting
SHT7510-255	SHT T002 U-trough [720m/970m] - Formworks, rebar fixing, concreting (Except Bay of CP5)
SHT7510-265	SHT T002 U-trough [780m/970m] - Formworks, rebar fixing, concreting
SHT7510-275	SHT T002 U-trough [840m/970m] - Formworks, rebar fixing, concreting
T002 Base Slab	
SHT6530	SHT T002 base slab [120m/480m],150mm thk, drained section - Waterproofing, rebar, fwk, concrete
SHT6540	SHT T002 base slab [150m/480m], 150mm thk, drained section -Waterproofing, rebar, fwk, concrete
SHT6550	SHT T002 base slab [180m/480m], 150mm thk, drained section - Waterproofing, rebar, fwk, concrete
SHT6560	SHT T002 base slab [210m/480m], 150mm thk, drained section - Waterproofing, rebar, fwk, concrete
SHT6570	SHT T002 base slab [240m/480m] - Waterproofing, rebar, fwk, concrete
SHT6580	SHT T002 base slab [300m/480m] - Waterproofing, rebar, fwk, concrete
SHT6590	SHT T002 base slab [360m/480m] -Waterproofing, rebar, fwk, concrete
SHT6600	SHT T002 base slab [42m/480m] - Waterproofing, rebar, fwk, concrete
SHT6610	SHT T002 base slab [480m/480m] - Waterproofing, rebar, fwk, concrete
T002 Roadworks	
SHT7510-445	SHT T002 Road formation work [220m/480m]
SHT7510-455	SHT T002 Road formation work [440m/480m]
SHT7510-475	SHT T002 Road surfacing [220m/480m]
SHT7510-485	SHT T002 Road surfacing [440m/480m]
T002 Tunnel Black Paint	
SHT7510-565	SHT T002 Black Paint (Trial Panel)
SHT7510-575	SHT T002 Black Paint [156m/480m]
SHT7510-585	SHT T002 Black Paint [250m/480m]
SHT7510-595	SHT T002 Black Paint [360m/480m]
SHT7510-605	SHT T002 Black Paint [470m/480m]
Cross Passages	
Civil & Structural and E&M Works	
Cross Passage At Mined Tunnel - 5 nos.	
Cross Passage - CP2	
SHT9060-9	SHT CP2 Base slab - Formworks, rebars, concreting & formworks removal
Cross Passage - CP4	



🟩	Works Programme
🟩	Works Programme
◆ ◆	Works Programme
◆ ◆	Milestone
◆ ◆	Milestone
🟦	Works Programme

China State Construction Engineering (Hong Kong) Ltd -

Contract No. HY/2011/03 - HZMB, Hong Kong Link Road

, Section between Scenic Hill and HKBCF

Prepared by CKK			
Date	Revision	Checked	Approved
02-Dec-16		WC	SYT

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

FILE: 3M55 (Rev.00)

Sheet 2 of 9

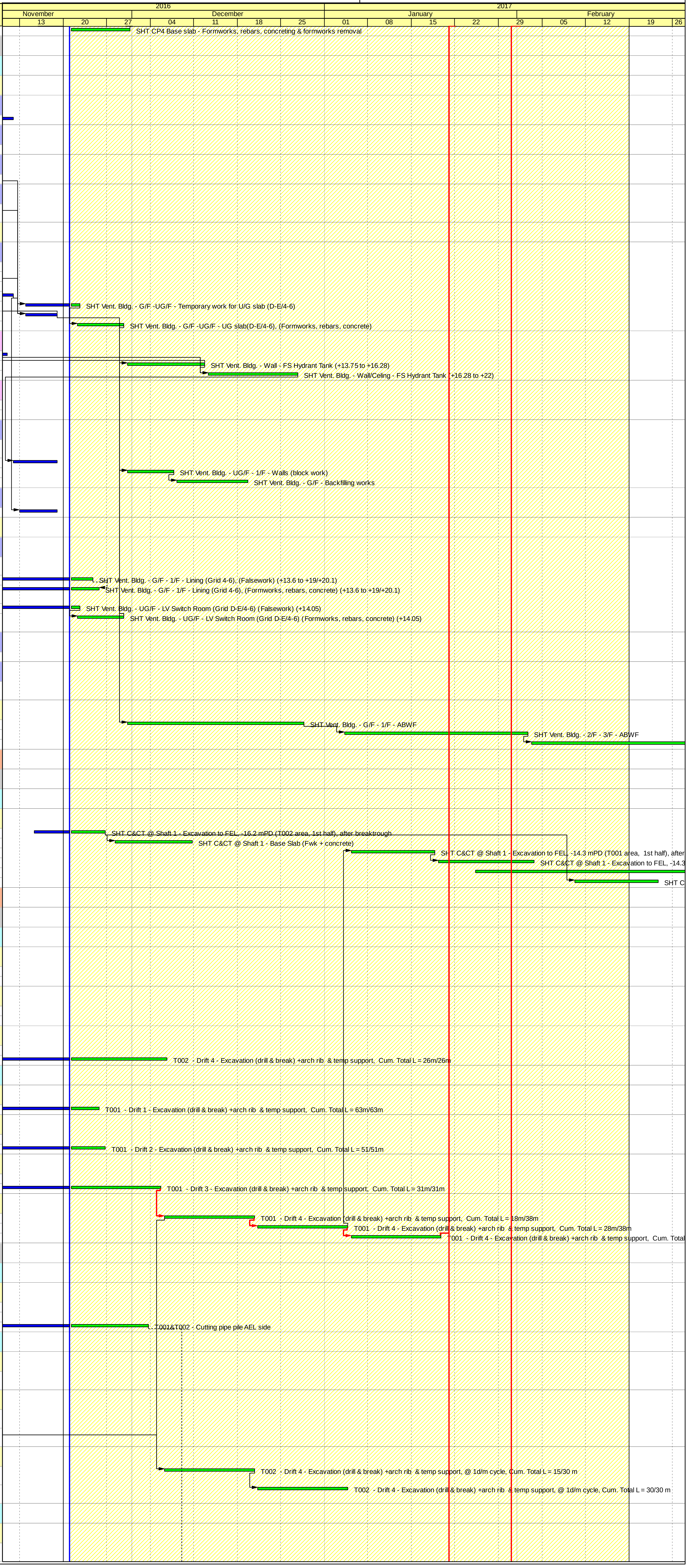
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Dec 2016 to Feb 2017)

Layout HZMB - (3M55 Rolling Prog)

TASK filters: 3M55, HZMB No Level Effort.

Activity ID	Activity Name
SHT9060-120	SHT CP4 Base slab - Formworks, rebars, concreting & formworks removal
Ventilation Building	
RC Works	
T002 - Area between E-G/1-6	
Maintenance corridor	
SHT9968	SHT Vent. Bldg. - Main. Corridor (Grid A/3-5) at +19.95mPD, (Formworks, rebars, concrete)
Ground Floor - 1st Floor	
SHT10518	SHT Vent. Bldg. - Lining Footing W1a T002 (1-4), (Formworks, rebars, concrete)
4th Floor - 5th Floor	
SHT8622	SHT Vent. Bldg. - 4/F - 5/F - 5th Floor slab(E-G/1-6) (Formworks, rebars, concrete)
5th Floor - R/F	
SHT10618	SHT Vent. Bldg. - 5/F - RF - Planter wall (F/5-6) @ +46.20/+47.30(Formworks, rebars, concrete)
Area between D-E/1-6	
Ground Floor - Upper Ground Floor	
SHT8192	SHT Vent. Bldg. - G/F -UG/F - Temporary work for U/G slab (D-E/1-4)
SHT10828	SHT Vent. Bldg. - G/F - UGF -Lift Shaft Wall (D-E/2-3) (+13.75/+18.3)
SHT8202	SHT Vent. Bldg. - G/F -UG/F - UG slab(D-E/1-4), (Formworks, rebars, concrete)
SHT10888	SHT Vent. Bldg. - G/F - Mass Concrete (D-E/4-6) @+12.5
SHT8242	SHT Vent. Bldg. - G/F -UG/F - Temporary work for U/G slab (D-E/4-6)
SHT8682	SHT Vent. Bldg. - G/F - UGF - Walls (Formworks, rebars, concrete)
SHT8252	SHT Vent. Bldg. - G/F -UG/F - UG slab(D-E/4-6), (Formworks, rebars, concrete)
Water Tank	
SHT10868	SHT Vent. Bldg. - Wall/Celing - Tunnel Hydrant Tank, FS Sprinkler Tank, (+16.28 to +22)
SHT10638	SHT Vent. Bldg. - Wall - FS Hydrant Tank (+13.75 to +16.28)
SHT10878	SHT Vent. Bldg. - Wall/Celing - FS Hydrant Tank (+16.28 to +22)
CLP Room	
SHT10708	SHT Vent. Bldg. - CLP Room Wall, Ceiling Beam and Slab (+17.7 to +19.05)
SHT10838	SHT Vent. Bldg. - CLP G/F Chamfer at CLP Chamber
Upper Ground Floor - 1st Floor	
SHT10858	SHT Vent. Bldg. - UG/F - 1/F -Planter (G/1-5) @ +19.95/+21.15) (Formworks, rebars, concrete)
SHT10908	SHT Vent. Bldg. - G/F - UGF -Lift Shaft Wall (D-E/2-3) (+19.05/+23.85)
SHT8692	SHT Vent. Bldg. - UG/F - 1/F - Walls (block work)
SHT8432	SHT Vent. Bldg. - G/F - Backfilling works
1st Floor - 2nd Floor	
SHT10898	SHT Vent. Bldg. - 1/F - Planter (A-D/1) @ +24.8 (Formworks, rebars, concrete)
T001 - Area between A-D/1-6	
Ground Floor - 1st Floor	
SHT10408	SHT Vent. Bldg. - G/F - 1/F - Lining (Grid 1-4), (Formworks, rebars, concrete) (+13.6 to +19/+20.1)
SHT10718	SHT Vent. Bldg. - G/F - 1/F - Lining (Grid 4-6), (Falsework) (+13.6 to +19/+20.1)
SHT10728	SHT Vent. Bldg. - G/F - 1/F - Lining (Grid 4-6), (Formworks, rebars, concrete) (+13.6 to +19/+20.1)
SHT10738	SHT Vent. Bldg. - UG/F - LV Switch Room (Grid D-E/4-6) (Falsework) (+14.05)
SHT10748	SHT Vent. Bldg. - UG/F - LV Switch Room (Grid D-E/4-6) (Formworks, rebars, concrete) (+14.05)
2nd Floor - 3rd Floor	
SHT10848	SHT Vent. Bldg. - 2/F -Planter (Formworks, rebars, concrete)@+42.5mPD
4th Floor - 5th Floor	
SHT10578	SHT Vent. Bldg. - 4/F - 5/F - Ramp slab - (A-D/2) @+39.95/+41.05, (Formworks, rebars, concrete)
ABWF	
SHT10118	SHT Vent. Bldg. - G/F - 1/F - ABWF
SHT10128	SHT Vent. Bldg. - 2/F - 3/F - ABWF
SHT10138	SHT Vent. Bldg. - 4/F - 5/F - ABWF
CCT Works across Airport Road at Ch 14+016 to 14+222 (206m)	
CCT [East Access Shaft] (Shaft 1)	
Civil & Structurals Works	
ELS Works	
SHT1089-20	SHT C&CT @ Shaft 1 - Excavation to FEL, -16.2 mPD (T002 area, 1st half), after breaktrough
SHT1089-49	SHT C&CT @ Shaft 1 - Base Slab (Fwk + concrete)
SHT1089-19	SHT C&CT @ Shaft 1 - Excavation to FEL, -14.3 mPD (T001 area, 1st half), after breaktrough
SHT1089-29	SHT C&CT @ Shaft 1 - Excavation to FEL, -14.3 mPD (T001 area, 2nd half), after breaktrough
SHT1090	SHT C&CT @ planter - Mechanical breaking into Scenic Hill
SHT1089-30	SHT C&CT @ Shaft 1 - Excavation to FEL, -16.2 mPD (T002 area, 2nd half), after breaktrough
Mined Tunnel Under Airport Road between SHAFT 1 & SHAFT 2(by Drill & Break)	
Mined Tunnel Works - Drive from Shaft 1(by Drill & Break)	
T002 (from Shaft 1)	
T002 - Drift 2	
SHT2120-290	T002 - Drift 2 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 54m/56m
SHT2120-310	T002 - Drift 2 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 56m/56m
T002 - Drift 3	
SHT2120-92	T002 - Drift 3 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 27m/31m
SHT2120-300	T002 - Drift 3 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 31m/31m
T002 - Drift 4	
SHT2120-102	T002 - Drift 4 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 16m/26m
SHT2120-104	T002 - Drift 4 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 26m/26m
T001 (from Shaft 1)	
T001 - Drift 1	
SHT2121-104	T001 - Drift 1 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 63m/63m
T001 - Drift 2	
SHT2121-114	T001 - Drift 2 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 42/51m
SHT2121-124	T001 - Drift 2 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 51/51m
T001 - Drift 3	
SHT2120-170	T001 - Drift 3 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 25m/31m
SHT2120-180	T001 - Drift 3 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 31m/31m
T001 - Drift 4	
SHT2120-260	T001 - Drift 4 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 18m/38m
SHT2120-270	T001 - Drift 4 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 28m/38m
SHT2120-280	T001 - Drift 4 - Excavation (drill & break) +arch rib & temp support, Cum. Total L = 38m/38m
Mined Tunnel Works - Drive from Shaft 2 (by Drill & Break)	
ELS (Shaft 2) - T001 and T002	
ELS and Front Nail/Tie Back	
SHT2122-240	T001&T002 - Excavation to FEL -19.33mPD & Soin nail installation (Row G, 14 nos) AR side
SHT2122-82	T001&T002 - Handover platform for excavation(drill & break) works
SHT2122-370	T001&T002 - Cutting pipe pile AEL side
T002 (from Shaft 2)	
T002 - Drift 2	
SHT2122-60	T002 - Drift 2 - Excavation (drill & break) +arch rib & temp support, @ 2d/m cycle, Cum. Total L = 12/12 m
T002 - Drift 3	
SHT2122-320	T002 - Drift 3 - Excavation (drill & break) +arch rib & temp support, @ 2.3d/m cycle, Cum. Total L = 16/25 m
SHT2122-330	T002 - Drift 3 - Excavation (drill & break) +arch rib & temp support, @ 2.3d/m cycle, Cum. Total L = 25/25 m
T002 - Drift 4	
SHT2122-350	T002 - Drift 4 - Excavation (drill & break) +arch rib & temp support, @ 1d/m cycle, Cum. Total L = 15/30 m
SHT2122-360	T002 - Drift 4 - Excavation (drill & break) +arch rib & temp support, @ 1d/m cycle, Cum. Total L = 30/30 m
T001 (from Shaft 2)	
T001 - Drift 2	
SHT2123-120	T002 - Drift 2 - Excavation (drill & break) +arch rib & temp support, @ 2d/m cycle, Cum. Total L = 6/12m



FILE: 3M55 (Rev.00)

Sheet 3 of 9

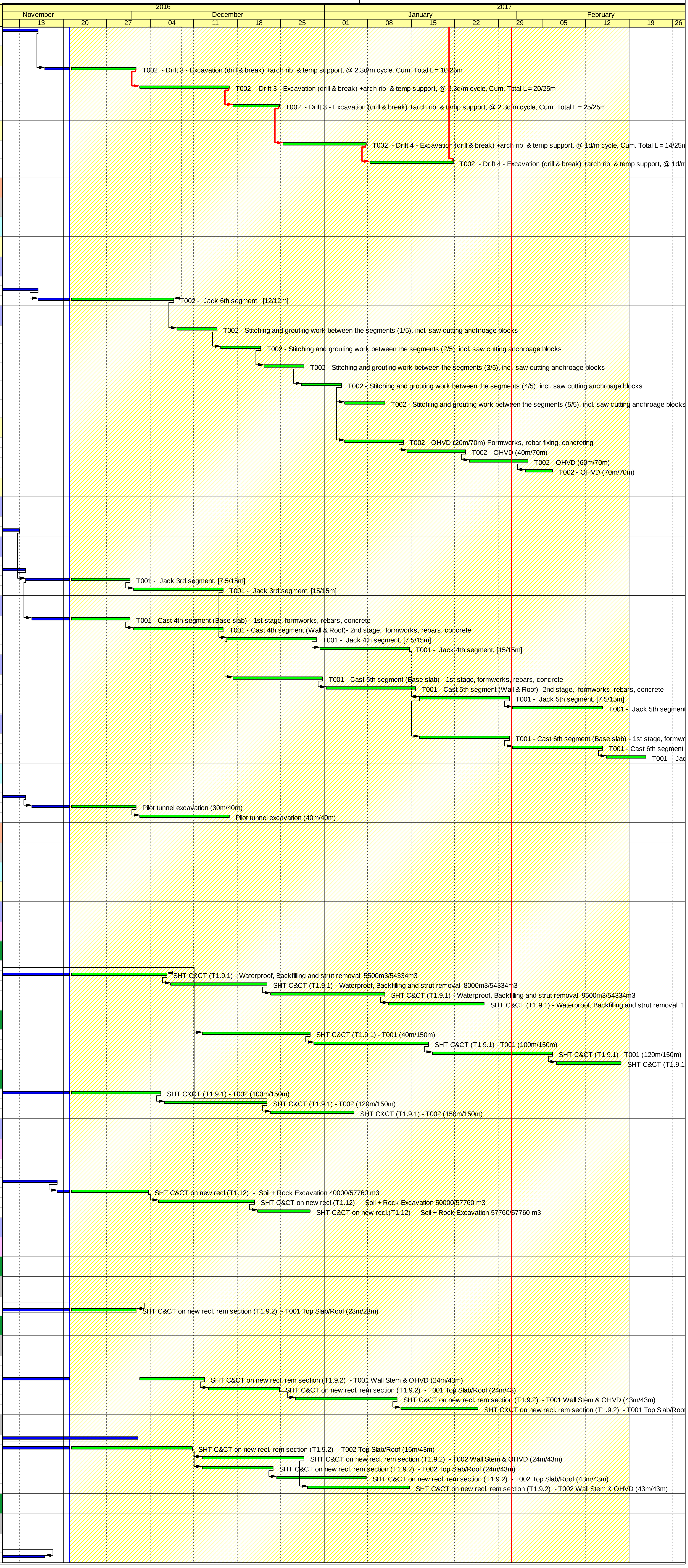
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Dec 2016 to Feb 2017)

Layout HZMB - (3M55 Rolling Prog)

TASK filters: 3M55, HZMB No Level Effort.

Activity ID	Activity Name
SHT2123-210	T002 - Drift 2 - Excavation (drill & break) +arch rib & temp support, @ 2d/m cycle, Cum. Total L = 12/12m
T001 - Drift 3	
SHT2123-150	T002 - Drift 3 - Excavation (drill & break) +arch rib & temp support, @ 2.3d/m cycle, Cum. Total L = 10/25m
SHT2123-160	T002 - Drift 3 - Excavation (drill & break) +arch rib & temp support, @ 2.3d/m cycle, Cum. Total L = 20/25m
SHT2123-170	T002 - Drift 3 - Excavation (drill & break) +arch rib & temp support, @ 2.3d/m cycle, Cum. Total L = 25/25m
T001 - Drift 4	
SHT2123-190	T002 - Drift 4 - Excavation (drill & break) +arch rib & temp support, @ 1d/m cycle, Cum. Total L = 14/25m
SHT2123-200	T002 - Drift 4 - Excavation (drill & break) +arch rib & temp support, @ 1d/m cycle, Cum. Total L = 25m/25m
Mined Tunnel Underneath AEL Ch 14+128 to Ch 14+175	
Civil & Structural Works	
SHT Works under AEL(BOX JACKING) - By Double Jack - 7days 24 hrs	
Box Casting/Jacking - T002 (24 hours working period)	
T002 - 6th Segment	
BXJ-15571	T002 - Cast 6th segment (Wall & Roof) - 2nd stage, formworks, rebars, concrete
BXJ-15581	T002 - Jack 6th segment, [6/12m]
BXJ-15591	T002 - Jack 6th segment, [12/12m]
T002 - Segment (Stitching and Grouting)	
BXJ-15801	T002 - Stitching and grouting work between the segments (1/5), incl. saw cutting anchroage blocks
BXJ-15811	T002 - Stitching and grouting work between the segments (2/5), incl. saw cutting anchroage blocks
BXJ-15821	T002 - Stitching and grouting work between the segments (3/5), incl. saw cutting anchroage blocks
BXJ-15831	T002 - Stitching and grouting work between the segments (4/5), incl. saw cutting anchroage blocks
BXJ-15841	T002 - Stitching and grouting work between the segments (5/5), incl. saw cutting anchroage blocks
T002 - OHVD	
BXJ-15761	T002 - OHVD (20m/70m) Formworks, rebar fixing, concreting
BXJ-15771	T002 - OHVD (40m/70m)
BXJ-15781	T002 - OHVD (60m/70m)
BXJ-15791	T002 - OHVD (70m/70m)
Box Casting/Jacking - T001 (24 hours working period)	
T001 - 2nd Segment	
BXJ-1086	T001 - Jack 2nd segment, [7.5/15m], including relocation of jacking frame
BXJ-1096	T001 - Jack 2nd segment, [15/15m]
T001 - 3rd Segment	
BXJ-15601	T001 - Cast 3rd segment (Base slab) - 1st stage, formworks, rebars, concrete
BXJ-15611	T001 - Cast 3rd segment (Wall & Roof)- 2nd stage, formworks, rebars, concrete
BXJ-15621	T001 - Jack 3rd segment, [7.5/15m]
BXJ-15631	T001 - Jack 3rd segment, [15/15m]
T001 - 4th Segment	
BXJ-15661	T001 - Cast 4th segment (Base slab) - 1st stage, formworks, rebars, concrete
BXJ-15671	T001 - Cast 4th segment (Wall & Roof)- 2nd stage, formworks, rebars, concrete
BXJ-15641	T001 - Jack 4th segment, [7.5/15m]
BXJ-15651	T001 - Jack 4th segment, [15/15m]
T001 - 5th Segment	
BXJ-15701	T001 - Cast 5th segment (Base slab) - 1st stage, formworks, rebars, concrete
BXJ-15711	T001 - Cast 5th segment (Wall & Roof)- 2nd stage, formworks, rebars, concrete
BXJ-15681	T001 - Jack 5th segment, [7.5/15m]
BXJ-15691	T001 - Jack 5th segment, [15/15m]
T001 - 6th Segment	
BXJ-15741	T001 - Cast 6th segment (Base slab) - 1st stage, formworks, rebars, concrete
BXJ-15751	T001 - Cast 6th segment (Wall & Roof)- 2nd stage, formworks, rebars, concrete
BXJ-15721	T001 - Jack 6th segment, [7.5/15m]
Pilot Tunnel From Shaft 2 (T001)	
SHT10788	Pilot tunnel excavation (9m/40m)
SHT10798	Pilot tunnel excavation (20m/40m)
SHT10808	Pilot tunnel excavation (30m/40m)
SHT10818	Pilot tunnel excavation (40m/40m)
CCT Works over Reclaimed Area at Ch 14+212 to Ch 15+050 (828m)	
CCT Works - on New Reclamation [490m Approx.]	
CCT Works in Remaining Section [325m Approx.][Ch 14+375 to Ch 14+700]	
Civil & Structurals Works	
ELS - Tunnel SHT- C&CT (T1.9.1 + Ext. Ch14+315 to Ch14+452/(Ch14+322 to Ch14+474)	
CCT RC Works(T1.9.1+Extension)	
T001 + T002 (1.9.1) - Backfilling	
SHT1868-545	SHT C&CT (T1.9.1) - Waterproof, Backfilling and strut removal 4000m3/54334m3
SHT1868-555	SHT C&CT (T1.9.1) - Waterproof, Backfilling and strut removal 5500m3/54334m3
SHT1868-685	SHT C&CT (T1.9.1) - Waterproof, Backfilling and strut removal 8000m3/54334m3
SHT1868-695	SHT C&CT (T1.9.1) - Waterproof, Backfilling and strut removal 9500m3/54334m3
SHT1868-705	SHT C&CT (T1.9.1) - Waterproof, Backfilling and strut removal 11000m3/54334m3
T001 (1.9.1) - Utilities Trough	
SHT1868-565	SHT C&CT (T1.9.1) - T001 (40m/150m)
SHT1868-575	SHT C&CT (T1.9.1) - T001 (100m/150m)
SHT1868-585	SHT C&CT (T1.9.1) - T001 (120m/150m)
SHT1868-595	SHT C&CT (T1.9.1) - T001 (150m/150m)
T002 (1.9.1) - Utilities Trough	
SHT1868-655	SHT C&CT (T1.9.1) - T002 (100m/150m)
SHT1868-665	SHT C&CT (T1.9.1) - T002 (120m/150m)
SHT1868-675	SHT C&CT (T1.9.1) - T002 (150m/150m)
ELS - Tunnel SHT- C&CT (T1.12 Ch 14+264 to Ch 14+315)/(Ch 14+257 to Ch 14+322)	
ELS	
SHT1925-105	SHT C&CT on new recl.(T1.12) - Soil + Rock Excavation 10000/57760 m3
SHT1925-115	SHT C&CT on new recl.(T1.12) - Soil + Rock Excavation 20000/57760 m3
SHT1925-125	SHT C&CT on new recl.(T1.12) - Soil + Rock Excavation 30000/57760 m3
SHT1925-135	SHT C&CT on new recl.(T1.12) - Soil + Rock Excavation 40000/57760 m3
SHT1925-145	SHT C&CT on new recl.(T1.12) - Soil + Rock Excavation 50000/57760 m3
SHT1925-155	SHT C&CT on new recl.(T1.12) - Soil + Rock Excavation 57760/57760 m3
ELS - Tunnel SHT- C&CT (T1.9.2 Ch 14+452 to Ch 14+597)/(Ch 14+474 to Ch 14+612)	
Excavation & Lateral Support (T1.9.2)	
Bay 1 (Ch14+590 - Ch14+613, L = 23m)	
T001	
SHT1916-765	SHT C&CT on new recl. rem section (T1.9.2) - T001 Wall Stem & OHVD (23m/23m)
SHT1916-775	SHT C&CT on new recl. rem section (T1.9.2) - T001 Top Slab/Roof (23m/23m)
Bay 2 (Ch14+547 - Ch14+590, L = 43m)	
T001	
SHT1916-345	SHT C&CT on new recl. rem section (T1.9.2) - T001 Wall Stem & OHVD (8m/43m)
SHT1916-515	SHT C&CT on new recl. rem section (T1.9.2) - T001 Top Slab/Roof (8m/43m)
SHT1916-355	SHT C&CT on new recl. rem section (T1.9.2) - T001 Wall Stem & OHVD (24m/43m)
SHT1916-525	SHT C&CT on new recl. rem section (T1.9.2) - T001 Top Slab/Roof (24m/43)
SHT1916-805	SHT C&CT on new recl. rem section (T1.9.2) - T001 Wall Stem & OHVD (43m/43m)
SHT1916-815	SHT C&CT on new recl. rem section (T1.9.2) - T001 Top Slab/Roof (43m/43)
T002	
SHT1916-375	SHT C&CT on new recl. rem section (T1.9.2) - T002 Wall Stem & OHVD (16m/43m)
SHT1916-535	SHT C&CT on new recl. rem section (T1.9.2) - T002 Top Slab/Roof (16m/43m)
SHT1916-385	SHT C&CT on new recl. rem section (T1.9.2) - T002 Wall Stem & OHVD (24m/43m)
SHT1916-545	SHT C&CT on new recl. rem section (T1.9.2) - T002 Top Slab/Roof (24m/43m)
SHT1916-835	SHT C&CT on new recl. rem section (T1.9.2) - T002 Top Slab/Roof (43m/43m)
SHT1916-825	SHT C&CT on new recl. rem section (T1.9.2) - T002 Wall Stem & OHVD (43m/43m)
Bay 3 (Ch14+510 - Ch14+547, L = 37m)	
T001	
SHT1916-575	SHT C&CT on new recl. rem section (T1.9.2) - T001 Top Slab/Roof(21m/37m)
SHT1916-845	SHT C&CT on new recl. rem section (T1.9.2) - T001 Wall Stem & OHVD(37m/37m)
SHT1916-855	SHT C&CT on new recl. rem section (T1.9.2) - T001 Top Slab/Roof(37m/37m)



FILE: 3M55 (Rev.00)

Sheet 4 of 9

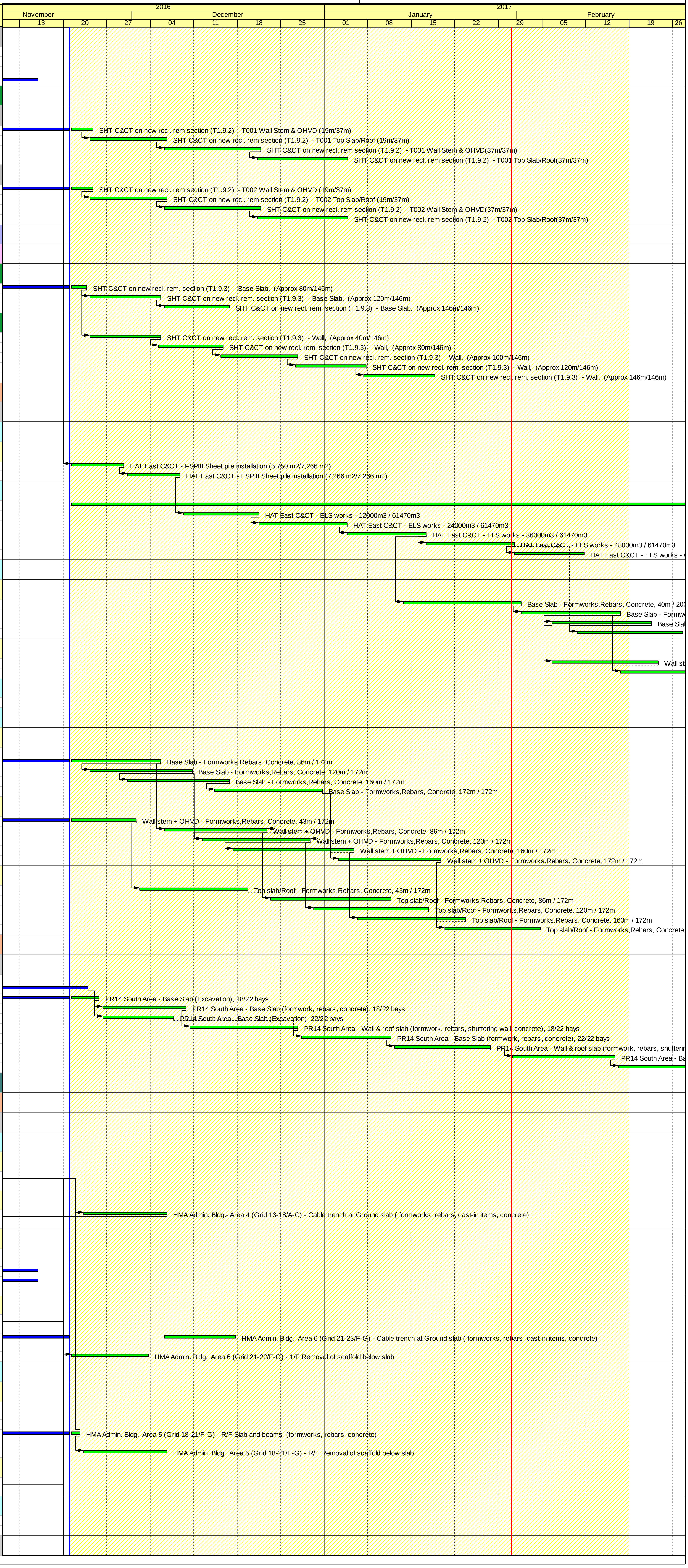
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Dec 2016 to Feb 2017)

Layout HZMB - (3M55 Rolling Prog)

TASK filters: 3M55, HZMB No Level Effort.

Activity ID	Activity Name
T002	
SHT1916-605	SHT C&CT on new recl. rem section (T1.9.2) - T002 Wall Stem & OHVD (20m/37m)
SHT1916-625	SHT C&CT on new recl. rem section (T1.9.2) - T002 Top Slab/Roof (20m/37m)
SHT1916-615	SHT C&CT on new recl. rem section (T1.9.2) - T002 Wall Stem & OHVD(37m/37m)
SHT1916-635	SHT C&CT on new recl. rem section (T1.9.2) - T002 Top Slab/Roof(37m/37m)
Bay 4 (Ch14+473 - Ch14+510, L = 37m)	
T001	
SHT1916-665	SHT C&CT on new recl. rem section (T1.9.2) - T001 Wall Stem & OHVD (19m/37m)
SHT1916-685	SHT C&CT on new recl. rem section (T1.9.2) - T001 Top Slab/Roof (19m/37m)
SHT1916-675	SHT C&CT on new recl. rem section (T1.9.2) - T001 Wall Stem & OHVD(37m/37m)
SHT1916-695	SHT C&CT on new recl. rem section (T1.9.2) - T001 Top Slab/Roof(37m/37m)
T002	
SHT1916-725	SHT C&CT on new recl. rem section (T1.9.2) - T002 Wall Stem & OHVD (19m/37m)
SHT1916-745	SHT C&CT on new recl. rem section (T1.9.2) - T002 Top Slab/Roof (19m/37m)
SHT1916-735	SHT C&CT on new recl. rem section (T1.9.2) - T002 Wall Stem & OHVD(37m/37m)
SHT1916-755	SHT C&CT on new recl. rem section (T1.9.2) - T002 Top Slab/Roof(37m/37m)
ELS - Tunnel SHT- C&CT (T1.9.3 Ch 14+597to Ch 14+727)/(Ch 14+612 to Ch+14+739)	
RC Works (T1.9.3)	
T001 & T002 - Base Slab	
SHT1923-82	SHT C&CT on new recl. rem. section (T1.9.3) - Base Slab, (Approx 80m/146m)
SHT1923-92	SHT C&CT on new recl. rem. section (T1.9.3) - Base Slab, (Approx 120m/146m)
SHT1923-142	SHT C&CT on new recl. rem. section (T1.9.3) - Base Slab, (Approx 146m/146m)
T001 & T002 - Wall	
SHT1923-102	SHT C&CT on new recl. rem. section (T1.9.3) - Wall, (Approx 40m/146m)
SHT1923-152	SHT C&CT on new recl. rem. section (T1.9.3) - Wall, (Approx 80m/146m)
SHT1923-122	SHT C&CT on new recl. rem. section (T1.9.3) - Wall, (Approx 100m/146m)
SHT1923-162	SHT C&CT on new recl. rem. section (T1.9.3) - Wall, (Approx 120m/146m)
SHT1923-132	SHT C&CT on new recl. rem. section (T1.9.3) - Wall, (Approx 146m/146m)
CCT Works for HAT East w/ Emergency Pedestrian Passage	
HAT Plant Building and Cut & Cover Tunnel, East Area [303m Approx.]	
Foundation & Cofferdam (Ch 0+940 to Ch 1+140)	
Sheet Piling Works	
HAT1040-158	HAT East C&CT - FSPIII Sheet pile installation (5,750 m2/7,266 m2)
HAT1040-368	HAT East C&CT - FSPIII Sheet pile installation (7,266 m2/7,266 m2)
ELS (Ch 0+940 to Ch 1+140)	
HAT3310	HAT East C&CT - Backfilling [incl. extraction of sheet piles] - excl. at temporary access shaft
HAT3320-111	HAT East C&CT - ELS works - 12000m3 / 61470m3
HAT3320-121	HAT East C&CT - ELS works - 24000m3 / 61470m3
HAT3320-131	HAT East C&CT - ELS works - 36000m3 / 61470m3
HAT3320-141	HAT East C&CT - ELS works - 48000m3 / 61470m3
HAT3320-151	HAT East C&CT - ELS works - 61470m3 / 61470m3
RC CCT Work(Ch 0+940 to Ch 1+140)	
Base slab(Ch 0+940 to Ch 1+140)	
HAT1868-935	Base Slab - Formworks,Rebars, Concrete, 40m / 200m
HAT1868-945	Base Slab - Formworks,Rebars, Concrete, 80m / 200m
HAT1868-955	Base Slab - Formworks,Rebars, Concrete, 120m / 200m
HAT1868-965	Base Slab - Formworks,Rebars, Concrete, 160m / 200m
Wall Stem + OHVD (Ch 0+940 to Ch 1+140)	
HAT1868-985	Wall stem + OHVD - Formworks,Rebars, Concrete, 40m / 200m
HAT1868-995	Wall stem + OHVD - Formworks,Rebars, Concrete, 80m / 200m
ELS (Ch 0+768 to Ch 0+940)	
HAT3320-101	HAT East C&CT - ELS works - 52865m3 / 52865m3
RC CCT Work (Ch 0+768 to Ch0+940)	
Base slab (Ch0+768 to Ch0+940)	
HAT1868-775	Base Slab - Formworks,Rebars, Concrete, 43m / 172m
HAT1868-785	Base Slab - Formworks,Rebars, Concrete, 86m / 172m
HAT1868-795	Base Slab - Formworks,Rebars, Concrete, 120m / 172m
HAT1868-805	Base Slab - Formworks,Rebars, Concrete, 160m / 172m
HAT1868-825	Base Slab - Formworks,Rebars, Concrete, 172m / 172m
Wall Stem + OHVD (Ch0+768 to Ch0+940)	
HAT1868-835	Wall stem + OHVD - Formworks,Rebars, Concrete, 43m / 172m
HAT1868-845	Wall stem + OHVD - Formworks,Rebars, Concrete, 86m / 172m
HAT1868-855	Wall stem + OHVD - Formworks,Rebars, Concrete, 120m / 172m
HAT1868-865	Wall stem + OHVD - Formworks,Rebars, Concrete, 160m / 172m
HAT1868-875	Wall stem + OHVD - Formworks,Rebars, Concrete, 172m / 172m
Top Slab/Roof (Ch0+768 to Ch0+940)	
HAT1868-885	Top slab/Roof - Formworks,Rebars, Concrete, 43m / 172m
HAT1868-895	Top slab/Roof - Formworks,Rebars, Concrete, 86m / 172m
HAT1868-905	Top slab/Roof - Formworks,Rebars, Concrete, 120m / 172m
HAT1868-915	Top slab/Roof - Formworks,Rebars, Concrete, 160m / 172m
HAT1868-925	Top slab/Roof - Formworks,Rebars, Concrete, 172m / 172m
Box Culvert Extension to outfall PR14 (457m Approx.)	
Box Culvert Extension to outfall PR14 (South Area, Bay S1 to S22)	
BC1110-101	PR14 South Area - Base Slab (formwork, rebars, concrete), 14/22 bays
BC1110-51	PR14 South Area - Wall & roof slab (formwork, rebars, shuttering wall, concrete), 14/22 bays
BC1110-151	PR14 South Area - Base Slab (Excavation), 18/22 bays
BC1110-111	PR14 South Area - Base Slab (formwork, rebars, concrete), 18/22 bays
BC1110-161	PR14 South Area - Base Slab (Excavation), 22/22 bays
BC1110-131	PR14 South Area - Wall & roof slab (formwork, rebars, shuttering wall, concrete), 18/22 bays
BC1110-121	PR14 South Area - Base Slab (formwork, rebars, concrete), 22/22 bays
BC1110-141	PR14 South Area - Wall & roof slab (formwork, rebars, shuttering wall, concrete), 22/22 bays
BC1110-181	PR14 South Area - Backfilling, 11/22 bays
BC1110-191	PR14 South Area - Backfilling, 22/22 bays
WORKS IN HAM(HIGHWAY OPERATION & MAINTENANCE AREA) & HAT CCT	
Administration Building	
RC & Foundation Works	
Superstructure - (G/F - 1/F)	
Area 3 (Grid 8-12/A-C)	
HMA1105-176	HMA Admin. Bldg.- Area 3 (Grid 7-12/A-C) - Cable trench at Ground slab (formworks, rebars, cast-in items, concrete)
Area 4 (Grid 13-18/F-G)	
HMA1115-142	HMA Admin. Bldg.- Area 4 (Grid 13-18/A-C) - Cable trench at Ground slab (formworks, rebars, cast-in items, concrete)
Area 5 (Grid 18-21/F-G)	
HMA1115-242	HMA Admin. Bldg. Area 5 (Grid 18-21/F-G) - 1/F Slab and beams (formworks, rebars, concrete),
HMA1115-252	HMA Admin. Bldg. Area 5 (Grid 18-21/F-G) - 1/F Slab, Curing, removal of scaffold below slab
HMA1115-262	HMA Admin. Bldg.- Area 5 (Grid 18-21/F-G) - Cable trench at Ground slab (formworks, rebars, cast-in items, concrete)
Area 6 (Grid 21-23/F-G)	
HMA1105-447	HMA Admin. Bldg. Area 6 (Grid 21-22/F-G) - 1/F Slab and beams (formworks, rebars, concrete),
HMA1115-272	HMA Admin. Bldg. Area 6 (Grid 21-23/F-G) - Cable trench at Ground slab (formworks, rebars, cast-in items, concrete)
HMA1115-202	HMA Admin. Bldg. Area 6 (Grid 21-22/F-G) - 1/F Removal of scaffold below slab
Superstructure - (1F - R/F)	
Area 5 (Grid 18-21/F-G)	
HMA1115-382	HMA Admin. Bldg. Area 5 (Grid 18-21/F-G) - 1/F - R/F - Columns (formworks, rebars, concrete)
HMA1115-392	HMA Admin. Bldg. Area 5 (Grid 18-21/F-G) - 1/F - R/F - Scaffolding erection
HMA1115-362	HMA Admin. Bldg. Area 5 (Grid 18-21/F-G) - R/F Slab and beams (formworks, rebars, concrete)
HMA1115-342	HMA Admin. Bldg. Area 5 (Grid 18-21/F-G) - R/F Removal of scaffold below slab
Area 6 (Grid 21-23/F-G)	
HMA1115-322	HMA Admin. Bldg. Area 6 (Grid 22-23/F-G) - R/F Slab, Curing, removal of scaffold below slab
Fuel Tank and F.S. Tank	
HMA1115-542	HMA Admin. Bldg. Petrol Fuel Tank Wall (formworks, rebars, concrete)
HMA1115-552	HMA Admin. Bldg. Disel Fuel Tank Wall (formworks, rebars, concrete)
ABWF	



FILE: 3M55 (Rev.00)

Sheet 5 of 9

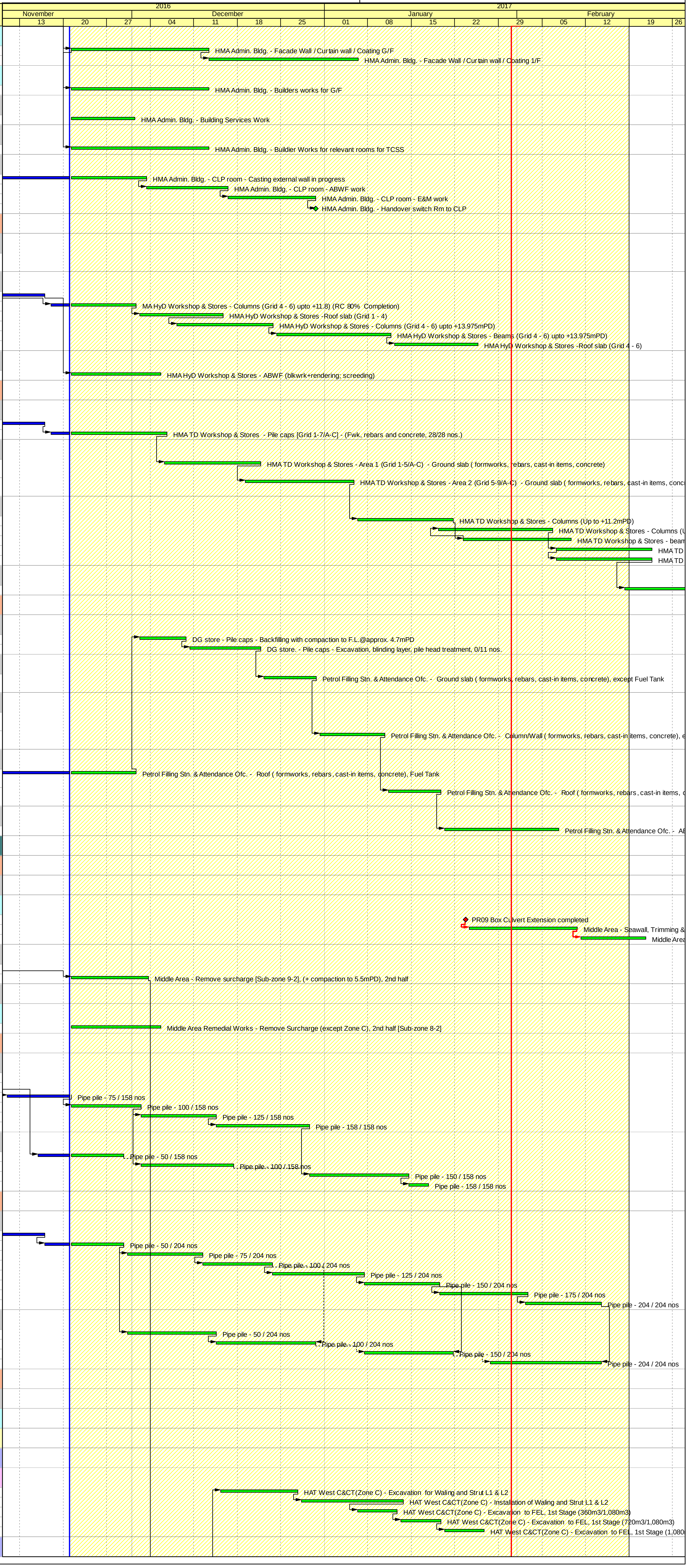
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Dec 2016 to Feb 2017)

Layout HZMB - (3M55 Rolling Prog)

TASK filters: 3M55, HZMB No Level Effort.

Activity ID	Activity Name
External Works	
HMA4040	HMA Admin. Bldg. - Facade Wall / Curtain wall / Coating G/F
HMA4070	HMA Admin. Bldg. - Facade Wall / Curtain wall / Coating 1/F
Builder Works	
HMA4080	HMA Admin. Bldg. - Builders works for G/F
E&M Works and Interface with HY2011/09 for SHM & MMS	
HMA1260-1	HMA Admin. Bldg. - Building Services Work
E&M Works and Interface with TCSS Contractor	
HMA1275-1	HMA Admin. Bldg. - Buildier Works for relevant rooms for TCSS
CLP Installation - Substation X	
HMA1275-31	HMA Admin. Bldg. - CLP room - Casting external wall in progress
HMA1275-41	HMA Admin. Bldg. - CLP room - ABWF work
HMA1275-51	HMA Admin. Bldg. - CLP room - E&M work
HMA1275-11	HMA Admin. Bldg. - Handover switch Rm to CLP
HyD Workshop & Store Building	
Ground Slab	
HMA1060-157	HMA HyD Workshop & Stores - (Grid 1-6/A-C) - Ground slab (formworks, rebars, cast-in items, concrete)
Structure Works	
HMA1060-1318	HMA HyD Workshop & Stores - Columns (Grid 1 - 3)
HMA1060-1328	MA HyD Workshop & Stores - Columns (Grid 4 - 6) upto +11.8) (RC 80% Completion)
HMA1060-1348	HMA HyD Workshop & Stores -Roof slab (Grid 1 - 4)
HMA1060-1338	HMA HyD Workshop & Stores - Columns (Grid 4 - 6) upto +13.975mPD)
HMA1060-1358	HMA HyD Workshop & Stores - Beams (Grid 4 - 6) upto +13.975mPD)
HMA1060-1368	HMA HyD Workshop & Stores -Roof slab (Grid 4 - 6)
ABWF	
HMA1060-1278	HMA HyD Workshop & Stores - ABWF (blkwrk+rendering; screeding)
TD Workshop & Store Building	
Pile Caps	
HMA1060-147	HMA TD Workshop & Stores - Pile caps [Grid 8-12/A-C] - (Fwk, rebars and concrete, 12/28 nos.)
HMA1060-148	HMA TD Workshop & Stores - Pile caps [Grid 1-7/A-C] - (Fwk, rebars and concrete, 28/28 nos.)
Ground Slab	
HMA1060-1238	HMA TD Workshop & Stores - Area 1 (Grid 1-5/A-C) - Ground slab (formworks, rebars, cast-in items, concrete)
HMA1060-1248	HMA TD Workshop & Stores - Area 2 (Grid 5-9/A-C) - Ground slab (formworks, rebars, cast-in items, concrete)
Structure Works	
HMA1060-1378	HMA TD Workshop & Stores - Columns (Up to +11.2mPD)
HMA1060-1398	HMA TD Workshop & Stores - Columns (Up to +15.425mPD)
HMA1060-1388	HMA TD Workshop & Stores - beams (Approx. +11.2mPD)
HMA1060-1408	HMA TD Workshop & Stores - beams (Approx. +15.425mPD)
HMA1060-1418	HMA TD Workshop & Stores - Columns (Up to Roof Slab)
ABWF	
HMA1060-1438	HMA TD Workshop & Stores - ABWF (blkwrk+rendering; screeding)
Petrol Filling Station & Attendance Office	
Pile Caps	
HMA1060-1488	DG store - Pile caps - Backfilling with compaction to F.L.@approx. 4.7mPD
HMA1060-1478	DG store. - Pile caps - Excavation, blinding layer, pile head treatment, 0/11 nos.
Ground Slab	
HMA1060-236	Petrol Filling Stn. & Attendance Ofc. - Ground slab (formworks, rebars, cast-in items, concrete), except Fuel Tank
Column / Wall	
HMA1060-1258	Petrol Filling Stn. & Attendance Ofc. - Column/Wall (formworks, rebars, cast-in items, concrete), Fuel Tank
HMA1060-1268	Petrol Filling Stn. & Attendance Ofc. - Column/Wall (formworks, rebars, cast-in items, concrete), except Fuel Tank
Roof	
HMA1060-1448	Petrol Filling Stn. & Attendance Ofc. - Roof (formworks, rebars, cast-in items, concrete), Fuel Tank
HMA1060-1458	Petrol Filling Stn. & Attendance Ofc. - Roof (formworks, rebars, cast-in items, concrete), except Fuel Tank
ABWF	
HMA1060-1468	Petrol Filling Stn. & Attendance Ofc. - ABWF (blkwrk+rendering; screeding)
WORKS IN MIDDLE AREA CH15+050 to 15+500 (HKLR AT GRADE, HAT MT, BRIDGE A1 & A2)	
Reclamation Works - SWCH 0+960 to 1+400 (AHR 20mPD) & (12.5mPD)	
Seawall Construction (Middle Area) CH 0+960 to CH 1+400 - 440m	
SWCH 1+280 to SWCH 1+340 - 60m	
SW1540	PR09 Box Culvert Extension completed
SW1130	Middle Area - Seawall, Trimming & Laying Geotextile along seawall line
SW1140	Middle Area - Seawall, Rockfill Core
Surcharge	
RSC1069-111	Middle Area - Remove surcharge [Sub-zone 9-1], (+ compaction to 5.5mPD), 2nd half
RSC1054-6	Middle Area - Remove surcharge [Sub-zone 9-2], (+ compaction to 5.5mPD), 2nd half
Area 2: Investigation and Remedial Works - SWCH 1+050 to SWCH 1+280 (230m)	
Surcharge	
A1810	Middle Area Remedial Works - Remove Surcharge (except Zone C), 2nd half [Sub-zone 8-2]
VO 16 - 610mm Pipe Piles (SWCH0+800 to SWCH 1+000)	
VO 16 - 610mm Pipe Piles (SWCH0+800 to SWCH 1+000) - Drilling	
RSC.200	Pipe pile - 20 / 158 nos
RSC.210	Pipe pile - 50 / 158 nos
RSC.220	Pipe pile - 75 / 158 nos
RSC.230	Pipe pile - 100 / 158 nos
RSC.240	Pipe pile - 125 / 158 nos
RSC.250	Pipe pile - 158 / 158 nos
VO 16 - 610mm Pipe Piles (SWCH0+800 to SWCH 1+000) - Grouting	
RSC.600	Pipe pile - 50 / 158 nos
RSC.610	Pipe pile - 100 / 158 nos
RSC.620	Pipe pile - 150 / 158 nos
RSC.630	Pipe pile - 158 / 158 nos
VO 16 - 610mm Pipe Piles (SWCH1+280 to SWCH 1+617)	
VO 16 - 610mm Pipe Piles (SWCH1+280 to SWCH 1+617) - Drilling	
RSC.290	Pipe pile - 25 / 204 nos
RSC.300	Pipe pile - 50 / 204 nos
RSC.310	Pipe pile - 75 / 204 nos
RSC.320	Pipe pile - 100 / 204 nos
RSC.330	Pipe pile - 125 / 204 nos
RSC.340	Pipe pile - 150 / 204 nos
RSC.350	Pipe pile - 175 / 204 nos
RSC.360	Pipe pile - 204 / 204 nos
VO 16 - 610mm Pipe Piles (SWCH1+280 to SWCH 1+617) - Grouting	
RSC.750	Pipe pile - 50 / 204 nos
RSC.760	Pipe pile - 100 / 204 nos
RSC.770	Pipe pile - 150 / 204 nos
RSC.780	Pipe pile - 204 / 204 nos
Works in HAT Tunnel (Mined Tunnel and West CCT w/ Emergency Pedestrian Passage	
CCT for HAT across Airport Road [200m Approx.]	
Civil & Structural Works	
ELS - HAT West CCT, Ch. 0+270 to Ch. 0+560	
ELS - Zone C (Ch. 0+470 to Ch. 0+394)	
Ch. 0+406 to Ch. 0+394, L=12.0m	
HAT1611-541	HAT West C&CT(Zone C) - Excavation for Waling and Strut L1 & L2
HAT1611-551	HAT West C&CT(Zone C) - Installation of Waling and Strut L1 & L2
HAT1611-581	HAT West C&CT(Zone C) - Excavation to FEL, 1st Stage (360m3/1,080m3)
HAT1611-591	HAT West C&CT(Zone C) - Excavation to FEL, 1st Stage (720m3/1,080m3)
HAT1611-601	HAT West C&CT(Zone C) - Excavation to FEL, 1st Stage (1,080m3/1,080m3)
ELS - Zone D	



FILE: 3M55 (Rev.00)

Sheet 6 of 9

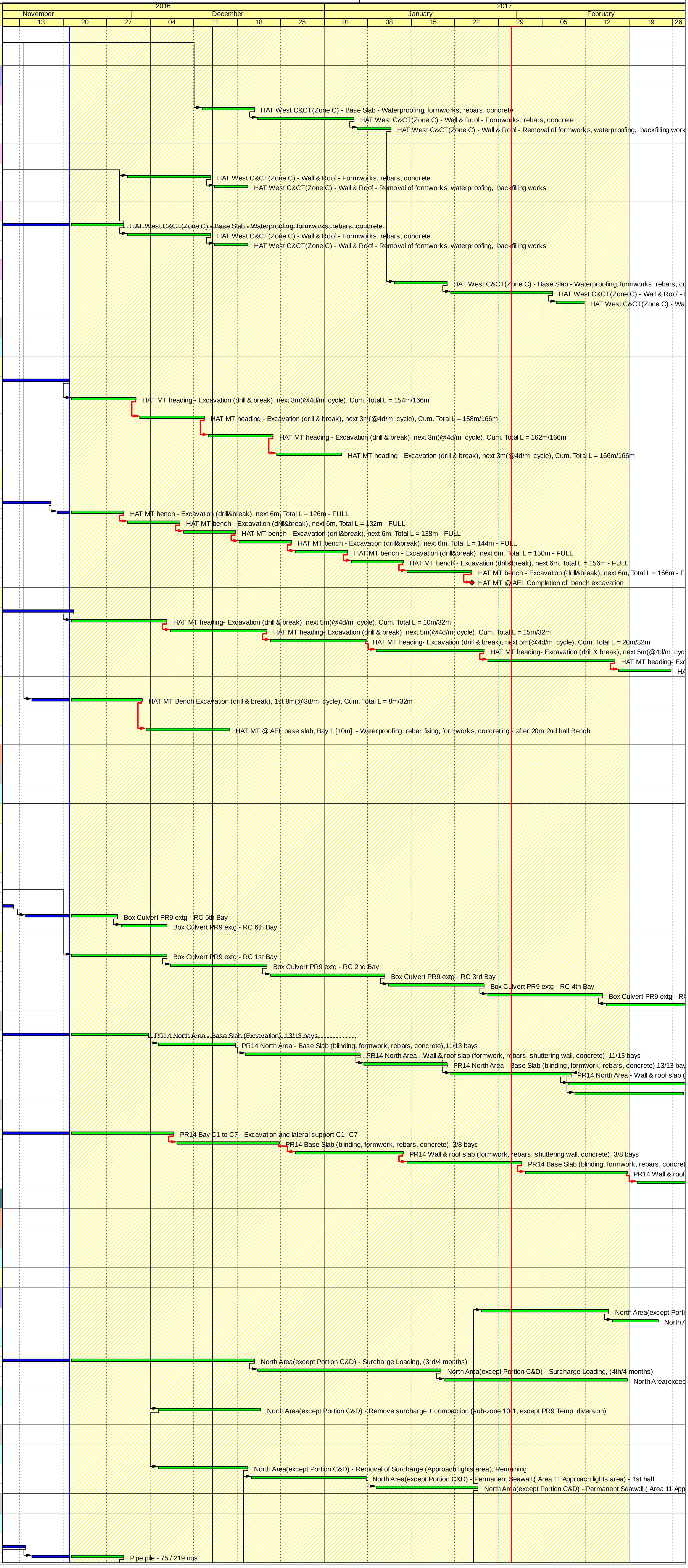
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Dec 2016 to Feb 2017)

Layout HZMB - (3M55 Rolling Prog)

TASK filters: 3M55, HZMB No Level Effort.

Activity ID	Activity Name
HAT1611-691	HAT MT(Zone D) - Excavation (8,966/8,966m3)
HAT1611-731	HAT MT(Zone D) - pipe roofing installation 53/53nos.
RC Works- HAT West CCT, Ch 0+270 to Ch 0+560	
RC Works - Zone C (Ch 0+470 to Ch 0+394)	
Ch. 0+490 to Ch. 0+478, L=12.0m	
HAT1612-1	HAT West C&CT(Zone C) - Base Slab - Waterproofing, formworks, rebars, concrete
HAT1612-2	HAT West C&CT(Zone C) - Wall & Roof - Formworks, rebars, concrete
HAT1612-3	HAT West C&CT(Zone C) - Wall & Roof - Removal of formworks, waterproofing, backfilling works
Ch. 0+478 to Ch. 0+466, L=12.0m	
HAT1612-4	HAT West C&CT(Zone C) - Base Slab - Waterproofing, formworks, rebars, concrete
HAT1612-5	HAT West C&CT(Zone C) - Wall & Roof - Formworks, rebars, concrete
HAT1612-6	HAT West C&CT(Zone C) - Wall & Roof - Removal of formworks, waterproofing, backfilling works
Ch. 0+466 to Ch. 0+454, L=12.0m	
HAT1612-7	HAT West C&CT(Zone C) - Base Slab - Waterproofing, formworks, rebars, concrete
HAT1612-8	HAT West C&CT(Zone C) - Wall & Roof - Formworks, rebars, concrete
HAT1612-9	HAT West C&CT(Zone C) - Wall & Roof - Removal of formworks, waterproofing, backfilling works
Ch. 0+454 to Ch. 0+442, L=12.0m	
HAT1612-55	HAT West C&CT(Zone C) - Base Slab - Waterproofing, formworks, rebars, concrete
HAT1612-19	HAT West C&CT(Zone C) - Wall & Roof - Formworks, rebars, concrete
HAT1612-29	HAT West C&CT(Zone C) - Wall & Roof - Removal of formworks, waterproofing, backfilling works
Mined Tunnel for HAT underneath AEL & at East Coast Road [198m-Drill & Break](Ch 0+557 to Ch 0+756]	
HAT Mined Tunnel Works	
Drive from Shaft 4: HAT Tunnel Excavation - Heading(1st half & 2nd half)	
HAT2015-502	HAT MT heading - Excavation (drill & break), next 3m(@4d/m cycle), Cum. Total L = 150m/166m
HAT2015-512	HAT MT heading - Excavation (drill & break), next 3m(@4d/m cycle), Cum. Total L = 154m/166m
HAT2015-522	HAT MT heading - Excavation (drill & break), next 3m(@4d/m cycle), Cum. Total L = 158m/166m
HAT2015-532	HAT MT heading - Excavation (drill & break), next 3m(@4d/m cycle), Cum. Total L = 162m/166m
HAT2015-542	HAT MT heading - Excavation (drill & break), next 3m(@4d/m cycle), Cum. Total L = 166m/166m
Drive from Shaft 4: HAT Tunnel Excavation - Bench(1st half & 2nd half)	
HAT3480	HAT MT bench - Excavation (drill&break), next 6m, Total L = 114m - FULL
HAT3490	HAT MT bench - Excavation (drill&break), next 6m, Total L = 120m - FULL
HAT3500	HAT MT bench - Excavation (drill&break), next 6m, Total L = 126m - FULL
HAT3510	HAT MT bench - Excavation (drill&break), next 6m, Total L = 132m - FULL
HAT3520	HAT MT bench - Excavation (drill&break), next 6m, Total L = 138m - FULL
HAT3530	HAT MT bench - Excavation (drill&break), next 6m, Total L = 144m - FULL
HAT3540	HAT MT bench - Excavation (drill&break), next 6m, Total L = 150m - FULL
HAT3550	HAT MT bench - Excavation (drill&break), next 6m, Total L = 156m - FULL
HAT3560	HAT MT bench - Excavation (drill&break), next 6m, Total L = 166m - FULL
HAT2170	HAT MT @ AEL Completion of bench excavation
Drive from Zone D: HAT Tunnel Excavation - Heading(1st half & 2nd half)	
HAT2015-422	HAT MT heading - Excavation (drill & break), 1st 5m(@4d/m cycle), Cum. Total L = 5m/32m
HAT2015-432	HAT MT heading- Excavation (drill & break), next 5m(@4d/m cycle), Cum. Total L = 10m/32m
HAT2015-442	HAT MT heading- Excavation (drill & break), next 5m(@4d/m cycle), Cum. Total L = 15m/32m
HAT2015-462	HAT MT heading- Excavation (drill & break), next 5m(@4d/m cycle), Cum. Total L = 20m/32m
HAT2015-472	HAT MT heading- Excavation (drill & break), next 5m(@4d/m cycle), Cum. Total L = 25m/32m
HAT2015-482	HAT MT heading- Excavation (drill & break), next 5m(@4d/m cycle), Cum. Total L = 30m/32m
HAT2015-492	HAT MT heading- Excavation (drill & break), next 2m(@4d/m cycle), Cum. Total L = 32m/32m
Drive from Zone D: HAT Tunnel Excavation - Bench(1st half & 2nd half)	
HAT2060	HAT MT Bench Excavation (drill & break), 1st 8m(@3d/m cycle), Cum. Total L = 8m/32m
Base Slab	
HAT2180	HAT MT @ AEL base slab, Bay 1 [10m] - Waterproofing, rebar fixing, formworks, concreting - after 20m 2nd half Bench
Box Culvert Extension to Outfall PR9 & PR14	
Box Culvert Ext. to New Outfall PR9 (75m Approx.)	
PR09 Extension	
ELS	
BC1200-247	Box Culvert PR9 extg - ELS (5,400m2/9,300m2)
BC1200-257	Box Culvert PR9 extg - ELS (7,200m2/9,300m2)
BC1200-267	Box Culvert PR9 extg - ELS (9,300m2/9,300m2)
RC - Base Slab	
BC1200-277	Box Culvert PR9 extg - RC 1st Bay
BC1200-287	Box Culvert PR9 extg - RC 2nd Bay
BC1200-297	Box Culvert PR9 extg - RC 3rd Bay
BC1200-307	Box Culvert PR9 extg - RC 4th Bay
BC1200-317	Box Culvert PR9 extg - RC 5th Bay
BC1200-327	Box Culvert PR9 extg - RC 6th Bay
RC - Wall Stem / Top Slab	
BC1200-337	Box Culvert PR9 extg - RC 1st Bay
BC1200-347	Box Culvert PR9 extg - RC 2nd Bay
BC1200-357	Box Culvert PR9 extg - RC 3rd Bay
BC1200-367	Box Culvert PR9 extg - RC 4th Bay
BC1200-377	Box Culvert PR9 extg - RC 5th Bay
BC1200-387	Box Culvert PR9 extg - RC 6th Bay
Box Culvert Ext. to New Outfall PR14 (North Area, Bay N1 to N-13)	
BC1160-26	PR14 North Area - Base Slab (Excavation), 13/13 bays
BC1160-14	PR14 North Area - Base Slab (blinding, formwork, rebars, concrete),11/13 bays
BC1160-15	PR14 North Area - Wall & roof slab (formwork, rebars, shuttering wall, concrete), 11/13 bays
BC1160-36	PR14 North Area - Base Slab (blinding, formwork, rebars, concrete),13/13 bays
BC1160-46	PR14 North Area - Wall & roof slab (formwork, rebars, shuttering wall, concrete), 13/13 bays
BC1160-56	PR14 North Area - Connection point (13/13 bays): Re-connection to existing
BC1160-236	PR14 North Area - Connection to exiting outfall
Box Culvert Ext. to New Outfall PR14 (North Area, Bay C1 to C7)	
BC1160-226	PR14 Bay C1 to C7 - Sheepile - Sheetpile C1- C7
BC1160-156	PR14 Bay C1 to C7 - Excavation and lateral support C1- C7
BC1160-166	PR14 Base Slab (blinding, formwork, rebars, concrete), 3/8 bays
BC1160-176	PR14 Wall & roof slab (formwork, rebars, shuttering wall, concrete), 3/8 bays
BC1160-196	PR14 Base Slab (blinding, formwork, rebars, concrete), 5/8 bays
BC1160-206	PR14 Wall & roof slab (formwork, rebars, shuttering wall, concrete), 5/8 bays
BC1160-76	PR14 Base Slab (blinding, formwork, rebars, concrete), 8/8 bays
WORKS IN NORTH AREA - CH 15+500 to CH 16+223 (HKLR AT GRADE & ROADWORKS)	
Reclamation SWCH 1+400 to SWCH 1+830 (incl. Approach Lights Area, 430m Approx.)	
Reclamation SWCH 1+400 to SWCH 1+590)(incl. PR09 Temp. Diversion Area)	
Reclamation SWCH 1+400 to 1+500 (PR09 Temp. Diversion)	
Seawall Construction (Except Portion C & D) CH 1+400 to CH 1+850)	
SWCH 1+600 to SWCH 1+700	
RSC1160	North Area(except Portion C&D)- Seawall, Trimming & Laying Geotextile along seawall line
RSC1161	North Area(except Portion C&D) - Seawall, Rockfill Core
Reclamation SWCH 1+400 to 1+500 (Area10-2 - after PR9 2nd Temp. diversion)	
RSC1070-420	North Area(except Portion C&D) - Surcharge Loading, (2nd/4 months)
RSC1070-430	North Area(except Portion C&D) - Surcharge Loading, (3rd/4 months)
RSC1070-440	North Area(except Portion C&D) - Surcharge Loading, (4th/4 months)
RSC1070-450	North Area(except Portion C&D) - Remove surcharge & compaction to +5.5mPD
Reclamation SWCH 1+500 to 1+590 (Except PR09 Temp. Diversion Area)	
RSC1070-95	North Area(except Portion C&D) - Remove surcharge + compaction (sub-zone 10-1, except PR9 Temp. diversion)
Reclamation SWCH 1+590 to 1+830 (including Approach Lights Area)	
Reclamation SWCH 1+590 to 1+750 (Approach Lights Area - Area 2)	
RSC1070-310	North Area(except Portion C&D) - Removal of Surcharge (Approach lights area), Remaining
RSC1070-380	North Area(except Portion C&D) - Permanent Seawall.(Area 11 Approach lights area) - 1st half
RSC1070-29	North Area(except Portion C&D) - Permanent Seawall.(Area 11 Approach lights area) - 2nd half
VO 16 - 610mm Pipe Piles (SWCH1+704 to SWCH 2+030)	
VO 16 - 610mm Pipe Piles (SWCH1+704 to SWCH 2+030) - Drilling	
RSC.110	Pipe pile - 25 / 219 nos
RSC.120	Pipe pile - 50 / 219 nos
RSC.130	Pipe pile - 75 / 219 nos



FILE: 3M55 (Rev.00)

Sheet 7 of 9

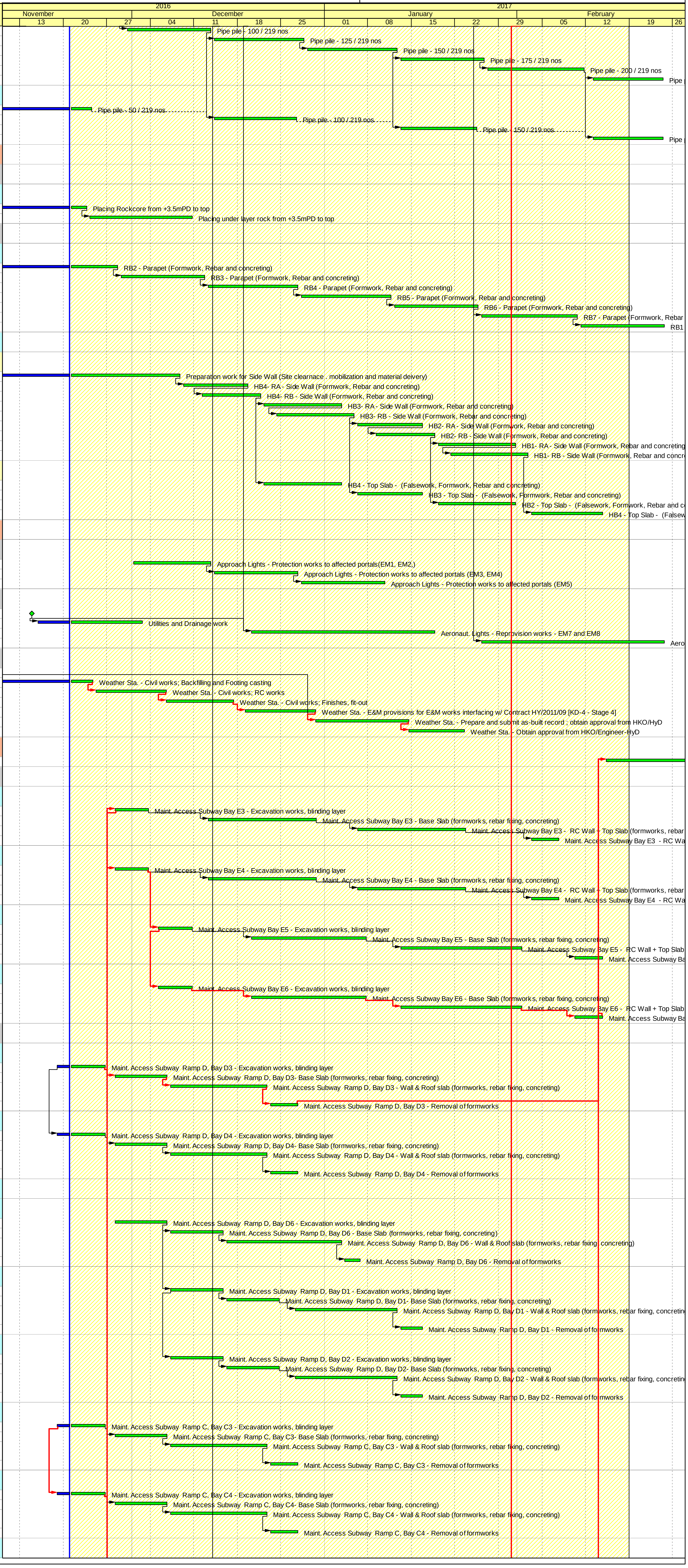
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Dec 2016 to Feb 2017)

Layout HZMB - (3M55 Rolling Prog)

TASK filters: 3M55, HZMB No Level Effort.

Activity ID	Activity Name
RSC.140	Pipe pile - 100 / 219 nos
RSC.150	Pipe pile - 125 / 219 nos
RSC.160	Pipe pile - 150 / 219 nos
RSC.170	Pipe pile - 175 / 219 nos
RSC.180	Pipe pile - 200 / 219 nos
RSC.190	Pipe pile - 219 / 219 nos
VO 16 - 610mm Pipe Piles (SWCH1+704 to SWCH 2+030) - Grouting	
RSC.550	Pipe pile - 50 / 219 nos
RSC.560	Pipe pile - 100 / 219 nos
RSC.570	Pipe pile - 150 / 219 nos
RSC.580	Pipe pile - 200 / 219 nos
"Zone D" - Portion C & D1 From SWCH1+830 to SWCH 2+070	
Seawall Construction (Portion C and D1) CH 1+850 to CH 2+070	
Seawall 2nd Layer/Final Layer (Ch 2+000 - Ch2+070)	
RSC1490	Placing Rockcore from +3.5mPD to top
RSC1500	Placing under layer rock from +3.5mPD to top
Portion D1	
Parapet (RB1 - RB7)	
RA2380	RB2 - Parapet (Formwork, Rebar and concreting)
RA2390	RB3 - Parapet (Formwork, Rebar and concreting)
RA2420	RB4 - Parapet (Formwork, Rebar and concreting)
RA2430	RB5 - Parapet (Formwork, Rebar and concreting)
RA2370	RB6 - Parapet (Formwork, Rebar and concreting)
RA2410	RB7 - Parapet (Formwork, Rebar and concreting)
RA2400	RB1 - Parapet (Formwork, Rebar and concreting)
Retaining Structure (HB1 - HB4)	
Wall (HB1 - HB4)	
RA2360	Preparation work for Side Wall (Site clearnace . mobilization and material deivery)
RA2180	HB4- RA - Side Wall (Formwork, Rebar and concreting)
RA2190	HB4- RB - Side Wall (Formwork, Rebar and concreting)
RA2200	HB3- RA - Side Wall (Formwork, Rebar and concreting)
RA2210	HB3- RB - Side Wall (Formwork, Rebar and concreting)
RA2230	HB2- RA - Side Wall (Formwork, Rebar and concreting)
RA2330	HB2- RB - Side Wall (Formwork, Rebar and concreting)
RA2320	HB1- RA - Side Wall (Formwork, Rebar and concreting)
RA2220	HB1- RB - Side Wall (Formwork, Rebar and concreting)
Top Slab (HB1 - HB4)	
RA2240	HB4 - Top Slab - (Falsework, Formwork, Rebar and concreting)
RA2250	HB3 - Top Slab - (Falsework, Formwork, Rebar and concreting)
RA2270	HB2 - Top Slab - (Falsework, Formwork, Rebar and concreting)
RA2290	HB4 - Top Slab - (Falsework, Formwork, Rebar and concreting)
Reprovisioning Works	
Protection Works to Existing Approach Lights & Weather Station	
RSC1105-2	Approach Lights - Protection works to affected portals(EM1, EM2,)
RSC1105-3	Approach Lights - Protection works to affected portals (EM3, EM4)
RSC1105-4	Approach Lights - Protection works to affected portals (EM5)
Aeronautical Lights [4 nos. affected]	
AL.180	Aeronaut. Lights - SOR and AA Approval
AL.190	Utilities and Drainage work
AL.150	Aeronaut. Lights - Reprovision works - EM7 and EM8
AL.160	Aeronaut. Lights - Reprovision works - EM6 and EM7
Weather Station	
WS1030	Weather Sta. - Civil works; Excavation and laying utilities Duct
WS1120	Weather Sta. - Civil works; Backfilling and Footing casting
WS1130	Weather Sta. - Civil works; RC works
WS1140	Weather Sta. - Civil works; Finishes, fit-out
WS1040	Weather Sta. - E&M provisions for E&M works interfacing w/ Contract HY/2011/09 [KD-4 - Stage 4]
WS1050	Weather Sta. - Prepare and submit as-built record ; obtain approval from HKO/HyD
WS1060	Weather Sta. - Obtain approval from HKO/Engineer-HyD
Maintenance Access Subway bet. New Weather Station & Aeronautical Lights	
MAS1060	Maint. Access Subway - E&M works
Subway	
Bay E3	
MAS2195	Maint. Access Subway Bay E3 - Excavation works, blinding layer
MAS2205	Maint. Access Subway Bay E3 - Base Slab (formworks, rebar fixing, concreting)
MAS2215	Maint. Access Subway Bay E3 - RC Wall + Top Slab (formworks, rebar fixing, concreting)
MAS2225	Maint. Access Subway Bay E3 - RC Wall + Top Slab (formworks removal)
Bay E4	
MAS2235	Maint. Access Subway Bay E4 - Excavation works, blinding layer
MAS2245	Maint. Access Subway Bay E4 - Base Slab (formworks, rebar fixing, concreting)
MAS2255	Maint. Access Subway Bay E4 - RC Wall + Top Slab (formworks, rebar fixing, concreting)
MAS2265	Maint. Access Subway Bay E4 - RC Wall + Top Slab (formworks removal)
Bay E5	
MAS2275	Maint. Access Subway Bay E5 - Excavation works, blinding layer
MAS2285	Maint. Access Subway Bay E5 - Base Slab (formworks, rebar fixing, concreting)
MAS2295	Maint. Access Subway Bay E5 - RC Wall + Top Slab (formworks, rebar fixing, concreting)
MAS2305	Maint. Access Subway Bay E5 - RC Wall + Top Slab (formworks removal)
Bay E6	
MAS2315	Maint. Access Subway Bay E6 - Excavation works, blinding layer
MAS2325	Maint. Access Subway Bay E6 - Base Slab (formworks, rebar fixing, concreting)
MAS2335	Maint. Access Subway Bay E6 - RC Wall + Top Slab (formworks, rebar fixing, concreting)
MAS2345	Maint. Access Subway Bay E6 - RC Wall + Top Slab (formworks removal)
RAMP C&D (Reclamation Area)	
Bay D3	
MAS2435	Maint. Access Subway Ramp D, Bay D3 - Excavation works, blinding layer
MAS2445	Maint. Access Subway Ramp D, Bay D3- Base Slab (formworks, rebar fixing, concreting)
MAS2455	Maint. Access Subway Ramp D, Bay D3 - Wall & Roof slab (formworks, rebar fixing, concreting)
MAS2465	Maint. Access Subway Ramp D, Bay D3 - Removal of formworks
Bay D4	
MAS2555	Maint. Access Subway Ramp D, Bay D4 - Excavation works, blinding layer
MAS2565	Maint. Access Subway Ramp D, Bay D4- Base Slab (formworks, rebar fixing, concreting)
MAS2575	Maint. Access Subway Ramp D, Bay D4 - Wall & Roof slab (formworks, rebar fixing, concreting)
MAS2585	Maint. Access Subway Ramp D, Bay D4 - Removal of formworks
Bay D5	
Bay D6	
MAS2635	Maint. Access Subway Ramp D, Bay D6 - Excavation works, blinding layer
MAS2645	Maint. Access Subway Ramp D, Bay D6 - Base Slab (formworks, rebar fixing, concreting)
MAS2655	Maint. Access Subway Ramp D, Bay D6 - Wall & Roof slab (formworks, rebar fixing, concreting)
MAS2665	Maint. Access Subway Ramp D, Bay D6 - Removal of formworks
Bay D1	
MAS2355	Maint. Access Subway Ramp D, Bay D1 - Excavation works, blinding layer
MAS2365	Maint. Access Subway Ramp D, Bay D1- Base Slab (formworks, rebar fixing, concreting)
MAS2375	Maint. Access Subway Ramp D, Bay D1 - Wall & Roof slab (formworks, rebar fixing, concreting)
MAS2385	Maint. Access Subway Ramp D, Bay D1 - Removal of formworks
Bay D2	
MAS2395	Maint. Access Subway Ramp D, Bay D2 - Excavation works, blinding layer
MAS2405	Maint. Access Subway Ramp D, Bay D2- Base Slab (formworks, rebar fixing, concreting)
MAS2415	Maint. Access Subway Ramp D, Bay D2 - Wall & Roof slab (formworks, rebar fixing, concreting)
MAS2425	Maint. Access Subway Ramp D, Bay D2 - Removal of formworks
Bay C3	
MAS1370	Maint. Access Subway Ramp C, Bay C3 - Excavation works, blinding layer
MAS1380	Maint. Access Subway Ramp C, Bay C3- Base Slab (formworks, rebar fixing, concreting)
MAS1390	Maint. Access Subway Ramp C, Bay C3 - Wall & Roof slab (formworks, rebar fixing, concreting)
MAS1400	Maint. Access Subway Ramp C, Bay C3 - Removal of formworks
Bay C4	
MAS1410	Maint. Access Subway Ramp C, Bay C4 - Excavation works, blinding layer
MAS1420	Maint. Access Subway Ramp C, Bay C4- Base Slab (formworks, rebar fixing, concreting)
MAS1430	Maint. Access Subway Ramp C, Bay C4 - Wall & Roof slab (formworks, rebar fixing, concreting)
MAS1440	Maint. Access Subway Ramp C, Bay C4 - Removal of formworks
Bay C5	



FILE: 3M55 (Rev.00)

Sheet 8 of 9

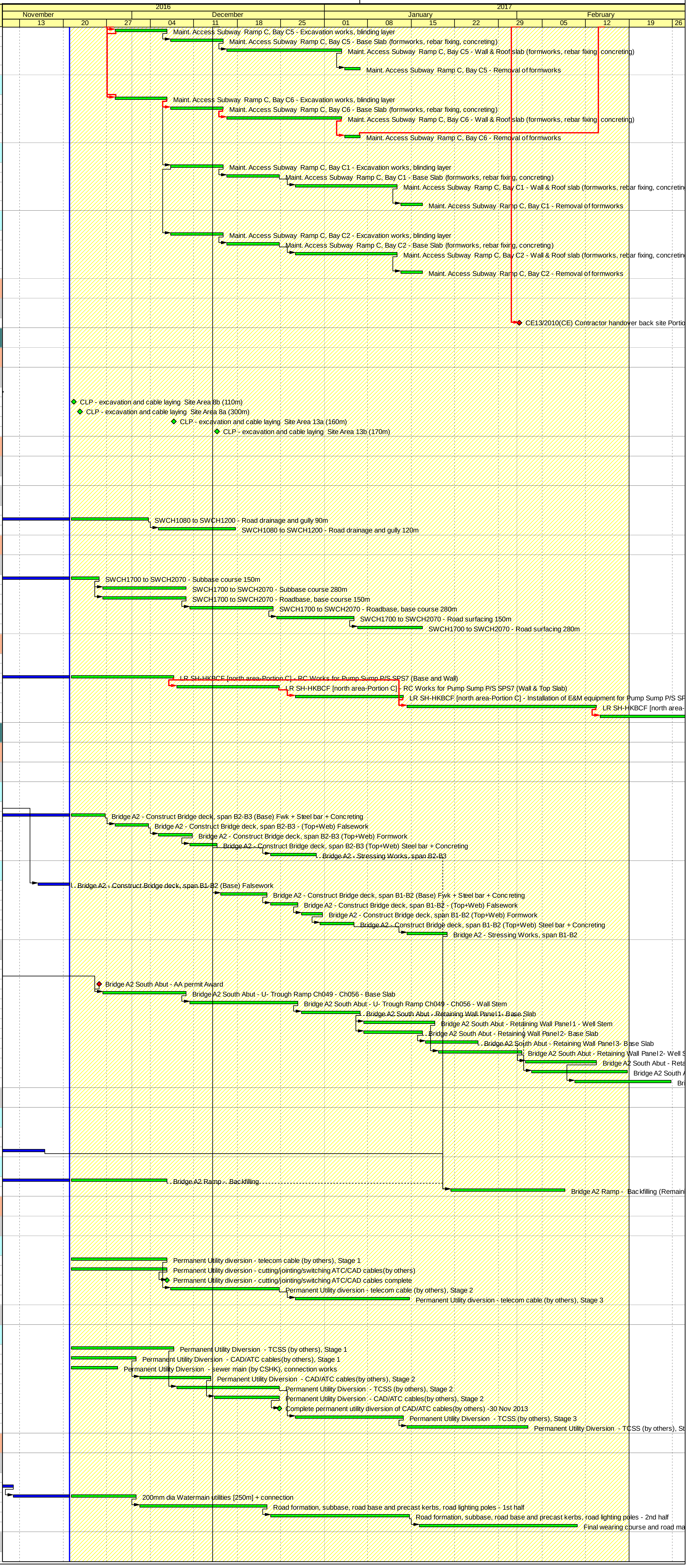
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Dec 2016 to Feb 2017)

Layout HZMB - (3M55 Rolling Prog)

TASK filters: 3M55, HZMB No Level Effort.

Activity ID	Activity Name
MAS2115	Maint. Access Subway Ramp C, Bay C5 - Excavation works, blinding layer
MAS2125	Maint. Access Subway Ramp C, Bay C5 - Base Slab (formworks, rebar fixing, concreting)
MAS2135	Maint. Access Subway Ramp C, Bay C5 - Wall & Roof slab (formworks, rebar fixing, concreting)
MAS2145	Maint. Access Subway Ramp C, Bay C5 - Removal of formworks
Bay C6	
MAS2155	Maint. Access Subway Ramp C, Bay C6 - Excavation works, blinding layer
MAS2165	Maint. Access Subway Ramp C, Bay C6 - Base Slab (formworks, rebar fixing, concreting)
MAS2175	Maint. Access Subway Ramp C, Bay C6 - Wall & Roof slab (formworks, rebar fixing, concreting)
MAS2185	Maint. Access Subway Ramp C, Bay C6 - Removal of formworks
Bay C1	
MAS2475	Maint. Access Subway Ramp C, Bay C1 - Excavation works, blinding layer
MAS2485	Maint. Access Subway Ramp C, Bay C1 - Base Slab (formworks, rebar fixing, concreting)
MAS2495	Maint. Access Subway Ramp C, Bay C1 - Wall & Roof slab (formworks, rebar fixing, concreting)
MAS2505	Maint. Access Subway Ramp C, Bay C1 - Removal of formworks
Bay C2	
MAS2515	Maint. Access Subway Ramp C, Bay C2 - Excavation works, blinding layer
MAS2525	Maint. Access Subway Ramp C, Bay C2 - Base Slab (formworks, rebar fixing, concreting)
MAS2535	Maint. Access Subway Ramp C, Bay C2 - Wall & Roof slab (formworks, rebar fixing, concreting)
MAS2545	Maint. Access Subway Ramp C, Bay C2 - Removal of formworks
At-Grade Link Road bet. HKBCF and HKIA	
Interface w/ CE13/2010(CE)-Portion D1	
LR2240	CE13/2010(CE) Contractor handover back site Portion D1 to CSCEC [POS150]
T001 / T002 ON GRADE ROADWORKS (Works under Section 1]	
TCSS, E&M and Utility	
CLP cable laying (by CLP)	
LR.1205-705	CLP - excavation and cable laying Site Area 15 (110m)
LR.1205-796	CLP - excavation and cable laying Site Area 8b (110m)
LR.1205-786	CLP - excavation and cable laying Site Area 8a (300m)
LR.1205-685	CLP - excavation and cable laying Site Area 13a (160m)
LR.1205-695	CLP - excavation and cable laying Site Area 13b (170m)
Drainage Work	
SWCH1720 to SWCH2000	
LR.1205-746	SWCH1700 to SWCH2070 - Road drainage and gully 370m
SWCH1080 to SWCH1200	
LR.1205-806	SWCH1080 to SWCH1200 - Road drainage and gully 60m
LR.1205-816	SWCH1080 to SWCH1200 - Road drainage and gully 90m
LR.1205-926	SWCH1080 to SWCH1200 - Road drainage and gully 120m
Roadworks	
SWCH1720 to SWCH2000	
LR.1205-936	SWCH1700 to SWCH2070 - Subbase course 150m
LR.1205-946	SWCH1700 to SWCH2070 - Subbase course 280m
LR.1205-956	SWCH1700 to SWCH2070 - Roadbase, base course 150m
LR.1205-966	SWCH1700 to SWCH2070 - Roadbase, base course 280m
LR.1205-976	SWCH1700 to SWCH2070 - Road surfacing 150m
LR.1205-1016	SWCH1700 to SWCH2070 - Road surfacing 280m
Interface w/ HY/2010/02- 16+045 to 16+223.24	
A237402	LR SH-HKBCF [north area-Portion C] - Excavation for Pump Sump P/S SPS7, 1st half
A237403	LR SH-HKBCF [north area-Portion C] - Excavation for Pump Sump P/S SPS7, Formation level
A237404	LR SH-HKBCF [north area-Portion C] - RC Works for Pump Sump P/S SPS7 (Base and Wall)
A238294	LR SH-HKBCF [north area-Portion C] - RC Works for Pump Sump P/S SPS7 (Wall & Top Slab)
A238284	LR SH-HKBCF [north area-Portion C] - Installation of E&M equipment for Pump Sump P/S SPS7
LR2540	LR SH-HKBCF [north area-Portion C] - Backfilling and Site formation
LR2550	LR SH-HKBCF [north area-Portion C] - Road alignment formation
NB AIRPORT ROAD WORKS (INCL. BA2) - under Section 2 (Middle to North Area)	
Works in Bridge A2, under Stage 2 TTA, Diversion of SB Airport Rd (Works under Section 2)	
BA2- Bridge Deck	
Span B2-B3	
BA2.1830-138	Bridge A2 - Construct Bridge deck, span B2-B3 (Base) Falsework
BA2.1830-128	Bridge A2 - Construct Bridge deck, span B2-B3 (Base) Fwk + Steel bar + Concreting
BA2.1830-168	Bridge A2 - Construct Bridge deck, span B2-B3 - (Top+Web) Falsework
BA2.1830-148	Bridge A2 - Construct Bridge deck, span B2-B3 (Top+Web) Formwork
BA2.1830-158	Bridge A2 - Construct Bridge deck, span B2-B3 (Top+Web) Steel bar + Concreting
BA2.1830-108	Bridge A2 - Stressing Works, span B2-B3
Span B1-B2	
BA2.1830-238	Bridge A2 - Construct Bridge deck, span B1-B2 (Base) Falsework
BA2.1830-188	Bridge A2 - Construct Bridge deck, span B1-B2 (Base) Fwk + Steel bar + Concreting
BA2.1830-228	Bridge A2 - Construct Bridge deck, span B1-B2 - (Top+Web) Falsework
BA2.1830-208	Bridge A2 - Construct Bridge deck, span B1-B2 (Top+Web) Formwork
BA2.1830-218	Bridge A2 - Construct Bridge deck, span B1-B2 (Top+Web) Steel bar + Concreting
BA2.1830-178	Bridge A2 - Stressing Works, span B1-B2
BA2 -South Abutment and Ramp	
BA2.1205-555	Bridge A2 South Abut - Preparation work for demolish extg bridge staircase
BA2.1205-365	Bridge A2 South Abut - Demolish extg bridge staircase
BA2.1205-865	Bridge A2 South Abut - AA permit Award
BA2.1205-405	Bridge A2 South Abut - U- Trough Ramp Ch049 - Ch056 - Base Slab
BA2.1205-475	Bridge A2 South Abut - U- Trough Ramp Ch049 - Ch056 - Wall Stem
BA2.1205-375	Bridge A2 South Abut - Retaining Wall Panel1- Base Slab
BA2.1205-415	Bridge A2 South Abut - Retaining Wall Panel1 - Well Stem
BA2.1205-435	Bridge A2 South Abut - Retaining Wall Panel2- Base Slab
BA2.1205-455	Bridge A2 South Abut - Retaining Wall Panel3- Base Slab
BA2.1205-445	Bridge A2 South Abut - Retaining Wall Panel2- Well Stem
BA2.1205-465	Bridge A2 South Abut - Retaining Wall Panel3 - Well Stem
BA2.1205-395	Bridge A2 South Abut - Backfilling - 1st half
BA2.1205-485	Bridge A2 South Abut - Backfilling - 2nd half
BA2 -North Abutment and Ramp	
North Abutment	
BA2.1205-545	Bridge A2 North Abut - Abutment Wall Stem, Wing wall (fwk & rebar)
BA2.1205-235	Bridge A2 North Abut - Abutment Wall Stem, Wing Wall (Concreting)
BA2.1205-275	Bridge A2 North Abut - Preparation work and Backfilling
BA2 - North Abutment and Ramp - Waterproofing and Backfilling	
BA2.1205-795	Bridge A2 Ramp - Backfilling
BA2.1205-805	Bridge A2 Ramp - Backfilling (Remaining)
Utility Culverts 1, 2 & 3 (Works under Section 2)	
Utility Culvert No. 1 Ext. across the road leading to Cheong Hong Road [48m Approx.]-1	
Permanent Utility Diversion inside UC 1	
UC1.1114	Permanent Utility diversion - telecom cable (by others), Stage 1
UC1.1115	Permanent Utility diversion - cutting/jointing/switching ATC/CAD cables(by others)
UC1.1116	Permanent Utility diversion - cutting/jointing/switching ATC/CAD cables complete
UC1.1163	Permanent Utility diversion - telecom cable (by others), Stage 2
UC1.1173	Permanent Utility diversion - telecom cable (by others), Stage 3
Utility Culvert No. 2 Ext. near Bridge A2 [15m Approx.] (Works under Section 2)	
Permanent Utility Diversion inside UC2	
UC2.1058	Permanent Utility Diversion - TCSS (by others), Stage 1
UC2.1059	Permanent Utility Diversion - CAD/ATC cables(by others), Stage 1
UC2.10525	Permanent Utility Diversion - sewer main (by CSHK), connection works
UC2.10591	Permanent Utility Diversion - CAD/ATC cables(by others), Stage 2
UC2.10581	Permanent Utility Diversion - TCSS (by others), Stage 2
UC2.10592	Permanent Utility Diversion - CAD/ATC cables(by others), Stage 2
UC2.1061	Complete permanent utility diversion of CAD/ATC cables(by others) -30 Nov 2013
UC2.10582	Permanent Utility Diversion - TCSS (by others), Stage 3
UC2.105241	Permanent Utility Diversion - TCSS (by others), Stage 4
Roadworks to be constructed under Stage 2 TTA	
M003 Ch 0+400 to 0+800 (Permanent), L=400m	
A2860-1	200mm dia Watermain utilities [100m]
A2860-14	200mm dia Watermain utilities [200m]
A2860-24	200mm dia Watermain utilities [250m] + connection
A2870	Road formation, subbase, road base and precast kerbs, road lighting poles - 1st half
A237824	Road formation, subbase, road base and precast kerbs, road lighting poles - 2nd half
A2880	Final wearing course and road marking and traffic signs, road lighting lamps & T&C
M004 (from BA2) Ch 0+600 to 0+730 (Permanent), L=130m	
A3360	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), Stage 1



FILE: 3M55 (Rev.00)

Sheet 9 of 9

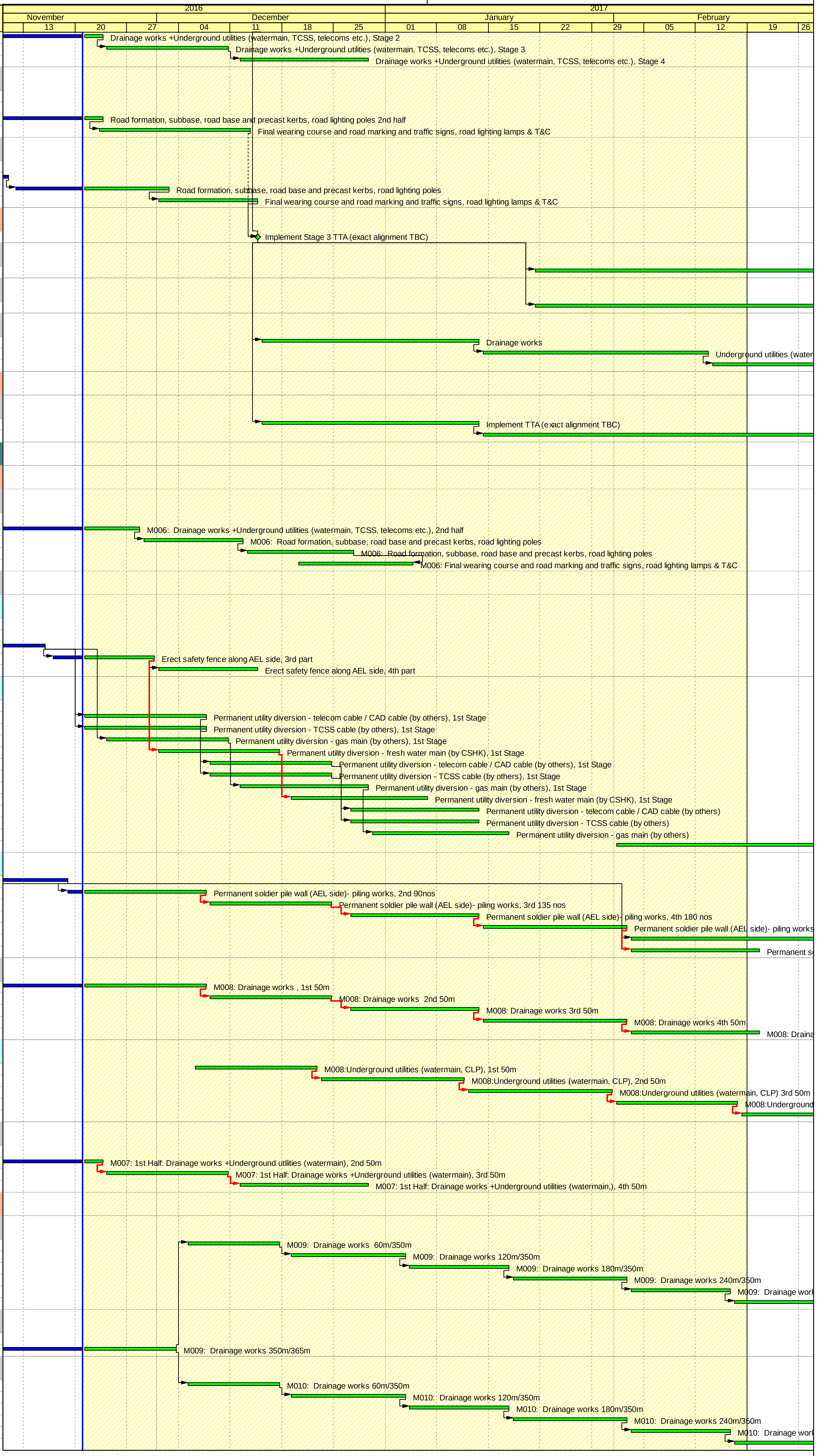
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Dec 2016 to Feb 2017)

Layout HZMB - (3M55 Rolling Prog)

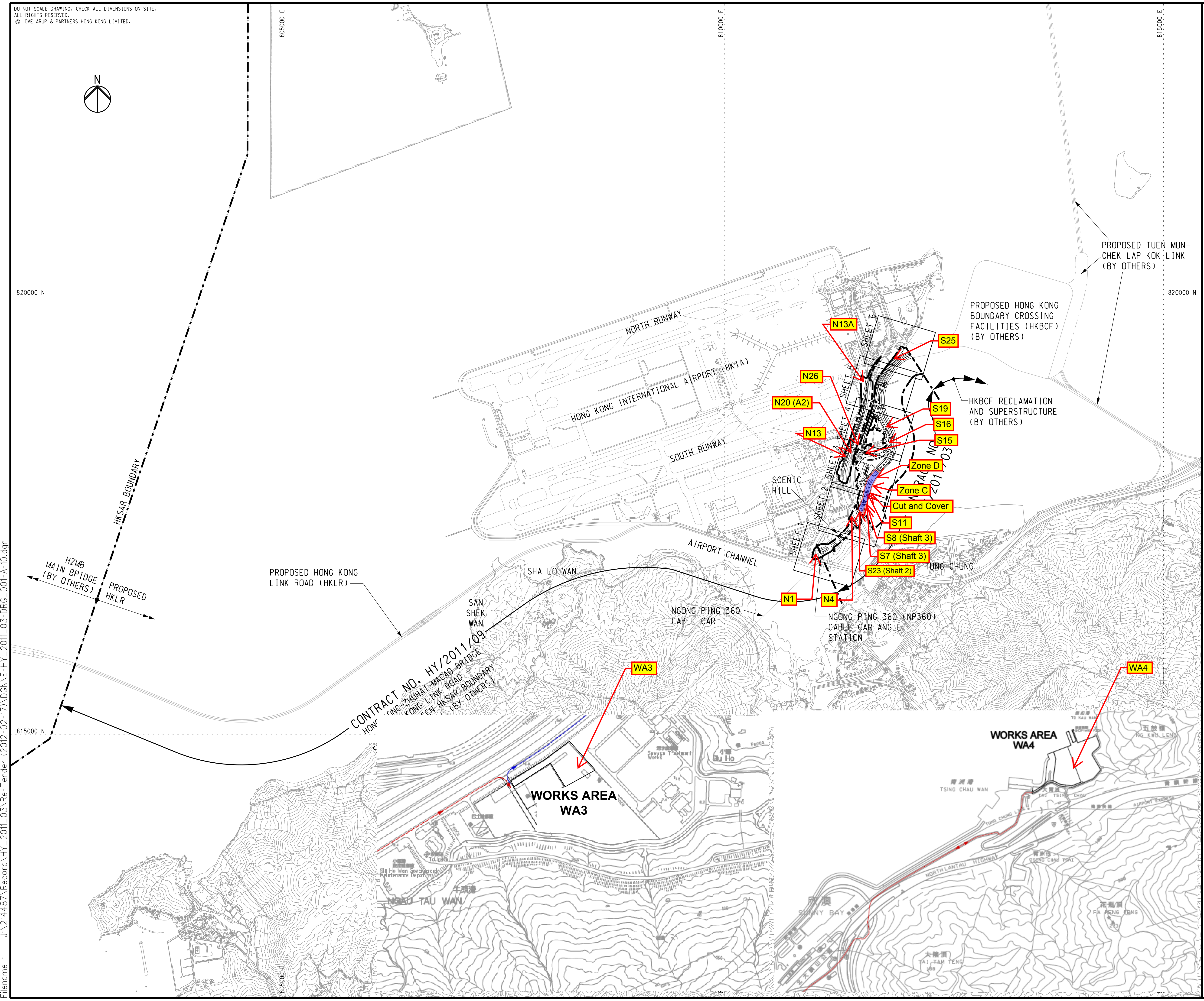
TASK filters: 3M55, HZMB No Level Effort.

Activity ID	Activity Name
A3370	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), Stage 2
A3460	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), Stage 3
A2920	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), Stage 4
M001 Ch 0+550 to 0+981 (UC3 Area) (Permanent), L=431m	
A237804	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.) 2nd half
A3150	Road formation, subbase, road base and precast kerbs, road lighting poles 1st half
A237814	Road formation, subbase, road base and precast kerbs, road lighting poles 2nd half
A3140	Final wearing course and road marking and traffic signs, road lighting lamps & T&C
Temporary Slip Road (3 lanes going NB Airport Rd to T1 & T2)	
A2890	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.) 1st half
A237794	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.) 2nd half
A2900	Road formation, subbase, road base and precast kerbs, road lighting poles
A2910	Final wearing course and road marking and traffic signs, road lighting lamps & T&C
Roadworks to be constructed under Stage 3 TTA	
A2670	Implement Stage 3 TTA (exact alignment TBC)
M003 Ch 0+800 to 1+200	
A3050	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.)
M005 Ch 0+000 to 0+200, (Permanent) L= 200m (after HAT Ramp)	
A2950	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.)
Temporary Slip Road (going NB Airport Rd to T1 & T2)	
A3010	Drainage works
A3020	Underground utilities (watermain, TCSS, telecoms etc.)
A3030	Road formation, subbase, road base and precast kerbs, road lighting poles
Remaining Permanent Roadworks under diff. TTA Schemes	
M002 connection to existing road	
A3080	Implement TTA (exact alignment TBC)
A3090	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.)
EAST COAST ROAD WORKS (INCL. BA1 & DEP. RD.) - under Section 2 (Middle to North Area)	
Works to be constructed under Stage 3 TTA (divert traffic to BA1 & ex. ECR SB RD/ Future M009)	
Construct M006 (except entrance to ex. Tung Fai Rd)	
A4411	M006: Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 1st half
A4610	M006: Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 2nd half
A4620	M006: Road formation, subbase, road base and precast kerbs, road lighting poles
A4621	M006: Road formation, subbase, road base and precast kerbs, road lighting poles
A4630	M006: Final wearing course and road marking and traffic signs, road lighting lamps & T&C
Stage 2 ELS - Permanent Soldier Pile Wall along AEL	
Initial Works	
A237834	Fabrication of safety fence along AEL
A3939	Erect safety fence along AEL side, 1st part
A3940	Erect safety fence along AEL side, 2nd part
A237614	Erect safety fence along AEL side, 3rd part
A237624	Erect safety fence along AEL side, 4th part
Utilities Permanent Diversion at BA1/Depressed Rd Area	
A238044	Permanent utility diversion - CLP cable civil prov. works, 5th stage 110m - portion B
A3840	Permanent utility diversion - telecom cable / CAD cable (by others), 1st Stage
A3850	Permanent utility diversion - TCSS cable (by others), 1st Stage
A3900	Permanent utility diversion - gas main (by others), 1st Stage
A3880	Permanent utility diversion - fresh water main (by CSHK), 1st Stage
A3911	Permanent utility diversion - telecom cable / CAD cable (by others), 1st Stage
A3921	Permanent utility diversion - TCSS cable (by others), 1st Stage
A3930	Permanent utility diversion - gas main (by others), 1st Stage
A3891	Permanent utility diversion - fresh water main (by CSHK), 1st Stage
A3841	Permanent utility diversion - telecom cable / CAD cable (by others)
A3851	Permanent utility diversion - TCSS cable (by others)
A3901	Permanent utility diversion - gas main (by others)
A3920	Permanent utility diversion - CLP cable (by CLP)
Construction - Permanent Soldier Pile Wall	
A3990	Permanent soldier pile wall (AEL side)- piling works, 1st 45nos
A237494	Permanent soldier pile wall (AEL side)- piling works, 2nd 90nos
A237504	Permanent soldier pile wall (AEL side)- piling works, 3rd 135 nos
A238244	Permanent soldier pile wall (AEL side)- piling works, 4th 180 nos
A238254	Permanent soldier pile wall (AEL side)- piling works, 5th 225 nos
A4010	Permanent soldier pile wall (AEL side) - capping beam & lagging wall, 1st half
A238264	Permanent soldier pile wall (AEL side)- piling works, 6th 270 nos
Construct M008, Ch 0+100 to Ch 0+787, L=687m (except Depressed Rd. Area)	
A4370	M008: Drainage works , 1st 50m
A4371	M008: Drainage works 2nd 50m
A4372	M008: Drainage works 3rd 50m
A4373	M008: Drainage works 4th 50m
A4374	M008: Drainage works 5th 50m
Underground utilities	
A237934	M008:Underground utilities (watermain, CLP), 1st 50m
A237974	M008:Underground utilities (watermain, CLP), 2nd 50m
A237984	M008:Underground utilities (watermain, CLP) 3rd 50m
A237994	M008:Underground utilities (watermain, CLP) 4th 50m
A238004	M008:Underground utilities (watermain, CLP) 5th 50m
Construct M007 Ch. 0+100 to Ch. 0+483), L=383m	
A4540	M007: 1st Half: Drainage works +Underground utilities (watermain), 1st 50m
A4720	M007: 1st Half: Drainage works +Underground utilities (watermain), 2nd 50m
A4730	M007: 1st Half: Drainage works +Underground utilities (watermain), 3rd 50m
A4900	M007: 1st Half: Drainage works +Underground utilities (watermain,), 4th 50m
Construct Remaining M009 and M010 (at North Area)	
Construct M009 Ch 0+700 to Ch 1+050, L= 350m	
A4790	M009: Drainage works 60m/350m
A238054	M009: Drainage works 120m/350m
A238064	M009: Drainage works 180m/350m
A238074	M009: Drainage works 240m/350m
A238084	M009: Drainage works 300m/350m
A238094	M009: Drainage works 350m/350m
Construct M009 Ch 1+050 to Ch 1+415, L= 365m	
A238154	M009: Drainage works 300m/365m
A238104	M009: Drainage works 350m/365m
Construct M010 Ch 0+700 to Ch 1+050, L= 350m	
A4750	M010: Drainage works 60m/350m
A238164	M010: Drainage works 120m/350m
A238174	M010: Drainage works 180m/350m
A238184	M010: Drainage works 240m/350m
A238194	M010: Drainage works 300m/350m
A238204	M010: Drainage works 350m/350m



APPENDIX C

Location of Works Areas



NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NOS. 214487/2/T/002 - 007.

LEGEND

—·—·— SITE BOUNDARY

Rev	Description	By	Date
A	TENDER ISSUE	IL	02/12

Consultant

ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contract No. and Title:

Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

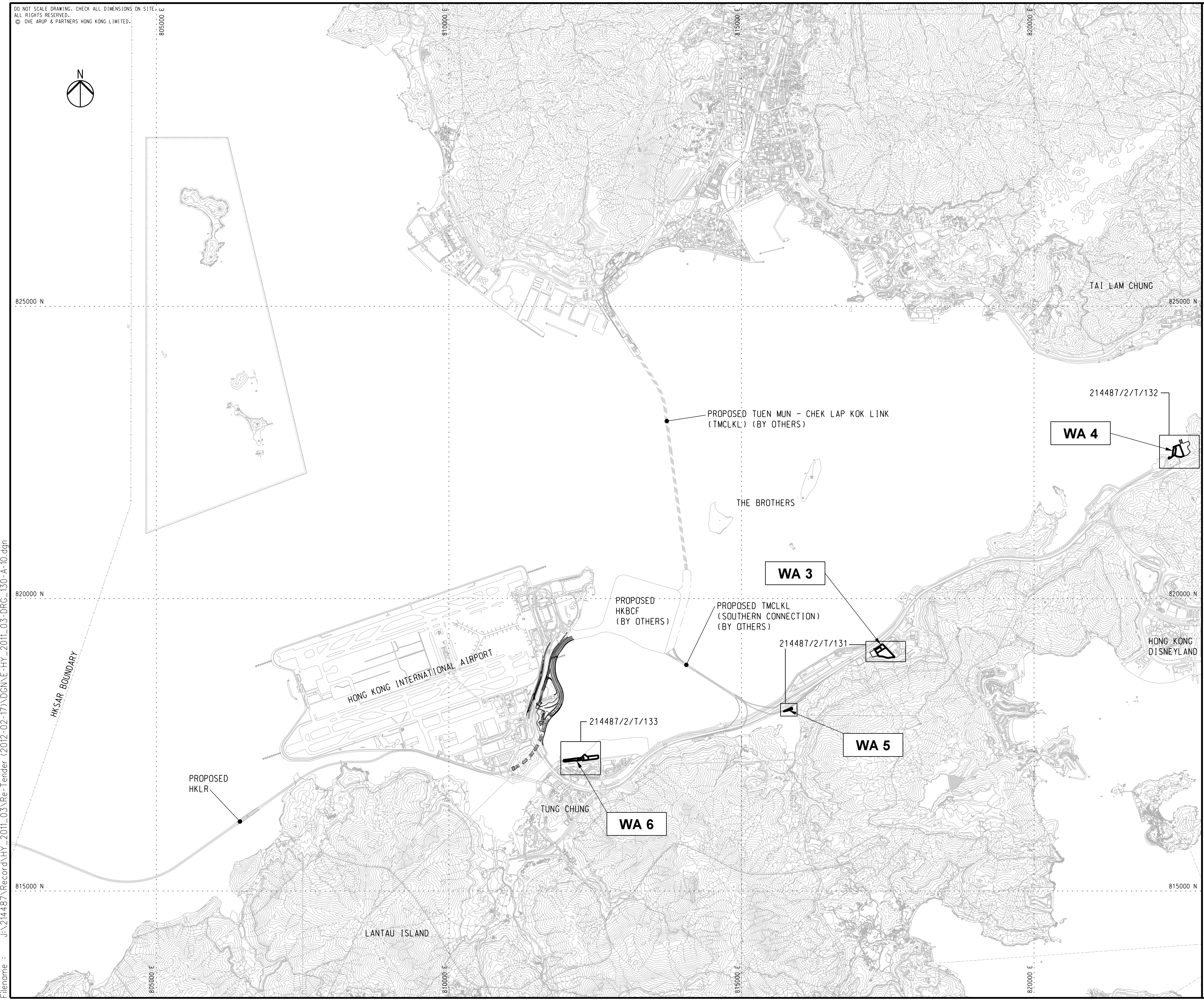
Drawing title

GENERAL LAYOUT
KEY PLAN

Drawing no.			Rev.
214487/2/T/001			A
Drawn RY	Date 02/12	Checked IL	Approved SK
Scale 1:20000 @A1		Status TENDER	

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Printed by : 13/2/2012
Filename : J:\214487\Record\HY_2011_03\Re-Tender (2012-02-17)\DGN\E-HY_2011_03-DRG_001-A-10.dgn



NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NOS. 214487/2/T/131 - 133.

Rev	Description	By	Date
A	TENDER ISSUE	IL	02/12

Consultant

ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contract No. and Title:

Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title

WORKS AREAS
KEY PLAN

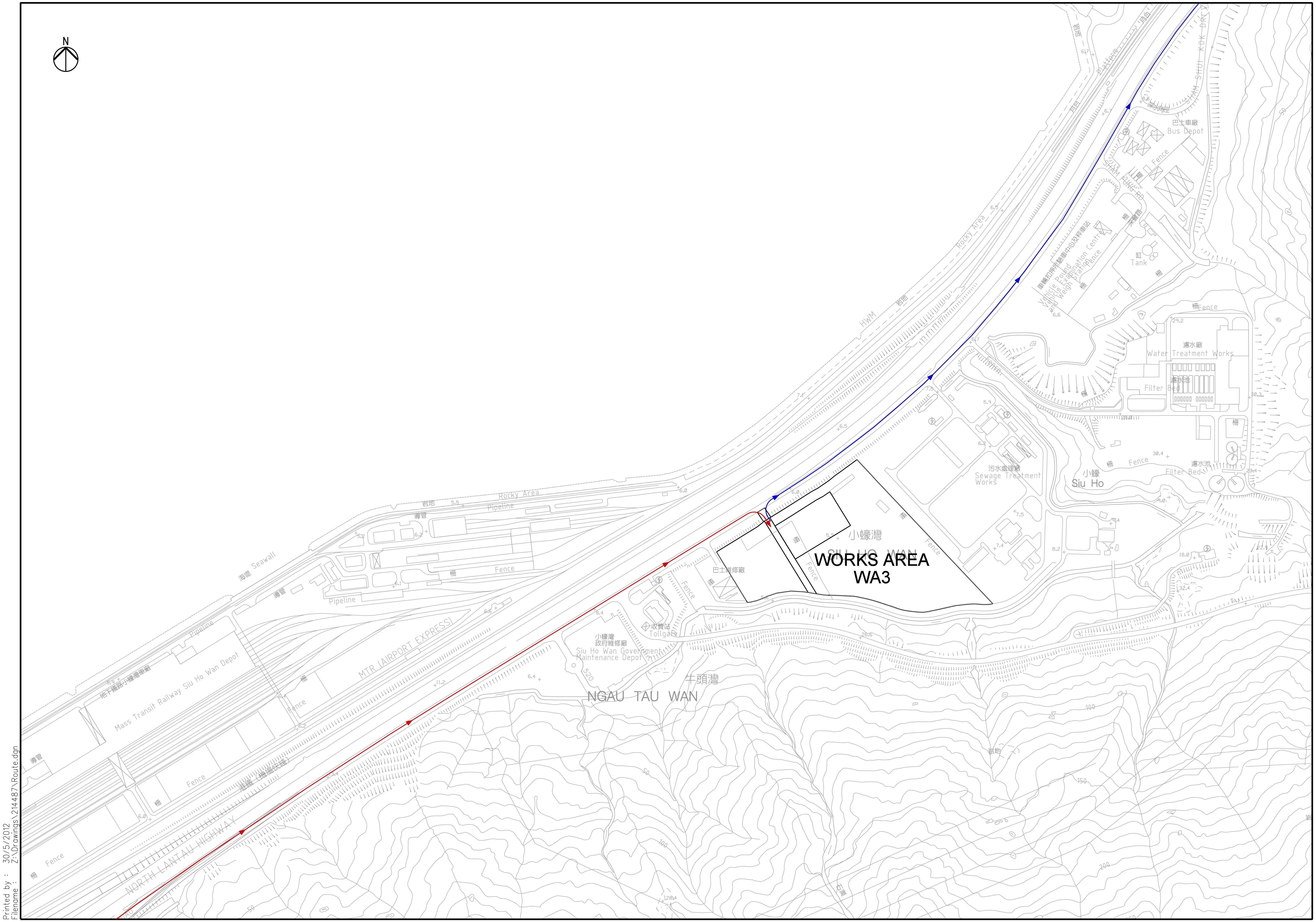
Drawing no. 214487/2/T/130
Rev. A

Drawn	Date	Checked	Approved
RY	02/12	IL	SK

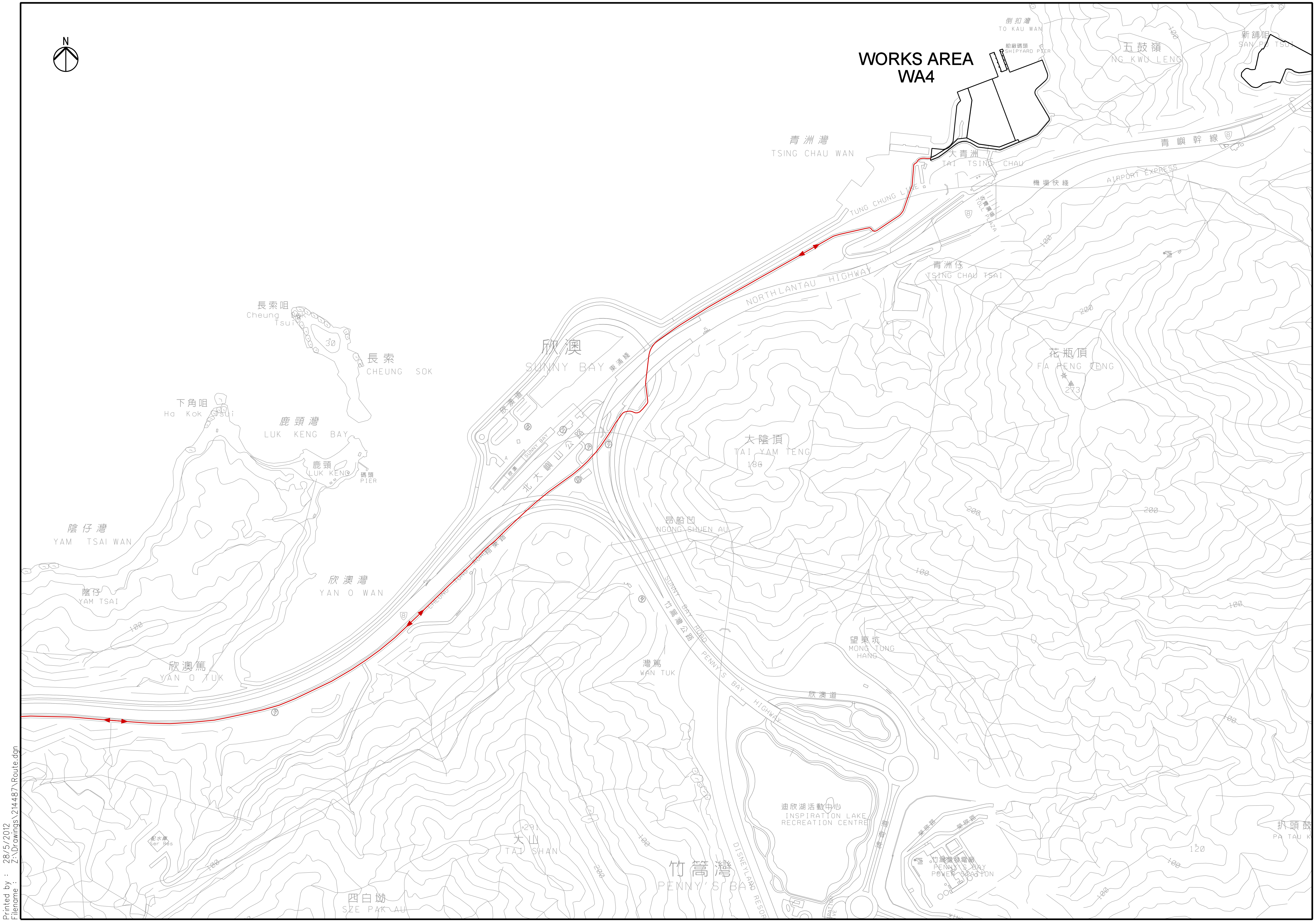
Scale 1:30000 @A1
Status TENDER

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

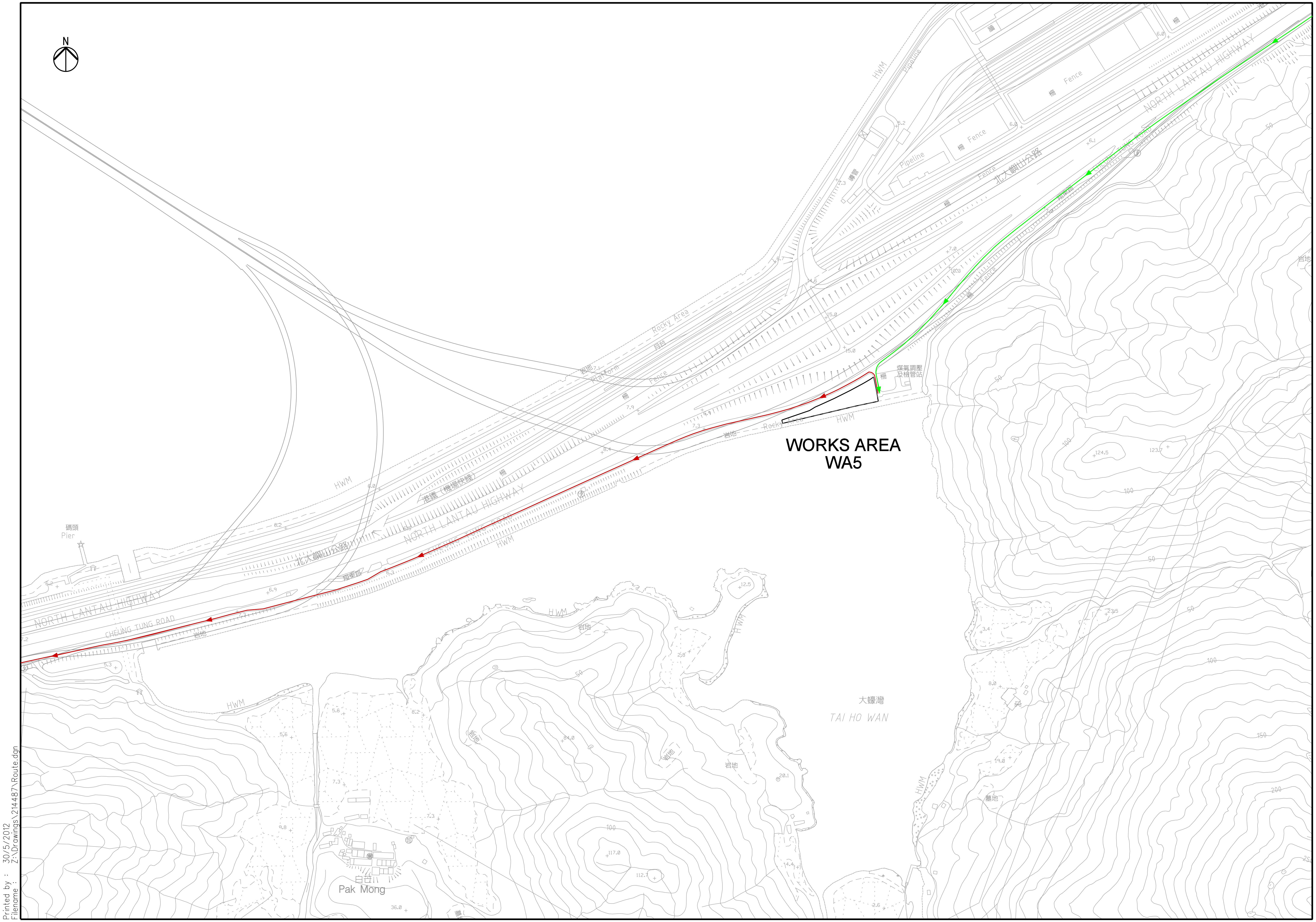
Printed by : 13/2/2012
Filename : J:\214487\Record\HY_2011_03\Re-Tender (2012-02-17)\DGN\E-HY_2011_03-DRG_130-A-10.dgn



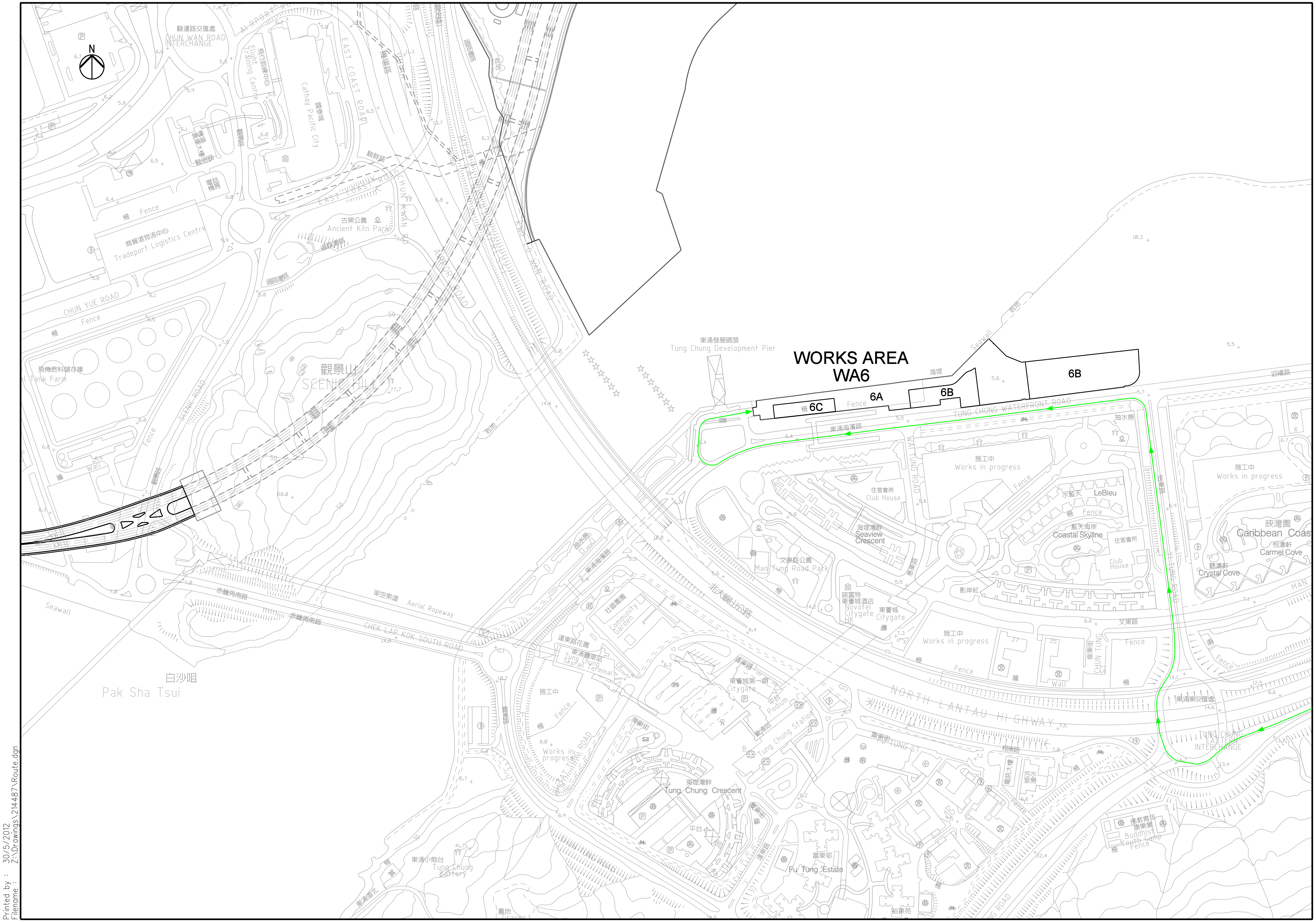
Printed by : 30/5/2012
Filename : Z:\Drawings\214487\Route.dgn



Printed by : 28/5/2012
Filename : Z:\Drawings\214487\Route.dgn



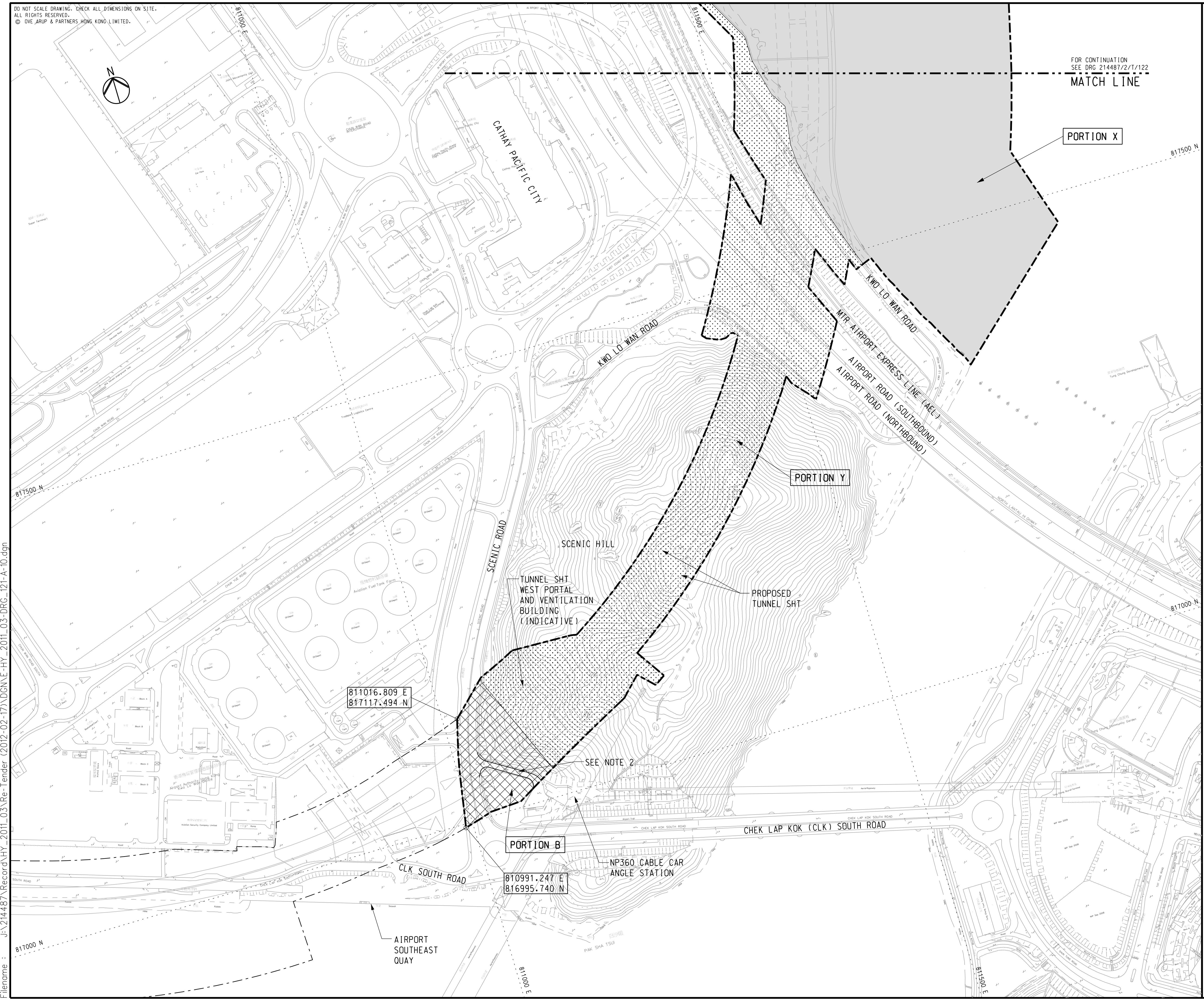
Printed by : 30/5/2012
Filename : Z:\Drawings\214487\Route.dgn



Printed by : 30/5/2012
Filename : Z:\Drawings\214487\Route.dgn

ASTING	NORTHING
348.796	822770.422
523.417	822694.349
423.787	822654.869
400.886	822664.001
378.668	822619.576
292.107	822608.736
259.260	822647.715

DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.
ALL RIGHTS RESERVED.
© OVE ARUP & PARTNERS HONG KONG LIMITED.



NOTES

1. FOR DETAILED DESCRIPTION OF PORTION OF SITE, REFER TO ER PART 2 GENERAL SITE DATA.
2. ACCESS ROAD TO NP360 CABLE CAR ANGLE STATION SHALL BE MAINTAINED AT ALL TIMES.

LEGEND

▬ ▬ ▬	SITE BOUNDARY
▒	PORTION X
⠿	PORTION Y
▩	PORTION B
○	PORTION C
×	PORTION D1

Rev	Description	By	Date
A	TENDER ISSUE	IL	02/12

Consultant

ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited

Contract No. and Title:

Contract No. HY/2011/03

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title

PORTION OF SITE
(SHEET 1 OF 3)

Drawing no.	Rev.
214487/2/T/121	A

Drawn	Date	Checked	Approved
RY	02/12	IL	SK

Scale 1:2000 @A1
Status TENDER

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Printed by : 13/2/2012
Filename : J:\214487\Record\HY_2011_03\Re-Tender (2012-02-17)\DGN\E-HY_2011_03-DRG_121-A-10.dgn

NOTES

1. FOR GENERAL NOTES AND LEGEND, REFER TO DRG. NO. 214487/2/T/121.

A	TENDER ISSUE	IL	02/12
Rev	Description	By	Date

Consultant

ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contract No. and Title:

Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title

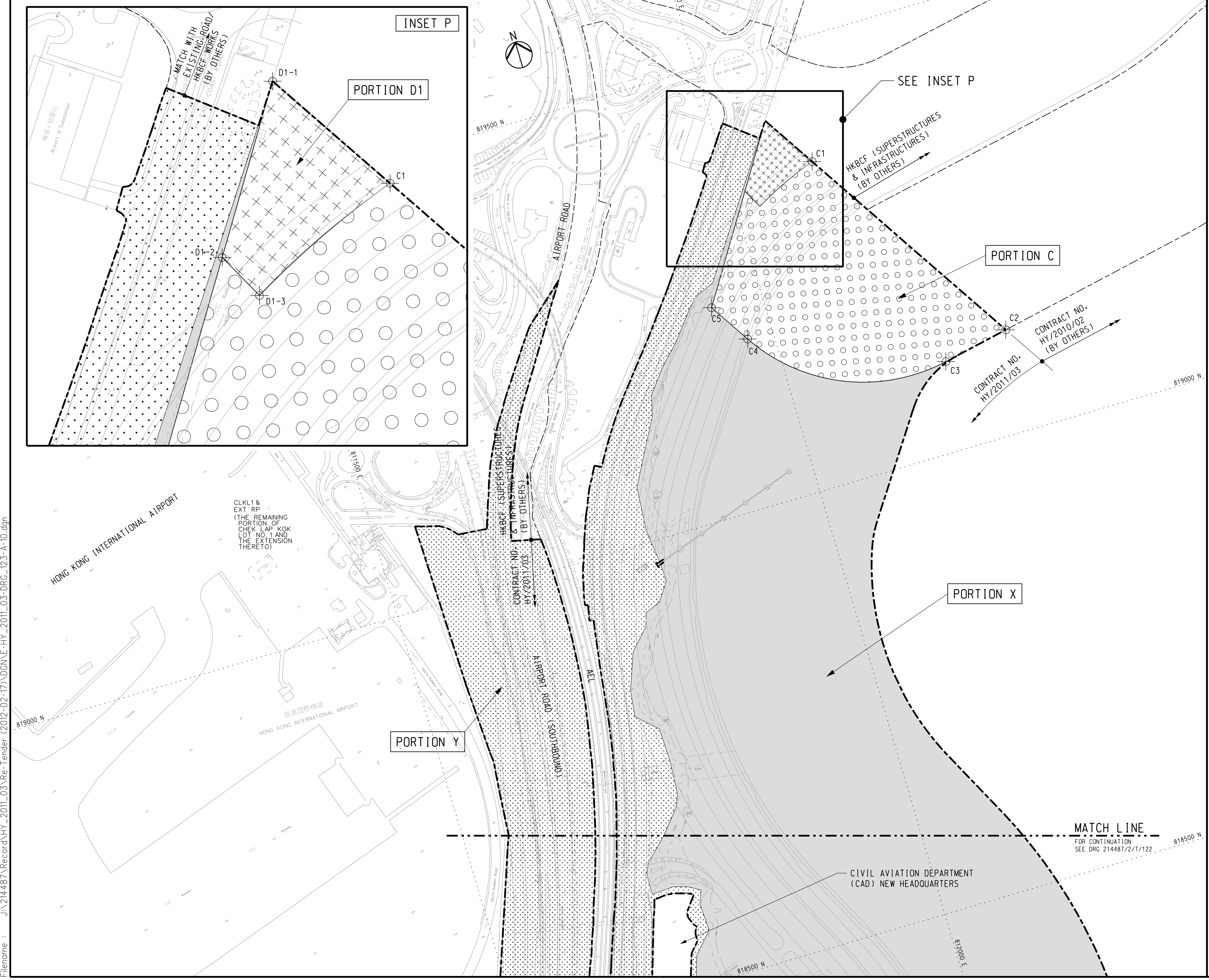
PORTION OF SITE
(SHEET 2 OF 3)

Drawing no. 214487/2/T/122			Rev. A
Drawn RY	Date 02/12	Checked IL	Approved SK
Scale 1:2000 @A1		Status TENDER	

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Printed by : 13/2/2012
Filename : J:\214487\Record\HY_2011_03\Re-Tender (2012-02-17)\DGN\E-HY_2011_03-DRG_122-A-10.dgn

DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.



NOTES

1. FOR GENERAL NOTES AND LEGEND, REFER TO DRG. NO. 214487/2/T/121.

SETTING OUT CO-ORDINATES OF SITE PORTION C

POINT	CO-ORDINATES	
	EASTING	NORTHING
C1	812097.481	819361.966
C2	812254.199	819116.562
C3	812178.695	819101.208
C4	811970.282	819189.551
C5	811941.125	819235.206

SETTING OUT CO-ORDINATES OF SITE PORTION D1

POINT	CO-ORDINATES	
	EASTING	NORTHING
D1-1	812059.460	819421.497
D1-2	812014.853	819351.273
D1-3	812026.200	819329.938

Rev	Description	By	Date
A	TENDER ISSUE	IL	02/12

Consultant
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited

Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title
PORTION OF SITE
(SHEET 3 OF 3)

Drawing no. 214487/2/T/123
Rev. A

Drawn	Date	Checked	Approved
RY	02/12	IL	SK

Scale 1:2000 @A1
Status TENDER

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Printed by : 13/2/2012
Filename : J:\214487\Record\HY_2011_03\Re-Tender (2012-02-17)\DGN\E-HY_2011_03-DRG_123-A-10.dgn

APPENDIX D

Event and Action Plan

Event and Action Plan for Air Quality

Event	Action			
	ET	**IEC**	**SO**	**Contractor**
Exceedance of Action Level for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and SO; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
Exceedance of Action Level for two or more consecutive samples	1. Identify source; 2. Inform IEC and SO; 3. Advise the SO on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and SO; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor;	1. Submit proposals for remedial to SO within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Event	**Action**			
	ET	**IEC**	**SO**	**Contractor**
Exceedance of Limit Level for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform SO, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the SO on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Exceedance of Limit Level for two or more consecutive samples	1. Notify IEC, SO, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and SO to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst SO, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the SO until the exceedance is abated.

Event and Action Plan for Noise

Event	**Action**			
	ET	**IEC**	**SO**	**Contractor**
Exceedance of Action Level	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Notify IEC and Contractor; 3. Report the results of investigation to the IEC, SO and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the SO accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented	1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Exceedance of Limit Level	1. Identify source; 2. Inform IEC, SO, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, SO and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst SO, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the SO until the exceedance is abated.

Event and Action Plan for Water Quality

Event	Action			
	ET Leader	**IEC**	**SO**	**Contractor**
Action level being exceeded by one sampling day	1. Repeat in situ measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor and SO; 4. Check monitoring data, all plant, equipment and Contractor's working methods.	1. Check monitoring data submitted by ET and Contractor's working methods.	1. Confirm receipt of notification of non-compliance in writing; 2. Notify Contractor.	1. Inform the SO and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SO and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5; Ensure mitigation measures are implemented; 6. Increase the monitoring frequency to daily until no exceedance of Action level.	1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the SO accordingly; 4. Supervise the implementation of mitigation measures.	1. Discuss with IEC on the proposed mitigation measures; 2. Ensure mitigation measures are properly implemented; 3. Assess the effectiveness of the implemented mitigation measures.	1. Inform the Engineer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of additional mitigation measures to SO within 3 working days of notification and discuss with ET, IEC and SO; 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; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SO and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, SO and Contractor;	1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the SO accordingly.	1. Confirm receipt of notification of failure in writing; 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to review the working methods.	1. Inform the SO and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of mitigation measures to SO within 3 working days of notification and discuss with ET, IEC and SO.

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

Event and Action Plan for Dolphin Monitoring

Event	ET Leader	IEC	ER / SOR	Contractor
Action Level	1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor; 5. Check monitoring data. 6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor.	1. Discuss monitoring with the IEC and any other measures proposed by the ET; 2. If ER/SOR is satisfied with the proposal of any other measures, ER/SOR to signify the agreement in writing on the measures to be implemented.	1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR; 3. Implement the agreed measures.
Limit Level	1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary;	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly; 5. Supervise / Audit the	1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures; 3. Supervise the implementation of additional monitoring	1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures; 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary; 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

Event	ET Leader	IEC	ER / SOR	Contractor
	7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary.	implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly.	and/or any other mitigation measures.	

Event and Action Plan for Mudflat Monitoring

Event	ET Leader	IEC	SO	Contractor
Density or the distribution pattern of horseshoe crab, seagrass or intertidal soft shore communities recorded in the impact or post-construction monitoring are significantly lower than or different from those recorded in the baseline monitoring.	Review historical data to ensure differences are as a result of natural variation or previously observed seasonal differences; Identify source(s) of impact; Inform the IEC, SO and Contractor; Check monitoring data; Discuss additional monitoring and any other measures, with the IEC and Contractor.	Discuss monitoring with the ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SO accordingly.	Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; Make agreement on the measures to be implemented.	Inform the SO and in writing; Discuss with the ET and the IEC and propose measures to the IEC and the ER; Implement the agreed measures.

APPENDIX E

Implementation Schedule of Environmental Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
Air Quality							
S5.5.6.1	A1	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	Partially implemented
S5.5.6.2	A2	2) Proper watering of exposed spoil should be undertaken throughout the construction phase: • Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; • Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; • A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones. • The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; • Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	√
S5.5.6.2	A2	• When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S5.5.6.2	A2	• The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; • Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; • Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; • Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; • Any skip hoist for material transport should be totally enclosed by impervious sheeting; • Every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	Partially implemented
S5.5.6.2	A2	• Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; • Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and • Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	Control construction dust	Contractor	All construction sites	Construction stage	√
S5.5.6	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period	Contractor	Selected representative dust monitoring station	Construction stage	√
S5.5.71	A6	The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant: • Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; • All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; • Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; • The materials which may generate airborne dusty emissions should be wetted by water spray system; • All receiving hoppers should be enclosed on three sides up to 3m above unloading point; • All conveyor transfer points should be totally enclosed; • All access and route roads within the premises should be paved and wetted; and • Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body.	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period	Contractor	Selected representative dust monitoring station	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S5.5.2.7	A7	The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point: • All road surface within the barging facilities will be paved; • Dust enclosures will be provided for the loading ramp; • Vehicles will be required to pass through designated wheels wash facilities; and • Continuous water spray at the loading points.	Control construction dust	Contractor	All construction sites	Construction stage	√
Noise							
S6.4.10	N1	1) Use of good site practices to limit noise emissions by considering the following: • only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; • machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; • plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; • silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works • mobile plant should be sited as far away from NSRs as possible and practicable; • material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.	Control construction airborne noise by means of good site practices	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S6.4.11	N2	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites	Construction stage	√
S6.4.12	N3	3) Install movable noise barriers (typically density @ 14kg/m_2),acoustic mat or full enclosure close to noisy plants including air compressor, generators, saw.	Screen the noisy plant items to be used at all construction sites	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	√
S6.4.13	N4	4) Select .Quiet plants. which comply with the BS 5228 Part 1 or TM standards.	Reduce the noise levels of plant items	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	√
S6.4.14	N5	5) Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	√
	N6	6) Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected representative noise monitoring station	Construction stage	√
Waste Management (Construction waste)							
S8.3.8	WM1	Construction and Demolition Material The following mitigation measures should be implemented in handling the waste: • Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; • Carry out on-site sorting; • Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; • Adopt .Selective Demolition. technique to demolish the existing structures and facilities	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
		with a view to recovering broken concrete effectively for recycling purpose, where possible; • Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and • Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005. Environmental Management on Construction Sites. to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. • In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation					
S8.3.9-S8.3.11	WM2	C&D Waste • Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. • The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S8.2.12- S8.3.15	WM3	Chemical Waste • Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. • Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation.. • The storage area for chemical wastes should be clearly labeled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated. • Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD.	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S8.3.16	WM4	***Sewage*** • Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state, which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly.	Proper handling of sewage from worker to avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	√
S8.3.17	WM5	***General Refuse*** • General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. • A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. • Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible. • Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided. • Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes.	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	Partially implemented

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
Water quality (Construction Phase)							
S9.11.1-S9.11.1.2	W1	• Mitigation during the marine works to reduce impacts to within acceptable levels have been recommended and will comprise a series of measures that restrict the method and sequencing of filling work, as well as protection measures. Details of the measures are provided below and summarised in the Environmental Mitigation Implementation Schedule in EM&A Manual. • Construction of seawalls to be advanced by at least 100-200m before the filling can commence. It should be noted that the protection by advanced seawall is a dynamic process depending on the progress of the construction activities. The part of the works where such measures can be undertaken for the majority of the time includes the following locations: - TMCLKL northern reclamation; - TMCLKL southern reclamation (after formation of the nips); - Reclamation filling for Portion 1 of HKLR;	To control construction water quality	Contractor	During seawall filling	Construction stage	√
S9.11.1-S9.11.1.2	W1	• Single layer silt curtains will be applied around all works; • silt curtain shall be fully maintained throughout the works.	To control construction water quality	Contractor	During seawall filling	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S9.11.1-S9.11.1.2	W1	• excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; • 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; and • 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.	To control construction water quality	Contractor	During seawall filling	Construction stage	√
S9.11.1-S9.11.1.2	W1	• Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted; • barges shall have tight fitting seals to their bottom openings to prevent leakage of material; • any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; • loading of barges shall be controlled to prevent splashing of filling materials to the surrounding water. • Barges shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; • adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; • 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; and • 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 .	To control construction water quality	Contractor	During seawall filling	Construction stage	Partially implemented

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
		into the drainage system, and to prevent storm run-off from getting into foul sewers; •discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.					
S9.14	W3	•Implement a water quality monitoring programme	Control water quality	Contractor	At identified monitoring	During construction	√
Ecology (Construction Phase)							
S10.7	E1	•Good site practices to avoid runoff entering woodland habitats in Scenic Hill; •Reinstate works areas in Scenic Hill; •Avoid stream modification in Scenic Hill.	Avoid potential disturbance on habitat of Romer.s Tree Frog in Scenic Hill	Designer; Contractor	Scenic Hill	During construction	√
S10.7	E2	•Install silt curtain during the construction; •Construct seawall prior to reclamation filling where practicable; •Good site practices; •Site runoff control; •Spill response plan.	Minimise marine water quality impacts	Contractor	Seawall, reclamation area	During construction	√
S10.7	E4	•Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater.	Prevent Sedimentation from Land-based works areas	Contractor	Land-based works areas	During construction	√
S10.7	E5	•Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time	Prevent disturbance to terrestrial fauna and habitats	Contractor	Land-based works areas	During construction	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S10.7	E6	•Dolphin Exclusion Zone; •Dolphin watching plan .	Minimize temporary marine habitat loss impact to dolphins	Contractor	Marine works	During marine works	√
S10.7	E7	•Decouple compressors and other equipment on working vessels; • Avoidance of percussive piling; •Marine underwater noise monitoring; •Temporal suspension of drilling bored pile casing in rock during peak dolphin calving season in May and June; •Handling with care for the installation of sheet piling for reclamation site	Minimize temporary marine habitat loss impact to dolphins	Contractor	Marine works	During marine works	√
S10.7	E8	•Control vessel speed; •Skipper training; •Predefined and regular routes for working vessels; avoid Brothers Islands.	Minimise marine traffic disturbance on dolphins	Contractor	Marine traffic	During marine works	√
S10.10	E9	•Dolphin vessel monitoring; • Mudflat ecological monitoring.	Minimise marine traffic disturbance on dolphins	Contractor	North Lantau and West Lantau	Prior to construction, during construction, and 1 year after operation	√
Ecology (Operation Phase)							
S10.7	E10	•Preconstruction dive survey for corals	Minimise impacts on marine ecology	Contractor	The marine pier sites nearest to intertidal zone and along the shore of the HKLR eclamation site	Prior to marine construction works in these locations	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
Fisheries							
S11.7	F2	• Reduce re-suspension of sediments • Good site practices • Spill response plan	Minimise marine water quality impacts	Contractor	Seawall, reclamation area	During construction	√
S11.7	F3	• Install silt-grease trap in the drainage system collecting surface runoff	Minimise impacts on marine water quality impacts	Designer	Reclamation area	During construction	√
S11.7	F4	• Maritime Oil Spill Response Plan (MOSRP); • Contingency plan.	Minimise impacts on marine water quality impacts	Management	HKLR	During operation stage	√
Landscape & Visual (Detailed Design Phase)							
S14.3.3.1	LV1	General design measures include: • Roadside planting and planting along the edge of the reclamation is proposed; • Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting; • Protection measures for the trees to be retained during construction activities; • Optimizing the sizes and spacing of the bridge columns; • Fine-tuning the location of the bridge columns to avoid visually sensitive locations; • Aesthetic design of the bridge form and its structural elements for HKLR, e.g. parapet, soffit, columns, lightings and so on; Considering the decorative urban design elements for HKLR, e.g. decorative road lightings;	Minimise visual & landscape impact	Detailed designer	HKLR	Design stage	.

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
		•Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed; •Providing planting area around peripheral of HKLR for tree planting screening effect.					
S14.3.3.1	LV1	•Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline. •Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline. •For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and •reclamation (e.g. subtle colour tone and slim form for viaduct to minimize the bulkiness of the structure and to blend the viaduct better with the background environment, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment (refer to Figure 14.4.3).	Minimise visual & landscape impact	Detailed designer	HKLR	Design stage	-
Landscape & Visual (Construction Phase)							
S14.3.3.3	LV2	Mitigate both Landscape and Visual Impacts G1. Grass-hydroseed bare soil surface and stock pile areas. G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge or footbridge to screen bridge and traffic. G3. For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and reclamation (e.g. subtle colour tone and slim form for viaduct, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment. G4. Vegetation reinstatement and upgrading to disturbed areas.	Minimise visual & landscape impact	Contractor	HKLR	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
		G5. Maximize new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed. G6. Provide planting area around peripheral of and within HKLR for tree screening buffer effect. G7. Plant salt tolerant native tree and shrubs etc along the planterstrip at affected seawall. G8. Reserve of loose natural granite rocks for re-use. Provide new coastline to adopt .natural-look. by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance .natural-look. of the new coastline (see Figure 14.4.2 for example).					
S14.3.3.3	LV3	Mitigate Visual Impacts V1.Minimize time for construction activities during construction period. V2.Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKLR construction.					√
EM&A							
S15.5-S15.6	EM2	1) An Environmental Team needs to be employed as per the EM&A Manual. 2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. 3) An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.	Perform environmental monitoring & auditing	Contractor	All construction sites	Construction stage	√

APPENDIX F

Site Audit Findings and Corrective Actions

Appendix F – Site Audit Findings and Corrective Actions

Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. During the reporting period, site inspections were carried out on 7, 14, 21 and 30 December 2016 and 4, 11, 18 and 27 January 2017 and 3, 8, 15, 22 and 28 February 2017. Particular observations during the site inspections are described below:

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
29 Nov 2016	1. Drip tray was not provided for chemical containers at N26. 2. Stagnant water was observed at N26. 3. Stagnant water was observed at A2. 4. Water leakage from wastewater treatment plant was observed at N26. 5. No proper cover for the stored cement bags were observed at N26. 6. No proper cover for dusty material was observed at N20.	1. The chemical containers were removed from N26. 2. The stagnant water was removed from N26. 3. The stagnant water was removed from A2. 4. The wastewater treatment plant was repaired and no water leakage was observed from the wastewater treatment plant. 5. The stored cement bags were covered properly at N26. 6. The dusty materials were covered by tarpaulin at N20.	7 Dec 2016
7 Dec 2016	1. Gap of silt curtain was observed at Portion X. 2. Silt curtain was misaligned at Portion X. 3. No drip tray was provided for chemical containers at HMA. 4. No drip tray was provided for chemical drums at HMA. 5. Dump truck was overloaded at S15. 6. Stagnant water was observed at the entrance of S15. 7. Wheel washing facilities were not in operation at S25. 8. Oil stains were observed in the holes at Shaft 2. 9. No drip tray was provided for chemical containers at SHT. 10. No drip tray was provided for a chemical drum at SHT.	1. The silt curtain was maintained properly at Portion X. 2. The silt curtain was aligned properly at Portion X. 3. The chemical containers were removed from HMA. 4. The chemical drums were removed from HMA. 5. The dump truck was not overloaded at S15. 6. The stagnant water was removed from the entrance of S15. 7. Wheel washing was provided for the vehicles leaving the construction site at S25. 8. The oil stains were removed from the ground of Shaft 2. 9. The chemical containers were removed from SHT. 10. The chemical drum was removed from SHT.	14 Dec 2016
14 Dec 2016	1. Gap of silt curtain was observed at Portion X. 2. Waste was accumulated in a skip at S15. 3. Waste was accumulated on the ground at S15.	1. The silt curtain was repaired at Portion X. 2. The waste in the skip was removed from S15. 3. The waste on the ground was removed from S15.	21 Dec 2016

Date of Audit	**Observations**	**Actions Taken by Contractor / Recommendation**	**Date of Observations Closed**
	4. Cement bags were not covered at S25. 5. No drip tray was provided for chemical containers at S25. 6. Oil stain was observed on the ground at S25. 7. Unpaved road was observed dry at S25. 8. Cover of truck was not enclosed at S25. 9. Dust was emitted during concrete breaking at Shaft 3. 10. Waste was accumulated in a skip at HMA. 11. Waste was accumulated on the ground at WA6.	4. The uncovered cement bags were removed from S25. 5. Drip tray was provided for the chemical drums at S25. 6. The oil stain on the ground was removed from S25. 7. Watering was provided for the unpaved road. 8. The truck was covered properly at S25. 9. Water spraying was provided for concrete breaking at Shaft 3. 10. The waste in the skip was removed from HMA. 11. The waste on the ground was removed from WA6.	
21 Dec 2016	1. Gap of silt curtain was observed at Portion X. 2. No drip tray was provided for a chemical container at HMA. 3. Rubbish was accumulated on the ground at PR9. 4. Rubbish was accumulated on the ground at S9. 5. Rubbish was accumulated on the ground at S11.	1. The silt curtain was repaired at Portion X. 2. The chemical container was removed at HMA. 3. The rubbish was removed on the ground at PR9. 4. The rubbish was removed on the ground at S9. 5. The rubbish was removed on the ground at S11.	30 Dec 2016
30 Dec 2016	1. Silt curtain with gap was observed at Portion X. 2. Drip tray was not provided for chemical containers at N30. 3. Toe of water-filled barrier was not properly sealed at N30. 4. Waste was observed at N30. 5. Stagnant water was observed at N30.	1. The silt curtain was repaired at Portion X. 2. The chemical containers were removed from N30. 3. The toe of water-filled barriers was properly sealed up by sand bags at N30. 4. The waste on the ground was removed from N30. 5. The stagnant water was removed from N30.	4 Jan 2017
4 Jan 2017	1. More than 20 bags of cement were not covered at HMA. 2. Waste was accumulated on the ground at S15. 3. Waste was accumulated on the ground at S19. 4. The tank of wastewater treatment facility was not cleaned at S23. 5. Waste was accumulated on the ground at S25.	1. The uncovered cement bags were removed from HMA. 2. The accumulated waste was removed from S15. 3. The accumulated waste was removed from S19. 4. The tank of wastewater treatment facility was cleaned and resumed proper operation at S23. 5. The accumulated waste was removed from S25.	11 Jan 2017

Date of Audit	**Observations**	**Actions Taken by Contractor / Recommendation**	**Date of Observations Closed**
11 Jan 2017	1. Gap of silt curtain was observed at Portion X. 2. Waste was accumulated inside the wheelie bins at HMA. 3. No drip tray was provided for chemical drums at N26. 4. No drip tray was provided for chemical drums at S23. 5. Wheel washing facility was not operated at S25. 6. Chemical waste containers were not labelled at S25. 7. No drip tray was provided for a chemical drum at S25. 8. Mud was observed next to the water-filled barriers at S25.	1. The silt curtain was maintained at Portion X. 2. The accumulated waste was removed from the wheelie bind at HMA. 3. The chemical drums were removed from N26. 4. The chemical drums were removed from S23. 5. The wheel washing facility was maintained and resumed normal operation. 6. The chemical waste containers were labelled properly at S25. 7. A drip tray was provided for the chemical drum at S25. 8. The mud was removed from the toe of water-filled barriers at S25.	18 Jan 2017
18 Jan 2017	1. Gap of silt curtain was observed at Portion X. 2. No filtering material was installed at the discharge of pipe at S25. 3. Sand was observed next to the water-filled barriers on East Coast Road. 4. No earth bund was observed at PR9. 5. Stagnant water was observed at PR9. 6. Mud storage pit was full at S16. 7. No filtering material was installed at the exit of pipe at S16. 8. Cover of truck was not enclosed at S25. 9. Pipe of wastewater treatment facility was broken at N1.	1. The silt curtain was maintained at Portion X. 2. Filtering material was installed at the discharge of pipe at S25. 3. The sand next to the water-filled barriers was removed on East Coast Road. 4. Earth bund was provided at PR9. 5. The stagnant water was removed from PR9. 6. The mud was removed from the mud storage pit at S16. 7. Filtering material was installed at the exit of pipe at S16. 8. The truck was covered properly at S25. 9. The broken pipe of wastewater treatment facility was fixed at N1.	27 Jan 2017
27 Jan 2017	1. Rubbish was observed at N1. 2. Drip tray was not provided for chemical containers at N1. 3. Mud was observed in drainage channel at N1.	1. The rubbish was removed from N1. 2. The chemical containers were removed from N1. 3. The mud was removed from the drainage channel at N1.	3 Feb 2017

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
3 Feb 2017	1. Waste was accumulated on the ground of S15. 2. Waste was accumulated on the ground floor of N1. 3. Waste was accumulated in the tunnel of N1. 4. Chemical drums were found without drip tray at S15. 5. More than 20 bags of cement were not covered at West Portal.	1. The accumulated waste was removed from S15. 2. The accumulated waste was removed from the ground floor of N1. 3. The accumulated waste was removed from the tunnel of N1. 4. The chemical drums were removed from S15. 5. The cement bags were covered entirely by impervious sheeting at West Portal.	8 Feb 2017
8 Feb 2017	1. Gap of silt curtain was observed at Portion X. 2. Waste was accumulated in a skip at S8. 3. Gap of earth bund was observed at S11. 4. No drip tray was provided for a chemical drum at S11. 5. No drip tray was provided for chemical containers at S11. 6. Concrete was disposed of on the construction area of S15. 7. Waste was accumulated on the ground of S16. 8. Waste was accumulated in a wheelie bin at HMA. 9. Cover of dump truck was not closed at S25. 10. More than 20 bags of cement were not covered at S25. 11. More than 20 bags of cement were not covered at HMA.	1. The silt curtain was maintained at Portion X. 2. The waste accumulated in the skip was removed from S8. 3. The gap of earth bund was filled up by concrete at S11. 4. The chemical drum was removed from S11. 5. The chemical containers were removed from S11. 6. The concrete disposed of on the construction area was removed from S15. 7. The accumulated waste was removed from S16. 8. The waste accumulated in the wheelie bin was removed from HMA. 9. The cover of dump truck was closed at S25. 10. The cement bags were removed from S25. 11. The cement bags were covered by impervious sheeting at HMA.	15 Feb 2017 22 Feb 2017
15 Feb 2017	1. More than 20 bags of cement were not covered at HMA. 2. Gaps of earth bund were observed at S7. 3. Waste was accumulated inside a skip at S15. 4. No drip tray was provided for chemical drums at S15. 5. Cover of dump truck was not closed at S15. 6. Waste was accumulated on the ground	1. The cement bags were covered by impervious sheeting at HMA. 2. The gaps of earth bund were filled up by sand bags at S7. 3. The accumulated waste was removed from the skip at S15. 4. Drip tray was provided for the chemical drums at S15. 5. The cover of dump truck was closed at S15. 6. The accumulated waste was removed from the ground of S25. 7. The cement bags were covered by	22 Feb 2017

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
	of S25. 7. More than 20 bags of cement were not covered at S25.	impervious sheeting at S25.	
22 Feb 2017	1. Gap of silt curtain was observed at Portion X. 2. Waste was accumulated at HyD Workshop. 3. No drip tray was provided for a chemical drum at HyD Workshop. 4. No drip tray was provided for chemical containers at HMA. 5. No drip tray was provided for a generator at S25. 6. Waste was accumulated on soil at S25. 7. Waste was accumulated near the entrance of N1. 8. Waste was accumulated in the tunnel of N1.	1. The silt curtain was maintained at Portion X. 2. The waste accumulated was removed from HyD Workshop. 3. The chemical drum was removed from HyD Workshop. 4. The chemical containers were removed from HMA. 5. Drip tray was provided for the generator at S25. 6. The waste accumulated on soil was removed from S25. 7. The accumulated waste was removed from the entrance of N1. 8. The accumulated waste was removed from the tunnel of N1.	28 Feb 2017
28 Feb 2017	1. Enclosure was not provided for grouting station at N26. However, the grouting station was not in operation. 2. Drip tray was not provided for a chemical drum at N26. 3. Drip tray was not provided for chemical drums at N26. 4. Drip tray was not provided for chemical drum at N26.	The Contractor was recommended to: 1. Provide enclosure for the grouting station at N26. 2. Provide drip tray for the chemical drum at N26. 3. Provide drip tray for the chemical drums at N26. 4. Provide drip tray for the chemical drum at N26.	Follow-up actions for the observations issued for the last weekly site inspection of the reporting month will be inspected during the next site inspections

The Contractor has rectified the observations as identified during environmental site inspections.

APPENDIX G

Air Quality Monitoring Data and Graphical Plots

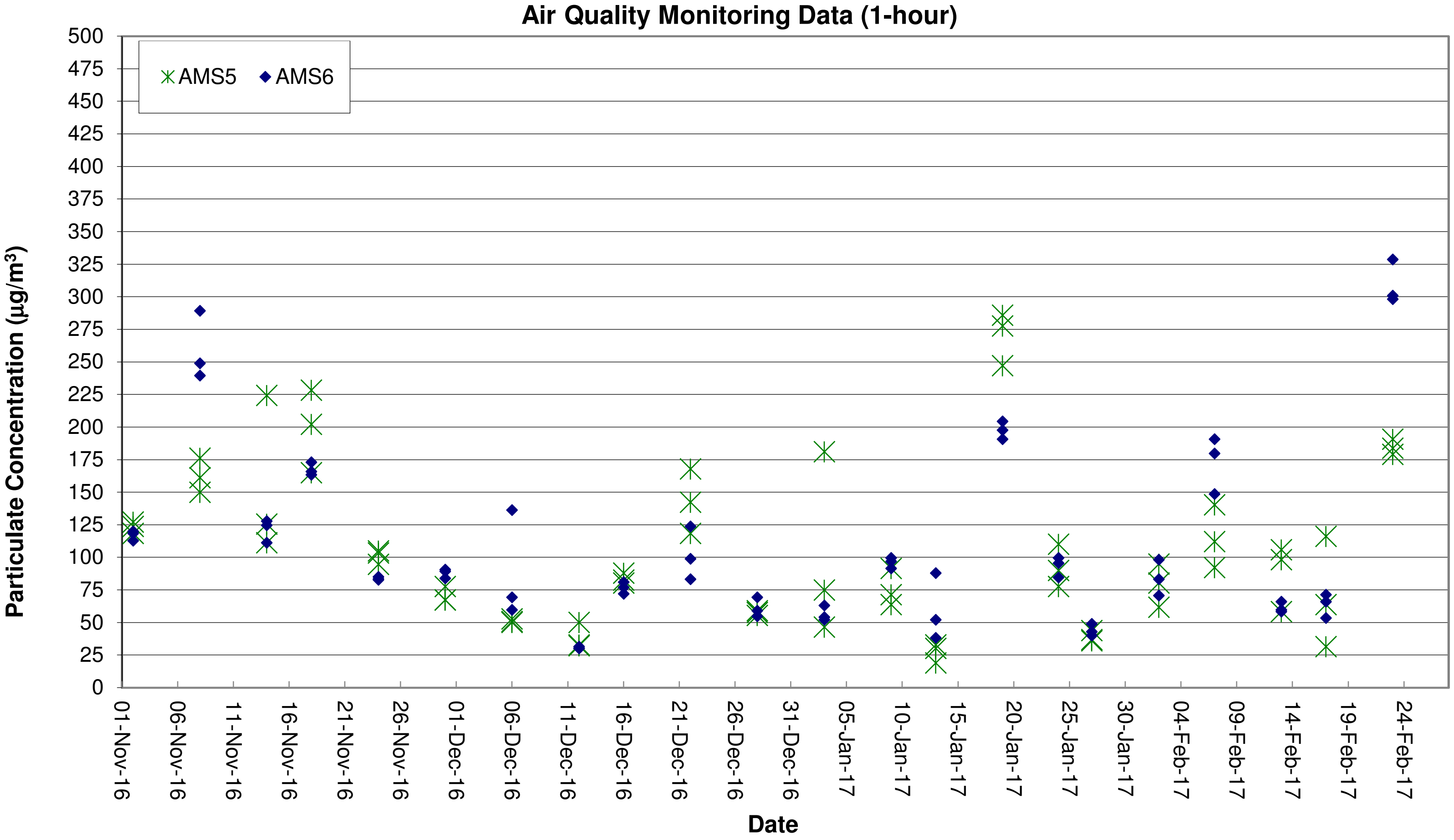
Air Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
HKLR	HY/2011/03	2016-12-06	AMS5	08:51	1-hr TSP	51	ug/m^3
HKLR	HY/2011/03	2016-12-06	AMS5	09:51	1-hr TSP	50	ug/m^3
HKLR	HY/2011/03	2016-12-06	AMS5	10:51	1-hr TSP	53	ug/m^3
HKLR	HY/2011/03	2016-12-12	AMS5	08:26	1-hr TSP	50	ug/m^3
HKLR	HY/2011/03	2016-12-12	AMS5	09:26	1-hr TSP	33	ug/m^3
HKLR	HY/2011/03	2016-12-12	AMS5	10:26	1-hr TSP	32	ug/m^3
HKLR	HY/2011/03	2016-12-16	AMS5	08:48	1-hr TSP	83	ug/m^3
HKLR	HY/2011/03	2016-12-16	AMS5	09:48	1-hr TSP	88	ug/m^3
HKLR	HY/2011/03	2016-12-16	AMS5	10:48	1-hr TSP	80	ug/m^3
HKLR	HY/2011/03	2016-12-22	AMS5	08:43	1-hr TSP	168	ug/m^3
HKLR	HY/2011/03	2016-12-22	AMS5	09:43	1-hr TSP	143	ug/m^3
HKLR	HY/2011/03	2016-12-22	AMS5	10:43	1-hr TSP	118	ug/m^3
HKLR	HY/2011/03	2016-12-28	AMS5	08:48	1-hr TSP	58	ug/m^3
HKLR	HY/2011/03	2016-12-28	AMS5	09:48	1-hr TSP	59	ug/m^3
HKLR	HY/2011/03	2016-12-28	AMS5	10:48	1-hr TSP	56	ug/m^3
HKLR	HY/2011/03	2017-01-03	AMS5	08:49	1-hr TSP	181	ug/m^3
HKLR	HY/2011/03	2017-01-03	AMS5	09:49	1-hr TSP	75	ug/m^3
HKLR	HY/2011/03	2017-01-03	AMS5	10:49	1-hr TSP	47	ug/m^3
HKLR	HY/2011/03	2017-01-09	AMS5	08:37	1-hr TSP	64	ug/m^3
HKLR	HY/2011/03	2017-01-09	AMS5	09:37	1-hr TSP	71	ug/m^3
HKLR	HY/2011/03	2017-01-09	AMS5	10:37	1-hr TSP	91	ug/m^3
HKLR	HY/2011/03	2017-01-13	AMS5	08:41	1-hr TSP	33	ug/m^3
HKLR	HY/2011/03	2017-01-13	AMS5	09:41	1-hr TSP	19	ug/m^3
HKLR	HY/2011/03	2017-01-13	AMS5	10:41	1-hr TSP	30	ug/m^3
HKLR	HY/2011/03	2017-01-19	AMS5	13:00	1-hr TSP	247	ug/m^3
HKLR	HY/2011/03	2017-01-19	AMS5	14:00	1-hr TSP	286	ug/m^3
HKLR	HY/2011/03	2017-01-19	AMS5	15:00	1-hr TSP	278	ug/m^3
HKLR	HY/2011/03	2017-01-24	AMS5	13:00	1-hr TSP	78	ug/m^3
HKLR	HY/2011/03	2017-01-24	AMS5	14:00	1-hr TSP	90	ug/m^3
HKLR	HY/2011/03	2017-01-24	AMS5	15:00	1-hr TSP	110	ug/m^3
HKLR	HY/2011/03	2017-01-27	AMS5	13:20	1-hr TSP	37	ug/m^3
HKLR	HY/2011/03	2017-01-27	AMS5	14:20	1-hr TSP	44	ug/m^3
HKLR	HY/2011/03	2017-01-27	AMS5	15:20	1-hr TSP	36	ug/m^3
HKLR	HY/2011/03	2017-02-02	AMS5	08:26	1-hr TSP	62	ug/m^3
HKLR	HY/2011/03	2017-02-02	AMS5	09:26	1-hr TSP	80	ug/m^3
HKLR	HY/2011/03	2017-02-02	AMS5	10:26	1-hr TSP	95	ug/m^3
HKLR	HY/2011/03	2017-02-07	AMS5	13:00	1-hr TSP	140	ug/m^3
HKLR	HY/2011/03	2017-02-07	AMS5	14:00	1-hr TSP	112	ug/m^3
HKLR	HY/2011/03	2017-02-07	AMS5	15:00	1-hr TSP	92	ug/m^3
HKLR	HY/2011/03	2017-02-13	AMS5	13:01	1-hr TSP	98	ug/m^3
HKLR	HY/2011/03	2017-02-13	AMS5	14:01	1-hr TSP	106	ug/m^3
HKLR	HY/2011/03	2017-02-13	AMS5	15:01	1-hr TSP	58	ug/m^3
HKLR	HY/2011/03	2017-02-17	AMS5	13:04	1-hr TSP	116	ug/m^3
HKLR	HY/2011/03	2017-02-17	AMS5	14:04	1-hr TSP	64	ug/m^3
HKLR	HY/2011/03	2017-02-17	AMS5	15:04	1-hr TSP	32	ug/m^3
HKLR	HY/2011/03	2017-02-23	AMS5	13:10	1-hr TSP	191	ug/m^3
HKLR	HY/2011/03	2017-02-23	AMS5	14:10	1-hr TSP	184	ug/m^3
HKLR	HY/2011/03	2017-02-23	AMS5	15:10	1-hr TSP	179	ug/m^3
HKLR	HY/2011/03	2016-12-05	AMS5	08:00	24-hr TSP	148	ug/m^3
HKLR	HY/2011/03	2016-12-09	AMS5	08:00	24-hr TSP	134	ug/m^3
HKLR	HY/2011/03	2016-12-15	AMS5	08:00	24-hr TSP	90	ug/m^3
HKLR	HY/2011/03	2016-12-21	AMS5	08:00	24-hr TSP	52	ug/m^3
HKLR	HY/2011/03	2016-12-24	AMS5	08:00	24-hr TSP	145	ug/m^3

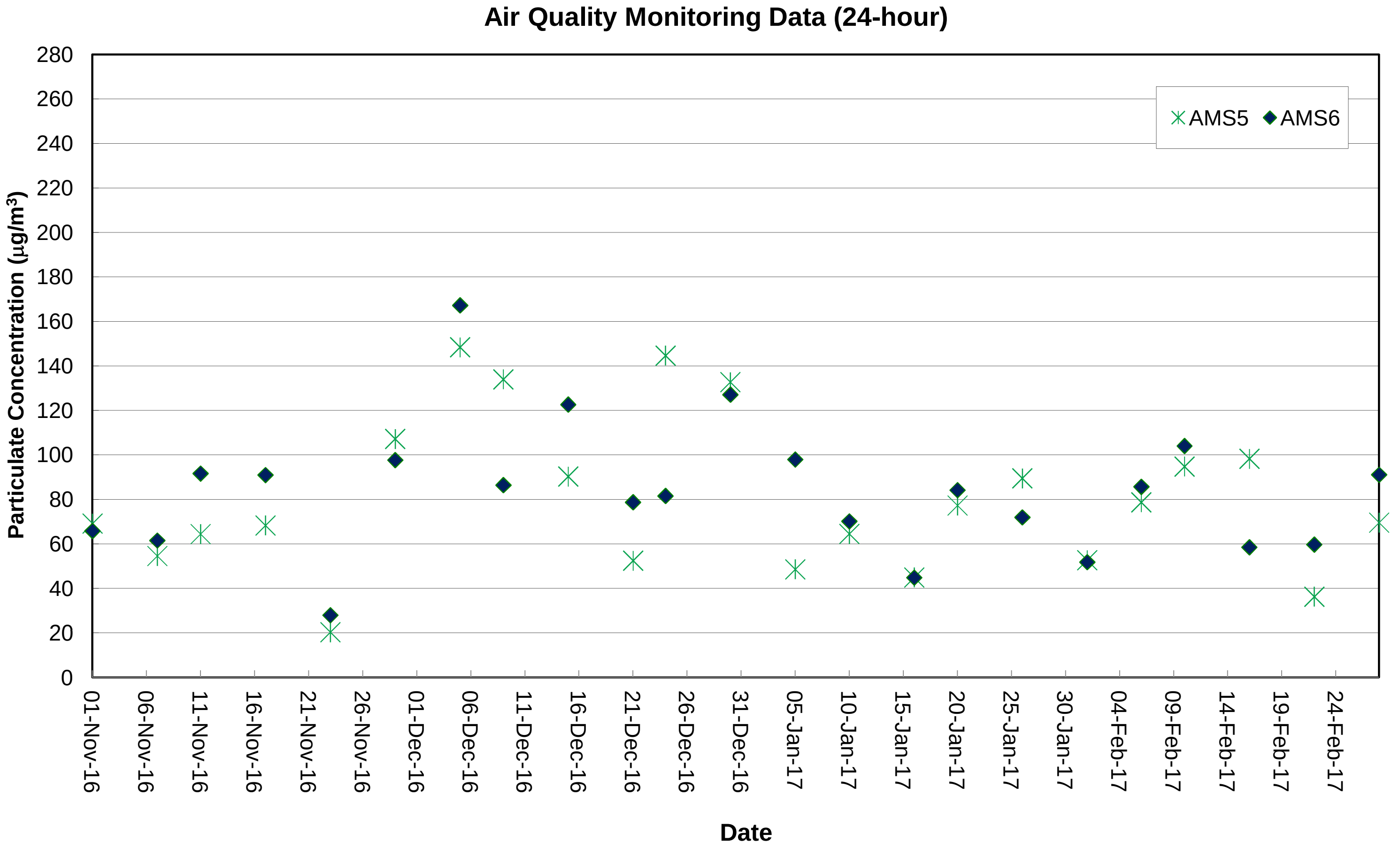
HKLR	HY/2011/03	2016-12-30	AMS5	08:00	24-hr TSP	133	ug/m^3
HKLR	HY/2011/03	2017-01-05	AMS5	08:00	24-hr TSP	49	ug/m^3
HKLR	HY/2011/03	2017-01-10	AMS5	08:00	24-hr TSP	64	ug/m^3
HKLR	HY/2011/03	2017-01-16	AMS5	08:00	24-hr TSP	45	ug/m^3
HKLR	HY/2011/03	2017-01-20	AMS5	08:00	24-hr TSP	77	ug/m^3
HKLR	HY/2011/03	2017-01-26	AMS5	08:00	24-hr TSP	89	ug/m^3
HKLR	HY/2011/03	2017-02-01	AMS5	08:00	24-hr TSP	53	ug/m^3
HKLR	HY/2011/03	2017-02-06	AMS5	08:00	24-hr TSP	79	ug/m^3
HKLR	HY/2011/03	2017-02-10	AMS5	08:00	24-hr TSP	95	ug/m^3
HKLR	HY/2011/03	2017-02-16	AMS5	08:00	24-hr TSP	98	ug/m^3
HKLR	HY/2011/03	2017-02-22	AMS5	08:00	24-hr TSP	36	ug/m^3
HKLR	HY/2011/03	2017-02-28	AMS5	08:00	24-hr TSP	70	ug/m^3
HKLR	HY/2011/03	2016-12-06	AMS6	13:00	1-hr TSP	136	ug/m^3
HKLR	HY/2011/03	2016-12-06	AMS6	14:00	1-hr TSP	60	ug/m^3
HKLR	HY/2011/03	2016-12-06	AMS6	15:00	1-hr TSP	69	ug/m^3
HKLR	HY/2011/03	2016-12-12	AMS6	13:00	1-hr TSP	30	ug/m^3
HKLR	HY/2011/03	2016-12-12	AMS6	14:00	1-hr TSP	30	ug/m^3
HKLR	HY/2011/03	2016-12-12	AMS6	15:00	1-hr TSP	32	ug/m^3
HKLR	HY/2011/03	2016-12-16	AMS6	13:01	1-hr TSP	77	ug/m^3
HKLR	HY/2011/03	2016-12-16	AMS6	14:01	1-hr TSP	81	ug/m^3
HKLR	HY/2011/03	2016-12-16	AMS6	15:01	1-hr TSP	72	ug/m^3
HKLR	HY/2011/03	2016-12-22	AMS6	13:00	1-hr TSP	124	ug/m^3
HKLR	HY/2011/03	2016-12-22	AMS6	14:00	1-hr TSP	99	ug/m^3
HKLR	HY/2011/03	2016-12-22	AMS6	15:00	1-hr TSP	83	ug/m^3
HKLR	HY/2011/03	2016-12-28	AMS6	13:00	1-hr TSP	55	ug/m^3
HKLR	HY/2011/03	2016-12-28	AMS6	14:00	1-hr TSP	59	ug/m^3
HKLR	HY/2011/03	2016-12-28	AMS6	15:00	1-hr TSP	69	ug/m^3
HKLR	HY/2011/03	2017-01-03	AMS6	13:00	1-hr TSP	54	ug/m^3
HKLR	HY/2011/03	2017-01-03	AMS6	14:00	1-hr TSP	52	ug/m^3
HKLR	HY/2011/03	2017-01-03	AMS6	15:00	1-hr TSP	63	ug/m^3
HKLR	HY/2011/03	2017-01-09	AMS6	13:00	1-hr TSP	91	ug/m^3
HKLR	HY/2011/03	2017-01-09	AMS6	14:00	1-hr TSP	97	ug/m^3
HKLR	HY/2011/03	2017-01-09	AMS6	15:00	1-hr TSP	100	ug/m^3
HKLR	HY/2011/03	2017-01-13	AMS6	13:00	1-hr TSP	38	ug/m^3
HKLR	HY/2011/03	2017-01-13	AMS6	14:00	1-hr TSP	52	ug/m^3
HKLR	HY/2011/03	2017-01-13	AMS6	15:00	1-hr TSP	88	ug/m^3
HKLR	HY/2011/03	2017-01-19	AMS6	08:37	1-hr TSP	205	ug/m^3
HKLR	HY/2011/03	2017-01-19	AMS6	09:37	1-hr TSP	191	ug/m^3
HKLR	HY/2011/03	2017-01-19	AMS6	10:37	1-hr TSP	198	ug/m^3
HKLR	HY/2011/03	2017-01-24	AMS6	08:52	1-hr TSP	100	ug/m^3
HKLR	HY/2011/03	2017-01-24	AMS6	09:52	1-hr TSP	96	ug/m^3
HKLR	HY/2011/03	2017-01-24	AMS6	10:52	1-hr TSP	85	ug/m^3
HKLR	HY/2011/03	2017-01-27	AMS6	08:35	1-hr TSP	49	ug/m^3
HKLR	HY/2011/03	2017-01-27	AMS6	09:35	1-hr TSP	43	ug/m^3
HKLR	HY/2011/03	2017-01-27	AMS6	10:35	1-hr TSP	40	ug/m^3
HKLR	HY/2011/03	2017-02-02	AMS6	13:24	1-hr TSP	98	ug/m^3
HKLR	HY/2011/03	2017-02-02	AMS6	14:24	1-hr TSP	83	ug/m^3
HKLR	HY/2011/03	2017-02-02	AMS6	15:24	1-hr TSP	71	ug/m^3
HKLR	HY/2011/03	2017-02-07	AMS6	08:57	1-hr TSP	149	ug/m^3
HKLR	HY/2011/03	2017-02-07	AMS6	09:57	1-hr TSP	180	ug/m^3
HKLR	HY/2011/03	2017-02-07	AMS6	10:57	1-hr TSP	191	ug/m^3
HKLR	HY/2011/03	2017-02-13	AMS6	08:54	1-hr TSP	66	ug/m^3
HKLR	HY/2011/03	2017-02-13	AMS6	09:54	1-hr TSP	58	ug/m^3
HKLR	HY/2011/03	2017-02-13	AMS6	10:54	1-hr TSP	60	ug/m^3

HKLR	HY/2011/03	2017-02-17	AMS6	08:48	1-hr TSP	71	ug/m^3
HKLR	HY/2011/03	2017-02-17	AMS6	09:48	1-hr TSP	66	ug/m^3
HKLR	HY/2011/03	2017-02-17	AMS6	10:48	1-hr TSP	54	ug/m^3
HKLR	HY/2011/03	2017-02-23	AMS6	08:18	1-hr TSP	301	ug/m^3
HKLR	HY/2011/03	2017-02-23	AMS6	09:18	1-hr TSP	329	ug/m^3
HKLR	HY/2011/03	2017-02-23	AMS6	10:18	1-hr TSP	298	ug/m^3
HKLR	HY/2011/03	2016-12-05	AMS6	08:00	24-hr TSP	167	ug/m^3
HKLR	HY/2011/03	2016-12-09	AMS6	08:00	24-hr TSP	86	ug/m^3
HKLR	HY/2011/03	2016-12-15	AMS6	08:00	24-hr TSP	123	ug/m^3
HKLR	HY/2011/03	2016-12-21	AMS6	08:00	24-hr TSP	79	ug/m^3
HKLR	HY/2011/03	2016-12-24	AMS6	08:00	24-hr TSP	82	ug/m^3
HKLR	HY/2011/03	2016-12-30	AMS6	08:00	24-hr TSP	127	ug/m^3
HKLR	HY/2011/03	2017-01-05	AMS6	08:00	24-hr TSP	98	ug/m^3
HKLR	HY/2011/03	2017-01-10	AMS6	08:00	24-hr TSP	70	ug/m^3
HKLR	HY/2011/03	2017-01-16	AMS6	08:00	24-hr TSP	45	ug/m^3
HKLR	HY/2011/03	2017-01-20	AMS6	08:00	24-hr TSP	84	ug/m^3
HKLR	HY/2011/03	2017-01-26	AMS6	08:00	24-hr TSP	72	ug/m^3
HKLR	HY/2011/03	2017-02-01	AMS6	08:00	24-hr TSP	52	ug/m^3
HKLR	HY/2011/03	2017-02-06	AMS6	08:00	24-hr TSP	86	ug/m^3
HKLR	HY/2011/03	2017-02-10	AMS6	08:00	24-hr TSP	104	ug/m^3
HKLR	HY/2011/03	2017-02-16	AMS6	08:00	24-hr TSP	58	ug/m^3
HKLR	HY/2011/03	2017-02-22	AMS6	08:00	24-hr TSP	60	ug/m^3
HKLR	HY/2011/03	2017-02-28	AMS6	08:00	24-hr TSP	91	ug/m^3

Graphical Plot of 1-hour TSP at AMS5 and AMS6



Graphical Plot of 24-hour TSP at AMS5 and AMS6



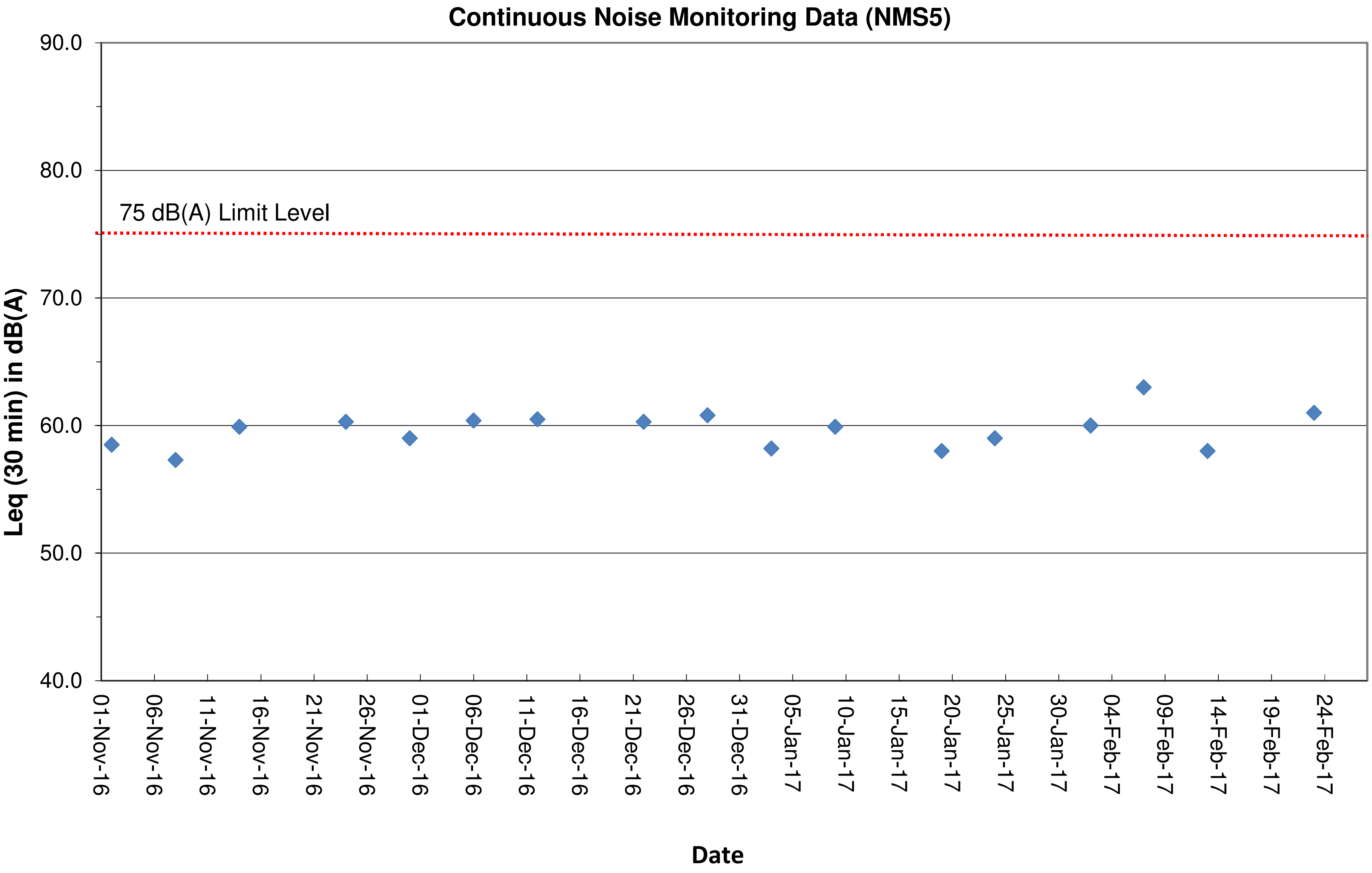
APPENDIX H

Noise Monitoring Data and Graphical Plots

Project	Works	Date (yyyy-mm-dd)	Station	Start Time	Wind Speed, m/s	1st set 5mins		2nd set 5mins		3rd set 5mins		4th set 5mins		5th set 5mins		6th set 5mins		Overall (30mins)*		Unit
HKLR	HY/2011/03	2016-12-06	NMS5	09:09	<5	Leq:	58.6	Leq:	56.3	Leq:	56.5	Leq:	57.6	Leq:	57.5	Leq:	57.3	Leq:	60.4	dB(A)
						L10:	61.5	L10:	58.0	L10:	58.5	L10:	60.0	L10:	60.0	L10:	60.5	L10:	62.9	
						L90:	54.5	L90:	53.0	L90:	53.5	L90:	54.0	L90:	53.5	L90:	52.5	L90:	56.5	
HKLR	HY/2011/03	2016-12-12	NMS5	08:47	<5	Leq:	60.5	Leq:	59.8	Leq:	54.4	Leq:	57.4	Leq:	54.3	Leq:	53.7	Leq:	60.5	dB(A)
						L10:	65.0	L10:	63.5	L10:	58.0	L10:	60.5	L10:	57.0	L10:	56.5	L10:	64.3	
						L90:	51.0	L90:	50.5	L90:	49.0	L90:	50.0	L90:	48.0	L90:	49.5	L90:	52.8	
HKLR	HY/2011/03	2016-12-22	NMS5	13:09	<5	Leq:	57.7	Leq:	56.5	Leq:	56.4	Leq:	57.1	Leq:	58.8	Leq:	56.9	Leq:	60.3	dB(A)
						L10:	61.0	L10:	58.5	L10:	59.0	L10:	60.0	L10:	62.0	L10:	59.5	L10:	63.2	
						L90:	52.5	L90:	52.5	L90:	52.5	L90:	52.5	L90:	53.5	L90:	53.5	L90:	55.9	
HKLR	HY/2011/03	2016-12-28	NMS5	09:01	<5	Leq:	58.2	Leq:	55.5	Leq:	55.4	Leq:	61.2	Leq:	54.7	Leq:	58.0	Leq:	60.8	dB(A)
						L10:	61.0	L10:	57.5	L10:	58.0	L10:	65.5	L10:	57.0	L10:	61.5	L10:	64.2	
						L90:	51.0	L90:	51.5	L90:	51.5	L90:	52.5	L90:	51.5	L90:	51.0	L90:	54.5	
HKLR	HY/2011/03	2017-01-03	NMS5	08:59	<5	Leq:	58.7	Leq:	53.6	Leq:	51.9	Leq:	53.8	Leq:	54.7	Leq:	55.1	Leq:	58.2	dB(A)
						L10:	61.5	L10:	57.5	L10:	55.5	L10:	58.0	L10:	59.0	L10:	58.5	L10:	61.7	
						L90:	48.5	L90:	47.0	L90:	46.5	L90:	46.5	L90:	47.0	L90:	48.5	L90:	50.4	
HKLR	HY/2011/03	2017-01-09	NMS5	08:51	<5	Leq:	57.6	Leq:	57.7	Leq:	58.4	Leq:	57.2	Leq:	53.8	Leq:	54.9	Leq:	59.9	dB(A)
						L10:	61.5	L10:	59.0	L10:	62.0	L10:	61.0	L10:	57.0	L10:	58.0	L10:	63.1	
						L90:	48.0	L90:	48.5	L90:	50.0	L90:	50.5	L90:	47.5	L90:	49.0	L90:	52.0	
HKLR	HY/2011/03	2017-01-19	NMS5	13:42	<5	Leq:	55.0	Leq:	53.3	Leq:	55.7	Leq:	54.8	Leq:	57.0	Leq:	53.2	Leq:	58.0	dB(A)
						L10:	58.5	L10:	57.0	L10:	58.5	L10:	57.5	L10:	60.0	L10:	56.5	L10:	61.2	
						L90:	50.0	L90:	48.0	L90:	50.0	L90:	51.0	L90:	52.0	L90:	49.0	L90:	53.2	
HKLR	HY/2011/03	2017-01-24	NMS5	13:00	<5	Leq:	53.6	Leq:	54.0	Leq:	55.1	Leq:	55.9	Leq:	56.6	Leq:	58.1	Leq:	58.8	dB(A)
						L10:	56.0	L10:	57.0	L10:	58.0	L10:	59.0	L10:	59.0	L10:	61.5	L10:	61.8	
						L90:	49.5	L90:	49.5	L90:	50.0	L90:	51.0	L90:	50.5	L90:	51.5	L90:	53.4	
HKLR	HY/2011/03	2017-02-02	NMS5	08:52	<5	Leq:	58.0	Leq:	57.7	Leq:	56.4	Leq:	56.9	Leq:	55.4	Leq:	56.5	Leq:	59.9	dB(A)
						L10:	62.5	L10:	61.0	L10:	59.5	L10:	61.0	L10:	59.5	L10:	60.5	L10:	63.8	
						L90:	46.0	L90:	48.0	L90:	48.0	L90:	47.5	L90:	47.0	L90:	49.0	L90:	50.7	
HKLR	HY/2011/03	2017-02-07	NMS5	13:01	<5	Leq:	64.3	Leq:	57.8	Leq:	57.9	Leq:	60.6	Leq:	57.9	Leq:	57.3	Leq:	63.2	dB(A)
						L10:	68.5	L10:	61.0	L10:	61.0	L10:	64.0	L10:	61.5	L10:	61.5	L10:	67.0	
						L90:	50.5	L90:	51.0	L90:	52.0	L90:	51.0	L90:	51.0	L90:	50.5	L90:	54.0	
HKLR	HY/2011/03	2017-02-13	NMS5	13:06	<5	Leq:	54.7	Leq:	55.9	Leq:	55.9	Leq:	55.7	Leq:	54.3	Leq:	55.7	Leq:	58.4	dB(A)
						L10:	57.0	L10:	59.0	L10:	59.5	L10:	59.0	L10:	56.5	L10:	58.5	L10:	61.4	
						L90:	51.5	L90:	51.0	L90:	51.0	L90:	51.5	L90:	51.5	L90:	51.5	L90:	54.3	
HKLR	HY/2011/03	2017-02-23	NMS5	13:38	<5	Leq:	57.9	Leq:	58.0	Leq:	58.9	Leq:	57.7	Leq:	57.4	Leq:	57.9	Leq:	61.0	dB(A)
						L10:	60.5	L10:	60.0	L10:	60.5	L10:	61.0	L10:	60.0	L10:	60.0	L10:	63.3	
						L90:	54.0	L90:	55.0	L90:	55.0	L90:	53.0	L90:	53.5	L90:	54.0	L90:	57.1	

Remark:
(1)* A facade correction of +3 dB(A) was applied to the measured noise level.

Graphical Plot of Noise Levels at NMS5



Remark:

(1) A facade correction of +3 dB(A) was applied to the measured noise level.

APPENDIX I

Water Quality Monitoring Data and Graphical Plots

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS5	13:41:40	1.0	Surface	1	1	22.11	8.23	27.36	94.0	7.00	6.2	9.4
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS5	13:42:09	1.0	Surface	1	2	22.06	8.21	27.42	93.4	6.95	6.4	8.3
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS5	13:42:00	4.3	Middle	2	1	22.04	8.22	27.41	93.3	6.95	6.5	8.9
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS5	13:41:33	4.3	Middle	2	2	22.09	8.23	27.33	93.9	6.99	6.4	9.2
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS5	13:41:26	7.5	Bottom	3	1	22.10	8.23	27.30	94.0	7.00	6.2	11.7
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS5	13:41:52	7.5	Bottom	3	2	22.06	8.22	27.39	93.5	6.97	6.4	12.4
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS(Mf)6	13:48:30	1.0	Surface	1	1	22.08	8.21	27.82	94.3	7.00	6.1	9.6
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS(Mf)6	13:48:16	1.0	Surface	1	2	22.06	8.21	27.81	94.8	7.05	6.0	9.6
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS(Mf)6	13:48:10	2.2	Bottom	3	1	22.05	8.21	27.80	95.2	7.07	6.0	10.0
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS(Mf)6	13:48:21	2.2	Bottom	3	2	22.07	8.21	27.81	94.5	7.02	6.1	10.6
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS7	13:55:28	1.0	Surface	1	1	22.10	8.21	27.90	93.3	6.92	5.7	6.8
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS7	13:55:41	1.0	Surface	1	2	22.11	8.21	27.91	93.4	6.93	5.6	7.1
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS7	13:55:19	2.2	Bottom	3	1	22.07	8.21	27.88	93.3	6.93	5.8	9.5
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS7	13:55:34	2.2	Bottom	3	2	22.09	8.21	27.89	93.2	6.92	5.7	9.4
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS8	14:17:05	1.0	Surface	1	1	22.64	8.23	28.44	93.1	6.82	8.1	7.9
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS8	14:17:18	1.0	Surface	1	2	22.61	8.23	28.32	93.3	6.84	8.3	7.6
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS8	14:16:58	2.9	Bottom	3	1	22.68	8.23	28.56	93.3	6.83	8.2	9.8
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS8	14:17:10	2.9	Bottom	3	2	22.66	8.23	28.54	93.4	6.84	8.4	11.6
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS(Mf)9	14:05:21	1.0	Surface	1	1	22.68	8.22	28.25	95.9	7.03	7.8	7.0
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS(Mf)9	14:05:37	1.0	Surface	1	2	22.61	8.22	28.23	95.5	7.01	7.7	6.7
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS(Mf)9	14:05:29	2.6	Bottom	3	1	22.68	8.22	28.32	95.8	7.02	7.9	6.4
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS(Mf)9	14:05:16	2.6	Bottom	3	2	22.67	8.22	28.31	96.4	7.06	8.0	5.2
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS10	14:24:23	1.0	Surface	1	1	22.57	8.32	33.79	91.4	6.50	6.2	6.1
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS10	14:23:54	1.0	Surface	1	2	22.58	8.32	33.74	91.2	6.49	6.1	7.4
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS10	14:23:38	5.3	Middle	2	1	22.45	8.32	33.75	91.2	6.50	6.7	7.7
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS10	14:24:14	5.3	Middle	2	2	22.46	8.32	33.75	91.7	6.53	6.6	8.1
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS10	14:23:31	9.6	Bottom	3	1	22.45	8.32	33.75	91.5	6.52	6.2	8.2
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	IS10	14:24:05	9.6	Bottom	3	2	22.48	8.32	33.74	92.7	6.60	6.5	9.9
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR3	13:31:00	0.7	Middle	2	1	22.12	8.25	26.78	96.2	7.18	6.5	5.5
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR3	13:30:55	0.7	Middle	2	2	22.13	8.25	26.74	96.3	7.19	6.6	4.4
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR4	14:11:35	1.0	Surface	1	1	22.69	8.23	28.40	94.6	6.93	7.4	4.8
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR4	14:12:03	1.0	Surface	1	2	22.66	8.23	28.43	94.6	6.93	7.5	4.8
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR4	14:11:27	2.7	Bottom	3	1	22.76	8.23	28.54	95.2	6.96	7.2	8.1
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR4	14:11:50	2.7	Bottom	3	2	22.78	8.24	28.60	94.8	6.92	7.4	9.4
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR5	14:17:00	1.0	Surface	1	1	22.56	8.32	33.75	92.3	6.57	6.0	5.5
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR5	14:16:44	1.0	Surface	1	2	22.61	8.32	33.75	92.7	6.59	5.8	5.3
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR5	14:16:32	4.3	Bottom	3	1	22.50	8.32	33.75	91.8	6.54	5.9	7.7
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR5	14:16:52	4.3	Bottom	3	2	22.54	8.32	33.73	91.7	6.53	6.0	7.0
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR10A	15:21:53	1.0	Surface	1	1	22.47	8.24	28.77	93.7	6.87	7.4	10.5
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR10A	15:22:14	1.0	Surface	1	2	22.42	8.24	28.77	93.6	6.87	7.5	10.1
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR10A	15:21:46	3.2	Middle	2	1	22.41	8.24	28.78	93.5	6.86	7.5	10.8
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR10A	15:22:06	3.2	Middle	2	2	22.43	8.24	28.77	93.5	6.86	7.3	10.7
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR10A	15:21:59	5.3	Bottom	3	1	22.47	8.24	28.75	93.6	6.87	7.4	10.7
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR10A	15:21:40	5.3	Bottom	3	2	22.46	8.24	28.75	93.6	6.87	7.4	10.0
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR10B	15:31:17	1.0	Surface	1	1	22.50	8.24	28.77	93.7	6.87	7.0	6.3
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR10B	15:31:34	1.0	Surface	1	2	22.48	8.24	28.78	93.7	6.87	7.0	6.9
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR10B	15:31:24	4.0	Bottom	3	1	22.46	8.24	28.75	93.6	6.87	7.2	6.8
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	SR10B	15:31:06	4.0	Bottom	3	2	22.47	8.24	28.76	93.5	6.86	7.1	6.4
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	CS2	13:06:47	1.0	Surface	1	1	22.53	8.41	33.70	94.7	6.75	5.2	9.2
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	CS2	13:05:59	1.0	Surface	1	2	22.55	8.46	33.72	95.5	6.80	5.2	9.1
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	CS2	13:06:27	3.9	Middle	2	1	22.37	8.42	33.70	93.3	6.67	5.8	8.2

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	CS2	13:05:47	3.9	Middle	2	2	22.39	8.51	33.70	95.4	6.81	5.4	9.9
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	CS2	13:05:37	6.7	Bottom	3	1	22.38	8.54	33.71	95.7	6.83	5.7	8.5
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	CS2	13:06:17	6.7	Bottom	3	2	22.38	8.43	33.70	93.9	6.71	6.0	9.5
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	CS(Mf)5	14:50:33	1.0	Surface	1	1	22.45	8.24	28.78	93.3	6.85	8.3	9.1
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	CS(Mf)5	14:49:55	1.0	Surface	1	2	22.45	8.24	28.75	93.3	6.85	8.4	9.9
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	CS(Mf)5	14:49:45	6.1	Middle	2	1	22.37	8.23	28.77	92.9	6.83	8.5	9.8
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	CS(Mf)5	14:50:24	6.1	Middle	2	2	22.36	8.23	28.78	92.9	6.83	8.5	9.7
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	CS(Mf)5	14:50:13	11.2	Bottom	3	1	22.36	8.24	28.77	93.0	6.84	8.4	11.3
HKLR	HY/2011/03	2016-12-02	Mid-Ebb	Sunny	CS(Mf)5	14:49:39	11.2	Bottom	3	2	22.38	8.23	28.75	93.0	6.83	8.4	9.4
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS5	10:12:23	1.0	Surface	1	1	21.85	8.22	29.35	93.1	6.88	8.4	10.9
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS5	10:11:57	1.0	Surface	1	2	21.86	8.22	29.34	93.3	6.90	8.1	10.3
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS5	10:12:14	4.3	Middle	2	1	21.85	8.22	29.35	93.0	6.87	8.3	13.4
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS5	10:11:49	4.3	Middle	2	2	21.85	8.22	29.35	93.2	6.89	8.3	12.0
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS5	10:11:42	7.5	Bottom	3	1	21.86	8.22	29.34	93.3	6.90	8.3	13.0
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS5	10:12:07	7.5	Bottom	3	2	21.85	8.22	29.35	93.0	6.88	8.3	12.1
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS(Mf)6	10:02:48	1.0	Surface	1	1	21.84	8.22	29.26	95.9	7.09	7.4	7.9
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS(Mf)6	10:03:03	1.0	Surface	1	2	21.84	8.22	29.27	95.2	7.04	7.4	7.7
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS(Mf)6	10:02:40	2.4	Bottom	3	1	21.84	8.22	29.25	96.3	7.13	7.3	11.0
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS(Mf)6	10:02:55	2.4	Bottom	3	2	21.84	8.22	29.26	95.5	7.07	7.6	10.7
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS7	09:53:22	1.0	Surface	1	1	22.43	8.23	29.48	92.9	6.79	16.2	8.5
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS7	09:53:04	1.0	Surface	1	2	22.44	8.23	29.49	92.9	6.79	16.4	9.0
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS7	09:52:51	2.4	Bottom	3	1	22.43	8.23	29.50	93.0	6.80	16.1	8.1
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS7	09:53:12	2.4	Bottom	3	2	22.44	8.23	29.50	92.9	6.79	16.2	9.1
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS8	09:32:28	1.0	Surface	1	1	22.58	8.24	29.62	93.9	6.84	10.4	8.0
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS8	09:32:41	1.0	Surface	1	2	22.57	8.24	29.63	93.1	6.79	10.4	10.2
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS8	09:32:20	3.0	Bottom	3	1	22.57	8.24	29.61	94.4	6.88	10.6	10.8
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS8	09:32:32	3.0	Bottom	3	2	22.58	8.24	29.62	93.5	6.82	10.3	10.3
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS(Mf)9	09:46:57	1.0	Surface	1	1	22.37	8.23	29.43	93.3	6.83	14.2	11.0
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS(Mf)9	09:46:44	1.0	Surface	1	2	22.36	8.23	29.42	93.4	6.84	14.1	9.7
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS(Mf)9	09:46:36	2.6	Bottom	3	1	22.36	8.23	29.44	93.7	6.86	14.1	12.4
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS(Mf)9	09:46:50	2.6	Bottom	3	2	22.36	8.23	29.44	93.4	6.84	14.0	10.4
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS10	09:26:58	1.0	Surface	1	1	22.28	8.31	33.66	93.3	6.67	10.9	14.0
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS10	09:26:22	1.0	Surface	1	2	22.28	8.31	33.67	92.6	6.63	11.1	14.0
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS10	09:26:11	5.3	Middle	2	1	22.24	8.31	33.67	92.7	6.64	11.4	14.4
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS10	09:26:46	5.3	Middle	2	2	22.25	8.31	33.67	92.0	6.58	11.5	13.8
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS10	09:26:38	9.6	Bottom	3	1	22.24	8.31	33.68	91.8	6.57	11.4	13.5
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	IS10	09:26:03	9.6	Bottom	3	2	22.23	8.31	33.67	92.9	6.65	11.9	14.7
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR3	10:19:07	0.7	Middle	2	1	21.85	8.22	29.35	93.3	6.89	7.1	12.3
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR3	10:18:59	0.7	Middle	2	2	21.86	8.22	29.35	93.3	6.90	7.3	10.9
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR4	09:39:14	1.0	Surface	1	1	22.57	8.24	29.67	91.8	6.69	11.6	13.2
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR4	09:39:00	1.0	Surface	1	2	22.57	8.24	29.67	91.8	6.69	11.7	12.0
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR4	09:38:53	2.9	Bottom	3	1	22.56	8.24	29.67	91.8	6.69	11.7	13.0
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR4	09:39:06	2.9	Bottom	3	2	22.56	8.24	29.67	91.7	6.68	11.6	12.5
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR5	09:32:43	1.0	Surface	1	1	22.28	8.31	33.66	93.3	6.67	9.8	13.2
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR5	09:33:16	1.0	Surface	1	2	22.28	8.31	33.66	92.6	6.62	9.4	13.9
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR5	09:32:28	4.0	Bottom	3	1	22.25	8.31	33.67	92.7	6.64	9.8	15.5
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR5	09:33:02	4.0	Bottom	3	2	22.26	8.31	33.66	92.7	6.63	10.4	16.7
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR10A	08:27:09	1.0	Surface	1	1	22.72	8.22	30.11	90.8	6.58	6.8	8.2
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR10A	08:27:41	1.0	Surface	1	2	22.72	8.23	30.06	90.7	6.57	6.7	8.7
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR10A	08:27:30	3.3	Middle	2	1	22.72	8.23	30.09	90.5	6.56	6.8	8.9
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR10A	08:26:57	3.3	Middle	2	2	22.72	8.22	30.14	90.6	6.57	6.8	9.9

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR10A	08:27:23	5.5	Bottom	3	1	22.72	8.23	30.11	90.5	6.56	6.9	9.9
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR10A	08:26:46	5.5	Bottom	3	2	22.72	8.22	30.17	90.6	6.56	6.7	10.6
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR10B	08:16:54	1.0	Surface	1	1	22.71	8.20	30.59	91.7	6.63	7.5	11.5
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR10B	08:17:11	1.0	Surface	1	2	22.71	8.21	30.49	91.4	6.61	7.3	10.6
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR10B	08:17:03	4.2	Bottom	3	1	22.71	8.21	30.55	91.5	6.61	7.4	12.7
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	SR10B	08:16:42	4.2	Bottom	3	2	22.72	8.20	30.68	92.0	6.65	7.1	11.4
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	CS2	10:47:41	1.0	Surface	1	1	22.15	8.36	33.72	94.0	6.74	17.0	22.6
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	CS2	10:47:06	1.0	Surface	1	2	22.13	8.36	33.71	93.8	6.73	16.6	23.8
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	CS2	10:46:59	3.8	Middle	2	1	22.13	8.36	33.72	93.6	6.71	16.3	23.3
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	CS2	10:47:31	3.8	Middle	2	2	22.12	8.36	33.70	93.9	6.74	16.2	22.5
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	CS2	10:47:22	6.6	Bottom	3	1	22.13	8.36	33.71	92.9	6.67	17.7	22.0
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	CS2	10:46:53	6.6	Bottom	3	2	22.14	8.36	33.72	93.6	6.72	17.4	22.5
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	CS(Mf)5	08:57:58	1.0	Surface	1	1	22.72	8.23	29.94	90.4	6.56	7.4	6.3
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	CS(Mf)5	08:58:48	1.0	Surface	1	2	22.74	8.23	29.91	90.4	6.56	7.3	6.3
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	CS(Mf)5	08:58:32	6.1	Middle	2	1	22.71	8.23	29.94	90.2	6.54	7.4	5.5
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	CS(Mf)5	08:57:48	6.1	Middle	2	2	22.72	8.23	29.96	90.1	6.54	7.4	6.0
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	CS(Mf)5	08:57:40	11.2	Bottom	3	1	22.72	8.23	29.97	90.0	6.53	7.5	6.9
HKLR	HY/2011/03	2016-12-02	Mid-Flood	Sunny	CS(Mf)5	08:58:20	11.2	Bottom	3	2	22.69	8.23	29.96	89.9	6.52	7.5	5.1
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS5	15:47:19	1.0	Surface	1	1	22.84	8.27	29.72	95.2	6.90	7.2	7.2
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS5	15:47:43	1.0	Surface	1	2	22.75	8.25	29.89	94.4	6.85	7.3	7.2
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS5	15:47:11	4.2	Middle	2	1	22.71	8.26	29.67	94.8	6.89	7.4	9.5
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS5	15:47:35	4.2	Middle	2	2	22.63	8.25	29.86	94.3	6.85	7.4	7.8
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS5	15:47:01	7.3	Bottom	3	1	22.74	8.27	29.56	95.3	6.92	7.4	9.8
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS5	15:47:29	7.3	Bottom	3	2	22.69	8.26	29.78	94.7	6.88	7.4	9.3
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS(Mf)6	15:55:39	1.0	Surface	1	1	22.65	8.24	30.61	94.0	6.80	6.2	6.9
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS(Mf)6	15:55:26	1.0	Surface	1	2	22.66	8.24	30.59	94.4	6.83	6.4	6.7
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS(Mf)6	15:55:32	2.1	Bottom	3	1	22.65	8.24	30.60	94.1	6.81	6.4	6.6
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS(Mf)6	15:55:19	2.1	Bottom	3	2	22.65	8.24	30.59	94.6	6.85	6.4	7.3
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS7	16:03:00	1.0	Surface	1	1	22.66	8.24	30.68	93.1	6.73	6.6	7.9
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS7	16:02:43	1.0	Surface	1	2	22.63	8.24	30.67	93.1	6.73	6.5	8.3
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS7	16:02:50	2.2	Bottom	3	1	22.62	8.24	30.68	93.0	6.73	6.6	9.2
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS7	16:02:36	2.2	Bottom	3	2	22.64	8.24	30.66	93.1	6.73	6.4	10.2
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS8	16:24:42	1.0	Surface	1	1	22.75	8.23	30.72	93.9	6.78	9.2	7.8
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS8	16:24:31	1.0	Surface	1	2	22.81	8.23	30.69	94.4	6.81	9.1	8.0
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS8	16:24:37	2.9	Bottom	3	1	22.78	8.23	30.69	94.0	6.78	9.1	7.9
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS8	16:24:27	2.9	Bottom	3	2	22.88	8.24	30.64	94.5	6.81	9.1	10.4
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS(Mf)9	16:12:33	1.0	Surface	1	1	23.05	8.24	30.73	96.8	6.95	6.8	9.1
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS(Mf)9	16:12:20	1.0	Surface	1	2	23.04	8.24	30.72	97.2	6.98	6.9	8.9
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS(Mf)9	16:12:27	2.7	Bottom	3	1	23.05	8.24	30.71	96.8	6.95	6.7	9.3
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS(Mf)9	16:12:13	2.7	Bottom	3	2	23.05	8.24	30.69	97.4	7.00	7.0	8.4
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS10	16:39:31	1.0	Surface	1	1	22.57	8.36	31.63	93.5	6.74	4.7	4.4
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS10	16:39:06	1.0	Surface	1	2	22.58	8.36	31.55	94.2	6.79	4.6	3.8
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS10	16:39:23	5.3	Middle	2	1	22.49	8.35	32.83	92.9	6.66	5.2	3.7
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS10	16:38:56	5.3	Middle	2	2	22.48	8.35	32.85	93.1	6.67	5.5	4.6
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS10	16:38:49	9.5	Bottom	3	1	22.45	8.35	32.99	93.4	6.69	5.9	3.1
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	IS10	16:39:14	9.5	Bottom	3	2	22.52	8.35	32.87	92.9	6.65	5.7	3.5
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR3	15:35:43	0.7	Middle	2	1	22.98	8.29	28.51	98.1	7.14	7.1	8.1
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR3	15:35:49	0.7	Middle	2	2	22.99	8.29	28.62	98.1	7.14	7.1	6.9
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR4	16:17:36	1.0	Surface	1	1	22.90	8.24	30.59	95.5	6.88	9.8	6.9
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR4	16:17:24	1.0	Surface	1	2	22.91	8.24	30.57	95.9	6.91	9.6	7.2
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR4	16:17:18	2.6	Bottom	3	1	22.90	8.24	30.61	96.2	6.93	9.6	5.9

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR4	16:17:29	2.6	Bottom	3	2	22.92	8.24	30.62	95.8	6.90	9.7	6.3
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR5	16:32:17	1.0	Surface	1	1	22.59	8.35	31.45	95.0	6.85	3.8	3.4
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR5	16:31:56	1.0	Surface	1	2	22.59	8.35	31.53	94.8	6.83	3.7	4.3
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR5	16:32:09	4.4	Bottom	3	1	22.56	8.34	32.56	93.8	6.72	3.9	3.2
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR5	16:31:45	4.4	Bottom	3	2	22.56	8.33	32.55	95.4	6.83	3.7	4.8
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR10A	17:37:48	1.0	Surface	1	1	22.58	8.21	30.31	93.6	6.79	5.8	7.4
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR10A	17:37:15	1.0	Surface	1	2	22.58	8.21	30.31	93.6	6.79	5.8	7.7
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR10A	17:37:39	3.2	Middle	2	1	22.58	8.21	30.36	93.5	6.78	5.7	6.4
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR10A	17:37:07	3.2	Middle	2	2	22.58	8.21	30.36	93.5	6.78	5.7	6.4
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR10A	17:37:31	5.3	Bottom	3	1	22.58	8.21	30.41	93.5	6.78	5.7	6.6
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR10A	17:37:01	5.3	Bottom	3	2	22.58	8.21	30.35	93.6	6.79	5.8	6.3
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR10B	17:47:22	1.0	Surface	1	1	22.59	8.21	30.30	93.7	6.80	5.8	7.1
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR10B	17:47:01	1.0	Surface	1	2	22.59	8.21	30.31	93.7	6.80	5.7	6.4
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR10B	17:46:52	4.2	Bottom	3	1	22.59	8.21	30.32	93.6	6.79	5.8	8.0
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	SR10B	17:47:10	4.2	Bottom	3	2	22.58	8.21	30.36	93.5	6.79	5.8	6.8
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	CS2	15:19:30	1.0	Surface	1	1	22.50	8.34	30.89	95.1	6.89	3.2	2.6
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	CS2	15:20:05	1.0	Surface	1	2	22.43	8.35	31.02	94.4	6.84	3.2	3.3
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	CS2	15:19:16	3.9	Middle	2	1	22.36	8.33	32.04	93.3	6.73	3.5	3.3
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	CS2	15:19:58	3.9	Middle	2	2	22.39	8.35	31.27	93.8	6.79	3.5	2.4
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	CS2	15:19:50	6.8	Bottom	3	1	22.37	8.35	31.44	92.9	6.72	3.2	2.9
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	CS2	15:19:04	6.8	Bottom	3	2	22.42	8.31	32.75	94.0	6.74	3.3	3.7
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	CS(Mf)5	16:57:14	1.0	Surface	1	1	22.58	8.21	30.32	92.7	6.72	5.9	7.9
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	CS(Mf)5	16:57:46	1.0	Surface	1	2	22.58	8.21	30.34	92.4	6.70	5.9	7.4
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	CS(Mf)5	16:57:38	6.0	Middle	2	1	22.57	8.21	30.49	92.0	6.67	6.1	8.3
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	CS(Mf)5	16:57:06	6.0	Middle	2	2	22.57	8.21	30.43	92.3	6.70	6.1	9.3
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	CS(Mf)5	16:56:58	11.0	Bottom	3	1	22.58	8.21	30.46	92.5	6.71	6.2	7.7
HKLR	HY/2011/03	2016-12-05	Mid-Ebb	Cloudy	CS(Mf)5	16:57:30	11.0	Bottom	3	2	22.56	8.21	30.56	92.3	6.69	6.1	9.1
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS5	11:50:30	1.0	Surface	1	1	22.51	8.20	30.08	93.4	6.80	7.4	7.0
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS5	11:51:07	1.0	Surface	1	2	22.53	8.20	30.06	93.1	6.78	7.5	8.0
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS5	11:50:56	4.4	Middle	2	1	22.49	8.20	30.10	92.8	6.75	7.4	8.1
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS5	11:50:23	4.4	Middle	2	2	22.49	8.20	30.11	93.4	6.79	7.6	6.8
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS5	11:50:48	7.7	Bottom	3	1	22.48	8.20	30.11	92.8	6.76	7.5	7.5
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS5	11:50:16	7.7	Bottom	3	2	22.51	8.20	30.10	93.5	6.81	7.5	8.4
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS(Mf)6	12:26:04	1.0	Surface	1	1	22.69	8.19	30.26	94.3	6.83	8.2	7.4
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS(Mf)6	12:26:36	1.0	Surface	1	2	22.68	8.19	30.27	94.1	6.82	8.5	7.9
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS(Mf)6	12:25:53	2.1	Bottom	3	1	22.64	8.19	30.25	94.2	6.83	8.5	7.7
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS(Mf)6	12:26:15	2.1	Bottom	3	2	22.59	8.19	30.28	93.9	6.81	8.4	7.6
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS7	12:16:27	1.0	Surface	1	1	22.81	8.21	29.98	94.8	6.86	6.8	6.5
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS7	12:16:06	1.0	Surface	1	2	22.87	8.21	29.93	95.0	6.87	6.8	5.9
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS7	12:15:51	2.2	Bottom	3	1	22.73	8.21	29.98	95.0	6.89	7.1	5.9
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS7	12:16:16	2.2	Bottom	3	2	22.68	8.21	30.01	94.6	6.87	6.8	6.3
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS8	11:23:33	1.0	Surface	1	1	22.67	8.21	29.99	94.7	6.87	11.4	10.6
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS8	11:23:49	1.0	Surface	1	2	22.69	8.21	29.99	94.0	6.82	11.5	10.0
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS8	11:23:40	3.0	Bottom	3	1	22.65	8.21	30.03	94.3	6.84	11.6	10.0
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS8	11:23:22	3.0	Bottom	3	2	22.66	8.21	29.99	95.4	6.93	11.5	9.5
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS(Mf)9	11:36:44	1.0	Surface	1	1	22.64	8.20	30.11	94.7	6.87	6.5	6.8
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS(Mf)9	11:36:59	1.0	Surface	1	2	22.58	8.20	30.11	94.2	6.84	6.4	6.7
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS(Mf)9	11:36:38	2.7	Bottom	3	1	22.62	8.20	30.09	94.8	6.88	6.4	7.0
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS(Mf)9	11:36:50	2.7	Bottom	3	2	22.59	8.20	30.08	94.3	6.85	6.3	7.1
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS10	11:36:40	1.0	Surface	1	1	22.38	8.32	32.92	93.5	6.71	9.3	8.3
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS10	11:36:06	1.0	Surface	1	2	22.38	8.32	32.92	93.2	6.68	8.9	8.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS10	11:36:27	5.2	Middle	2	1	22.38	8.32	32.99	92.9	6.66	9.2	9.1
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS10	11:35:53	5.2	Middle	2	2	22.37	8.32	33.00	92.5	6.64	9.0	7.8
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS10	11:36:19	9.3	Bottom	3	1	22.37	8.32	32.99	92.9	6.66	9.0	7.3
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	IS10	11:35:46	9.3	Bottom	3	2	22.38	8.32	32.99	92.9	6.66	8.8	8.9
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR3	11:55:56	0.7	Middle	2	1	22.55	8.20	30.05	93.4	6.79	6.9	8.9
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR3	11:56:02	0.7	Middle	2	2	22.54	8.20	30.05	93.5	6.80	7.2	9.1
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR4	11:30:07	1.0	Surface	1	1	22.79	8.21	29.98	93.4	6.76	8.6	9.2
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR4	11:29:54	1.0	Surface	1	2	22.77	8.21	30.00	93.4	6.76	8.4	7.7
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR4	11:29:59	2.7	Bottom	3	1	22.74	8.21	30.00	93.2	6.76	8.5	10.7
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR4	11:29:43	2.7	Bottom	3	2	22.73	8.21	30.01	93.3	6.76	8.5	12.4
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR5	11:44:43	1.0	Surface	1	1	22.43	8.32	32.83	93.3	6.69	9.6	12.2
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR5	11:44:56	1.0	Surface	1	2	22.38	8.32	32.95	93.5	6.70	9.8	11.4
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR5	11:44:49	4.2	Bottom	3	1	22.39	8.32	32.95	93.5	6.70	9.5	13.1
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR5	11:44:19	4.2	Bottom	3	2	22.38	8.32	33.00	92.7	6.65	9.3	12.6
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR10A	10:11:16	1.0	Surface	1	1	22.52	8.20	30.22	92.9	6.75	3.3	3.6
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR10A	10:10:40	1.0	Surface	1	2	22.51	8.19	30.33	93.2	6.77	3.4	4.2
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR10A	10:11:05	3.3	Middle	2	1	22.50	8.19	30.33	92.6	6.73	3.5	5.0
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR10A	10:10:33	3.3	Middle	2	2	22.50	8.19	30.39	93.0	6.75	3.5	4.4
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR10A	10:10:58	5.5	Bottom	3	1	22.50	8.19	30.38	92.8	6.74	3.5	7.0
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR10A	10:10:24	5.5	Bottom	3	2	22.51	8.19	30.42	93.1	6.76	3.6	5.6
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR10B	10:03:04	1.0	Surface	1	1	22.52	8.19	30.92	93.2	6.75	3.1	4.4
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR10B	10:02:37	1.0	Surface	1	2	22.51	8.19	31.27	93.6	6.77	2.9	3.2
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR10B	10:02:28	4.1	Bottom	3	1	22.50	8.19	31.46	93.7	6.76	3.1	3.3
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	SR10B	10:02:53	4.1	Bottom	3	2	22.50	8.19	31.14	93.2	6.74	3.2	4.8
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	CS2	12:57:15	1.0	Surface	1	1	22.42	8.33	32.21	93.8	6.75	7.3	3.7
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	CS2	12:56:48	1.0	Surface	1	2	22.43	8.32	32.32	93.3	6.71	7.1	4.5
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	CS2	12:57:05	4.0	Middle	2	1	22.43	8.32	33.13	92.3	6.61	7.8	3.5
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	CS2	12:56:37	4.0	Middle	2	2	22.44	8.32	33.12	92.2	6.60	8.0	3.2
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	CS2	12:56:57	6.9	Bottom	3	1	22.43	8.32	33.02	92.8	6.65	8.3	6.5
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	CS2	12:56:29	6.9	Bottom	3	2	22.42	8.32	33.16	93.0	6.66	8.6	5.9
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	CS(Mf)5	10:33:40	1.0	Surface	1	1	22.53	8.20	29.99	92.2	6.71	5.2	5.2
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	CS(Mf)5	10:33:09	1.0	Surface	1	2	22.51	8.20	30.05	92.0	6.69	5.2	5.2
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	CS(Mf)5	10:33:01	6.3	Middle	2	1	22.51	8.19	30.14	91.7	6.67	5.5	5.1
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	CS(Mf)5	10:33:29	6.3	Middle	2	2	22.51	8.20	30.10	91.7	6.67	5.4	5.2
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	CS(Mf)5	10:33:21	11.5	Bottom	3	1	22.51	8.20	30.11	91.9	6.69	5.6	3.5
HKLR	HY/2011/03	2016-12-05	Mid-Flood	Cloudy	CS(Mf)5	10:32:54	11.5	Bottom	3	2	22.51	8.20	30.14	92.0	6.69	5.6	3.6
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS5	06:39:10	1.0	Surface	1	1	21.91	8.22	29.83	94.0	6.92	7.2	16.6
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS5	06:39:50	1.0	Surface	1	2	21.89	8.22	29.84	93.6	6.90	7.2	15.2
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS5	06:39:01	4.0	Middle	2	1	21.90	8.22	29.83	93.9	6.92	7.1	18.5
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS5	06:39:43	4.0	Middle	2	2	21.89	8.22	29.85	93.5	6.89	7.4	17.6
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS5	06:38:50	6.9	Bottom	3	1	21.91	8.22	29.83	94.1	6.93	7.4	19.2
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS5	06:39:32	6.9	Bottom	3	2	21.88	8.22	29.86	93.4	6.88	7.3	19.7
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS(Mf)6	06:26:38	1.0	Surface	1	1	22.02	8.21	29.82	92.8	6.82	9.3	15.1
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS(Mf)6	06:26:24	1.0	Surface	1	2	22.03	8.21	29.82	93.0	6.83	9.5	14.6
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS(Mf)6	06:26:32	2.3	Bottom	3	1	22.02	8.21	29.82	92.8	6.82	9.4	17.0
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS(Mf)6	06:26:16	2.3	Bottom	3	2	22.02	8.21	29.82	93.0	6.83	9.4	15.8
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS7	06:18:11	1.0	Surface	1	1	22.01	8.21	29.80	93.5	6.88	9.4	15.4
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS7	06:18:22	1.0	Surface	1	2	22.00	8.21	29.80	93.4	6.87	9.5	14.6
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS7	06:18:16	2.1	Bottom	3	1	22.00	8.21	29.80	93.4	6.87	9.2	15.8
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS7	06:18:04	2.1	Bottom	3	2	22.01	8.21	29.79	93.6	6.88	9.3	16.2
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS8	05:53:19	1.0	Surface	1	1	21.95	8.20	29.76	97.5	7.18	7.4	10.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS8	05:53:36	1.0	Surface	1	2	21.94	8.20	29.78	96.3	7.09	7.5	10.6
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS8	05:53:12	2.7	Bottom	3	1	21.95	8.20	29.74	96.7	7.12	7.2	13.1
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS8	05:53:25	2.7	Bottom	3	2	21.94	8.20	29.77	95.9	7.06	7.5	12.2
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS(Mf)9	06:12:01	1.0	Surface	1	1	21.97	8.21	29.74	95.7	7.05	8.4	14.3
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS(Mf)9	06:12:12	1.0	Surface	1	2	21.96	8.21	29.75	95.0	6.99	8.2	13.6
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS(Mf)9	06:11:55	2.7	Bottom	3	1	21.96	8.21	29.73	96.2	7.08	8.4	15.9
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS(Mf)9	06:12:06	2.7	Bottom	3	2	21.97	8.21	29.75	95.3	7.02	8.3	15.6
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS10	05:42:20	1.0	Surface	1	1	21.72	8.51	30.35	95.5	7.04	4.0	8.6
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS10	05:41:33	1.0	Surface	1	2	21.71	8.52	30.26	96.7	7.13	4.1	7.3
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS10	05:41:27	5.5	Middle	2	1	21.71	8.52	30.32	95.9	7.07	4.1	9.4
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS10	05:42:02	5.5	Middle	2	2	21.71	8.52	30.35	94.8	6.99	4.0	10.1
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS10	05:41:56	10.0	Bottom	3	1	21.70	8.52	30.34	94.7	6.98	4.0	9.2
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	IS10	05:41:18	10.0	Bottom	3	2	21.72	8.52	30.29	95.4	7.03	4.1	8.9
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR3	06:45:24	0.7	Middle	2	1	21.88	8.22	29.85	93.6	6.90	7.6	16.5
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR3	06:45:29	0.7	Middle	2	2	21.89	8.22	29.85	93.6	6.90	7.1	16.5
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR4	06:01:01	1.0	Surface	1	1	21.94	8.21	29.84	94.2	6.93	7.1	16.0
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR4	06:00:48	1.0	Surface	1	2	21.95	8.21	29.84	94.4	6.94	7.2	14.1
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR4	06:00:42	2.8	Bottom	3	1	21.94	8.21	29.84	94.4	6.95	7.0	14.8
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR4	06:00:53	2.8	Bottom	3	2	21.95	8.21	29.85	94.3	6.94	7.1	15.5
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR5	05:49:45	1.0	Surface	1	1	21.70	8.46	30.22	94.9	7.00	3.7	8.0
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR5	05:49:04	1.0	Surface	1	2	21.70	8.50	30.17	94.9	6.98	3.7	6.3
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR5	05:48:16	4.1	Bottom	3	1	21.70	8.50	30.68	94.7	6.98	4.0	10.8
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR5	05:49:33	4.1	Bottom	3	2	21.69	8.50	30.12	94.0	6.94	3.7	10.7
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR10A	04:42:07	1.0	Surface	1	1	22.18	8.18	30.36	91.1	6.66	4.5	9.0
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR10A	04:42:34	1.0	Surface	1	2	22.17	8.18	30.32	91.0	6.65	4.6	9.8
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR10A	04:42:26	3.3	Middle	2	1	22.22	8.18	30.38	91.0	6.64	4.6	10.5
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR10A	04:42:00	3.3	Middle	2	2	22.20	8.18	30.40	91.1	6.65	4.6	10.1
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR10A	04:42:17	5.5	Bottom	3	1	22.20	8.18	30.40	91.0	6.65	4.7	12.2
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR10A	04:41:50	5.5	Bottom	3	2	22.21	8.17	30.45	91.3	6.66	4.7	12.9
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR10B	04:31:43	1.0	Surface	1	1	22.14	8.16	30.87	92.4	6.74	4.7	10.5
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR10B	04:32:19	1.0	Surface	1	2	22.14	8.17	30.67	91.8	6.70	4.7	11.3
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR10B	04:31:33	4.0	Bottom	3	1	22.17	8.15	30.96	92.7	6.75	4.8	19.5
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	SR10B	04:32:01	4.0	Bottom	3	2	22.19	8.16	30.80	92.0	6.70	4.8	21.4
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	CS2	07:01:20	1.0	Surface	1	1	21.80	8.45	29.12	94.4	7.00	3.9	6.5
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	CS2	07:00:27	1.0	Surface	1	2	21.81	8.45	29.05	94.3	6.99	4.1	6.6
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	CS2	07:00:20	4.1	Middle	2	1	21.79	8.46	29.03	93.9	6.95	4.1	10.8
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	CS2	07:01:07	4.1	Middle	2	2	21.80	8.45	29.10	94.3	6.99	3.9	11.2
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	CS2	07:00:50	7.1	Bottom	3	1	21.77	8.46	29.10	94.2	6.98	4.2	10.8
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	CS2	07:00:05	7.1	Bottom	3	2	21.76	8.45	29.26	93.7	6.95	4.1	9.9
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	CS(Mf)5	05:17:59	1.0	Surface	1	1	22.21	8.19	30.20	90.3	6.60	4.7	11.3
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	CS(Mf)5	05:18:30	1.0	Surface	1	2	22.18	8.19	30.17	90.3	6.61	4.6	10.8
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	CS(Mf)5	05:18:18	6.2	Middle	2	1	22.29	8.19	30.27	90.2	6.58	4.7	11.2
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	CS(Mf)5	05:17:51	6.2	Middle	2	2	22.26	8.18	30.25	90.1	6.58	4.8	11.9
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	CS(Mf)5	05:18:11	11.4	Bottom	3	1	22.26	8.19	30.30	90.3	6.59	4.8	11.2
HKLR	HY/2011/03	2016-12-07	Mid-Ebb	Cloudy	CS(Mf)5	05:17:40	11.4	Bottom	3	2	22.27	8.18	30.31	90.2	6.58	4.7	10.7
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS5	12:27:45	1.0	Surface	1	1	22.14	8.18	27.93	93.5	6.93	11.5	21.2
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS5	12:27:18	1.0	Surface	1	2	22.12	8.18	27.87	93.7	6.95	11.5	19.4
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS5	12:27:36	4.2	Middle	2	1	22.08	8.18	27.94	93.3	6.93	11.4	19.6
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS5	12:27:09	4.2	Middle	2	2	22.05	8.18	27.87	93.5	6.95	11.4	20.3
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS5	12:27:03	7.3	Bottom	3	1	22.06	8.19	27.83	93.6	6.95	11.2	23.0
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS5	12:27:26	7.3	Bottom	3	2	22.07	8.18	27.89	93.3	6.93	11.6	21.4

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS(Mf)6	12:34:14	1.0	Surface	1	1	22.13	8.19	28.17	95.2	7.05	10.2	8.8
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS(Mf)6	12:33:59	1.0	Surface	1	2	22.15	8.19	28.13	95.6	7.08	10.2	9.9
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS(Mf)6	12:34:08	2.2	Bottom	3	1	22.10	8.19	28.16	95.2	7.06	10.1	15.2
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS(Mf)6	12:33:52	2.2	Bottom	3	2	22.14	8.19	28.12	95.8	7.10	10.1	16.5
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS7	12:40:24	1.0	Surface	1	1	22.23	8.19	28.26	95.1	7.02	5.5	15.5
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS7	12:40:12	1.0	Surface	1	2	22.19	8.20	28.23	94.9	7.02	5.4	15.0
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS7	12:40:07	2.3	Bottom	3	1	22.17	8.20	28.23	94.9	7.02	5.4	17.2
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS7	12:40:17	2.3	Bottom	3	2	22.17	8.20	28.23	94.8	7.01	5.3	18.2
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS8	13:06:11	1.0	Surface	1	1	22.31	8.19	28.54	93.7	6.91	4.6	10.5
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS8	13:06:25	1.0	Surface	1	2	22.32	8.19	28.52	93.8	6.91	4.5	10.5
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS8	13:06:06	2.9	Bottom	3	1	22.31	8.19	28.56	93.7	6.91	4.5	11.6
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS8	13:06:17	2.9	Bottom	3	2	22.31	8.19	28.56	93.7	6.90	4.6	11.3
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS(Mf)9	12:50:10	1.0	Surface	1	1	22.08	8.20	28.38	96.3	7.13	11.8	17.8
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS(Mf)9	12:50:21	1.0	Surface	1	2	22.13	8.20	28.37	95.9	7.09	11.4	16.4
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS(Mf)9	12:50:04	2.6	Bottom	3	1	22.07	8.20	28.38	96.6	7.15	11.8	19.3
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS(Mf)9	12:50:15	2.6	Bottom	3	2	22.08	8.20	28.39	96.0	7.11	11.7	18.1
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS10	13:17:18	1.0	Surface	1	1	22.11	8.44	29.75	91.9	6.75	5.6	13.0
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS10	13:17:55	1.0	Surface	1	2	22.11	8.44	29.67	92.8	6.81	5.6	11.8
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS10	13:17:04	5.6	Middle	2	1	22.09	8.44	29.94	91.6	6.72	5.6	15.3
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS10	13:17:41	5.6	Middle	2	2	22.08	8.44	29.82	91.4	6.71	5.6	17.1
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS10	13:16:40	10.1	Bottom	3	1	22.10	8.44	30.34	91.4	6.69	5.7	16.4
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	IS10	13:17:27	10.1	Bottom	3	2	22.10	8.44	29.87	90.9	6.68	5.8	17.8
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR3	12:16:06	0.7	Middle	2	1	22.14	8.21	26.69	97.9	7.31	10.4	18.7
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR3	12:16:10	0.7	Middle	2	2	22.14	8.21	26.74	97.6	7.29	9.9	20.3
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR4	12:55:02	1.0	Surface	1	1	22.31	8.19	28.55	94.7	6.98	4.7	15.8
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR4	12:55:14	1.0	Surface	1	2	22.30	8.19	28.54	94.2	6.94	4.8	14.4
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR4	12:55:09	2.6	Bottom	3	1	22.30	8.19	28.56	94.5	6.96	4.6	16.3
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR4	12:54:58	2.6	Bottom	3	2	22.31	8.19	28.55	95.0	7.00	4.8	17.0
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR5	13:10:37	1.0	Surface	1	1	22.10	8.45	30.09	92.9	6.81	5.5	14.4
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR5	13:10:56	1.0	Surface	1	2	22.11	8.45	30.05	92.3	6.76	5.5	13.8
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR5	13:10:29	4.0	Bottom	3	1	22.10	8.45	30.14	92.2	6.76	5.7	15.1
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR5	13:10:46	4.0	Bottom	3	2	22.09	8.45	30.16	91.7	6.72	5.9	14.0
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR10A	14:21:31	1.0	Surface	1	1	22.27	8.20	28.97	91.7	6.74	3.5	8.5
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR10A	14:21:00	1.0	Surface	1	2	22.26	8.19	28.98	91.1	6.70	3.5	10.0
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR10A	14:20:54	3.3	Middle	2	1	22.21	8.19	29.03	90.8	6.68	3.6	11.3
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR10A	14:21:23	3.3	Middle	2	2	22.24	8.19	28.98	91.2	6.71	3.8	12.2
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR10A	14:20:49	5.5	Bottom	3	1	22.19	8.19	29.10	90.9	6.69	3.6	11.6
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR10A	14:21:12	5.5	Bottom	3	2	22.21	8.19	29.04	91.2	6.71	3.6	11.0
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR10B	14:30:59	1.0	Surface	1	1	22.27	8.20	28.98	92.0	6.77	2.7	6.4
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR10B	14:31:23	1.0	Surface	1	2	22.29	8.20	28.98	92.0	6.77	2.8	7.5
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR10B	14:30:48	4.0	Bottom	3	1	22.24	8.19	29.01	92.0	6.77	2.9	8.1
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	SR10B	14:31:10	4.0	Bottom	3	2	22.23	8.19	29.01	91.9	6.76	2.9	8.9
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	CS2	12:05:04	1.0	Surface	1	1	22.06	8.50	32.44	92.8	6.71	5.2	6.3
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	CS2	12:04:12	1.0	Surface	1	2	22.05	8.52	32.45	93.2	6.74	5.3	7.4
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	CS2	12:04:53	4.0	Middle	2	1	22.05	8.50	32.48	92.8	6.72	5.4	12.5
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	CS2	12:04:03	4.0	Middle	2	2	22.03	8.53	32.49	92.9	6.72	5.4	11.6
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	CS2	12:03:05	7.0	Bottom	3	1	22.04	8.58	32.49	91.8	6.64	5.5	12.4
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	CS2	12:04:33	7.0	Bottom	3	2	22.04	8.51	32.49	92.3	6.68	5.4	12.0
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	CS(Mf)5	13:49:25	1.0	Surface	1	1	22.27	8.20	28.97	91.1	6.70	7.2	6.5
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	CS(Mf)5	13:48:38	1.0	Surface	1	2	22.26	8.19	28.96	91.1	6.70	7.2	5.7
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	CS(Mf)5	13:49:10	6.2	Middle	2	1	22.20	8.19	29.08	90.3	6.64	7.5	6.3

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	CS(Mf)5	13:48:26	6.2	Middle	2	2	22.19	8.19	29.03	90.3	6.65	7.4	7.4
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	CS(Mf)5	13:48:59	11.3	Bottom	3	1	22.21	8.19	29.17	90.9	6.68	7.5	7.0
HKLR	HY/2011/03	2016-12-07	Mid-Flood	Cloudy	CS(Mf)5	13:48:13	11.3	Bottom	3	2	22.21	8.18	29.18	90.9	6.68	7.6	8.1
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS5	09:07:42	1.0	Surface	1	1	21.62	8.24	30.17	94.3	6.97	4.2	8.0
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS5	09:07:14	1.0	Surface	1	2	21.62	8.24	30.16	94.3	6.97	4.2	6.9
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS5	09:07:33	4.1	Middle	2	1	21.61	8.24	30.18	94.0	6.95	4.3	8.4
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS5	09:07:06	4.1	Middle	2	2	21.60	8.24	30.18	94.1	6.95	4.3	7.1
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS5	09:07:26	7.2	Bottom	3	1	21.59	8.24	30.18	93.9	6.94	4.4	8.5
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS5	09:07:00	7.2	Bottom	3	2	21.60	8.24	30.17	94.1	6.95	4.5	8.4
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS(Mf)6	08:57:35	1.0	Surface	1	1	21.62	8.24	30.14	94.6	6.99	3.9	8.8
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS(Mf)6	08:57:20	1.0	Surface	1	2	21.61	8.24	30.14	94.7	7.00	4.1	7.3
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS(Mf)6	08:57:14	2.1	Bottom	3	1	21.62	8.24	30.14	94.8	7.00	4.1	11.6
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS(Mf)6	08:57:27	2.1	Bottom	3	2	21.61	8.24	30.14	94.7	7.00	4.0	10.5
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS7	08:51:27	1.0	Surface	1	1	21.61	8.23	30.11	95.7	7.07	4.2	9.4
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS7	08:51:14	1.0	Surface	1	2	21.62	8.23	30.09	96.2	7.11	4.2	10.2
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS7	08:51:19	2.3	Bottom	3	1	21.61	8.23	30.10	95.9	7.09	4.1	13.0
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS7	08:51:07	2.3	Bottom	3	2	21.62	8.23	30.09	96.6	7.14	4.2	11.9
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS8	08:28:07	1.0	Surface	1	1	21.77	8.21	29.90	95.2	7.03	7.6	12.7
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS8	08:28:18	1.0	Surface	1	2	21.77	8.21	29.91	95.0	7.01	7.7	13.3
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS8	08:28:01	3.1	Bottom	3	1	21.78	8.21	29.90	95.3	7.03	7.7	12.2
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS8	08:28:11	3.1	Bottom	3	2	21.77	8.21	29.90	95.0	7.01	7.6	13.9
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS(Mf)9	08:43:47	1.0	Surface	1	1	21.77	8.21	29.95	94.2	6.95	7.6	11.5
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS(Mf)9	08:44:08	1.0	Surface	1	2	21.77	8.21	29.95	94.2	6.95	7.5	12.7
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS(Mf)9	08:43:37	2.5	Bottom	3	1	21.77	8.21	29.95	94.2	6.95	7.7	12.3
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS(Mf)9	08:43:54	2.5	Bottom	3	2	21.77	8.21	29.95	94.1	6.95	7.7	11.2
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS10	07:29:41	1.0	Surface	1	1	21.52	8.41	32.63	95.4	6.96	4.2	8.5
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS10	07:29:03	1.0	Surface	1	2	21.53	8.40	32.63	95.4	6.96	4.4	9.0
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS10	07:29:28	5.4	Middle	2	1	21.50	8.41	32.63	95.3	6.95	4.6	8.5
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS10	07:28:52	5.4	Middle	2	2	21.51	8.41	32.63	95.3	6.96	4.5	7.9
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS10	07:29:16	9.8	Bottom	3	1	21.52	8.42	32.62	95.1	6.94	4.9	11.0
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	IS10	07:28:45	9.8	Bottom	3	2	21.51	8.42	32.63	94.9	6.92	4.8	10.1
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR3	09:16:19	0.8	Middle	2	1	21.62	8.24	30.17	94.4	6.98	4.3	9.3
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR3	09:16:24	0.8	Middle	2	2	21.62	8.24	30.18	94.4	6.97	4.4	8.4
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR4	08:33:32	1.0	Surface	1	1	21.77	8.21	29.93	94.5	6.97	6.7	10.1
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR4	08:33:15	1.0	Surface	1	2	21.77	8.21	29.93	94.4	6.96	6.8	10.8
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR4	08:33:22	2.7	Bottom	3	1	21.77	8.21	29.94	94.3	6.96	6.8	10.9
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR4	08:33:09	2.7	Bottom	3	2	21.77	8.21	29.94	94.5	6.97	6.8	10.2
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR5	07:44:23	1.0	Surface	1	1	21.51	8.41	32.63	95.1	6.94	4.5	7.6
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR5	07:44:41	1.0	Surface	1	2	21.51	8.41	32.63	95.3	6.95	4.2	8.7
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR5	07:44:32	4.0	Bottom	3	1	21.51	8.41	32.63	94.6	6.90	4.7	7.3
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR5	07:44:15	4.0	Bottom	3	2	21.51	8.41	32.63	94.6	6.90	4.9	7.3
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR10A	07:14:18	1.0	Surface	1	1	21.95	8.19	30.69	89.5	6.55	1.5	6.1
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR10A	07:13:20	1.0	Surface	1	2	21.95	8.19	30.71	89.6	6.56	1.4	5.9
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR10A	07:13:07	3.2	Middle	2	1	21.94	8.19	30.73	89.6	6.56	1.5	6.4
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR10A	07:13:39	3.2	Middle	2	2	21.95	8.19	30.70	89.4	6.55	1.6	6.4
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR10A	07:13:33	5.4	Bottom	3	1	21.95	8.19	30.72	89.4	6.55	1.6	9.8
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR10A	07:12:58	5.4	Bottom	3	2	21.94	8.19	30.76	89.5	6.55	1.9	8.5
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR10B	07:02:01	1.0	Surface	1	1	21.95	8.18	31.02	90.0	6.58	1.9	5.2
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR10B	07:01:27	1.0	Surface	1	2	21.94	8.18	31.17	90.3	6.60	1.9	4.4
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR10B	07:01:42	4.2	Bottom	3	1	21.93	8.18	31.11	90.1	6.58	1.9	5.0
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	SR10B	07:01:16	4.2	Bottom	3	2	21.93	8.18	31.26	90.3	6.59	1.8	4.2

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	CS2	09:02:40	1.0	Surface	1	1	21.52	8.46	32.34	96.9	7.08	4.3	5.6
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	CS2	09:02:04	1.0	Surface	1	2	21.50	8.46	32.37	96.4	7.05	4.2	5.2
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	CS2	09:01:53	4.2	Middle	2	1	21.46	8.46	32.50	95.7	6.99	4.5	5.7
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	CS2	09:02:23	4.2	Middle	2	2	21.46	8.46	32.51	95.8	7.00	4.6	5.4
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	CS2	09:02:15	7.3	Bottom	3	1	21.47	8.46	32.50	95.4	6.97	4.7	5.0
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	CS2	09:01:44	7.3	Bottom	3	2	21.46	8.45	32.55	95.2	6.96	4.8	5.5
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	CS(Mf)5	07:52:22	1.0	Surface	1	1	22.04	8.20	30.56	87.2	6.38	1.8	5.4
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	CS(Mf)5	07:53:39	1.0	Surface	1	2	21.96	8.20	30.54	87.5	6.41	1.9	5.4
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	CS(Mf)5	07:52:11	6.0	Middle	2	1	22.43	8.19	30.84	87.5	6.34	1.9	4.1
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	CS(Mf)5	07:53:22	6.0	Middle	2	2	22.25	8.19	30.73	86.6	6.31	1.9	4.0
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	CS(Mf)5	07:53:03	10.9	Bottom	3	1	22.47	8.19	30.88	86.6	6.28	1.9	5.1
HKLR	HY/2011/03	2016-12-09	Mid-Ebb	Sunny	CS(Mf)5	07:52:04	10.9	Bottom	3	2	22.26	8.19	30.89	87.8	6.39	1.9	4.4
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS5	13:50:09	1.0	Surface	1	1	22.11	8.20	28.18	94.7	7.02	6.2	6.9
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS5	13:49:46	1.0	Surface	1	2	22.13	8.20	28.10	95.0	7.04	6.2	7.3
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS5	13:50:02	4.2	Middle	2	1	22.09	8.20	28.17	94.6	7.01	6.3	7.3
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS5	13:49:38	4.2	Middle	2	2	22.10	8.20	28.10	94.9	7.04	6.1	7.3
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS5	13:49:57	7.3	Bottom	3	1	22.10	8.20	28.15	94.7	7.02	6.4	7.1
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS5	13:49:31	7.3	Bottom	3	2	22.11	8.21	28.06	95.0	7.04	6.2	7.4
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS(Mf)6	13:57:21	1.0	Surface	1	1	22.31	8.21	28.46	98.3	7.24	3.8	5.7
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS(Mf)6	13:57:33	1.0	Surface	1	2	22.21	8.21	28.51	98.0	7.23	3.8	5.1
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS(Mf)6	13:57:11	2.2	Bottom	3	1	22.28	8.20	28.46	98.4	7.25	3.8	7.1
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS(Mf)6	13:57:27	2.2	Bottom	3	2	22.23	8.21	28.49	98.1	7.24	3.8	7.8
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS7	14:05:07	1.0	Surface	1	1	22.22	8.20	28.68	97.1	7.16	5.8	7.4
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS7	14:04:46	1.0	Surface	1	2	22.26	8.20	28.66	97.0	7.15	5.7	6.0
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS7	14:04:55	2.2	Bottom	3	1	22.26	8.20	28.67	96.8	7.13	6.2	7.0
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS7	14:04:37	2.2	Bottom	3	2	22.25	8.20	28.67	97.2	7.16	6.1	8.1
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS8	14:50:20	1.0	Surface	1	1	22.30	8.21	29.40	94.0	6.89	6.5	9.7
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS8	14:50:06	1.0	Surface	1	2	22.30	8.21	29.39	94.5	6.93	6.7	10.6
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS8	14:50:13	2.7	Bottom	3	1	22.30	8.21	29.39	94.1	6.90	6.8	11.2
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS8	14:49:59	2.7	Bottom	3	2	22.31	8.21	29.38	94.8	6.95	6.6	11.3
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS(Mf)9	14:24:32	1.0	Surface	1	1	22.06	8.20	28.96	94.5	6.98	10.2	13.8
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS(Mf)9	14:24:00	1.0	Surface	1	2	22.05	8.20	28.95	94.6	6.99	10.4	15.2
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS(Mf)9	14:24:20	2.6	Bottom	3	1	22.03	8.20	28.98	94.6	6.98	10.0	13.6
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS(Mf)9	14:23:49	2.6	Bottom	3	2	22.02	8.20	28.96	94.8	7.00	10.4	14.2
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS10	15:35:23	1.0	Surface	1	1	22.02	8.41	32.82	93.5	6.76	6.3	7.8
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS10	15:35:53	1.0	Surface	1	2	22.02	8.42	32.81	93.7	6.77	6.3	8.3
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS10	15:35:13	5.5	Middle	2	1	21.99	8.41	32.82	93.0	6.72	6.6	9.6
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS10	15:35:42	5.5	Middle	2	2	21.99	8.41	32.82	93.1	6.73	6.5	8.4
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS10	15:35:07	9.9	Bottom	3	1	22.00	8.41	32.82	92.6	6.69	6.7	9.7
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	IS10	15:35:34	9.9	Bottom	3	2	22.01	8.41	32.81	92.7	6.70	6.8	9.8
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR3	13:41:47	0.7	Middle	2	1	22.13	8.22	27.35	97.0	7.22	5.2	7.5
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR3	13:41:53	0.7	Middle	2	2	22.11	8.22	27.41	96.9	7.21	5.2	7.4
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR4	14:40:13	1.0	Surface	1	1	22.21	8.21	29.25	93.9	6.90	5.4	11.0
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR4	14:39:54	1.0	Surface	1	2	22.21	8.21	29.24	94.0	6.91	5.5	9.1
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR4	14:40:03	2.2	Bottom	3	1	22.21	8.21	29.25	93.9	6.90	5.5	11.9
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR4	14:39:45	2.2	Bottom	3	2	22.21	8.21	29.23	94.2	6.92	5.4	11.5
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR5	15:20:25	1.0	Surface	1	1	22.02	8.41	32.81	93.5	6.76	6.5	11.4
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR5	15:20:42	1.0	Surface	1	2	22.01	8.41	32.81	94.1	6.80	6.4	10.4
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR5	15:20:18	4.1	Bottom	3	1	22.02	8.41	32.81	92.5	6.68	6.7	10.8
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR5	15:20:36	4.1	Bottom	3	2	22.02	8.41	32.80	93.2	6.74	6.6	9.7
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR10A	15:52:59	1.0	Surface	1	1	22.21	8.20	29.63	89.9	6.59	4.2	4.3

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR10A	15:53:21	1.0	Surface	1	2	22.22	8.20	29.62	90.7	6.65	4.3	5.4
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR10A	15:52:52	3.3	Middle	2	1	22.14	8.19	29.66	89.6	6.58	4.4	5.8
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR10A	15:53:14	3.3	Middle	2	2	22.19	8.20	29.64	90.3	6.62	4.1	4.7
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR10A	15:53:07	5.5	Bottom	3	1	22.19	8.20	29.63	90.2	6.62	4.1	6.6
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR10A	15:52:46	5.5	Bottom	3	2	22.14	8.19	29.66	89.7	6.58	4.3	6.6
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR10B	16:00:21	1.0	Surface	1	1	22.20	8.20	29.65	90.7	6.65	3.2	6.7
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR10B	16:00:33	1.0	Surface	1	2	22.19	8.20	29.65	90.7	6.65	3.2	5.3
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR10B	16:00:15	3.9	Bottom	3	1	22.20	8.20	29.64	90.6	6.64	3.3	7.5
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	SR10B	16:00:27	3.9	Bottom	3	2	22.20	8.20	29.64	90.7	6.65	3.3	6.0
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	CS2	14:10:41	1.0	Surface	1	1	21.72	8.45	32.53	96.5	7.02	2.3	7.2
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	CS2	14:11:09	1.0	Surface	1	2	21.70	8.44	32.54	96.0	6.98	2.2	6.5
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	CS2	14:10:29	4.2	Middle	2	1	21.68	8.44	32.57	95.7	6.97	2.4	8.4
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	CS2	14:10:59	4.2	Middle	2	2	21.67	8.44	32.57	95.8	6.98	2.5	7.1
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	CS2	14:10:20	7.4	Bottom	3	1	21.67	8.41	32.59	94.7	6.89	2.8	7.7
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	CS2	14:10:49	7.4	Bottom	3	2	21.69	8.45	32.56	95.2	6.93	2.7	7.1
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	CS(Mf)5	15:30:31	1.0	Surface	1	1	22.26	8.20	29.47	94.0	6.89	2.8	5.7
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	CS(Mf)5	15:27:54	1.0	Surface	1	2	22.19	8.21	29.51	92.7	6.81	2.9	5.6
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	CS(Mf)5	15:30:15	5.9	Middle	2	1	22.12	8.19	29.48	95.9	7.05	3.1	6.4
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	CS(Mf)5	15:27:44	5.9	Middle	2	2	22.06	8.20	29.60	92.2	6.78	3.2	5.7
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	CS(Mf)5	15:27:35	10.7	Bottom	3	1	22.09	8.20	29.55	92.7	6.82	3.0	6.3
HKLR	HY/2011/03	2016-12-09	Mid-Flood	Sunny	CS(Mf)5	15:30:08	10.7	Bottom	3	2	22.12	8.19	29.44	98.5	7.24	3.2	6.4
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS5	12:17:03	1.0	Surface	1	1	21.93	8.24	30.42	98.9	7.26	4.5	6.3
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS5	12:17:33	1.0	Surface	1	2	21.94	8.24	30.42	98.8	7.25	4.4	5.3
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS5	12:16:55	4.1	Middle	2	1	21.92	8.24	30.43	98.8	7.25	4.4	5.0
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS5	12:17:26	4.1	Middle	2	2	21.93	8.24	30.43	98.7	7.24	4.3	5.0
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS5	12:17:16	7.2	Bottom	3	1	21.93	8.24	30.43	98.6	7.23	4.4	4.9
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS5	12:16:50	7.2	Bottom	3	2	21.93	8.24	30.42	98.8	7.25	4.4	5.8
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS(Mf)6	12:05:55	1.0	Surface	1	1	21.92	8.23	30.32	99.4	7.30	3.5	4.4
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS(Mf)6	12:06:12	1.0	Surface	1	2	21.93	8.23	30.32	99.1	7.27	3.5	3.4
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS(Mf)6	12:06:04	2.1	Bottom	3	1	21.92	8.23	30.32	99.2	7.28	3.4	5.8
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS(Mf)6	12:05:47	2.1	Bottom	3	2	21.92	8.23	30.32	99.7	7.32	3.4	4.7
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS7	12:00:01	1.0	Surface	1	1	22.27	8.26	30.22	106.7	7.79	2.4	2.4
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS7	11:59:47	1.0	Surface	1	2	22.27	8.26	30.21	106.7	7.79	2.4	4.2
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS7	11:59:42	2.1	Bottom	3	1	22.27	8.26	30.21	106.7	7.79	2.3	5.9
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS7	11:59:54	2.1	Bottom	3	2	22.27	8.26	30.22	106.7	7.79	2.4	4.3
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS8	11:33:49	1.0	Surface	1	1	22.12	8.24	30.28	103.3	7.56	3.6	4.2
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS8	11:34:02	1.0	Surface	1	2	22.11	8.24	30.28	103.4	7.57	3.7	4.0
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS8	11:33:44	3.0	Bottom	3	1	22.14	8.25	30.25	103.1	7.54	3.7	4.8
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS8	11:33:56	3.0	Bottom	3	2	22.11	8.24	30.26	103.2	7.56	3.8	4.1
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS(Mf)9	11:51:43	1.0	Surface	1	1	22.25	8.26	30.18	106.1	7.75	2.2	3.5
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS(Mf)9	11:51:54	1.0	Surface	1	2	22.25	8.26	30.19	106.3	7.77	2.3	3.7
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS(Mf)9	11:51:49	2.5	Bottom	3	1	22.25	8.26	30.19	106.2	7.75	2.4	3.8
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS(Mf)9	11:51:37	2.5	Bottom	3	2	22.26	8.26	30.17	105.9	7.73	2.2	3.5
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS10	10:48:54	1.0	Surface	1	1	22.13	8.42	31.97	101.7	7.36	2.2	2.9
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS10	10:49:34	1.0	Surface	1	2	22.13	8.42	31.97	102.1	7.39	2.2	3.1
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS10	10:48:44	5.4	Middle	2	1	22.09	8.42	32.32	101.4	7.35	2.5	2.7
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS10	10:49:22	5.4	Middle	2	2	22.09	8.42	32.33	101.6	7.35	2.4	2.6
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS10	10:49:11	9.8	Bottom	3	1	22.06	8.42	32.50	101.3	7.33	2.7	2.7
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	IS10	10:48:35	9.8	Bottom	3	2	22.09	8.41	32.42	100.5	7.27	2.9	3.6
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR3	12:26:07	0.7	Middle	2	1	21.97	8.24	30.41	99.1	7.27	3.8	4.6
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR3	12:26:13	0.7	Middle	2	2	21.97	8.24	30.41	99.1	7.26	3.8	5.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR4	11:40:09	1.0	Surface	1	1	22.21	8.25	30.24	104.0	7.60	3.7	4.4
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR4	11:39:54	1.0	Surface	1	2	22.15	8.25	30.28	103.8	7.59	3.7	4.4
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR4	11:39:47	2.6	Bottom	3	1	22.15	8.25	30.24	103.5	7.57	3.9	4.0
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR4	11:40:00	2.6	Bottom	3	2	22.15	8.25	30.25	103.6	7.58	3.8	4.5
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR5	11:06:48	1.0	Surface	1	1	22.12	8.43	32.04	101.7	7.35	2.3	3.6
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR5	11:06:11	1.0	Surface	1	2	22.10	8.43	32.12	101.6	7.36	2.2	4.2
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR5	11:06:02	3.9	Bottom	3	1	22.08	8.42	32.42	100.8	7.30	2.6	3.7
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR5	11:06:34	3.9	Bottom	3	2	22.08	8.42	32.48	100.9	7.31	2.7	3.8
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR10A	10:27:28	1.0	Surface	1	1	22.59	8.19	31.08	93.9	6.78	1.7	3.0
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR10A	10:27:00	1.0	Surface	1	2	22.61	8.19	31.14	93.7	6.76	1.8	3.8
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR10A	10:27:22	3.2	Middle	2	1	22.56	8.19	31.09	93.7	6.76	1.7	4.7
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR10A	10:26:53	3.2	Middle	2	2	22.57	8.18	31.19	93.4	6.74	1.7	6.4
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR10A	10:26:45	5.3	Bottom	3	1	22.60	8.18	31.24	93.1	6.73	1.8	6.3
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR10A	10:27:08	5.3	Bottom	3	2	22.58	8.18	31.17	93.5	6.76	1.9	5.2
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR10B	10:16:17	1.0	Surface	1	1	22.58	8.18	31.82	93.8	6.75	1.9	2.7
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR10B	10:16:28	1.0	Surface	1	2	22.57	8.18	31.71	93.5	6.73	1.8	3.3
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR10B	10:16:12	4.0	Bottom	3	1	22.59	8.18	31.89	94.0	6.76	1.7	4.9
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	SR10B	10:16:23	4.0	Bottom	3	2	22.58	8.18	31.77	93.7	6.74	1.8	5.5
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	CS2	12:29:06	1.0	Surface	1	1	22.22	8.49	32.28	100.9	7.29	4.1	5.9
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	CS2	12:29:33	1.0	Surface	1	2	22.19	8.49	32.30	100.9	7.29	4.2	6.3
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	CS2	12:28:56	4.1	Middle	2	1	22.08	8.49	32.42	100.1	7.25	4.3	4.2
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	CS2	12:29:26	4.1	Middle	2	2	22.13	8.49	32.36	99.9	7.22	4.5	5.0
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	CS2	12:29:18	7.1	Bottom	3	1	22.09	8.49	32.43	99.6	7.20	4.6	6.8
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	CS2	12:28:47	7.1	Bottom	3	2	22.02	8.48	32.51	99.9	7.23	4.7	6.1
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	CS(Mf)5	10:58:47	1.0	Surface	1	1	22.63	8.20	30.78	91.0	6.58	3.3	3.2
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	CS(Mf)5	10:57:20	1.0	Surface	1	2	22.59	8.19	30.89	91.5	6.62	3.3	2.8
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	CS(Mf)5	10:57:11	6.2	Middle	2	1	22.50	8.17	30.99	91.2	6.61	3.4	3.9
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	CS(Mf)5	10:58:33	6.2	Middle	2	2	22.47	8.18	30.92	90.6	6.57	3.4	3.1
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	CS(Mf)5	10:57:54	11.4	Bottom	3	1	22.43	8.17	30.97	88.5	6.42	3.5	4.4
HKLR	HY/2011/03	2016-12-12	Mid-Ebb	Cloudy	CS(Mf)5	10:56:59	11.4	Bottom	3	2	22.45	8.17	31.02	90.8	6.57	3.5	3.8
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS5	15:56:12	1.0	Surface	1	1	22.11	8.27	27.75	100.7	7.48	10.5	9.7
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS5	15:56:35	1.0	Surface	1	2	22.11	8.27	27.86	100.4	7.45	10.7	9.9
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS5	15:56:04	4.3	Middle	2	1	22.10	8.27	27.72	100.7	7.48	10.4	12.9
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS5	15:56:27	4.3	Middle	2	2	22.08	8.27	27.83	100.3	7.45	10.5	12.2
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS5	15:55:59	7.6	Bottom	3	1	22.11	8.28	27.69	100.7	7.48	10.1	14.3
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS5	15:56:20	7.6	Bottom	3	2	22.09	8.27	27.80	100.4	7.46	10.4	12.6
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS(Mf)6	16:03:12	1.0	Surface	1	1	22.38	8.28	28.39	106.8	7.86	2.9	4.0
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS(Mf)6	16:03:00	1.0	Surface	1	2	22.37	8.28	28.38	106.3	7.83	3.0	3.7
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS(Mf)6	16:02:54	2.3	Bottom	3	1	22.37	8.28	28.37	106.2	7.82	3.0	4.5
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS(Mf)6	16:03:05	2.3	Bottom	3	2	22.38	8.28	28.39	106.5	7.84	3.1	4.9
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS7	16:11:42	1.0	Surface	1	1	22.37	8.28	28.48	107.3	7.90	3.1	2.6
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS7	16:11:26	1.0	Surface	1	2	22.36	8.28	28.47	107.4	7.91	3.1	3.7
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS7	16:11:20	2.3	Bottom	3	1	22.37	8.28	28.46	107.5	7.91	3.1	4.7
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS7	16:11:33	2.3	Bottom	3	2	22.36	8.27	28.47	107.3	7.90	3.1	3.9
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS8	16:33:20	1.0	Surface	1	1	22.44	8.26	28.98	105.1	7.70	8.7	9.9
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS8	16:33:07	1.0	Surface	1	2	22.44	8.26	28.98	105.0	7.70	8.8	10.4
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS8	16:33:12	2.9	Bottom	3	1	22.44	8.26	28.99	105.0	7.70	8.5	9.7
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS8	16:33:00	2.9	Bottom	3	2	22.44	8.26	28.98	104.8	7.69	8.6	10.7
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS(Mf)9	16:17:57	1.0	Surface	1	1	22.26	8.27	28.68	106.4	7.84	5.9	6.2
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS(Mf)9	16:18:14	1.0	Surface	1	2	22.29	8.27	28.68	107.0	7.88	5.8	7.4
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS(Mf)9	16:18:05	2.7	Bottom	3	1	22.26	8.27	28.68	106.6	7.85	5.8	7.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS(Mf)9	16:17:50	2.7	Bottom	3	2	22.26	8.27	28.66	106.1	7.82	5.8	7.3
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS10	17:36:33	1.0	Surface	1	1	22.36	8.54	31.96	106.4	7.67	2.2	3.0
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS10	17:37:38	1.0	Surface	1	2	22.32	8.52	32.08	107.4	7.75	2.2	2.9
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS10	17:37:23	5.5	Middle	2	1	22.27	8.52	32.31	106.1	7.66	2.3	2.7
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS10	17:36:17	5.5	Middle	2	2	22.31	8.53	32.11	106.1	7.66	2.4	2.7
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS10	17:37:10	9.9	Bottom	3	1	22.37	8.54	31.95	106.0	7.65	2.5	3.1
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	IS10	17:36:04	9.9	Bottom	3	2	22.28	8.53	32.26	106.0	7.64	2.6	3.0
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR3	15:46:38	0.7	Middle	2	1	22.13	8.29	27.01	100.5	7.50	7.0	8.2
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR3	15:46:44	0.7	Middle	2	2	22.14	8.29	27.08	100.8	7.51	7.3	7.8
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR4	16:27:22	1.0	Surface	1	1	22.51	8.26	28.96	104.9	7.68	7.8	8.6
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR4	16:27:53	1.0	Surface	1	2	22.51	8.25	28.98	105.2	7.70	7.8	9.8
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR4	16:27:29	2.8	Bottom	3	1	22.52	8.25	28.98	104.9	7.68	8.0	10.8
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR4	16:27:15	2.8	Bottom	3	2	22.50	8.26	28.96	104.8	7.68	7.7	11.5
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR5	17:21:57	1.0	Surface	1	1	22.33	8.52	32.05	106.6	7.69	2.5	4.0
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR5	17:21:37	1.0	Surface	1	2	22.34	8.52	32.05	106.4	7.68	2.4	3.6
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR5	17:21:47	3.9	Bottom	3	1	22.30	8.52	32.17	105.9	7.64	2.7	5.1
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR5	17:21:25	3.9	Bottom	3	2	22.30	8.51	32.20	105.5	7.61	2.6	3.6
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR10A	17:42:46	1.0	Surface	1	1	22.31	8.25	28.88	103.1	7.58	1.7	2.2
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR10A	17:42:20	1.0	Surface	1	2	22.33	8.25	28.86	103.3	7.59	1.9	2.4
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR10A	17:42:32	3.2	Middle	2	1	22.26	8.25	29.05	103.1	7.58	1.8	2.7
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR10A	17:42:13	3.2	Middle	2	2	22.26	8.25	29.03	103.0	7.58	1.8	3.0
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR10A	17:42:26	5.4	Bottom	3	1	22.31	8.25	29.00	103.2	7.58	1.8	3.1
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR10A	17:42:04	5.4	Bottom	3	2	22.28	8.25	29.09	103.1	7.58	1.8	3.0
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR10B	17:51:54	1.0	Surface	1	1	22.32	8.25	28.90	103.8	7.63	1.4	3.2
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR10B	17:51:41	1.0	Surface	1	2	22.36	8.26	28.83	103.8	7.63	1.4	2.8
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR10B	17:51:47	4.2	Bottom	3	1	22.35	8.25	28.92	103.8	7.63	1.5	4.0
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	SR10B	17:51:31	4.2	Bottom	3	2	22.32	8.25	28.95	103.8	7.63	1.6	3.2
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	CS2	16:08:47	1.0	Surface	1	1	22.41	8.60	31.42	105.4	7.62	1.5	3.7
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	CS2	16:09:25	1.0	Surface	1	2	22.39	8.58	31.46	106.1	7.67	1.4	3.2
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	CS2	16:08:30	4.1	Middle	2	1	22.29	8.62	31.65	104.8	7.59	1.6	4.3
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	CS2	16:09:16	4.1	Middle	2	2	22.35	8.59	31.53	105.2	7.61	1.6	4.4
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	CS2	16:09:04	7.2	Bottom	3	1	22.22	8.59	31.77	104.5	7.57	1.9	3.8
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	CS2	16:08:20	7.2	Bottom	3	2	22.20	8.61	31.87	104.4	7.56	1.7	3.5
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	CS(Mf)5	17:19:23	1.0	Surface	1	1	22.33	8.25	28.81	102.0	7.50	2.8	4.1
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	CS(Mf)5	17:20:48	1.0	Surface	1	2	22.31	8.25	28.87	101.9	7.49	2.7	3.2
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	CS(Mf)5	17:20:38	6.4	Middle	2	1	22.20	8.24	29.20	100.4	7.38	2.8	2.9
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	CS(Mf)5	17:19:11	6.4	Middle	2	2	22.21	8.24	29.09	101.5	7.46	2.8	3.9
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	CS(Mf)5	17:19:35	11.7	Bottom	3	1	22.24	8.24	29.14	98.9	7.27	2.8	2.9
HKLR	HY/2011/03	2016-12-12	Mid-Flood	Cloudy	CS(Mf)5	17:19:03	11.7	Bottom	3	2	22.24	8.25	29.11	101.3	7.45	2.7	3.1
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS5	11:52:24	1.0	Surface	1	1	22.34	8.28	29.79	105.5	7.71	2.9	4.7
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS5	11:52:48	1.0	Surface	1	2	22.34	8.28	29.79	105.3	7.69	2.8	3.6
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS5	11:52:17	4.0	Middle	2	1	22.34	8.28	29.79	105.5	7.71	3.0	7.0
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS5	11:52:41	4.0	Middle	2	2	22.34	8.28	29.80	105.2	7.69	2.8	7.7
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS5	11:52:11	7.0	Bottom	3	1	22.35	8.28	29.78	105.4	7.70	3.1	6.5
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS5	11:52:34	7.0	Bottom	3	2	22.34	8.28	29.79	105.2	7.69	3.0	7.1
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS(Mf)6	11:58:18	1.0	Surface	1	1	22.36	8.28	29.73	105.5	7.71	2.2	4.8
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS(Mf)6	11:58:34	1.0	Surface	1	2	22.36	8.27	29.74	105.5	7.71	2.3	5.2
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS(Mf)6	11:58:26	2.1	Bottom	3	1	22.35	8.27	29.74	105.5	7.71	2.2	4.0
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS(Mf)6	11:58:10	2.1	Bottom	3	2	22.36	8.28	29.73	105.3	7.70	2.3	3.9
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS7	12:05:27	1.0	Surface	1	1	22.36	8.27	29.76	105.3	7.69	2.3	4.5
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS7	12:05:40	1.0	Surface	1	2	22.35	8.27	29.76	105.2	7.69	2.2	5.4

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS7	12:05:34	2.2	Bottom	3	1	22.35	8.27	29.76	105.2	7.69	2.3	5.4
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS7	12:05:20	2.2	Bottom	3	2	22.35	8.27	29.76	105.3	7.70	2.4	6.5
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS8	12:28:39	1.0	Surface	1	1	22.35	8.26	29.38	104.7	7.67	6.8	7.9
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS8	12:28:53	1.0	Surface	1	2	22.38	8.26	29.35	104.7	7.66	6.5	8.3
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS8	12:28:32	3.2	Bottom	3	1	22.37	8.26	29.43	104.8	7.67	6.6	10.4
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS8	12:28:45	3.2	Bottom	3	2	22.35	8.25	29.44	104.6	7.66	6.5	11.8
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS(Mf)9	12:11:48	1.0	Surface	1	1	22.42	8.27	29.43	107.3	7.85	3.3	7.9
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS(Mf)9	12:11:40	1.0	Surface	1	2	22.44	8.27	29.37	107.1	7.84	3.4	9.5
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS(Mf)9	12:11:35	2.6	Bottom	3	1	22.45	8.27	29.36	106.8	7.81	3.2	8.5
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS(Mf)9	12:11:44	2.6	Bottom	3	2	22.45	8.27	29.40	107.2	7.84	3.4	8.3
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS10	12:57:28	1.0	Surface	1	1	22.34	8.51	32.01	105.0	7.58	3.1	8.2
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS10	12:56:53	1.0	Surface	1	2	22.33	8.51	32.01	104.4	7.54	3.2	9.0
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS10	12:56:45	5.4	Middle	2	1	22.33	8.51	32.02	104.1	7.51	3.4	9.8
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS10	12:57:18	5.4	Middle	2	2	22.32	8.51	32.03	104.2	7.52	3.3	8.5
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS10	12:56:34	9.8	Bottom	3	1	22.32	8.50	32.03	103.9	7.49	3.6	10.4
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	IS10	12:57:09	9.8	Bottom	3	2	22.31	8.51	32.04	103.8	7.50	3.5	11.1
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR3	11:41:45	0.7	Middle	2	1	22.36	8.30	29.72	105.5	7.71	2.5	7.1
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR3	11:41:39	0.7	Middle	2	2	22.36	8.31	29.71	104.8	7.66	2.6	7.2
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR4	12:21:42	1.0	Surface	1	1	22.41	8.26	29.31	104.8	7.67	8.4	14.7
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR4	12:21:32	1.0	Surface	1	2	22.39	8.26	29.34	104.6	7.66	8.4	14.8
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR4	12:21:27	2.8	Bottom	3	1	22.40	8.26	29.36	104.6	7.66	8.6	14.0
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR4	12:21:36	2.8	Bottom	3	2	22.42	8.26	29.30	104.7	7.66	8.2	13.2
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR5	12:41:52	1.0	Surface	1	1	22.32	8.49	32.02	104.5	7.55	3.2	9.8
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR5	12:41:26	1.0	Surface	1	2	22.32	8.48	32.02	104.4	7.54	3.1	9.8
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR5	12:41:14	4.0	Bottom	3	1	22.31	8.48	32.03	103.9	7.51	3.4	17.3
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR5	12:41:40	4.0	Bottom	3	2	22.31	8.49	32.03	104.0	7.51	3.5	16.0
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR10A	13:41:19	1.0	Surface	1	1	22.39	8.26	29.27	104.1	7.63	3.2	10.8
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR10A	13:41:40	1.0	Surface	1	2	22.38	8.25	29.29	104.2	7.64	3.2	10.6
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR10A	13:41:34	3.2	Middle	2	1	22.38	8.25	29.30	104.2	7.64	3.1	13.4
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR10A	13:41:08	3.2	Middle	2	2	22.39	8.25	29.31	103.8	7.60	3.1	14.1
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR10A	13:41:26	5.4	Bottom	3	1	22.38	8.25	29.30	104.1	7.63	3.2	15.8
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR10A	13:41:01	5.4	Bottom	3	2	22.39	8.25	29.38	103.5	7.58	3.2	16.7
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR10B	13:52:53	1.0	Surface	1	1	22.39	8.25	29.30	104.4	7.65	3.2	7.8
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR10B	13:52:38	1.0	Surface	1	2	22.39	8.25	29.29	104.4	7.65	3.2	8.8
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR10B	13:52:31	4.0	Bottom	3	1	22.39	8.25	29.30	104.2	7.63	3.0	9.9
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	SR10B	13:52:45	4.0	Bottom	3	2	22.39	8.25	29.32	104.4	7.65	3.1	11.3
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	CS2	11:26:50	1.0	Surface	1	1	22.28	8.53	31.94	103.2	7.46	4.4	10.5
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	CS2	11:27:19	1.0	Surface	1	2	22.27	8.53	31.95	104.1	7.52	4.3	11.0
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	CS2	11:27:09	3.9	Middle	2	1	22.26	8.53	31.96	102.9	7.44	4.5	14.0
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	CS2	11:26:41	3.9	Middle	2	2	22.28	8.53	31.94	103.0	7.44	4.6	13.4
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	CS2	11:26:32	6.8	Bottom	3	1	22.28	8.52	31.94	102.3	7.39	4.9	15.5
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	CS2	11:27:01	6.8	Bottom	3	2	22.27	8.53	31.95	102.6	7.42	4.8	14.7
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	CS(Mf)5	13:12:54	1.0	Surface	1	1	22.39	8.25	29.26	101.1	7.41	3.6	7.3
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	CS(Mf)5	13:12:22	1.0	Surface	1	2	22.38	8.24	29.30	101.1	7.39	3.6	6.5
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	CS(Mf)5	13:12:14	6.0	Middle	2	1	22.43	8.23	29.59	100.6	7.37	3.6	10.1
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	CS(Mf)5	13:12:44	6.0	Middle	2	2	22.39	8.23	29.45	101.1	7.38	3.5	8.6
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	CS(Mf)5	13:12:33	10.9	Bottom	3	1	22.41	8.23	29.71	100.1	7.33	3.6	10.0
HKLR	HY/2011/03	2016-12-14	Mid-Ebb	Cloudy	CS(Mf)5	13:12:08	10.9	Bottom	3	2	22.41	8.23	29.65	100.3	7.33	3.6	10.5
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS5	08:19:09	1.0	Surface	1	1	22.33	8.27	29.79	104.5	7.64	2.4	9.2
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS5	08:18:46	1.0	Surface	1	2	22.33	8.27	29.77	104.6	7.65	2.5	8.3
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS5	08:19:03	4.3	Middle	2	1	22.33	8.26	29.79	104.5	7.64	2.4	11.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS5	08:18:38	4.3	Middle	2	2	22.33	8.26	29.78	104.5	7.64	2.4	12.5
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS5	08:18:54	7.5	Bottom	3	1	22.33	8.26	29.79	104.4	7.63	2.5	16.4
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS5	08:18:31	7.5	Bottom	3	2	22.33	8.26	29.80	104.3	7.63	2.5	15.1
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS(Mf)6	08:05:13	1.0	Surface	1	1	22.31	8.24	29.46	102.2	7.49	19.0	24.8
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS(Mf)6	08:05:28	1.0	Surface	1	2	22.31	8.24	29.46	102.3	7.50	18.6	26.1
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS(Mf)6	08:05:06	2.1	Bottom	3	1	22.31	8.24	29.48	102.2	7.49	19.6	38.0
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS(Mf)6	08:05:22	2.1	Bottom	3	2	22.31	8.24	29.47	102.3	7.50	18.6	37.6
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS7	07:58:15	1.0	Surface	1	1	22.31	8.24	29.46	102.4	7.50	18.5	23.8
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS7	07:58:05	1.0	Surface	1	2	22.31	8.24	29.46	102.4	7.50	18.6	23.9
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS7	07:58:10	2.3	Bottom	3	1	22.31	8.24	29.46	102.3	7.50	18.1	26.8
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS7	07:58:00	2.3	Bottom	3	2	22.31	8.24	29.46	102.3	7.50	18.7	27.1
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS8	07:37:07	1.0	Surface	1	1	22.29	8.23	29.28	101.2	7.43	8.5	19.4
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS8	07:36:51	1.0	Surface	1	2	22.28	8.23	29.24	101.5	7.45	8.4	19.1
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS8	07:37:01	3.2	Bottom	3	1	22.29	8.23	29.32	101.3	7.43	8.4	18.3
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS8	07:36:45	3.2	Bottom	3	2	22.28	8.23	29.26	101.7	7.46	8.5	17.7
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS(Mf)9	07:51:52	1.0	Surface	1	1	22.31	8.24	29.45	102.5	7.51	15.5	10.2
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS(Mf)9	07:51:35	1.0	Surface	1	2	22.30	8.24	29.42	102.6	7.52	15.6	10.4
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS(Mf)9	07:51:20	2.8	Bottom	3	1	22.31	8.24	29.47	102.8	7.54	15.8	19.4
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS(Mf)9	07:51:44	2.8	Bottom	3	2	22.32	8.24	29.51	102.4	7.50	15.4	17.7
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS10	07:47:43	1.0	Surface	1	1	22.24	8.47	31.99	101.9	7.36	6.2	13.9
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS10	07:46:51	1.0	Surface	1	2	22.24	8.47	32.00	101.7	7.35	6.3	12.3
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS10	07:47:33	5.4	Middle	2	1	22.25	8.47	31.99	101.5	7.34	6.4	16.8
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS10	07:46:31	5.4	Middle	2	2	22.25	8.47	32.00	101.4	7.33	6.6	17.9
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS10	07:47:18	9.8	Bottom	3	1	22.25	8.46	32.00	101.0	7.30	6.8	16.8
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	IS10	07:46:24	9.8	Bottom	3	2	22.25	8.47	32.00	100.8	7.28	6.9	17.6
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR3	08:26:13	0.7	Middle	2	1	22.32	8.27	29.80	104.6	7.65	2.1	15.0
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR3	08:26:08	0.7	Middle	2	2	22.32	8.27	29.80	104.6	7.65	2.3	13.6
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR4	07:42:21	1.0	Surface	1	1	22.29	8.23	29.33	100.9	7.40	10.0	23.2
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR4	07:42:35	1.0	Surface	1	2	22.30	8.23	29.36	100.8	7.39	10.1	25.3
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR4	07:42:16	2.8	Bottom	3	1	22.29	8.23	29.31	100.9	7.40	10.2	27.3
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR4	07:42:29	2.8	Bottom	3	2	22.29	8.23	29.35	100.8	7.39	10.2	26.3
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR5	08:01:52	1.0	Surface	1	1	22.25	8.48	31.99	101.7	7.35	5.3	20.3
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR5	08:02:34	1.0	Surface	1	2	22.25	8.47	32.00	101.9	7.37	5.4	19.1
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR5	08:01:35	4.0	Bottom	3	1	22.24	8.48	31.99	100.8	7.29	5.7	22.7
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR5	08:02:05	4.0	Bottom	3	2	22.25	8.48	31.99	101.2	7.31	5.8	21.0
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR10A	06:52:42	1.0	Surface	1	1	22.41	8.20	30.53	96.6	7.02	3.8	11.7
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR10A	06:52:04	1.0	Surface	1	2	22.41	8.19	30.63	96.6	7.01	3.8	10.4
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR10A	06:51:55	3.3	Middle	2	1	22.43	8.19	30.68	96.5	7.01	3.9	12.0
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR10A	06:52:29	3.3	Middle	2	2	22.43	8.19	30.58	96.4	7.00	3.9	11.5
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR10A	06:51:47	5.5	Bottom	3	1	22.43	8.19	30.71	96.4	7.00	4.0	14.4
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR10A	06:52:18	5.5	Bottom	3	2	22.44	8.19	30.64	96.3	6.99	3.9	13.1
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR10B	06:42:10	1.0	Surface	1	1	22.42	8.18	31.25	97.9	7.08	3.0	8.1
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR10B	06:41:54	1.0	Surface	1	2	22.44	8.18	31.45	98.8	7.14	3.3	7.8
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR10B	06:41:59	4.1	Bottom	3	1	22.44	8.18	31.40	98.4	7.11	3.2	12.4
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	SR10B	06:41:47	4.1	Bottom	3	2	22.43	8.18	31.56	99.3	7.17	3.3	14.0
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	CS2	09:21:42	1.0	Surface	1	1	22.23	8.48	31.97	101.0	7.31	5.2	12.6
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	CS2	09:20:52	1.0	Surface	1	2	22.23	8.47	31.97	102.4	7.40	5.3	11.9
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	CS2	09:21:33	4.0	Middle	2	1	22.23	8.48	32.03	100.7	7.28	5.6	13.9
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	CS2	09:20:43	4.0	Middle	2	2	22.24	8.46	32.00	101.7	7.35	5.5	13.7
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	CS2	09:21:16	7.0	Bottom	3	1	22.23	8.47	32.05	100.1	7.24	5.8	14.1
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	CS2	09:20:31	7.0	Bottom	3	2	22.23	8.46	32.04	100.9	7.30	5.9	12.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	CS(Mf)5	07:07:01	1.0	Surface	1	1	22.42	8.20	30.38	95.7	6.96	5.7	7.3
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	CS(Mf)5	07:07:35	1.0	Surface	1	2	22.43	8.20	30.36	95.6	6.95	5.9	8.0
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	CS(Mf)5	07:07:26	6.2	Middle	2	1	22.47	8.20	30.46	95.5	6.94	6.1	8.2
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	CS(Mf)5	07:06:49	6.2	Middle	2	2	22.47	8.20	30.47	95.5	6.94	6.1	9.7
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	CS(Mf)5	07:06:40	11.4	Bottom	3	1	22.46	8.20	30.52	95.4	6.93	6.3	9.7
HKLR	HY/2011/03	2016-12-14	Mid-Flood	Cloudy	CS(Mf)5	07:07:19	11.4	Bottom	3	2	22.47	8.20	30.50	95.3	6.92	6.2	9.5
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS5	13:20:00	1.0	Surface	1	1	21.07	8.39	28.98	108.8	8.18	2.7	8.3
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS5	13:20:29	1.0	Surface	1	2	21.08	8.39	29.01	108.7	8.17	2.8	9.6
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS5	13:20:18	4.2	Middle	2	1	21.07	8.39	29.00	108.5	8.16	3.0	8.9
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS5	13:19:50	4.2	Middle	2	2	21.07	8.39	28.97	108.6	8.16	2.9	8.3
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS5	13:20:10	7.4	Bottom	3	1	21.07	8.39	28.99	108.5	8.15	2.9	12.1
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS5	13:19:43	7.4	Bottom	3	2	21.06	8.39	28.96	108.7	8.17	2.9	11.2
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS(Mf)6	13:26:23	1.0	Surface	1	1	21.00	8.37	29.04	106.4	8.01	4.0	9.9
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS(Mf)6	13:26:00	1.0	Surface	1	2	21.00	8.37	29.02	106.5	8.01	4.1	8.9
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS(Mf)6	13:25:54	2.0	Bottom	3	1	21.00	8.37	29.02	106.5	8.01	4.1	12.7
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS(Mf)6	13:26:14	2.0	Bottom	3	2	21.00	8.37	29.04	106.4	8.00	4.0	11.9
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS7	13:33:28	1.0	Surface	1	1	21.01	8.37	29.07	106.1	7.98	4.6	11.8
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS7	13:33:43	1.0	Surface	1	2	20.99	8.37	29.07	106.2	7.98	4.7	11.9
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS7	13:33:20	2.3	Bottom	3	1	21.00	8.37	29.07	106.0	7.98	4.8	12.6
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS7	13:33:35	2.3	Bottom	3	2	21.00	8.37	29.07	106.1	7.98	4.9	14.3
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS8	13:52:13	1.0	Surface	1	1	21.24	8.35	29.02	109.6	8.21	4.1	9.2
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS8	13:52:26	1.0	Surface	1	2	21.20	8.35	29.02	108.8	8.16	4.3	8.5
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS8	13:52:08	3.0	Bottom	3	1	21.26	8.36	29.03	109.9	8.23	4.2	8.2
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS8	13:52:19	3.0	Bottom	3	2	21.21	8.35	29.05	109.3	8.19	4.1	8.6
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS(Mf)9	13:40:27	1.0	Surface	1	1	21.53	8.36	29.01	111.2	8.29	3.8	7.0
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS(Mf)9	13:40:08	1.0	Surface	1	2	21.53	8.36	28.98	111.1	8.28	3.8	7.8
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS(Mf)9	13:39:59	2.7	Bottom	3	1	21.53	8.36	29.01	111.0	8.27	3.8	7.9
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS(Mf)9	13:40:16	2.7	Bottom	3	2	21.54	8.36	29.03	111.2	8.28	3.8	8.0
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS10	14:31:27	1.0	Surface	1	1	21.52	8.37	32.45	101.8	7.43	3.6	7.2
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS10	14:31:02	1.0	Surface	1	2	21.59	8.39	32.49	103.0	7.51	3.5	5.9
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS10	14:31:19	5.2	Middle	2	1	21.45	8.35	32.51	101.6	7.43	3.7	7.8
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS10	14:30:50	5.2	Middle	2	2	21.45	8.38	32.53	101.6	7.43	3.8	8.6
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS10	14:31:13	9.4	Bottom	3	1	21.48	8.37	32.49	103.0	7.53	3.8	10.7
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	IS10	14:30:42	9.4	Bottom	3	2	21.45	8.37	32.57	102.3	7.48	3.7	12.1
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR3	13:08:54	0.7	Middle	2	1	21.06	8.40	28.57	110.2	8.30	3.1	6.9
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR3	13:09:01	0.7	Middle	2	2	21.06	8.40	28.63	110.2	8.30	3.1	8.0
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR4	13:47:01	1.0	Surface	1	1	21.27	8.36	28.98	107.7	8.07	4.4	8.3
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR4	13:47:13	1.0	Surface	1	2	21.22	8.35	29.00	108.3	8.11	4.4	8.2
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR4	13:47:08	2.7	Bottom	3	1	21.23	8.36	29.01	108.3	8.11	4.4	10.1
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR4	13:46:51	2.7	Bottom	3	2	21.29	8.35	29.05	107.5	8.04	4.3	9.3
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR5	14:23:39	1.0	Surface	1	1	21.47	8.39	32.56	103.0	7.53	3.8	10.2
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR5	14:23:15	1.0	Surface	1	2	21.46	8.39	32.59	102.9	7.52	3.6	10.0
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR5	14:23:07	4.0	Bottom	3	1	21.46	8.39	32.61	102.7	7.50	3.7	11.8
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR5	14:23:25	4.0	Bottom	3	2	21.46	8.39	32.60	102.8	7.51	3.7	11.7
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR10A	15:22:18	1.0	Surface	1	1	21.97	8.31	29.43	105.5	7.78	2.0	7.9
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR10A	15:21:57	1.0	Surface	1	2	21.98	8.31	29.43	105.4	7.77	2.0	8.4
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR10A	15:21:50	3.4	Middle	2	1	22.02	8.30	29.53	105.5	7.77	1.9	8.3
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR10A	15:22:10	3.4	Middle	2	2	22.03	8.30	29.54	105.6	7.77	1.8	7.2
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR10A	15:21:42	5.7	Bottom	3	1	21.98	8.30	29.51	105.6	7.78	1.9	8.9
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR10A	15:22:03	5.7	Bottom	3	2	21.98	8.30	29.52	105.6	7.78	1.9	7.9
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR10B	15:31:10	1.0	Surface	1	1	21.98	8.31	29.45	106.2	7.83	2.3	6.0

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR10B	15:31:23	1.0	Surface	1	2	21.97	8.31	29.44	106.1	7.82	2.3	4.5
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR10B	15:31:16	3.8	Bottom	3	1	21.97	8.31	29.50	106.3	7.84	2.4	10.0
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	SR10B	15:31:05	3.8	Bottom	3	2	21.96	8.31	29.50	106.3	7.83	2.3	10.5
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	CS2	13:09:00	1.0	Surface	1	1	21.51	8.42	32.56	104.5	7.63	3.6	5.7
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	CS2	13:09:41	1.0	Surface	1	2	21.50	8.37	32.57	103.7	7.57	3.5	5.6
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	CS2	13:08:44	3.8	Middle	2	1	21.49	8.43	32.58	105.2	7.68	3.4	6.5
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	CS2	13:09:29	3.8	Middle	2	2	21.50	8.37	32.59	103.0	7.52	3.6	7.2
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	CS2	13:08:24	6.5	Bottom	3	1	21.50	8.49	32.57	105.8	7.72	3.4	10.2
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	CS2	13:09:23	6.5	Bottom	3	2	21.50	8.38	32.60	104.1	7.60	3.5	10.9
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	CS(Mf)5	14:56:54	1.0	Surface	1	1	21.96	8.30	29.40	104.1	7.68	2.4	6.8
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	CS(Mf)5	14:57:27	1.0	Surface	1	2	21.99	8.29	29.43	103.2	7.60	2.3	5.7
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	CS(Mf)5	14:57:21	6.2	Middle	2	1	22.00	8.28	29.54	102.8	7.57	2.3	9.4
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	CS(Mf)5	14:56:44	6.2	Middle	2	2	21.98	8.28	29.53	103.7	7.64	2.3	9.3
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	CS(Mf)5	14:57:12	11.3	Bottom	3	1	21.98	8.28	29.60	103.6	7.63	2.3	9.6
HKLR	HY/2011/03	2016-12-16	Mid-Ebb	Sunny	CS(Mf)5	14:56:37	11.3	Bottom	3	2	21.98	8.29	29.51	104.6	7.71	2.3	10.3
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS5	10:17:34	1.0	Surface	1	1	20.97	8.31	29.78	104.3	7.82	3.4	6.7
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS5	10:16:59	1.0	Surface	1	2	20.98	8.31	29.76	104.8	7.85	3.5	5.1
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS5	10:16:46	4.4	Middle	2	1	20.96	8.32	29.75	104.9	7.86	3.5	7.3
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS5	10:17:27	4.4	Middle	2	2	20.97	8.31	29.78	104.2	7.81	3.5	6.3
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS5	10:17:20	7.7	Bottom	3	1	20.97	8.31	29.77	104.1	7.80	3.6	6.1
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS5	10:16:40	7.7	Bottom	3	2	20.97	8.31	29.74	104.8	7.85	3.3	6.4
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS(Mf)6	10:05:20	1.0	Surface	1	1	20.97	8.31	29.64	105.9	7.94	3.1	4.6
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS(Mf)6	10:05:04	1.0	Surface	1	2	20.97	8.30	29.61	106.6	7.99	3.3	3.6
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS(Mf)6	10:05:10	2.2	Bottom	3	1	20.97	8.30	29.62	106.2	7.97	3.3	4.0
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS(Mf)6	10:04:59	2.2	Bottom	3	2	20.97	8.30	29.59	106.9	8.02	3.4	4.1
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS7	09:58:27	1.0	Surface	1	1	21.12	8.29	29.78	102.7	7.68	3.7	5.8
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS7	09:58:40	1.0	Surface	1	2	21.12	8.28	29.78	102.6	7.67	3.6	6.0
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS7	09:58:34	2.2	Bottom	3	1	21.12	8.28	29.78	102.7	7.67	3.5	6.0
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS7	09:58:21	2.2	Bottom	3	2	21.12	8.28	29.78	102.6	7.67	3.6	6.1
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS8	09:37:26	1.0	Surface	1	1	21.45	8.27	29.89	101.0	7.50	11.5	13.6
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS8	09:37:11	1.0	Surface	1	2	21.46	8.27	29.87	101.3	7.52	11.2	12.9
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS8	09:37:18	3.0	Bottom	3	1	21.45	8.27	29.88	101.1	7.50	11.1	16.8
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS8	09:37:04	3.0	Bottom	3	2	21.46	8.27	29.86	101.6	7.54	11.4	17.6
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS(Mf)9	09:52:15	1.0	Surface	1	1	21.12	8.28	29.72	103.4	7.73	3.7	7.8
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS(Mf)9	09:51:54	1.0	Surface	1	2	21.12	8.28	29.68	104.2	7.79	3.8	7.8
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS(Mf)9	09:52:02	2.6	Bottom	3	1	21.12	8.28	29.71	103.7	7.76	3.6	7.4
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS(Mf)9	09:51:46	2.6	Bottom	3	2	21.12	8.28	29.67	104.6	7.82	3.6	7.5
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS10	09:26:28	1.0	Surface	1	1	21.24	8.38	32.30	100.9	7.41	6.5	9.8
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS10	09:25:58	1.0	Surface	1	2	21.23	8.39	32.33	101.2	7.43	6.6	8.0
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS10	09:25:47	5.4	Middle	2	1	21.23	8.39	32.31	100.4	7.38	7.6	10.6
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS10	09:26:19	5.4	Middle	2	2	21.21	8.38	32.38	100.9	7.42	8.2	9.5
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS10	09:26:09	9.7	Bottom	3	1	21.22	8.39	32.36	101.1	7.43	7.3	12.2
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	IS10	09:25:37	9.7	Bottom	3	2	21.22	8.39	32.32	100.6	7.39	7.0	10.8
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR3	10:26:38	0.6	Middle	2	1	20.99	8.31	29.79	104.3	7.81	3.5	8.4
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR3	10:26:31	0.6	Middle	2	2	20.99	8.31	29.79	104.3	7.81	3.7	8.4
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR4	09:41:35	1.0	Surface	1	1	21.45	8.27	29.94	100.7	7.47	10.4	10.1
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR4	09:41:54	1.0	Surface	1	2	21.44	8.28	29.94	100.8	7.48	10.5	11.0
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR4	09:41:44	2.7	Bottom	3	1	21.45	8.27	29.94	100.6	7.47	10.1	13.0
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR4	09:41:28	2.7	Bottom	3	2	21.45	8.27	29.94	100.6	7.47	10.2	12.6
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR5	09:35:25	1.0	Surface	1	1	21.24	8.38	32.18	102.0	7.50	5.3	10.6
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR5	09:35:08	1.0	Surface	1	2	21.24	8.38	32.20	101.1	7.44	5.4	11.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR5	09:35:16	3.8	Bottom	3	1	21.23	8.38	32.22	101.2	7.44	5.7	12.9
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR5	09:35:00	3.8	Bottom	3	2	21.22	8.38	32.27	100.9	7.41	5.6	11.4
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR10A	08:33:15	1.0	Surface	1	1	21.58	8.27	30.70	98.9	7.29	7.4	10.8
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR10A	08:33:42	1.0	Surface	1	2	21.59	8.27	30.65	98.8	7.28	7.5	9.4
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR10A	08:33:33	3.2	Middle	2	1	21.59	8.27	30.66	98.7	7.28	7.5	10.9
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR10A	08:33:03	3.2	Middle	2	2	21.59	8.27	30.72	98.7	7.27	7.6	11.2
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR10A	08:32:57	5.4	Bottom	3	1	21.59	8.27	30.73	98.7	7.27	7.5	12.0
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR10A	08:33:22	5.4	Bottom	3	2	21.58	8.27	30.69	98.8	7.28	7.5	12.0
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR10B	08:24:20	1.0	Surface	1	1	21.60	8.26	31.02	99.0	7.28	7.9	8.1
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR10B	08:23:57	1.0	Surface	1	2	21.60	8.25	31.13	99.3	7.30	7.9	8.2
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR10B	08:23:50	4.0	Bottom	3	1	21.60	8.25	31.18	99.4	7.30	8.2	13.7
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	SR10B	08:24:09	4.0	Bottom	3	2	21.60	8.25	31.07	99.0	7.28	8.1	14.4
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	CS2	10:49:26	1.0	Surface	1	1	21.23	8.37	31.10	100.7	7.46	7.7	14.3
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	CS2	10:48:59	1.0	Surface	1	2	21.23	8.37	31.10	100.0	7.40	7.8	13.3
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	CS2	10:49:15	3.9	Middle	2	1	21.23	8.37	31.08	100.3	7.43	8.5	13.7
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	CS2	10:48:51	3.9	Middle	2	2	21.23	8.37	31.24	99.2	7.34	8.3	14.7
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	CS2	10:49:07	6.8	Bottom	3	1	21.23	8.37	31.04	100.1	7.41	9.2	16.0
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	CS2	10:48:44	6.8	Bottom	3	2	21.23	8.35	31.54	99.3	7.33	8.9	17.3
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	CS(Mf)5	09:01:43	1.0	Surface	1	1	21.57	8.27	30.48	98.5	7.27	7.7	11.2
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	CS(Mf)5	09:02:21	1.0	Surface	1	2	21.57	8.27	30.46	98.6	7.28	7.5	12.0
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	CS(Mf)5	09:01:33	6.1	Middle	2	1	21.58	8.27	30.49	98.1	7.24	7.4	14.1
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	CS(Mf)5	09:02:12	6.1	Middle	2	2	21.58	8.27	30.46	98.3	7.26	7.5	13.7
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	CS(Mf)5	09:02:02	11.2	Bottom	3	1	21.58	8.27	30.48	98.2	7.25	7.6	13.6
HKLR	HY/2011/03	2016-12-16	Mid-Flood	Sunny	CS(Mf)5	09:01:25	11.2	Bottom	3	2	21.59	8.27	30.50	98.1	7.24	7.5	14.5
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS5	15:56:58	1.0	Surface	1	1	21.00	8.33	27.06	106.2	8.08	4.4	8.1
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS5	15:57:19	1.0	Surface	1	2	20.99	8.33	27.14	106.1	8.07	4.1	7.7
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS5	15:57:14	4.1	Middle	2	1	20.98	8.32	27.14	106.0	8.07	4.2	9.3
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS5	15:56:48	4.1	Middle	2	2	20.97	8.33	27.10	105.9	8.06	4.2	10.1
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS5	15:57:06	7.1	Bottom	3	1	20.99	8.33	27.11	106.0	8.06	4.1	10.7
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS5	15:56:43	7.1	Bottom	3	2	20.96	8.33	27.08	105.9	8.06	4.1	9.7
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS(Mf)6	16:02:28	1.0	Surface	1	1	20.96	8.31	27.60	104.6	7.94	5.4	8.3
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS(Mf)6	16:02:16	1.0	Surface	1	2	20.96	8.31	27.59	104.4	7.93	5.4	8.5
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS(Mf)6	16:02:21	2.2	Bottom	3	1	20.95	8.31	27.60	104.4	7.93	5.5	8.7
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS(Mf)6	16:02:11	2.2	Bottom	3	2	20.97	8.31	27.58	104.3	7.92	5.5	9.7
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS7	16:08:20	1.0	Surface	1	1	20.97	8.31	27.67	105.2	7.98	5.2	7.9
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS7	16:08:32	1.0	Surface	1	2	20.96	8.31	27.69	105.2	7.98	5.3	6.9
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS7	16:08:13	2.2	Bottom	3	1	20.98	8.31	27.66	105.2	7.98	5.4	9.5
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS7	16:08:25	2.2	Bottom	3	2	20.96	8.31	27.68	105.1	7.97	5.2	7.8
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS8	16:33:33	1.0	Surface	1	1	21.19	8.30	28.21	106.8	8.05	9.0	12.1
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS8	16:33:22	1.0	Surface	1	2	21.23	8.30	28.19	106.9	8.05	8.8	10.9
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS8	16:33:27	2.9	Bottom	3	1	21.25	8.30	28.17	106.6	8.02	8.8	11.6
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS8	16:33:14	2.9	Bottom	3	2	21.23	8.30	28.17	106.5	8.02	8.9	11.3
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS(Mf)9	16:19:38	1.0	Surface	1	1	21.36	8.31	28.07	108.2	8.13	8.0	10.8
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS(Mf)9	16:19:23	1.0	Surface	1	2	21.28	8.31	28.07	107.8	8.11	7.9	9.8
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS(Mf)9	16:19:17	2.8	Bottom	3	1	21.28	8.31	28.05	107.5	8.10	7.8	10.8
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS(Mf)9	16:19:29	2.8	Bottom	3	2	21.32	8.31	28.06	107.9	8.12	7.9	10.7
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS10	16:56:48	1.0	Surface	1	1	21.06	8.38	32.63	104.6	7.69	3.5	5.8
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS10	16:56:07	1.0	Surface	1	2	21.05	8.38	32.63	104.1	7.66	3.8	6.3
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS10	16:55:58	5.4	Middle	2	1	21.05	8.38	32.64	104.4	7.68	4.1	4.3
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS10	16:56:33	5.4	Middle	2	2	21.05	8.38	32.64	103.3	7.60	3.8	5.4
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS10	16:55:52	9.7	Bottom	3	1	21.05	8.38	32.64	104.3	7.68	4.2	6.9

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	IS10	16:56:23	9.7	Bottom	3	2	21.05	8.38	32.64	104.6	7.70	3.9	8.0
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR3	15:46:20	0.8	Middle	2	1	21.07	8.36	26.42	101.9	7.78	4.4	6.6
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR3	15:46:14	0.8	Middle	2	2	21.09	8.36	26.37	100.8	7.69	4.2	7.7
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR4	16:26:13	1.0	Surface	1	1	21.18	8.30	28.14	105.9	7.98	8.6	10.2
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR4	16:26:30	1.0	Surface	1	2	21.19	8.30	28.16	106.3	8.01	8.5	10.6
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR4	16:26:22	2.7	Bottom	3	1	21.14	8.31	28.13	105.8	7.98	8.6	11.5
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR4	16:26:06	2.7	Bottom	3	2	21.16	8.31	28.10	105.3	7.94	8.4	12.9
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR5	16:48:22	1.0	Surface	1	1	21.05	8.38	32.63	103.8	7.63	3.4	5.7
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR5	16:48:03	1.0	Surface	1	2	21.06	8.38	32.63	104.1	7.66	3.6	4.8
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR5	16:47:52	4.2	Bottom	3	1	21.05	8.38	32.64	103.1	7.59	3.8	6.5
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR5	16:48:12	4.2	Bottom	3	2	21.05	8.38	32.63	102.5	7.54	3.6	5.0
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR10A	17:41:53	1.0	Surface	1	1	21.16	8.29	28.33	104.4	7.86	3.2	5.3
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR10A	17:42:13	1.0	Surface	1	2	21.16	8.29	28.33	104.3	7.86	3.1	4.3
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR10A	17:42:07	3.2	Middle	2	1	21.14	8.29	28.35	104.2	7.85	3.1	5.8
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR10A	17:41:47	3.2	Middle	2	2	21.16	8.29	28.34	104.3	7.85	3.3	5.1
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR10A	17:41:37	5.3	Bottom	3	1	21.16	8.29	28.33	104.2	7.85	3.3	6.4
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR10A	17:42:00	5.3	Bottom	3	2	21.16	8.29	28.33	104.2	7.85	3.3	6.1
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR10B	17:51:12	1.0	Surface	1	1	21.16	8.29	28.32	104.6	7.88	3.3	4.8
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR10B	17:51:24	1.0	Surface	1	2	21.12	8.29	28.34	104.4	7.87	3.4	5.1
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR10B	17:51:05	4.0	Bottom	3	1	21.17	8.29	28.32	104.6	7.88	3.4	4.5
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	SR10B	17:51:18	4.0	Bottom	3	2	21.13	8.29	28.33	104.5	7.87	3.6	5.9
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	CS2	15:31:29	1.0	Surface	1	1	21.46	8.38	31.68	103.7	7.61	3.2	4.1
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	CS2	15:32:00	1.0	Surface	1	2	21.51	8.38	31.64	106.7	7.83	3.1	5.6
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	CS2	15:31:19	3.9	Middle	2	1	21.16	8.38	32.51	99.9	7.34	3.0	6.3
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	CS2	15:31:48	3.9	Middle	2	2	21.23	8.40	32.40	103.9	7.63	2.8	5.9
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	CS2	15:31:09	6.7	Bottom	3	1	21.12	8.40	32.54	98.6	7.25	2.8	5.1
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	CS2	15:31:40	6.7	Bottom	3	2	21.23	8.39	32.37	104.7	7.69	2.6	5.0
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	CS(Mf)5	17:12:02	1.0	Surface	1	1	21.13	8.29	28.39	103.4	7.79	4.4	6.4
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	CS(Mf)5	17:12:34	1.0	Surface	1	2	21.16	8.29	28.36	103.9	7.82	4.4	5.6
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	CS(Mf)5	17:11:55	6.1	Middle	2	1	21.10	8.29	28.42	103.3	7.79	4.2	6.7
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	CS(Mf)5	17:12:24	6.1	Middle	2	2	21.13	8.29	28.41	103.4	7.79	4.4	5.1
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	CS(Mf)5	17:11:43	11.2	Bottom	3	1	21.08	8.29	28.37	103.1	7.77	4.3	8.1
HKLR	HY/2011/03	2016-12-19	Mid-Ebb	Sunny	CS(Mf)5	17:12:13	11.2	Bottom	3	2	21.13	8.29	28.37	103.4	7.79	4.5	7.4
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS5	12:37:41	1.0	Surface	1	1	20.87	8.31	29.31	105.5	7.94	4.7	6.5
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS5	12:38:06	1.0	Surface	1	2	20.87	8.31	29.31	105.7	7.96	4.7	6.4
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS5	12:38:00	4.2	Middle	2	1	20.85	8.31	29.33	105.5	7.94	4.8	8.3
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS5	12:37:34	4.2	Middle	2	2	20.84	8.31	29.35	105.5	7.94	4.7	9.9
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS5	12:37:51	7.4	Bottom	3	1	20.85	8.31	29.34	105.4	7.94	4.7	9.3
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS5	12:37:27	7.4	Bottom	3	2	20.85	8.31	29.36	105.3	7.93	4.7	8.9
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS(Mf)6	12:26:14	1.0	Surface	1	1	20.86	8.32	29.27	108.6	8.18	5.8	8.2
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS(Mf)6	12:26:26	1.0	Surface	1	2	20.87	8.32	29.26	108.7	8.18	5.8	8.9
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS(Mf)6	12:26:20	2.2	Bottom	3	1	20.86	8.32	29.26	108.5	8.17	5.7	8.2
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS(Mf)6	12:26:05	2.2	Bottom	3	2	20.87	8.32	29.27	108.5	8.17	5.6	9.1
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS7	12:20:09	1.0	Surface	1	1	20.87	8.33	29.25	107.4	8.08	5.8	7.5
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS7	12:20:21	1.0	Surface	1	2	20.87	8.32	29.26	107.8	8.12	5.7	8.1
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS7	12:20:13	2.2	Bottom	3	1	20.87	8.33	29.25	107.5	8.09	5.7	9.6
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS7	12:20:04	2.2	Bottom	3	2	20.87	8.33	29.25	107.1	8.07	5.9	8.9
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS8	11:56:48	1.0	Surface	1	1	20.96	8.29	29.26	104.9	7.89	8.8	11.6
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS8	11:57:00	1.0	Surface	1	2	20.97	8.29	29.26	105.0	7.89	8.5	11.2
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS8	11:56:41	3.0	Bottom	3	1	20.99	8.29	29.22	104.7	7.87	8.5	14.0
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS8	11:56:53	3.0	Bottom	3	2	20.98	8.29	29.24	104.8	7.88	8.4	12.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS(Mf)9	12:12:33	1.0	Surface	1	1	20.95	8.29	29.29	105.0	7.89	11.1	13.4
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS(Mf)9	12:12:45	1.0	Surface	1	2	20.96	8.29	29.29	105.0	7.89	11.0	12.8
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS(Mf)9	12:12:24	2.7	Bottom	3	1	20.88	8.29	29.28	104.8	7.89	10.5	13.4
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS(Mf)9	12:12:37	2.7	Bottom	3	2	20.96	8.29	29.26	104.8	7.88	11.1	14.1
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS10	11:57:31	1.0	Surface	1	1	20.85	8.28	32.66	101.9	7.52	9.0	10.9
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS10	11:57:59	1.0	Surface	1	2	20.85	8.29	32.66	101.5	7.49	8.7	11.1
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS10	11:57:14	5.5	Middle	2	1	20.84	8.28	32.66	100.8	7.45	8.5	12.4
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS10	11:57:49	5.5	Middle	2	2	20.84	8.29	32.66	101.8	7.52	8.8	11.8
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS10	11:57:43	9.9	Bottom	3	1	20.84	8.29	32.66	100.9	7.45	8.8	11.4
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	IS10	11:57:04	9.9	Bottom	3	2	20.84	8.28	32.66	101.8	7.52	8.8	11.8
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR3	12:45:43	0.8	Middle	2	1	20.89	8.31	29.30	106.7	8.03	4.4	6.0
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR3	12:45:50	0.8	Middle	2	2	20.89	8.31	29.30	106.9	8.05	4.4	7.5
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR4	12:03:21	1.0	Surface	1	1	20.93	8.29	29.29	104.9	7.89	10.7	11.6
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR4	12:03:06	1.0	Surface	1	2	20.96	8.29	29.28	104.9	7.89	10.8	11.4
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR4	12:02:58	2.7	Bottom	3	1	20.92	8.29	29.26	104.8	7.88	11.4	14.4
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR4	12:03:14	2.7	Bottom	3	2	20.95	8.29	29.26	104.8	7.88	11.0	12.8
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR5	12:06:44	1.0	Surface	1	1	20.86	8.29	32.65	100.8	7.44	8.0	13.2
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR5	12:07:03	1.0	Surface	1	2	20.85	8.29	32.65	100.5	7.42	8.3	14.8
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR5	12:06:31	4.1	Bottom	3	1	20.84	8.29	32.65	101.4	7.49	8.2	14.2
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR5	12:06:53	4.1	Bottom	3	2	20.85	8.29	32.64	101.2	7.48	8.5	13.8
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR10A	10:56:35	1.0	Surface	1	1	21.13	8.23	28.99	100.8	7.57	3.6	4.7
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR10A	10:57:15	1.0	Surface	1	2	21.14	8.23	28.93	100.9	7.57	3.6	5.8
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR10A	10:57:01	3.2	Middle	2	1	20.99	8.23	28.99	100.6	7.57	3.8	4.5
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR10A	10:56:25	3.2	Middle	2	2	21.00	8.23	29.04	100.2	7.54	3.8	5.6
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR10A	10:56:50	5.3	Bottom	3	1	20.98	8.23	29.03	100.3	7.55	3.7	6.4
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR10A	10:56:16	5.3	Bottom	3	2	21.05	8.23	29.04	100.4	7.54	3.8	5.9
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR10B	10:46:42	1.0	Surface	1	1	21.00	8.22	29.29	100.4	7.54	3.7	4.5
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR10B	10:47:00	1.0	Surface	1	2	21.02	8.23	29.22	100.4	7.54	3.7	5.0
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR10B	10:46:51	4.1	Bottom	3	1	21.01	8.23	29.25	100.3	7.54	3.6	4.4
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	SR10B	10:46:36	4.1	Bottom	3	2	21.03	8.23	29.31	100.4	7.53	3.6	4.4
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	CS2	13:18:58	1.0	Surface	1	1	20.88	8.30	32.65	99.9	7.37	8.6	11.3
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	CS2	13:19:26	1.0	Surface	1	2	20.88	8.31	32.65	100.5	7.42	8.8	12.5
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	CS2	13:19:15	3.9	Middle	2	1	20.82	8.31	32.68	102.1	7.54	9.9	12.5
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	CS2	13:18:42	3.9	Middle	2	2	20.81	8.27	32.69	101.5	7.50	9.8	12.1
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	CS2	13:19:08	6.8	Bottom	3	1	20.83	8.31	32.69	100.2	7.40	9.1	12.8
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	CS2	13:18:29	6.8	Bottom	3	2	20.80	8.27	32.71	100.6	7.43	9.5	11.4
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	CS(Mf)5	11:23:00	1.0	Surface	1	1	21.05	8.24	28.88	100.1	7.53	6.7	4.2
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	CS(Mf)5	11:22:26	1.0	Surface	1	2	21.13	8.24	28.84	100.4	7.54	6.6	4.9
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	CS(Mf)5	11:22:09	6.2	Middle	2	1	20.97	8.23	28.93	99.4	7.49	6.8	5.0
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	CS(Mf)5	11:22:51	6.2	Middle	2	2	20.97	8.23	28.92	100.0	7.53	6.8	6.1
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	CS(Mf)5	11:22:00	11.4	Bottom	3	1	20.97	8.23	28.96	99.4	7.49	6.7	5.6
HKLR	HY/2011/03	2016-12-19	Mid-Flood	Sunny	CS(Mf)5	11:22:42	11.4	Bottom	3	2	20.97	8.23	28.96	99.7	7.51	6.8	5.8
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS5	06:50:24	1.0	Surface	1	1	21.30	8.27	28.89	99.8	7.47	6.4	10.2
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS5	06:50:46	1.0	Surface	1	2	21.30	8.27	28.90	99.8	7.47	6.4	9.1
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS5	06:50:37	4.1	Middle	2	1	21.30	8.27	28.92	99.8	7.47	6.5	9.7
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS5	06:50:12	4.1	Middle	2	2	21.29	8.27	28.94	99.6	7.45	6.6	10.5
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS5	06:50:30	7.1	Bottom	3	1	21.30	8.27	28.93	99.7	7.46	6.6	9.5
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS5	06:50:07	7.1	Bottom	3	2	21.30	8.27	28.94	99.4	7.44	6.5	9.5
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS(Mf)6	06:40:30	1.0	Surface	1	1	21.31	8.27	28.88	100.3	7.51	7.1	9.6
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS(Mf)6	06:40:42	1.0	Surface	1	2	21.31	8.27	28.88	100.3	7.51	7.0	10.3
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS(Mf)6	06:40:24	2.2	Bottom	3	1	21.31	8.27	28.88	100.3	7.51	7.1	9.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS(Mf)6	06:40:35	2.2	Bottom	3	2	21.31	8.27	28.88	100.3	7.51	7.0	10.5
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS7	06:33:35	1.0	Surface	1	1	21.31	8.27	28.87	100.2	7.51	7.8	10.8
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS7	06:33:20	1.0	Surface	1	2	21.31	8.27	28.87	100.2	7.50	7.7	11.1
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS7	06:33:13	2.2	Bottom	3	1	21.31	8.27	28.87	100.3	7.51	7.8	11.1
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS7	06:33:28	2.2	Bottom	3	2	21.31	8.27	28.87	100.2	7.50	7.9	11.7
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS8	06:12:44	1.0	Surface	1	1	21.19	8.27	29.18	102.0	7.64	9.6	8.4
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS8	06:12:29	1.0	Surface	1	2	21.20	8.27	29.18	102.1	7.64	9.5	8.5
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS8	06:12:36	3.0	Bottom	3	1	21.19	8.27	29.19	102.0	7.64	9.7	8.4
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS8	06:12:22	3.0	Bottom	3	2	21.20	8.27	29.18	102.0	7.64	9.7	7.2
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS(Mf)9	06:26:27	1.0	Surface	1	1	21.20	8.27	29.18	102.0	7.64	9.7	8.0
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS(Mf)9	06:26:11	1.0	Surface	1	2	21.20	8.27	29.19	102.1	7.65	9.8	7.8
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS(Mf)9	06:26:19	2.7	Bottom	3	1	21.19	8.27	29.20	102.1	7.64	9.8	10.4
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS(Mf)9	06:26:05	2.7	Bottom	3	2	21.20	8.27	29.19	102.1	7.64	9.9	10.1
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS10	05:29:42	1.0	Surface	1	1	21.11	8.43	29.86	102.6	7.67	2.2	4.0
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS10	05:30:09	1.0	Surface	1	2	21.11	8.44	29.87	102.7	7.67	2.2	3.2
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS10	05:29:32	5.4	Middle	2	1	21.07	8.41	29.95	102.4	7.65	2.3	2.3
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS10	05:30:01	5.4	Middle	2	2	21.08	8.45	29.93	102.6	7.66	2.3	3.0
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS10	05:29:53	9.8	Bottom	3	1	21.10	8.43	29.91	102.2	7.63	2.5	3.4
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	IS10	05:29:25	9.8	Bottom	3	2	21.08	8.40	29.94	102.2	7.63	2.4	4.6
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR3	06:58:39	0.7	Middle	2	1	21.31	8.27	28.89	100.5	7.53	6.9	9.4
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR3	06:58:34	0.7	Middle	2	2	21.30	8.27	28.89	100.5	7.52	6.8	10.3
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR4	06:19:01	1.0	Surface	1	1	21.20	8.27	29.17	102.1	7.65	10.4	8.2
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR4	06:19:11	1.0	Surface	1	2	21.20	8.27	29.18	102.2	7.65	10.4	8.5
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR4	06:19:06	2.8	Bottom	3	1	21.20	8.27	29.18	102.2	7.65	10.2	9.4
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR4	06:18:50	2.8	Bottom	3	2	21.19	8.27	29.20	102.1	7.65	10.2	7.9
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR5	05:44:45	1.0	Surface	1	1	21.09	8.49	29.72	103.3	7.72	2.1	3.2
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR5	05:45:03	1.0	Surface	1	2	21.08	8.49	29.67	103.0	7.71	2.2	3.0
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR5	05:44:37	3.8	Bottom	3	1	21.09	8.47	29.81	102.6	7.67	2.4	3.9
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR5	05:44:53	3.8	Bottom	3	2	21.08	8.48	29.74	103.0	7.70	2.3	2.7
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR10A	04:58:41	1.0	Surface	1	1	21.07	8.19	27.43	102.7	7.78	3.2	4.0
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR10A	04:58:07	1.0	Surface	1	2	21.05	8.20	27.65	102.6	7.77	3.1	3.1
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR10A	04:58:33	3.2	Middle	2	1	21.04	8.21	28.67	102.5	7.72	3.2	2.8
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR10A	04:58:00	3.2	Middle	2	2	21.05	8.21	28.79	102.5	7.71	3.1	4.0
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR10A	04:58:24	5.4	Bottom	3	1	21.05	8.21	28.89	102.4	7.70	3.2	4.5
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR10A	04:57:53	5.4	Bottom	3	2	21.05	8.19	28.92	102.5	7.71	3.3	5.1
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR10B	04:46:36	1.0	Surface	1	1	21.06	8.17	28.10	102.4	7.74	3.2	3.2
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR10B	04:46:19	1.0	Surface	1	2	21.07	8.17	28.28	102.4	7.73	3.1	3.7
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR10B	04:46:11	4.1	Bottom	3	1	21.06	8.16	29.53	102.2	7.66	3.2	2.5
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	SR10B	04:46:28	4.1	Bottom	3	2	21.05	8.17	29.34	102.3	7.67	3.2	3.8
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	CS2	07:11:05	1.0	Surface	1	1	21.16	8.51	29.71	103.7	7.74	2.1	2.2
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	CS2	07:10:37	1.0	Surface	1	2	21.19	8.50	29.57	103.5	7.73	2.2	3.5
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	CS2	07:10:30	4.1	Middle	2	1	21.18	8.50	29.61	102.2	7.63	2.4	2.6
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	CS2	07:10:57	4.1	Middle	2	2	21.11	8.51	29.93	103.3	7.72	2.3	3.5
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	CS2	07:10:49	7.1	Bottom	3	1	21.09	8.50	30.17	101.9	7.60	2.5	6.0
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	CS2	07:10:17	7.1	Bottom	3	2	21.18	8.48	29.72	101.9	7.62	2.6	5.1
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	CS(Mf)5	05:34:14	1.0	Surface	1	1	21.09	8.21	27.16	102.5	7.78	7.7	4.0
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	CS(Mf)5	05:33:46	1.0	Surface	1	2	21.07	8.22	27.30	102.4	7.77	7.8	3.0
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	CS(Mf)5	05:33:39	6.2	Middle	2	1	21.09	8.24	28.98	102.1	7.67	7.6	4.0
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	CS(Mf)5	05:34:03	6.2	Middle	2	2	21.09	8.23	29.00	102.1	7.67	7.7	2.3
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	CS(Mf)5	05:33:56	11.3	Bottom	3	1	21.07	8.22	29.29	102.3	7.67	7.9	3.0
HKLR	HY/2011/03	2016-12-21	Mid-Ebb	Cloudy	CS(Mf)5	05:33:32	11.3	Bottom	3	2	21.08	8.22	29.30	102.2	7.66	7.9	2.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS5	12:28:16	1.0	Surface	1	1	21.41	8.31	30.17	103.0	7.64	8.1	7.1
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS5	12:28:53	1.0	Surface	1	2	21.42	8.31	30.15	103.7	7.69	8.2	6.7
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS5	12:28:08	4.3	Middle	2	1	21.41	8.31	30.18	102.7	7.62	8.2	7.0
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS5	12:28:40	4.3	Middle	2	2	21.40	8.31	30.21	103.2	7.65	8.1	9.1
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS5	12:28:31	7.5	Bottom	3	1	21.41	8.31	30.20	103.2	7.65	8.3	7.6
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS5	12:27:57	7.5	Bottom	3	2	21.40	8.31	30.17	102.3	7.59	8.1	8.0
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS(Mf)6	12:34:14	1.0	Surface	1	1	21.44	8.31	30.16	104.3	7.73	5.6	6.6
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS(Mf)6	12:33:59	1.0	Surface	1	2	21.44	8.31	30.15	104.0	7.71	5.9	7.7
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS(Mf)6	12:34:06	2.2	Bottom	3	1	21.44	8.31	30.16	104.1	7.72	5.8	7.5
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS(Mf)6	12:33:52	2.2	Bottom	3	2	21.44	8.31	30.15	103.7	7.69	5.6	6.7
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS7	12:40:19	1.0	Surface	1	1	21.45	8.31	30.13	104.8	7.77	5.2	7.0
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS7	12:40:07	1.0	Surface	1	2	21.45	8.31	30.14	104.8	7.77	5.1	7.5
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS7	12:40:12	2.2	Bottom	3	1	21.45	8.31	30.14	104.8	7.77	5.2	9.2
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS7	12:40:02	2.2	Bottom	3	2	21.45	8.31	30.15	104.7	7.76	5.1	7.9
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS8	13:03:35	1.0	Surface	1	1	21.24	8.30	28.93	106.0	7.94	7.7	6.0
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS8	13:03:22	1.0	Surface	1	2	21.24	8.30	28.98	106.1	7.95	7.5	7.4
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS8	13:03:14	3.2	Bottom	3	1	21.24	8.29	29.67	106.5	7.94	7.4	5.4
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS8	13:03:28	3.2	Bottom	3	2	21.24	8.29	29.87	106.2	7.91	7.6	5.6
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS(Mf)9	12:47:53	1.0	Surface	1	1	21.25	8.31	29.49	106.9	7.98	7.6	7.6
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS(Mf)9	12:47:38	1.0	Surface	1	2	21.26	8.31	29.39	106.9	7.99	7.7	6.1
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS(Mf)9	12:47:45	2.8	Bottom	3	1	21.25	8.30	29.73	107.1	7.99	7.6	7.3
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS(Mf)9	12:47:31	2.8	Bottom	3	2	21.26	8.30	29.60	106.8	7.97	7.8	7.9
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS10	14:12:02	1.0	Surface	1	1	21.07	8.55	31.29	103.1	7.62	6.3	5.4
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS10	14:12:29	1.0	Surface	1	2	21.07	8.55	31.34	102.6	7.60	6.4	5.7
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS10	14:11:55	5.4	Middle	2	1	21.07	8.55	31.44	102.1	7.55	6.6	5.4
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS10	14:12:18	5.4	Middle	2	2	21.06	8.55	31.70	102.3	7.57	6.6	4.7
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS10	14:11:47	9.8	Bottom	3	1	21.06	8.53	31.72	101.8	7.53	6.7	4.4
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	IS10	14:12:11	9.8	Bottom	3	2	21.07	8.53	31.64	101.8	7.54	6.8	5.4
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR3	12:16:38	0.7	Middle	2	1	21.42	8.33	29.92	103.0	7.65	6.9	8.4
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR3	12:16:30	0.7	Middle	2	2	21.42	8.33	29.89	102.7	7.63	6.9	8.1
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR4	12:57:23	1.0	Surface	1	1	21.25	8.30	28.87	105.5	7.91	9.6	3.0
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR4	12:56:59	1.0	Surface	1	2	21.24	8.30	29.16	106.3	7.96	9.6	5.2
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR4	12:56:52	2.9	Bottom	3	1	21.23	8.29	29.50	106.4	7.95	9.7	6.0
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR4	12:57:15	2.9	Bottom	3	2	21.23	8.29	29.82	105.7	7.88	9.6	4.2
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR5	13:57:47	1.0	Surface	1	1	21.06	8.54	31.39	103.4	7.64	6.2	4.7
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR5	13:58:13	1.0	Surface	1	2	21.07	8.54	31.31	103.4	7.67	6.4	4.6
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR5	13:58:03	4.0	Bottom	3	1	21.06	8.54	31.74	102.2	7.57	6.5	6.1
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR5	13:57:38	4.0	Bottom	3	2	21.06	8.54	31.57	101.9	7.54	6.6	4.5
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR10A	14:17:27	1.0	Surface	1	1	21.14	8.27	28.71	104.0	7.81	3.4	2.2
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR10A	14:17:52	1.0	Surface	1	2	21.15	8.27	28.68	103.9	7.81	3.5	2.1
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR10A	14:17:43	3.3	Middle	2	1	21.12	8.27	28.87	103.8	7.80	4.1	3.7
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR10A	14:17:19	3.3	Middle	2	2	21.11	8.27	28.88	103.7	7.80	4.2	3.1
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR10A	14:17:07	5.6	Bottom	3	1	21.11	8.27	28.90	103.7	7.79	4.5	2.9
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR10A	14:17:38	5.6	Bottom	3	2	21.12	8.27	28.85	103.7	7.79	4.1	4.0
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR10B	14:28:12	1.0	Surface	1	1	21.21	8.28	28.46	105.5	7.93	2.8	2.8
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR10B	14:26:03	1.0	Surface	1	2	21.13	8.27	28.77	104.7	7.87	2.9	2.3
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR10B	14:27:57	4.1	Bottom	3	1	21.20	8.28	28.63	103.8	7.80	2.9	2.2
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	SR10B	14:25:57	4.1	Bottom	3	2	21.16	8.27	28.73	104.7	7.86	2.9	3.5
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	CS2	12:40:34	1.0	Surface	1	1	21.07	8.48	30.12	103.2	7.70	3.1	3.4
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	CS2	12:41:02	1.0	Surface	1	2	21.09	8.49	30.06	103.4	7.72	3.2	3.8
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	CS2	12:40:24	4.2	Middle	2	1	21.06	8.48	30.10	102.8	7.63	3.3	2.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	CS2	12:40:54	4.2	Middle	2	2	21.05	8.49	30.12	103.0	7.69	3.4	2.3
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	CS2	12:40:45	7.3	Bottom	3	1	21.04	8.48	31.20	102.6	7.61	3.5	3.5
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	CS2	12:40:15	7.3	Bottom	3	2	21.03	8.46	31.29	101.3	7.56	3.6	3.9
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	CS(Mf)5	13:42:53	1.0	Surface	1	1	21.16	8.27	28.65	103.6	7.79	6.3	3.4
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	CS(Mf)5	13:43:35	1.0	Surface	1	2	21.21	8.28	28.55	104.4	7.85	6.2	3.0
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	CS(Mf)5	13:43:22	6.2	Middle	2	1	21.10	8.27	29.04	104.0	7.81	6.4	3.6
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	CS(Mf)5	13:42:42	6.2	Middle	2	2	21.11	8.27	29.10	103.3	7.75	6.5	2.5
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	CS(Mf)5	13:43:10	11.4	Bottom	3	1	21.11	8.27	29.25	104.7	7.85	6.6	3.3
HKLR	HY/2011/03	2016-12-21	Mid-Flood	Cloudy	CS(Mf)5	13:42:32	11.4	Bottom	3	2	21.12	8.27	29.13	103.4	7.76	6.4	4.2
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS5	09:28:19	1.0	Surface	1	1	21.15	8.26	28.31	99.3	7.47	5.6	4.8
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS5	09:28:43	1.0	Surface	1	2	21.07	8.27	28.29	99.0	7.47	5.6	5.4
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS5	09:28:13	4.1	Middle	2	1	21.22	8.26	28.44	99.0	7.45	5.8	4.9
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS5	09:28:35	4.1	Middle	2	2	21.14	8.26	28.31	99.0	7.46	5.6	4.0
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS5	09:28:07	7.1	Bottom	3	1	21.19	8.26	28.44	98.9	7.45	5.7	6.0
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS5	09:28:27	7.1	Bottom	3	2	21.14	8.26	28.43	98.7	7.44	5.8	5.2
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS(Mf)6	09:21:39	1.0	Surface	1	1	21.08	8.26	28.35	100.5	7.58	3.4	3.2
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS(Mf)6	09:21:29	1.0	Surface	1	2	21.07	8.26	28.33	100.8	7.60	3.5	3.1
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS(Mf)6	09:21:35	2.3	Bottom	3	1	21.07	8.26	28.37	100.6	7.59	3.6	2.9
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS(Mf)6	09:21:21	2.3	Bottom	3	2	21.09	8.26	28.36	101.2	7.63	3.6	3.3
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS7	09:15:49	1.0	Surface	1	1	21.13	8.28	28.21	103.0	7.77	4.5	3.5
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS7	09:16:03	1.0	Surface	1	2	21.13	8.28	28.21	103.2	7.78	4.4	4.5
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS7	09:15:43	2.2	Bottom	3	1	21.13	8.28	28.21	102.9	7.76	4.4	4.7
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS7	09:15:54	2.2	Bottom	3	2	21.13	8.27	28.23	103.1	7.78	4.5	4.5
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS8	08:49:23	1.0	Surface	1	1	21.08	8.27	27.92	102.9	7.78	6.4	3.7
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS8	08:49:40	1.0	Surface	1	2	20.96	8.27	27.83	102.8	7.79	6.4	3.9
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS8	08:49:17	3.1	Bottom	3	1	21.04	8.26	28.11	103.3	7.81	6.3	2.8
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS8	08:49:28	3.1	Bottom	3	2	21.03	8.27	28.10	103.2	7.80	6.3	3.2
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS(Mf)9	09:07:00	1.0	Surface	1	1	21.14	8.27	28.19	102.9	7.76	4.0	4.5
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS(Mf)9	09:07:26	1.0	Surface	1	2	21.13	8.27	28.20	102.8	7.75	3.9	4.1
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS(Mf)9	09:06:52	2.7	Bottom	3	1	21.15	8.27	28.23	103.1	7.77	4.0	3.9
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS(Mf)9	09:07:19	2.7	Bottom	3	2	21.15	8.27	28.26	102.9	7.76	3.9	4.8
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS10	08:27:19	1.0	Surface	1	1	20.84	8.38	30.28	103.1	7.72	2.9	3.5
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS10	08:26:51	1.0	Surface	1	2	20.79	8.38	30.22	103.5	7.76	2.7	3.5
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS10	08:27:07	5.4	Middle	2	1	20.99	8.37	30.71	103.4	7.70	3.0	3.1
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS10	08:26:26	5.4	Middle	2	2	20.99	8.37	30.72	102.5	7.63	3.1	3.6
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS10	08:26:59	9.8	Bottom	3	1	20.91	8.38	30.69	103.2	7.70	3.0	3.1
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	IS10	08:26:19	9.8	Bottom	3	2	20.95	8.36	30.75	102.7	7.65	3.1	3.2
HKLR	HY/2011/03	2016-12-23	Mid-Ebb		SR3			Surface	1	1							
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR3	09:36:17	0.6	Middle	2	1	20.99	8.27	28.27	100.1	7.56	3.7	5.1
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR3	09:36:22	0.6	Middle	2	2	21.00	8.27	28.27	100.2	7.57	3.6	4.6
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR4	08:57:05	1.0	Surface	1	1	21.03	8.27	27.93	103.0	7.79	3.9	2.4
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR4	08:56:48	1.0	Surface	1	2	21.01	8.27	27.91	103.3	7.82	3.9	2.9
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR4	08:56:57	2.8	Bottom	3	1	21.10	8.27	28.26	103.6	7.81	4.2	3.1
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR4	08:56:40	2.8	Bottom	3	2	21.01	8.27	28.11	103.6	7.84	4.3	3.3
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR5	08:36:10	1.0	Surface	1	1	20.87	8.38	30.32	103.7	7.76	2.9	3.8
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR5	08:35:55	1.0	Surface	1	2	20.84	8.38	30.29	103.5	7.75	2.8	4.2
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR5	08:36:03	4.1	Bottom	3	1	20.89	8.38	30.53	103.8	7.76	2.9	3.6
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR5	08:35:42	4.1	Bottom	3	2	20.98	8.33	30.68	103.8	7.73	2.8	4.2
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR10A	07:41:39	1.0	Surface	1	1	20.91	8.24	29.11	101.7	7.64	1.2	2.1
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR10A	07:42:03	1.0	Surface	1	2	20.81	8.25	28.97	101.6	7.66	1.2	3.3
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR10A	07:41:32	3.2	Middle	2	1	21.00	8.23	29.27	101.6	7.64	1.2	2.0

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR10A	07:41:55	3.2	Middle	2	2	20.91	8.24	29.06	101.5	7.64	1.2	2.1
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR10A	07:41:25	5.4	Bottom	3	1	20.95	8.23	29.32	101.4	7.63	1.2	2.2
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR10A	07:41:47	5.4	Bottom	3	2	20.93	8.24	29.24	101.3	7.63	1.2	2.3
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR10B	07:31:56	1.0	Surface	1	1	20.91	8.22	29.77	102.1	7.66	1.3	2.4
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR10B	07:32:11	1.0	Surface	1	2	20.89	8.23	29.60	101.9	7.66	1.2	2.2
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR10B	07:32:02	4.1	Bottom	3	1	20.89	8.22	29.79	102.2	7.67	1.2	3.4
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	SR10B	07:31:50	4.1	Bottom	3	2	20.88	8.22	29.94	102.2	7.67	1.3	2.4
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	CS2	09:49:24	1.0	Surface	1	1	20.83	8.39	30.52	102.0	7.63	2.8	3.0
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	CS2	09:48:57	1.0	Surface	1	2	20.82	8.39	30.52	103.0	7.71	2.7	4.0
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	CS2	09:48:44	3.8	Middle	2	1	20.94	8.38	30.83	102.6	7.65	2.7	3.4
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	CS2	09:49:13	3.8	Middle	2	2	20.95	8.38	30.84	102.1	7.60	2.7	2.8
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	CS2	09:48:38	6.6	Bottom	3	1	20.95	8.38	30.91	104.0	7.74	2.8	3.4
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	CS2	09:49:08	6.6	Bottom	3	2	20.93	8.38	30.91	101.8	7.58	2.6	2.8
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	CS(Mf)5	08:13:01	1.0	Surface	1	1	20.90	8.26	28.43	100.5	7.48	1.3	2.7
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	CS(Mf)5	08:12:18	1.0	Surface	1	2	20.73	8.26	28.64	100.1	7.55	1.3	2.0
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	CS(Mf)5	08:12:49	6.0	Middle	2	1	21.43	8.24	29.44	99.7	7.47	1.4	2.1
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	CS(Mf)5	08:12:04	6.0	Middle	2	2	21.15	8.24	29.13	99.7	7.45	1.4	2.3
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	CS(Mf)5	08:12:41	11.0	Bottom	3	1	21.44	8.24	29.55	99.0	7.42	1.5	2.4
HKLR	HY/2011/03	2016-12-23	Mid-Ebb	Cloudy	CS(Mf)5	08:11:49	11.0	Bottom	3	2	21.40	8.24	29.62	99.1	7.43	1.5	2.5
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS5	13:52:13	1.0	Surface	1	1	21.30	8.28	27.45	102.1	7.71	3.9	5.0
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS5	13:51:46	1.0	Surface	1	2	21.29	8.28	27.43	102.1	7.71	4.0	5.3
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS5	13:52:04	4.0	Middle	2	1	21.27	8.28	27.45	101.8	7.69	3.9	6.7
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS5	13:51:35	4.0	Middle	2	2	21.24	8.28	27.44	102.1	7.71	4.1	6.3
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS5	13:51:56	7.0	Bottom	3	1	21.26	8.28	27.44	101.8	7.69	4.1	5.1
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS5	13:51:27	7.0	Bottom	3	2	21.27	8.28	27.41	101.8	7.70	4.0	4.9
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS(Mf)6	14:00:13	1.0	Surface	1	1	21.23	8.31	27.42	110.1	8.33	4.3	5.1
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS(Mf)6	14:00:28	1.0	Surface	1	2	21.24	8.31	27.42	110.7	8.37	4.1	4.3
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS(Mf)6	14:00:05	2.1	Bottom	3	1	21.26	8.32	27.39	109.7	8.29	4.1	4.1
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS(Mf)6	14:00:23	2.1	Bottom	3	2	21.23	8.31	27.43	110.5	8.36	4.3	5.1
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS7	14:07:30	1.0	Surface	1	1	21.28	8.31	27.43	112.0	8.46	4.1	5.7
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS7	14:07:40	1.0	Surface	1	2	21.27	8.31	27.44	112.3	8.48	4.1	6.4
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS7	14:07:34	2.1	Bottom	3	1	21.27	8.31	27.44	112.1	8.47	4.1	4.8
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS7	14:07:25	2.1	Bottom	3	2	21.30	8.31	27.41	112.1	8.46	4.0	4.7
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS8	14:39:14	1.0	Surface	1	1	21.28	8.27	27.43	104.0	7.86	16.6	6.2
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS8	14:39:03	1.0	Surface	1	2	21.27	8.27	27.44	104.0	7.85	16.6	6.1
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS8	14:38:57	3.2	Bottom	3	1	21.27	8.27	27.43	104.0	7.85	16.7	7.9
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS8	14:39:08	3.2	Bottom	3	2	21.28	8.27	27.43	104.0	7.85	16.5	7.2
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS(Mf)9	14:20:07	1.0	Surface	1	1	21.37	8.31	27.48	110.6	8.34	4.4	5.4
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS(Mf)9	14:19:56	1.0	Surface	1	2	21.40	8.32	27.46	110.0	8.29	4.3	4.1
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS(Mf)9	14:19:48	2.8	Bottom	3	1	21.42	8.32	27.45	109.4	8.24	4.5	4.2
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS(Mf)9	14:20:01	2.8	Bottom	3	2	21.40	8.32	27.47	110.4	8.32	4.5	3.6
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS10	14:58:44	1.0	Surface	1	1	21.33	8.44	30.96	108.4	8.01	2.9	2.7
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS10	14:59:23	1.0	Surface	1	2	21.34	8.42	30.95	106.3	7.86	3.1	3.3
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS10	14:59:10	5.3	Middle	2	1	21.28	8.39	31.39	105.5	7.78	3.4	3.0
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS10	14:58:28	5.3	Middle	2	2	21.28	8.42	31.38	106.6	7.87	3.3	3.9
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS10	14:58:21	9.5	Bottom	3	1	21.28	8.42	31.49	108.5	8.01	3.3	3.3
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	IS10	14:59:00	9.5	Bottom	3	2	21.29	8.42	31.59	107.8	7.94	3.5	4.1
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR3	13:42:02	0.7	Middle	2	1	21.42	8.31	27.03	104.3	7.88	5.1	4.2
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR3	13:41:58	0.7	Middle	2	2	21.42	8.32	27.01	104.2	7.87	5.2	4.2
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR4	14:32:10	1.0	Surface	1	1	21.29	8.27	27.42	104.1	7.86	14.1	5.4
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR4	14:31:39	1.0	Surface	1	2	21.28	8.27	27.41	103.6	7.83	14.2	6.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR4	14:31:48	2.7	Bottom	3	1	21.28	8.27	27.42	103.7	7.84	14.2	7.0
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR4	14:31:33	2.7	Bottom	3	2	21.28	8.27	27.41	103.5	7.82	14.6	7.4
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR5	14:50:18	1.0	Surface	1	1	21.31	8.34	31.01	109.4	8.09	2.9	4.5
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR5	14:50:36	1.0	Surface	1	2	21.36	8.34	30.91	111.2	8.22	2.8	3.2
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR5	14:50:24	4.3	Bottom	3	1	21.31	8.34	31.12	111.2	8.22	3.0	3.2
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR5	14:50:06	4.3	Bottom	3	2	21.30	8.34	31.19	110.8	8.19	2.9	4.4
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR10A	15:47:11	1.0	Surface	1	1	21.45	8.30	27.69	106.6	7.97	2.5	1.1
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR10A	15:48:34	1.0	Surface	1	2	21.45	8.31	27.69	108.2	8.09	2.4	1.8
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR10A	15:47:55	3.2	Middle	2	1	21.33	8.29	28.02	106.8	8.03	2.8	0.7
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR10A	15:47:01	3.2	Middle	2	2	21.39	8.26	28.24	105.1	7.90	2.7	1.8
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR10A	15:46:51	5.4	Bottom	3	1	21.44	8.24	28.72	103.7	7.78	2.8	<0.5
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR10A	15:47:47	5.4	Bottom	3	2	21.42	8.25	28.61	105.5	7.94	2.8	<0.5
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR10B	15:56:58	1.0	Surface	1	1	21.44	8.29	27.79	106.2	7.98	2.1	<0.5
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR10B	15:57:25	1.0	Surface	1	2	21.44	8.30	27.81	106.3	7.99	2.2	<0.5
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR10B	15:57:16	4.2	Bottom	3	1	21.42	8.25	28.59	107.3	8.03	2.2	0.9
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	SR10B	15:56:49	4.2	Bottom	3	2	21.37	8.27	28.30	106.6	8.00	2.3	<0.5
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	CS2	13:33:22	1.0	Surface	1	1	21.28	8.42	30.41	100.9	7.49	4.0	2.5
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	CS2	13:33:50	1.0	Surface	1	2	21.27	8.39	30.42	105.0	7.79	3.9	3.8
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	CS2	13:33:39	3.8	Middle	2	1	21.18	8.38	31.46	103.4	7.65	4.6	2.1
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	CS2	13:33:12	3.8	Middle	2	2	21.21	8.41	31.55	99.2	7.33	4.6	2.5
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	CS2	13:33:03	6.6	Bottom	3	1	21.26	8.42	31.69	97.8	7.21	4.8	2.7
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	CS2	13:33:30	6.6	Bottom	3	2	21.23	8.40	31.58	105.0	7.75	4.7	3.6
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	CS(Mf)5	15:22:41	1.0	Surface	1	1	21.44	8.30	27.60	104.4	7.79	3.9	1.9
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	CS(Mf)5	15:23:22	1.0	Surface	1	2	21.40	8.27	27.70	101.6	7.59	3.8	1.8
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	CS(Mf)5	15:23:14	6.1	Middle	2	1	21.45	8.24	28.74	99.7	7.50	5.4	0.6
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	CS(Mf)5	15:22:31	6.1	Middle	2	2	21.46	8.24	28.82	102.4	7.71	5.6	0.7
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	CS(Mf)5	15:22:24	11.2	Bottom	3	1	21.46	8.24	28.84	102.3	7.64	5.8	0.6
HKLR	HY/2011/03	2016-12-23	Mid-Flood	Cloudy	CS(Mf)5	15:23:03	11.2	Bottom	3	2	21.46	8.24	28.82	99.1	7.45	5.8	1.5
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS5	12:02:18	1.0	Surface	1	1	20.95	8.37	29.07	109.8	8.27	3.0	9.2
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS5	12:02:47	1.0	Surface	1	2	20.93	8.38	29.09	109.8	8.26	3.1	8.6
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS5	12:02:09	4.6	Middle	2	1	20.89	8.38	29.13	109.3	8.24	3.1	9.3
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS5	12:02:40	4.6	Middle	2	2	20.87	8.38	29.17	109.5	8.25	3.1	8.8
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS5	12:02:00	8.1	Bottom	3	1	20.88	8.38	29.20	109.2	8.23	3.3	8.2
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS5	12:02:32	8.1	Bottom	3	2	20.88	8.38	29.20	109.4	8.24	3.2	7.5
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS(Mf)6	11:46:28	1.0	Surface	1	1	21.06	8.33	28.90	110.3	8.29	3.8	11.7
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS(Mf)6	11:46:37	1.0	Surface	1	2	21.07	8.33	28.90	110.2	8.29	3.8	10.6
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS(Mf)6	11:46:23	2.4	Bottom	3	1	21.05	8.33	28.90	110.3	8.29	3.8	12.5
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS(Mf)6	11:46:32	2.4	Bottom	3	2	21.07	8.33	28.90	110.2	8.29	3.8	11.9
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS7	11:39:39	1.0	Surface	1	1	21.04	8.33	28.91	110.1	8.28	4.0	9.3
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS7	11:39:29	1.0	Surface	1	2	21.04	8.33	28.91	110.1	8.28	3.8	9.6
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS7	11:39:22	2.3	Bottom	3	1	21.04	8.33	28.90	109.9	8.27	3.8	11.7
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS7	11:39:33	2.3	Bottom	3	2	21.06	8.33	28.89	110.0	8.27	4.0	10.4
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS8	11:20:29	1.0	Surface	1	1	21.00	8.33	28.88	108.8	8.19	3.5	6.3
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS8	11:20:19	1.0	Surface	1	2	21.00	8.33	28.88	108.5	8.17	3.5	6.8
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS8	11:20:14	2.4	Bottom	3	1	21.02	8.33	28.87	108.2	8.15	4.6	8.3
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS8	11:20:23	2.4	Bottom	3	2	21.02	8.33	28.87	108.6	8.18	4.6	8.1
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS(Mf)9	11:33:41	1.0	Surface	1	1	20.98	8.33	28.89	108.2	8.15	3.9	8.6
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS(Mf)9	11:33:53	1.0	Surface	1	2	20.99	8.33	28.90	108.7	8.18	3.9	8.7
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS(Mf)9	11:33:35	2.3	Bottom	3	1	21.00	8.33	28.88	107.8	8.12	3.9	7.6
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS(Mf)9	11:33:45	2.3	Bottom	3	2	20.99	8.33	28.88	108.4	8.16	3.9	9.3
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS10	11:19:27	1.0	Surface	1	1	20.99	8.32	32.43	107.1	7.90	3.1	7.6

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS10	11:18:53	1.0	Surface	1	2	20.99	8.31	32.43	105.8	7.81	3.2	6.6
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS10	11:18:37	5.2	Middle	2	1	20.95	8.33	32.42	106.5	7.86	3.1	7.4
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS10	11:19:14	5.2	Middle	2	2	20.94	8.34	32.42	106.4	7.85	3.1	8.3
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS10	11:18:24	9.3	Bottom	3	1	20.95	8.32	32.42	106.2	7.84	3.1	7.7
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	IS10	11:19:06	9.3	Bottom	3	2	20.95	8.33	32.41	105.6	7.79	3.2	6.8
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR3	12:10:25	0.9	Middle	2	1	21.01	8.37	29.04	110.9	8.34	3.3	4.9
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR3	12:10:28	0.9	Middle	2	2	21.00	8.37	29.04	111.0	8.35	3.3	5.1
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR4	11:27:17	1.0	Surface	1	1	21.02	8.33	28.90	110.0	8.27	4.2	5.7
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR4	11:27:05	1.0	Surface	1	2	21.03	8.33	28.90	109.9	8.27	4.2	6.0
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR4	11:27:10	2.3	Bottom	3	1	21.04	8.33	28.87	109.8	8.26	4.2	8.3
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR4	11:26:59	2.3	Bottom	3	2	21.07	8.33	28.88	109.8	8.26	4.2	7.7
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR5	11:26:23	1.0	Surface	1	1	21.00	8.33	32.43	106.6	7.86	3.1	5.1
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR5	11:26:06	1.0	Surface	1	2	20.99	8.33	32.43	106.5	7.85	3.2	5.4
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR5	11:25:53	3.8	Bottom	3	1	20.94	8.32	32.42	105.9	7.81	3.4	7.0
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR5	11:26:14	3.8	Bottom	3	2	21.00	8.33	32.41	105.8	7.80	3.2	6.3
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR10A	10:26:32	1.0	Surface	1	1	21.29	8.27	29.97	99.4	7.40	1.8	6.1
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR10A	10:25:49	1.0	Surface	1	2	21.30	8.27	30.05	99.3	7.39	1.9	6.2
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR10A	10:25:34	3.1	Middle	2	1	21.27	8.27	30.10	99.1	7.37	1.9	5.8
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR10A	10:26:27	3.1	Middle	2	2	21.28	8.27	29.98	99.2	7.38	1.8	5.6
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR10A	10:26:21	5.1	Bottom	3	1	21.28	8.27	30.00	99.2	7.38	2.0	4.8
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR10A	10:25:26	5.1	Bottom	3	2	21.27	8.27	30.13	99.0	7.37	1.9	6.0
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR10B	10:19:53	1.0	Surface	1	1	21.28	8.26	30.52	99.4	7.37	1.8	6.0
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR10B	10:19:27	1.0	Surface	1	2	21.28	8.26	30.69	99.6	7.38	1.7	7.3
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR10B	10:19:14	4.1	Bottom	3	1	21.27	8.26	30.82	99.6	7.38	1.9	5.9
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	SR10B	10:19:38	4.1	Bottom	3	2	21.27	8.26	30.62	99.4	7.37	1.8	6.8
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	CS2	12:41:38	1.0	Surface	1	1	21.01	8.40	32.08	113.1	8.35	2.7	6.3
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	CS2	12:41:00	1.0	Surface	1	2	21.00	8.40	32.10	113.0	8.35	2.7	6.7
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	CS2	12:41:15	3.8	Middle	2	1	20.92	8.40	32.18	112.3	8.30	2.8	7.4
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	CS2	12:40:48	3.8	Middle	2	2	20.93	8.39	32.21	111.2	8.22	2.5	5.8
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	CS2	12:40:43	6.6	Bottom	3	1	20.94	8.36	32.34	113.1	8.35	2.6	9.3
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	CS2	12:41:09	6.6	Bottom	3	2	20.93	8.40	32.18	112.9	8.35	2.7	7.5
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	CS(Mf)5	10:47:29	1.0	Surface	1	1	21.31	8.28	29.78	99.5	7.41	2.0	6.8
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	CS(Mf)5	10:46:35	1.0	Surface	1	2	21.29	8.28	29.83	99.2	7.39	1.9	6.3
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	CS(Mf)5	10:46:27	6.7	Middle	2	1	21.27	8.27	29.84	99.0	7.38	1.9	5.0
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	CS(Mf)5	10:47:04	6.7	Middle	2	2	21.27	8.27	29.81	98.6	7.35	2.0	5.4
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	CS(Mf)5	10:46:55	12.3	Bottom	3	1	21.27	8.26	29.82	98.3	7.32	2.1	5.0
HKLR	HY/2011/03	2016-12-26	Mid-Ebb	Cloudy	CS(Mf)5	10:46:18	12.3	Bottom	3	2	21.28	8.27	29.85	99.0	7.38	2.0	5.7
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS5	15:20:08	1.0	Surface	1	1	20.97	8.38	29.09	110.4	8.31	3.0	5.4
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS5	15:20:40	1.0	Surface	1	2	20.93	8.37	29.12	110.1	8.29	3.1	4.8
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS5	15:19:59	4.6	Middle	2	1	20.88	8.37	29.16	110.2	8.30	3.2	6.1
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS5	15:20:34	4.6	Middle	2	2	20.87	8.37	29.17	110.0	8.28	3.1	5.0
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS5	15:19:49	8.1	Bottom	3	1	20.89	8.38	29.19	110.1	8.29	3.2	6.8
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS5	15:20:24	8.1	Bottom	3	2	20.88	8.38	29.23	109.9	8.28	3.3	6.6
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS(Mf)6	15:26:43	1.0	Surface	1	1	20.92	8.36	28.97	107.8	8.12	3.3	7.7
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS(Mf)6	15:26:53	1.0	Surface	1	2	20.92	8.36	28.96	108.3	8.16	3.4	6.0
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS(Mf)6	15:26:37	2.4	Bottom	3	1	20.92	8.36	28.97	107.3	8.09	3.5	5.6
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS(Mf)6	15:26:47	2.4	Bottom	3	2	20.92	8.36	28.96	108.0	8.14	3.4	7.3
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS7	15:33:45	1.0	Surface	1	1	20.92	8.37	29.01	109.5	8.25	3.5	5.3
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS7	15:33:37	1.0	Surface	1	2	20.92	8.36	28.99	109.4	8.25	3.7	6.5
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS7	15:33:31	2.4	Bottom	3	1	20.93	8.36	29.00	109.3	8.24	3.8	5.4
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS7	15:33:41	2.4	Bottom	3	2	20.93	8.36	28.99	109.4	8.24	3.8	5.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS8	15:54:58	1.0	Surface	1	1	20.96	8.35	28.86	110.2	8.30	3.2	8.3
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS8	15:55:08	1.0	Surface	1	2	20.98	8.35	28.88	110.4	8.31	3.2	7.3
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS8	15:54:54	2.4	Bottom	3	1	21.00	8.35	28.85	110.1	8.29	3.2	9.8
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS8	15:55:01	2.4	Bottom	3	2	20.99	8.35	28.85	110.2	8.30	3.2	9.0
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS(Mf)9	15:38:25	1.0	Surface	1	1	20.93	8.36	28.99	109.8	8.27	3.8	7.5
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS(Mf)9	15:39:02	1.0	Surface	1	2	20.96	8.36	28.91	109.8	8.27	3.8	6.1
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS(Mf)9	15:38:21	2.3	Bottom	3	1	20.94	8.36	28.98	109.7	8.27	4.0	13.0
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS(Mf)9	15:38:29	2.3	Bottom	3	2	20.94	8.36	28.98	109.6	8.26	4.0	11.2
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS10	16:27:32	1.0	Surface	1	1	20.97	8.41	32.03	112.0	8.28	2.7	7.5
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS10	16:26:48	1.0	Surface	1	2	20.98	8.41	32.01	111.9	8.27	2.7	6.0
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS10	16:26:33	5.3	Middle	2	1	20.94	8.40	32.24	111.7	8.25	2.8	6.1
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS10	16:27:15	5.3	Middle	2	2	20.95	8.40	32.27	111.5	8.23	2.9	7.2
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS10	16:26:19	9.6	Bottom	3	1	20.96	8.40	32.27	111.1	8.20	2.9	7.3
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	IS10	16:27:09	9.6	Bottom	3	2	20.96	8.40	32.30	112.2	8.29	3.0	8.2
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR3	15:11:19	0.8	Middle	2	1	21.00	8.37	29.05	111.3	8.37	3.3	5.1
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR3	15:11:16	0.8	Middle	2	2	21.00	8.37	29.05	111.2	8.37	3.1	6.7
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR4	15:51:04	1.0	Surface	1	1	20.97	8.35	28.86	109.3	8.23	4.0	6.9
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR4	15:51:12	1.0	Surface	1	2	20.97	8.35	28.86	109.6	8.26	4.0	7.8
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR4	15:51:00	2.4	Bottom	3	1	21.00	8.35	28.85	109.1	8.22	4.0	7.0
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR4	15:51:08	2.4	Bottom	3	2	21.00	8.35	28.85	109.4	8.24	4.2	6.5
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR5	16:19:05	1.0	Surface	1	1	21.05	8.41	32.01	113.5	8.39	2.7	6.1
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR5	16:18:35	1.0	Surface	1	2	21.03	8.41	32.06	113.1	8.35	2.6	5.4
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR5	16:18:25	3.9	Bottom	3	1	21.00	8.41	32.14	112.6	8.32	2.7	5.4
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR5	16:18:46	3.9	Bottom	3	2	20.96	8.41	32.17	113.0	8.35	2.7	4.6
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR10A	16:53:49	1.0	Surface	1	1	21.43	8.31	29.47	104.0	7.74	2.0	4.0
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR10A	16:54:29	1.0	Surface	1	2	21.54	8.31	29.41	105.1	7.81	2.0	4.8
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR10A	16:54:18	3.1	Middle	2	1	21.32	8.31	29.46	103.9	7.75	2.2	4.4
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR10A	16:53:43	3.1	Middle	2	2	21.32	8.31	29.49	103.1	7.69	2.0	3.9
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR10A	16:53:36	5.2	Bottom	3	1	21.45	8.31	29.43	102.9	7.66	2.0	5.8
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR10A	16:54:02	5.2	Bottom	3	2	21.28	8.30	29.54	103.6	7.73	2.3	5.1
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR10B	17:02:03	1.0	Surface	1	1	21.55	8.31	29.39	106.1	7.88	2.1	4.5
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR10B	17:01:37	1.0	Surface	1	2	21.53	8.31	29.40	106.0	7.88	2.0	3.4
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR10B	17:01:27	4.2	Bottom	3	1	21.50	8.31	29.38	105.6	7.85	2.0	7.1
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	SR10B	17:01:48	4.2	Bottom	3	2	21.34	8.31	29.44	105.4	7.86	2.1	7.9
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	CS2	15:03:57	1.0	Surface	1	1	20.99	8.37	32.10	109.0	8.05	2.7	4.9
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	CS2	15:04:39	1.0	Surface	1	2	20.99	8.37	32.11	108.7	8.03	2.7	5.8
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	CS2	15:03:46	3.9	Middle	2	1	20.88	8.35	32.29	104.7	7.75	2.9	7.4
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	CS2	15:04:28	3.9	Middle	2	2	20.88	8.37	32.25	107.9	7.99	2.9	6.0
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	CS2	15:03:37	6.8	Bottom	3	1	20.88	8.35	32.35	104.6	7.73	2.9	6.9
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	CS2	15:04:12	6.8	Bottom	3	2	20.88	8.36	32.33	107.3	7.93	2.8	8.2
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	CS(Mf)5	16:28:36	1.0	Surface	1	1	21.51	8.31	29.46	102.0	7.58	2.1	3.8
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	CS(Mf)5	16:29:33	1.0	Surface	1	2	21.49	8.30	29.47	101.2	7.52	2.2	4.9
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	CS(Mf)5	16:29:18	6.6	Middle	2	1	21.22	8.29	29.69	100.1	7.46	2.2	3.8
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	CS(Mf)5	16:28:20	6.6	Middle	2	2	21.22	8.29	29.72	101.1	7.54	2.1	5.0
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	CS(Mf)5	16:28:04	12.2	Bottom	3	1	21.27	8.29	29.73	100.1	7.47	2.3	8.5
HKLR	HY/2011/03	2016-12-26	Mid-Flood	Cloudy	CS(Mf)5	16:29:02	12.2	Bottom	3	2	21.25	8.29	29.73	99.5	7.43	2.3	9.5
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS5	11:27:09	1.0	Surface	1	1	19.71	8.46	29.04	110.6	8.52	4.2	8.8
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS5	11:26:45	1.0	Surface	1	2	19.72	8.46	29.03	110.7	8.53	4.1	8.2
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS5	11:26:36	4.2	Middle	2	1	19.71	8.45	29.04	110.4	8.50	4.2	8.5
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS5	11:27:01	4.2	Middle	2	2	19.70	8.45	29.05	110.4	8.51	4.4	9.1
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS5	11:26:52	7.4	Bottom	3	1	19.72	8.46	29.04	110.5	8.51	4.3	8.2

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS5	11:26:26	7.4	Bottom	3	2	19.69	8.45	29.05	110.4	8.50	4.3	8.9
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS(Mf)6	11:35:47	1.0	Surface	1	1	19.71	8.49	28.86	117.2	9.04	3.9	6.3
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS(Mf)6	11:36:15	1.0	Surface	1	2	19.70	8.49	28.93	117.8	9.08	3.9	6.5
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS(Mf)6	11:35:39	2.2	Bottom	3	1	19.71	8.49	28.84	116.9	9.01	4.1	7.8
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS(Mf)6	11:36:05	2.2	Bottom	3	2	19.69	8.49	28.91	117.5	9.06	4.2	8.7
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS7	11:42:20	1.0	Surface	1	1	19.71	8.49	28.99	118.0	9.10	3.9	5.6
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS7	11:42:09	1.0	Surface	1	2	19.69	8.49	28.99	117.7	9.07	4.1	7.2
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS7	11:42:03	2.2	Bottom	3	1	19.68	8.49	28.99	117.6	9.07	4.1	8.4
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS7	11:42:14	2.2	Bottom	3	2	19.70	8.49	28.99	117.8	9.08	4.0	8.6
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS8	12:06:05	1.0	Surface	1	1	20.31	8.37	29.22	105.2	8.01	4.4	8.4
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS8	12:06:23	1.0	Surface	1	2	20.32	8.37	29.23	105.2	8.00	4.3	9.2
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS8	12:05:59	3.0	Bottom	3	1	20.32	8.37	29.23	105.2	8.00	4.6	8.5
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS8	12:06:14	3.0	Bottom	3	2	20.31	8.37	29.25	105.2	8.00	4.5	9.3
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS(Mf)9	11:49:49	1.0	Surface	1	1	20.33	8.36	29.05	106.2	8.09	3.5	7.8
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS(Mf)9	11:50:04	1.0	Surface	1	2	20.33	8.37	29.09	105.9	8.06	3.5	8.6
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS(Mf)9	11:49:57	2.7	Bottom	3	1	20.33	8.36	29.07	106.0	8.07	3.5	9.2
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS(Mf)9	11:49:41	2.7	Bottom	3	2	20.33	8.36	29.03	106.5	8.11	3.5	8.1
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS10	12:37:13	1.0	Surface	1	1	20.31	8.52	32.77	101.9	7.59	4.2	7.4
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS10	12:37:59	1.0	Surface	1	2	20.29	8.52	32.71	102.5	7.64	4.2	8.3
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS10	12:37:02	5.4	Middle	2	1	20.27	8.52	32.75	101.4	7.55	4.3	8.7
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS10	12:37:46	5.4	Middle	2	2	20.34	8.52	32.74	101.6	7.57	4.4	10.2
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS10	12:36:53	9.8	Bottom	3	1	20.29	8.52	32.73	100.8	7.52	4.5	10.3
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	IS10	12:37:35	9.8	Bottom	3	2	20.36	8.51	32.79	101.0	7.53	4.7	9.7
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR3	11:16:03	0.9	Middle	2	1	19.80	8.46	28.89	113.5	8.74	4.4	9.9
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR3	11:15:58	0.9	Middle	2	2	19.80	8.46	28.87	113.4	8.73	4.5	11.0
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR4	11:59:05	1.0	Surface	1	1	20.32	8.37	29.17	105.5	8.03	4.7	10.0
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR4	11:58:49	1.0	Surface	1	2	20.31	8.37	29.15	106.1	8.07	4.7	11.6
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR4	11:58:43	2.8	Bottom	3	1	20.32	8.37	29.15	106.3	8.09	4.9	12.5
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR4	11:58:58	2.8	Bottom	3	2	20.31	8.36	29.19	105.6	8.04	4.8	11.7
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR5	12:17:42	1.0	Surface	1	1	20.31	8.49	32.78	103.6	7.75	4.5	9.3
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR5	12:18:07	1.0	Surface	1	2	20.30	8.50	32.78	103.5	7.72	4.6	8.1
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR5	12:17:56	4.1	Bottom	3	1	20.31	8.50	32.82	103.0	7.67	4.7	8.7
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR5	12:17:32	4.1	Bottom	3	2	20.34	8.48	32.85	102.0	7.60	4.8	8.9
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR10A	13:11:34	1.0	Surface	1	1	20.47	8.35	29.39	100.2	7.59	3.4	6.2
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR10A	13:11:59	1.0	Surface	1	2	20.46	8.35	29.34	100.4	7.61	3.4	6.8
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR10A	13:11:26	3.3	Middle	2	1	20.46	8.35	29.34	99.9	7.57	3.4	8.6
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR10A	13:11:52	3.3	Middle	2	2	20.46	8.35	29.39	100.4	7.61	3.4	9.6
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR10A	13:11:42	5.5	Bottom	3	1	20.49	8.35	29.44	100.4	7.61	3.5	10.7
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR10A	13:11:19	5.5	Bottom	3	2	20.50	8.35	29.45	99.8	7.56	3.5	10.1
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR10B	13:22:30	1.0	Surface	1	1	20.45	8.35	29.31	101.7	7.71	3.7	6.6
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR10B	13:22:14	1.0	Surface	1	2	20.41	8.36	29.32	102.0	7.75	3.7	6.0
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR10B	13:22:24	4.0	Bottom	3	1	20.48	8.35	29.44	102.2	7.74	3.8	8.1
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	SR10B	13:22:06	4.0	Bottom	3	2	20.40	8.36	29.36	102.0	7.74	3.8	6.3
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	CS2	11:00:49	1.0	Surface	1	1	20.33	8.55	32.83	103.3	7.69	5.4	11.4
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	CS2	11:01:26	1.0	Surface	1	2	20.31	8.55	32.82	103.5	7.71	5.5	11.9
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	CS2	11:00:36	4.0	Middle	2	1	20.33	8.54	32.83	101.1	7.53	5.7	13.0
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	CS2	11:01:13	4.0	Middle	2	2	20.33	8.55	32.83	101.2	7.54	5.6	12.9
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	CS2	11:01:04	6.9	Bottom	3	1	20.32	8.55	32.83	100.9	7.51	5.9	13.7
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	CS2	11:00:26	6.9	Bottom	3	2	20.33	8.53	32.83	99.9	7.44	5.8	14.5
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	CS(Mf)5	12:47:32	1.0	Surface	1	1	20.59	8.34	29.45	99.0	7.48	3.9	8.3
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	CS(Mf)5	12:48:03	1.0	Surface	1	2	20.56	8.34	29.45	99.1	7.49	3.9	9.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	CS(Mf)5	12:47:23	6.1	Middle	2	1	20.65	8.35	29.53	98.9	7.47	3.9	10.5
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	CS(Mf)5	12:47:53	6.1	Middle	2	2	20.64	8.35	29.52	98.9	7.47	3.8	12.1
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	CS(Mf)5	12:47:44	11.1	Bottom	3	1	20.61	8.35	29.55	98.9	7.47	4.1	12.7
HKLR	HY/2011/03	2016-12-28	Mid-Ebb	Cloudy	CS(Mf)5	12:47:15	11.1	Bottom	3	2	20.64	8.35	29.55	98.9	7.47	4.1	11.0
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS5	08:19:40	1.0	Surface	1	1	19.77	8.44	29.00	109.7	8.44	5.2	9.2
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS5	08:19:13	1.0	Surface	1	2	19.76	8.44	29.00	109.7	8.45	5.2	9.3
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS5	08:19:05	4.3	Middle	2	1	19.74	8.44	29.01	109.7	8.44	5.2	12.4
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS5	08:19:32	4.3	Middle	2	2	19.75	8.44	29.01	109.5	8.43	5.2	11.8
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS5	08:19:22	7.5	Bottom	3	1	19.75	8.44	29.01	109.4	8.42	5.1	13.7
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS5	08:18:56	7.5	Bottom	3	2	19.74	8.44	29.01	109.5	8.43	5.3	12.5
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS(Mf)6	08:10:55	1.0	Surface	1	1	19.80	8.44	28.95	110.5	8.50	5.3	10.0
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS(Mf)6	08:11:10	1.0	Surface	1	2	19.81	8.44	28.95	110.5	8.50	5.3	11.3
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS(Mf)6	08:11:02	2.3	Bottom	3	1	19.80	8.44	28.95	110.4	8.50	5.2	14.1
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS(Mf)6	08:10:50	2.3	Bottom	3	2	19.80	8.44	28.94	110.5	8.50	5.3	12.8
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS7	08:03:57	1.0	Surface	1	1	19.79	8.43	28.88	110.9	8.54	5.3	10.0
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS7	08:03:44	1.0	Surface	1	2	19.79	8.43	28.85	111.2	8.57	5.2	11.4
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS7	08:03:35	2.3	Bottom	3	1	19.79	8.43	28.83	111.5	8.58	5.4	11.7
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS7	08:03:50	2.3	Bottom	3	2	19.79	8.43	28.87	111.1	8.55	5.3	12.2
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS8	07:39:44	1.0	Surface	1	1	20.30	8.36	29.20	102.9	7.83	4.8	10.3
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS8	07:39:26	1.0	Surface	1	2	20.30	8.36	29.20	103.3	7.86	4.8	9.7
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS8	07:39:20	3.0	Bottom	3	1	20.29	8.36	29.20	103.4	7.87	4.7	10.0
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS8	07:39:36	3.0	Bottom	3	2	20.30	8.36	29.21	103.1	7.84	4.7	11.5
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS(Mf)9	07:56:02	1.0	Surface	1	1	20.29	8.36	29.25	102.5	7.80	4.7	6.9
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS(Mf)9	07:56:17	1.0	Surface	1	2	20.28	8.37	29.24	102.6	7.81	4.7	7.7
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS(Mf)9	07:55:57	2.7	Bottom	3	1	20.29	8.36	29.25	102.5	7.80	4.6	10.8
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS(Mf)9	07:56:11	2.7	Bottom	3	2	20.29	8.36	29.25	102.6	7.81	4.8	11.0
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS10	07:34:39	1.0	Surface	1	1	20.23	8.54	32.71	102.2	7.63	5.3	9.6
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS10	07:35:07	1.0	Surface	1	2	20.23	8.54	32.71	101.8	7.60	5.1	9.6
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS10	07:34:59	5.5	Middle	2	1	20.24	8.54	32.71	101.5	7.58	5.2	10.8
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS10	07:34:31	5.5	Middle	2	2	20.24	8.53	32.72	101.5	7.58	5.4	9.7
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS10	07:34:50	9.9	Bottom	3	1	20.23	8.54	32.71	101.3	7.56	5.4	9.9
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	IS10	07:34:22	9.9	Bottom	3	2	20.23	8.52	32.72	101.3	7.56	5.5	10.0
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR3	08:28:24	0.7	Middle	2	1	19.77	8.45	29.00	110.5	8.50	5.1	8.2
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR3	08:28:18	0.7	Middle	2	2	19.77	8.45	29.00	110.5	8.51	5.3	7.6
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR4	07:46:56	1.0	Surface	1	1	20.30	8.36	29.24	102.6	7.81	5.4	9.2
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR4	07:46:43	1.0	Surface	1	2	20.30	8.36	29.23	102.8	7.82	5.3	8.6
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR4	07:46:51	2.8	Bottom	3	1	20.30	8.36	29.24	102.7	7.81	5.4	10.8
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR4	07:46:37	2.8	Bottom	3	2	20.30	8.36	29.24	102.7	7.82	5.4	10.7
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR5	07:43:35	1.0	Surface	1	1	20.22	8.54	32.71	101.7	7.60	5.3	11.1
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR5	07:43:52	1.0	Surface	1	2	20.22	8.54	32.71	101.6	7.58	5.2	10.1
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR5	07:43:24	4.2	Bottom	3	1	20.22	8.54	32.71	101.6	7.59	5.7	12.7
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR5	07:43:42	4.2	Bottom	3	2	20.22	8.54	32.72	101.5	7.58	5.5	11.5
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR10A	06:42:12	1.0	Surface	1	1	20.70	8.37	30.13	100.5	7.55	4.5	8.2
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR10A	06:42:39	1.0	Surface	1	2	20.71	8.37	30.08	100.3	7.54	4.4	9.5
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR10A	06:42:05	3.2	Middle	2	1	20.70	8.37	30.15	100.3	7.54	4.5	10.4
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR10A	06:42:33	3.2	Middle	2	2	20.72	8.37	30.10	100.3	7.54	4.5	10.1
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR10A	06:41:57	5.3	Bottom	3	1	20.71	8.37	30.17	100.2	7.53	4.5	12.4
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR10A	06:42:23	5.3	Bottom	3	2	20.71	8.37	30.12	100.3	7.53	4.4	10.8
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR10B	06:32:21	1.0	Surface	1	1	20.70	8.35	30.64	101.0	7.57	3.5	7.8
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR10B	06:32:03	1.0	Surface	1	2	20.70	8.34	30.85	101.3	7.58	3.5	8.2
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR10B	06:32:10	4.0	Bottom	3	1	20.70	8.34	30.79	101.1	7.57	3.5	13.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	SR10B	06:31:57	4.0	Bottom	3	2	20.70	8.34	30.93	101.3	7.58	3.6	12.6
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	CS2	08:56:59	1.0	Surface	1	1	20.34	8.53	32.86	100.1	7.45	9.3	15.9
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	CS2	08:56:30	1.0	Surface	1	2	20.34	8.53	32.86	99.2	7.38	9.2	14.4
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	CS2	08:56:17	4.0	Middle	2	1	20.34	8.52	32.86	99.1	7.37	9.4	15.6
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	CS2	08:56:50	4.0	Middle	2	2	20.34	8.53	32.86	98.3	7.31	9.5	17.0
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	CS2	08:56:41	7.0	Bottom	3	1	20.34	8.53	32.86	99.0	7.37	9.8	20.0
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	CS2	08:56:06	7.0	Bottom	3	2	20.35	8.49	32.86	99.0	7.35	9.7	20.4
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	CS(Mf)5	07:08:13	1.0	Surface	1	1	20.70	8.37	29.94	100.4	7.56	3.5	8.0
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	CS(Mf)5	07:09:04	1.0	Surface	1	2	20.69	8.37	29.91	100.5	7.56	3.4	9.0
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	CS(Mf)5	07:08:02	6.4	Middle	2	1	20.71	8.37	29.96	100.1	7.53	3.5	10.3
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	CS(Mf)5	07:08:46	6.4	Middle	2	2	20.71	8.37	29.93	100.0	7.52	3.5	11.5
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	CS(Mf)5	07:07:50	11.7	Bottom	3	1	20.71	8.37	29.98	100.0	7.52	3.6	11.8
HKLR	HY/2011/03	2016-12-28	Mid-Flood	Cloudy	CS(Mf)5	07:08:37	11.7	Bottom	3	2	20.71	8.37	29.95	100.0	7.53	3.6	10.5
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS5	12:32:27	1.0	Surface	1	1	18.98	8.37	29.26	108.5	8.46	4.9	9.1
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS5	12:32:02	1.0	Surface	1	2	18.98	8.37	29.26	108.0	8.43	5.1	9.5
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS5	12:32:17	4.2	Middle	2	1	18.97	8.37	29.27	108.1	8.43	5.1	10.3
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS5	12:31:54	4.2	Middle	2	2	18.96	8.37	29.27	108.0	8.43	4.9	10.1
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS5	12:32:10	7.3	Bottom	3	1	18.97	8.37	29.26	108.1	8.43	5.2	10.4
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS5	12:31:44	7.3	Bottom	3	2	18.96	8.37	29.27	107.7	8.40	5.1	10.8
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS(Mf)6	12:42:32	1.0	Surface	1	1	19.08	8.40	29.23	115.4	8.99	5.0	9.3
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS(Mf)6	12:42:17	1.0	Surface	1	2	19.09	8.40	29.22	114.9	8.95	4.9	8.8
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS(Mf)6	12:42:25	2.1	Bottom	3	1	19.08	8.40	29.23	115.3	8.98	4.8	10.2
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS(Mf)6	12:42:10	2.1	Bottom	3	2	19.09	8.40	29.21	114.4	8.91	5.1	9.4
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS7	12:49:31	1.0	Surface	1	1	19.10	8.40	29.25	116.2	9.04	4.9	9.2
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS7	12:49:44	1.0	Surface	1	2	19.10	8.40	29.26	116.4	9.06	5.0	10.7
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS7	12:49:37	2.2	Bottom	3	1	19.10	8.40	29.25	116.3	9.05	4.8	12.8
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS7	12:49:24	2.2	Bottom	3	2	19.09	8.40	29.25	116.1	9.03	4.8	12.3
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS8	13:13:36	1.0	Surface	1	1	19.68	8.31	29.61	106.1	8.15	7.1	19.2
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS8	13:13:25	1.0	Surface	1	2	19.68	8.31	29.60	106.3	8.17	7.3	18.7
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS8	13:13:19	3.0	Bottom	3	1	19.69	8.31	29.60	106.3	8.17	7.3	20.1
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS8	13:13:30	3.0	Bottom	3	2	19.69	8.31	29.60	106.2	8.16	7.1	20.7
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS(Mf)9	12:58:50	1.0	Surface	1	1	19.58	8.33	29.48	107.7	8.29	4.3	9.3
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS(Mf)9	12:59:05	1.0	Surface	1	2	19.57	8.33	29.51	107.9	8.31	4.5	7.7
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS(Mf)9	12:58:58	2.7	Bottom	3	1	19.53	8.33	29.50	107.7	8.30	4.5	8.5
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS(Mf)9	12:58:42	2.7	Bottom	3	2	19.53	8.33	29.48	107.5	8.29	4.4	8.5
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS10	13:42:13	1.0	Surface	1	1	19.62	8.61	32.99	103.1	7.77	5.2	10.3
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS10	13:41:44	1.0	Surface	1	2	19.62	8.61	32.97	102.8	7.75	5.2	11.2
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS10	13:42:03	5.3	Middle	2	1	19.62	8.61	32.99	102.6	7.74	5.4	12.3
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS10	13:41:35	5.3	Middle	2	2	19.62	8.61	32.96	102.6	7.73	5.3	13.8
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS10	13:41:25	9.6	Bottom	3	1	19.61	8.59	32.97	101.7	7.67	5.4	14.0
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	IS10	13:41:55	9.6	Bottom	3	2	19.62	8.61	32.98	102.1	7.70	5.6	15.6
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR3	12:21:44	0.7	Middle	2	1	18.98	8.39	29.11	110.5	8.62	4.2	10.0
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR3	12:21:40	0.7	Middle	2	2	18.97	8.39	29.10	110.3	8.61	4.3	11.6
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR4	13:08:16	1.0	Surface	1	1	19.68	8.31	29.56	106.5	8.18	7.3	16.8
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR4	13:08:28	1.0	Surface	1	2	19.69	8.31	29.56	106.4	8.18	7.2	15.7
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR4	13:08:21	2.7	Bottom	3	1	19.69	8.31	29.56	106.4	8.18	7.2	15.0
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR4	13:08:10	2.7	Bottom	3	2	19.69	8.31	29.55	106.5	8.18	7.5	15.5
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR5	13:22:53	1.0	Surface	1	1	19.59	8.61	33.02	104.1	7.85	5.4	10.6
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR5	13:23:15	1.0	Surface	1	2	19.60	8.62	33.03	104.3	7.86	5.3	10.3
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR5	13:22:41	4.0	Bottom	3	1	19.59	8.61	33.03	103.7	7.81	5.8	10.5
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR5	13:23:04	4.0	Bottom	3	2	19.60	8.61	33.03	103.8	7.83	5.7	10.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR10A	14:28:05	1.0	Surface	1	1	20.04	8.29	29.64	103.1	7.87	2.5	8.3
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR10A	14:28:47	1.0	Surface	1	2	20.13	8.29	29.63	103.4	7.87	2.4	7.2
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR10A	14:28:37	3.2	Middle	2	1	19.91	8.29	29.65	102.9	7.87	2.5	8.1
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR10A	14:27:55	3.2	Middle	2	2	19.91	8.29	29.64	102.6	7.85	2.5	8.6
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR10A	14:27:47	5.4	Bottom	3	1	19.95	8.29	29.61	102.7	7.85	2.6	8.7
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR10A	14:28:29	5.4	Bottom	3	2	19.93	8.29	29.62	102.9	7.87	2.5	8.0
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR10B	14:38:21	1.0	Surface	1	1	20.12	8.29	29.65	103.6	7.89	2.7	7.7
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR10B	14:38:02	1.0	Surface	1	2	20.03	8.29	29.66	103.4	7.89	2.6	7.4
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR10B	14:37:53	4.0	Bottom	3	1	20.03	8.29	29.60	103.2	7.87	2.7	7.3
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	SR10B	14:38:10	4.0	Bottom	3	2	20.00	8.29	29.61	103.1	7.87	2.8	7.2
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	CS2	12:10:52	1.0	Surface	1	1	19.40	8.60	33.07	105.1	7.95	4.2	9.8
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	CS2	12:11:27	1.0	Surface	1	2	19.40	8.59	33.07	105.7	8.00	4.3	10.3
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	CS2	12:11:09	4.2	Middle	2	1	19.42	8.58	33.06	105.0	7.94	4.3	13.0
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	CS2	12:10:29	4.2	Middle	2	2	19.40	8.59	33.07	104.5	7.90	4.4	14.4
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	CS2	12:10:13	7.3	Bottom	3	1	19.38	8.52	33.03	104.2	7.88	4.5	12.5
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	CS2	12:10:58	7.3	Bottom	3	2	19.40	8.60	33.07	103.7	7.85	4.5	13.0
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	CS(Mf)5	13:47:33	1.0	Surface	1	1	19.95	8.29	29.66	102.4	7.83	3.2	5.9
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	CS(Mf)5	13:46:53	1.0	Surface	1	2	19.91	8.29	29.66	102.5	7.84	3.4	7.3
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	CS(Mf)5	13:46:46	6.1	Middle	2	1	19.76	8.29	29.66	102.0	7.82	3.4	6.2
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	CS(Mf)5	13:47:24	6.1	Middle	2	2	19.73	8.30	29.67	101.7	7.80	3.4	4.8
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	CS(Mf)5	13:46:38	11.1	Bottom	3	1	19.77	8.30	29.62	101.9	7.81	3.4	5.5
HKLR	HY/2011/03	2016-12-30	Mid-Ebb	Fine	CS(Mf)5	13:47:17	11.1	Bottom	3	2	19.71	8.30	29.66	101.6	7.80	3.6	6.2
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS5	09:39:28	1.0	Surface	1	1	18.93	8.34	29.20	108.4	8.47	7.2	12.2
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS5	09:39:54	1.0	Surface	1	2	18.93	8.34	29.21	108.5	8.47	7.2	12.0
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS5	09:39:46	4.4	Middle	2	1	18.93	8.34	29.23	108.3	8.46	7.1	11.8
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS5	09:39:17	4.4	Middle	2	2	18.93	8.34	29.23	108.3	8.45	7.3	12.5
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS5	09:39:06	7.7	Bottom	3	1	18.93	8.33	29.23	108.1	8.44	7.2	11.5
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS5	09:39:38	7.7	Bottom	3	2	18.93	8.34	29.23	108.3	8.45	7.0	11.8
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS(Mf)6	09:32:40	1.0	Surface	1	1	19.01	8.35	29.11	111.8	8.72	5.0	7.8
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS(Mf)6	09:32:56	1.0	Surface	1	2	19.01	8.35	29.14	112.1	8.75	5.1	7.6
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS(Mf)6	09:32:47	2.3	Bottom	3	1	19.01	8.35	29.13	111.9	8.73	5.0	7.5
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS(Mf)6	09:32:34	2.3	Bottom	3	2	19.01	8.35	29.09	111.7	8.71	4.9	8.1
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS7	09:23:32	1.0	Surface	1	1	19.20	8.30	29.48	105.9	8.21	7.5	10.4
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS7	09:23:16	1.0	Surface	1	2	19.20	8.30	29.48	105.8	8.21	7.2	9.9
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS7	09:23:24	2.2	Bottom	3	1	19.20	8.30	29.48	105.8	8.21	7.4	10.2
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS7	09:23:09	2.2	Bottom	3	2	19.20	8.30	29.48	105.8	8.21	7.3	11.3
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS8	09:00:52	1.0	Surface	1	1	19.47	8.28	29.52	103.5	7.99	6.4	13.0
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS8	09:00:38	1.0	Surface	1	2	19.48	8.28	29.51	103.8	8.01	6.3	11.4
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS8	09:00:46	3.1	Bottom	3	1	19.46	8.28	29.52	103.7	8.00	6.4	12.7
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS8	09:00:32	3.1	Bottom	3	2	19.49	8.28	29.50	104.1	8.03	6.2	12.1
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS(Mf)9	09:17:06	1.0	Surface	1	1	19.21	8.29	29.45	105.8	8.21	6.9	11.5
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS(Mf)9	09:16:50	1.0	Surface	1	2	19.21	8.30	29.44	106.0	8.23	7.0	12.6
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS(Mf)9	09:16:57	2.6	Bottom	3	1	19.21	8.29	29.45	105.9	8.21	6.9	13.3
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS(Mf)9	09:16:41	2.6	Bottom	3	2	19.20	8.30	29.43	106.2	8.24	7.0	13.7
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS10	08:41:06	1.0	Surface	1	1	19.28	8.53	32.95	104.1	7.90	5.4	12.0
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS10	08:41:53	1.0	Surface	1	2	19.32	8.53	32.96	104.1	7.89	5.3	11.5
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS10	08:40:55	5.4	Middle	2	1	19.30	8.53	32.95	103.8	7.88	5.6	10.6
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS10	08:41:45	5.4	Middle	2	2	19.33	8.53	32.97	103.9	7.88	5.5	11.7
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS10	08:40:46	9.8	Bottom	3	1	19.30	8.53	32.95	103.1	7.82	5.8	12.1
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	IS10	08:41:37	9.8	Bottom	3	2	19.31	8.53	32.97	103.7	7.87	5.7	11.1
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR3	09:48:30	0.8	Middle	2	1	18.93	8.35	29.22	109.2	8.53	6.1	11.6

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR3	09:48:37	0.8	Middle	2	2	18.93	8.35	29.22	109.2	8.53	6.1	10.4
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR4	09:07:04	1.0	Surface	1	1	19.46	8.28	29.58	103.1	7.95	7.5	10.6
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR4	09:06:47	1.0	Surface	1	2	19.45	8.28	29.57	103.1	7.95	7.4	12.4
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR4	09:06:56	2.9	Bottom	3	1	19.47	8.28	29.59	103.1	7.95	7.6	12.4
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR4	09:06:41	2.9	Bottom	3	2	19.45	8.28	29.57	103.0	7.95	7.5	12.4
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR5	08:55:23	1.0	Surface	1	1	19.35	8.54	32.98	104.0	7.88	6.4	9.3
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR5	08:54:55	1.0	Surface	1	2	19.35	8.54	32.98	102.9	7.79	6.2	10.3
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR5	08:54:48	4.1	Bottom	3	1	19.35	8.54	32.99	102.6	7.77	6.5	10.4
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR5	08:55:16	4.1	Bottom	3	2	19.36	8.54	32.99	102.6	7.77	6.7	10.9
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR10A	07:51:26	1.0	Surface	1	1	19.96	8.25	30.08	100.1	7.63	4.3	9.2
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR10A	07:51:50	1.0	Surface	1	2	19.95	8.25	30.03	100.1	7.63	4.2	8.8
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR10A	07:51:19	3.3	Middle	2	1	19.97	8.24	30.11	100.1	7.62	4.4	8.0
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR10A	07:51:42	3.3	Middle	2	2	19.96	8.25	30.05	100.0	7.62	4.5	9.0
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR10A	07:51:35	5.5	Bottom	3	1	19.96	8.25	30.07	100.0	7.62	4.5	11.4
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR10A	07:51:11	5.5	Bottom	3	2	19.96	8.24	30.13	100.0	7.62	4.4	10.1
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR10B	07:42:04	1.0	Surface	1	1	19.97	8.24	30.47	100.7	7.66	4.5	7.8
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR10B	07:41:52	1.0	Surface	1	2	19.97	8.23	30.56	101.0	7.67	4.5	9.4
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR10B	07:41:58	4.0	Bottom	3	1	19.97	8.23	30.52	100.8	7.66	4.5	8.8
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	SR10B	07:41:45	4.0	Bottom	3	2	19.96	8.23	30.63	101.2	7.69	4.5	9.3
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	CS2	10:08:10	1.0	Surface	1	1	19.32	8.53	33.06	101.1	7.66	7.4	12.3
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	CS2	10:07:45	1.0	Surface	1	2	19.32	8.52	33.05	101.0	7.65	7.2	11.3
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	CS2	10:07:36	4.2	Middle	2	1	19.33	8.51	33.06	100.9	7.64	7.6	10.4
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	CS2	10:08:02	4.2	Middle	2	2	19.32	8.52	33.06	101.0	7.65	7.5	11.9
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	CS2	10:07:26	7.3	Bottom	3	1	19.33	8.50	33.06	100.2	7.59	7.8	11.7
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	CS2	10:07:55	7.3	Bottom	3	2	19.32	8.52	33.06	100.8	7.64	7.8	13.0
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	CS(Mf)5	08:24:42	1.0	Surface	1	1	19.94	8.26	29.85	100.2	7.65	5.6	8.1
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	CS(Mf)5	08:23:58	1.0	Surface	1	2	19.94	8.26	29.88	100.1	7.64	5.7	9.6
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	CS(Mf)5	08:23:46	6.4	Middle	2	1	19.89	8.26	29.90	99.8	7.62	5.8	11.6
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	CS(Mf)5	08:24:32	6.4	Middle	2	2	19.92	8.26	29.86	99.9	7.63	5.8	10.0
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	CS(Mf)5	08:23:39	11.7	Bottom	3	1	19.90	8.26	29.89	99.5	7.60	5.9	13.6
HKLR	HY/2011/03	2016-12-30	Mid-Flood	Fine	CS(Mf)5	08:24:10	11.7	Bottom	3	2	19.90	8.26	29.87	99.6	7.61	5.8	12.3
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS5	14:25:38	1.0	Surface	1	1	19.61	8.39	29.53	109.8	8.45	4.2	5.7
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS5	14:24:52	1.0	Surface	1	2	19.59	8.39	29.53	109.3	8.41	4.1	5.6
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS5	14:24:40	4.2	Middle	2	1	19.55	8.39	29.54	108.7	8.38	4.3	6.8
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS5	14:25:27	4.2	Middle	2	2	19.57	8.39	29.54	109.4	8.42	4.4	5.6
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS5	14:25:20	7.3	Bottom	3	1	19.58	8.39	29.54	109.4	8.42	4.5	8.6
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS5	14:24:33	7.3	Bottom	3	2	19.55	8.39	29.53	108.6	8.36	4.3	9.2
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS(Mf)6	14:34:20	1.0	Surface	1	1	19.86	8.41	29.48	112.6	8.63	3.4	6.3
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS(Mf)6	14:34:33	1.0	Surface	1	2	19.82	8.41	29.49	113.4	8.70	3.4	6.9
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS(Mf)6	14:34:27	2.2	Bottom	3	1	19.80	8.41	29.47	112.7	8.64	3.4	5.4
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS(Mf)6	14:34:09	2.2	Bottom	3	2	19.74	8.42	29.50	110.9	8.51	3.7	6.7
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS7	14:41:43	1.0	Surface	1	1	19.86	8.41	29.51	115.5	8.85	3.5	9.9
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS7	14:42:06	1.0	Surface	1	2	19.89	8.41	29.48	115.3	8.83	3.5	9.3
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS7	14:41:56	2.4	Bottom	3	1	19.86	8.41	29.47	115.1	8.82	3.5	9.1
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS7	14:41:37	2.4	Bottom	3	2	19.75	8.41	29.51	114.9	8.82	3.7	8.2
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS8	15:09:21	1.0	Surface	1	1	19.76	8.39	29.59	110.2	8.45	6.7	9.0
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS8	15:09:36	1.0	Surface	1	2	19.74	8.39	29.60	110.3	8.46	6.9	8.6
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS8	15:09:30	2.8	Bottom	3	1	19.75	8.39	29.58	110.3	8.46	7.2	10.5
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS8	15:09:14	2.8	Bottom	3	2	19.76	8.39	29.59	110.2	8.45	7.1	9.3
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS(Mf)9	14:48:30	1.0	Surface	1	1	19.78	8.40	29.57	110.4	8.46	8.2	12.0
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS(Mf)9	14:48:18	1.0	Surface	1	2	19.78	8.40	29.57	109.6	8.40	8.2	11.3
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS(Mf)9	14:48:23	2.6	Bottom	3	1	19.78	8.40	29.57	109.9	8.43	8.1	13.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS(Mf)9	14:48:10	2.6	Bottom	3	2	19.77	8.40	29.57	108.7	8.34	8.0	12.2
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS10 (N)	15:37:25	1.0	Surface	1	1	19.75	8.50	32.96	108.3	8.15	6.9	8.9
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS10 (N)	15:38:05	1.0	Surface	1	2	19.73	8.50	32.97	107.7	8.10	7.2	9.2
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS10 (N)	15:37:56	5.2	Middle	2	1	19.63	8.50	32.95	106.8	8.05	7.6	9.3
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS10 (N)	15:37:16	5.2	Middle	2	2	19.65	8.49	32.96	107.2	8.08	7.7	8.6
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS10 (N)	15:37:45	9.4	Bottom	3	1	19.62	8.54	32.95	106.5	8.03	7.5	9.1
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	IS10 (N)	15:37:06	9.4	Bottom	3	2	19.65	8.52	32.94	106.7	8.04	7.9	10.5
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR3	14:12:00	0.8	Middle	2	1	19.61	8.39	29.57	107.3	8.25	3.7	6.3
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR3	14:12:10	0.8	Middle	2	2	19.61	8.39	29.57	108.1	8.31	3.7	5.0
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR4	14:58:30	1.0	Surface	1	1	20.04	8.38	29.60	109.6	8.36	5.9	4.6
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR4	14:58:45	1.0	Surface	1	2	20.19	8.38	29.52	109.5	8.34	5.8	4.8
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR4	14:58:21	2.8	Bottom	3	1	19.90	8.39	29.55	108.0	8.26	6.8	6.9
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR4	14:58:35	2.8	Bottom	3	2	20.00	8.39	29.51	108.9	8.32	6.7	6.3
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR5 (N)	15:27:50	1.0	Surface	1	1	19.72	8.50	32.97	107.5	8.09	7.5	8.1
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR5 (N)	15:28:15	1.0	Surface	1	2	19.67	8.51	32.97	108.2	8.15	7.2	7.9
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR5 (N)	15:27:41	4.1	Middle	2	1	19.65	8.51	32.96	107.0	8.05	7.6	7.2
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR5 (N)	15:28:07	4.1	Middle	2	2	19.64	8.52	32.96	108.0	8.14	7.6	7.3
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR5 (N)	15:27:31	7.2	Bottom	3	1	19.67	8.50	32.95	106.5	8.03	7.5	8.9
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR5 (N)	15:28:00	7.2	Bottom	3	2	19.65	8.51	32.95	107.2	8.08	7.5	8.8
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR10A	16:35:55	1.0	Surface	1	1	20.32	8.33	29.46	100.7	7.65	2.4	3.5
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR10A	16:36:46	1.0	Surface	1	2	20.28	8.33	29.49	100.4	7.64	2.6	4.2
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR10A	16:36:34	3.3	Middle	2	1	19.98	8.32	29.51	99.6	7.61	3.2	3.6
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR10A	16:35:37	3.3	Middle	2	2	20.00	8.33	29.50	99.6	7.61	3.2	3.6
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR10A	16:36:20	5.6	Bottom	3	1	19.96	8.32	29.52	99.8	7.63	4.0	4.7
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR10A	16:35:10	5.6	Bottom	3	2	19.97	8.32	29.50	99.4	7.60	3.8	4.5
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR10B	16:47:25	1.0	Surface	1	1	20.13	8.36	29.54	104.1	7.94	2.9	4.0
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR10B	16:47:07	1.0	Surface	1	2	20.14	8.36	29.57	103.8	7.91	3.1	3.7
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR10B	16:47:14	4.5	Bottom	3	1	20.11	8.35	29.57	104.0	7.93	2.9	4.5
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	SR10B	16:46:52	4.5	Bottom	3	2	20.03	8.35	29.65	103.0	7.86	2.8	4.5
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	CS2	14:12:04	1.0	Surface	1	1	19.75	8.47	32.94	105.8	7.96	6.4	7.3
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	CS2	14:12:34	1.0	Surface	1	2	19.75	8.48	32.95	105.9	7.96	6.3	6.5
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	CS2	14:11:54	4.0	Middle	2	1	19.62	8.47	32.92	104.7	7.90	7.3	6.4
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	CS2	14:12:26	4.0	Middle	2	2	19.62	8.48	32.93	105.1	7.92	7.3	7.4
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	CS2	14:12:19	6.9	Bottom	3	1	19.63	8.48	32.92	104.7	7.89	7.3	6.1
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	CS2	14:11:35	6.9	Bottom	3	2	19.61	8.46	32.92	103.4	7.80	7.3	6.4
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	CS(Mf)5	16:01:14	1.0	Surface	1	1	20.21	8.33	29.40	100.4	7.64	2.8	5.2
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	CS(Mf)5	16:02:22	1.0	Surface	1	2	20.19	8.33	29.43	100.0	7.62	3.0	3.9
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	CS(Mf)5	16:02:05	6.8	Middle	2	1	19.96	8.32	29.45	99.1	7.58	4.1	4.3
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	CS(Mf)5	16:00:54	6.8	Middle	2	2	19.97	8.33	29.41	99.2	7.59	3.9	4.1
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	CS(Mf)5	16:00:38	12.6	Bottom	3	1	19.98	8.33	29.40	99.5	7.61	4.1	4.2
HKLR	HY/2011/03	2017-01-02	Mid-Ebb	Sunny	CS(Mf)5	16:01:54	12.6	Bottom	3	2	19.96	8.33	29.44	99.4	7.60	4.4	4.4
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS5	12:59:04	1.0	Surface	1	1	19.54	8.39	29.57	109.0	8.40	4.4	5.9
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS5	12:59:45	1.0	Surface	1	2	19.55	8.39	29.57	109.5	8.43	4.4	4.9
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS5	12:59:30	4.2	Middle	2	1	19.47	8.39	29.58	108.8	8.39	4.6	5.6
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS5	12:58:55	4.2	Middle	2	2	19.47	8.39	29.58	108.7	8.38	4.8	6.0
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS5	12:58:46	7.4	Bottom	3	1	19.51	8.39	29.56	108.8	8.39	4.6	6.0
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS5	12:59:23	7.4	Bottom	3	2	19.46	8.39	29.58	108.8	8.39	4.5	6.6
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS(Mf)6	12:48:16	1.0	Surface	1	1	19.62	8.41	29.57	113.4	8.72	4.1	4.2
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS(Mf)6	12:48:31	1.0	Surface	1	2	19.61	8.41	29.58	113.4	8.72	4.1	5.2
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS(Mf)6	12:48:07	2.3	Bottom	3	1	19.60	8.41	29.59	113.2	8.70	4.2	4.3
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS(Mf)6	12:48:23	2.3	Bottom	3	2	19.59	8.41	29.60	113.3	8.72	4.1	5.2
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS7	12:41:36	1.0	Surface	1	1	19.64	8.40	29.57	111.7	8.59	3.8	3.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS7	12:41:46	1.0	Surface	1	2	19.61	8.40	29.57	112.1	8.63	3.8	4.8
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS7	12:41:40	2.2	Bottom	3	1	19.63	8.40	29.56	111.8	8.60	3.8	7.2
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS7	12:41:29	2.2	Bottom	3	2	19.64	8.40	29.55	111.1	8.55	3.8	8.0
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS8	12:13:48	1.0	Surface	1	1	19.70	8.39	29.67	107.8	8.27	6.7	4.3
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS8	12:13:33	1.0	Surface	1	2	19.73	8.39	29.66	107.6	8.26	6.6	5.4
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS8	12:13:40	2.7	Bottom	3	1	19.68	8.39	29.67	107.6	8.26	7.1	7.1
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS8	12:13:23	2.7	Bottom	3	2	19.71	8.39	29.66	107.3	8.23	7.2	8.0
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS(Mf)9	12:33:15	1.0	Surface	1	1	19.66	8.40	29.66	111.0	8.53	5.7	6.3
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS(Mf)9	12:33:31	1.0	Surface	1	2	19.62	8.40	29.67	111.8	8.60	6.0	6.7
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS(Mf)9	12:33:08	2.5	Bottom	3	1	19.65	8.40	29.66	110.3	8.48	5.7	7.1
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS(Mf)9	12:33:20	2.5	Bottom	3	2	19.65	8.40	29.66	111.3	8.55	5.7	8.1
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS10 (N)	10:26:41	1.0	Surface	1	1	19.58	8.48	32.94	106.4	8.03	6.5	9.1
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS10 (N)	10:25:50	1.0	Surface	1	2	19.59	8.48	32.94	106.1	8.00	6.6	9.5
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS10 (N)	10:25:42	5.4	Middle	2	1	19.58	8.51	32.94	106.0	8.00	6.6	8.7
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS10 (N)	10:26:34	5.4	Middle	2	2	19.58	8.49	32.94	105.9	7.99	6.7	8.5
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS10 (N)	10:26:21	9.7	Bottom	3	1	19.58	8.52	32.93	105.7	7.97	6.9	9.2
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	IS10 (N)	10:25:33	9.7	Bottom	3	2	19.58	8.47	32.95	105.8	7.98	6.8	8.2
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR3	13:09:43	0.9	Middle	2	1	19.57	8.39	29.57	110.2	8.48	4.1	4.6
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR3	13:09:34	0.9	Middle	2	2	19.57	8.39	29.57	110.1	8.48	4.5	5.6
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR4	12:23:58	1.0	Surface	1	1	19.66	8.39	29.68	107.8	8.28	8.9	4.9
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR4	12:24:09	1.0	Surface	1	2	19.68	8.39	29.68	107.9	8.28	8.3	5.2
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR4	12:24:03	2.7	Bottom	3	1	19.67	8.39	29.67	107.8	8.28	9.3	4.1
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR4	12:23:53	2.7	Bottom	3	2	19.65	8.39	29.68	107.8	8.28	9.8	3.8
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR5 (N)	10:48:29	1.0	Surface	1	1	19.63	8.48	32.94	103.3	7.79	10.4	12.5
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR5 (N)	10:49:15	1.0	Surface	1	2	19.65	8.43	32.95	104.7	7.89	10.5	13.9
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR5 (N)	10:48:09	4.2	Middle	2	1	19.61	8.46	32.94	103.2	7.78	10.6	13.4
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR5 (N)	10:48:46	4.2	Middle	2	2	19.61	8.48	32.94	103.8	7.83	10.8	13.6
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR5 (N)	10:47:59	7.3	Bottom	3	1	19.62	8.49	32.93	102.4	7.72	10.5	13.8
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR5 (N)	10:48:38	7.3	Bottom	3	2	19.61	8.51	32.94	102.9	7.76	10.5	12.5
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR10A	10:52:14	1.0	Surface	1	1	19.78	8.35	30.36	103.8	7.92	5.3	6.6
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR10A	10:51:43	1.0	Surface	1	2	19.78	8.35	30.50	103.5	7.89	5.8	7.2
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR10A	10:51:30	3.3	Middle	2	1	19.73	8.35	30.59	103.3	7.88	6.0	7.4
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR10A	10:51:59	3.3	Middle	2	2	19.74	8.35	30.43	103.4	7.89	6.5	6.0
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR10A	10:51:51	5.5	Bottom	3	1	19.75	8.35	30.47	103.4	7.89	6.2	6.7
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR10A	10:51:22	5.5	Bottom	3	2	19.75	8.35	30.64	103.3	7.88	6.8	6.4
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR10B	10:37:54	1.0	Surface	1	1	19.75	8.34	31.63	103.3	7.83	5.5	8.8
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR10B	10:38:09	1.0	Surface	1	2	19.75	8.34	31.38	103.4	7.85	6.0	8.5
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR10B	10:38:01	4.2	Bottom	3	1	19.75	8.34	31.50	103.3	7.84	5.6	8.0
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	SR10B	10:37:47	4.2	Bottom	3	2	19.75	8.34	31.79	103.1	7.81	5.9	7.3
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	CS2	11:59:01	1.0	Surface	1	1	19.66	8.48	32.93	106.1	7.99	10.1	10.2
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	CS2	11:59:32	1.0	Surface	1	2	19.70	8.48	32.95	105.6	7.95	10.2	10.7
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	CS2	11:58:48	4.1	Middle	2	1	19.61	8.50	32.92	105.2	7.93	10.2	11.7
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	CS2	11:59:24	4.1	Middle	2	2	19.62	8.50	32.94	105.2	7.93	10.2	12.0
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	CS2	11:58:40	7.1	Bottom	3	1	19.61	8.48	32.92	105.0	7.92	10.5	10.8
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	CS2	11:59:15	7.1	Bottom	3	2	19.62	8.50	32.93	104.8	7.90	10.4	10.4
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	CS(Mf)5	11:29:15	1.0	Surface	1	1	19.79	8.36	29.93	103.6	7.93	6.6	6.6
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	CS(Mf)5	11:29:57	1.0	Surface	1	2	19.76	8.36	29.89	103.5	7.92	6.3	6.1
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	CS(Mf)5	11:29:47	6.9	Middle	2	1	19.74	8.36	29.91	103.1	7.90	8.0	5.4
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	CS(Mf)5	11:28:58	6.9	Middle	2	2	19.74	8.35	29.97	102.9	7.88	7.8	5.3
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	CS(Mf)5	11:28:47	12.7	Bottom	3	1	19.73	8.35	29.99	103.0	7.89	8.5	6.1
HKLR	HY/2011/03	2017-01-02	Mid-Flood	Sunny	CS(Mf)5	11:29:40	12.7	Bottom	3	2	19.74	8.36	29.92	103.2	7.91	9.0	7.8
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS5	16:22:33	1.0	Surface	1	1	20.52	8.45	27.13	114.5	8.78	5.7	9.3

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS5	16:22:08	1.0	Surface	1	2	20.51	8.45	27.07	114.4	8.79	5.8	10.0
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS5	16:22:01	4.2	Middle	2	1	20.51	8.45	27.06	114.4	8.79	5.9	9.2
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS5	16:22:22	4.2	Middle	2	2	20.49	8.45	27.13	114.3	8.77	5.8	9.4
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS5	16:21:49	7.3	Bottom	3	1	20.51	8.45	27.02	114.2	8.77	5.8	10.2
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS5	16:22:15	7.3	Bottom	3	2	20.50	8.45	27.10	114.1	8.76	5.9	10.7
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS(Mf)6	16:28:52	1.0	Surface	1	1	20.43	8.46	27.62	113.3	8.68	4.8	7.2
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS(Mf)6	16:28:31	1.0	Surface	1	2	20.43	8.46	27.61	112.3	8.60	4.9	7.7
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS(Mf)6	16:28:45	2.1	Bottom	3	1	20.43	8.46	27.62	112.9	8.66	4.9	8.2
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS(Mf)6	16:28:24	2.1	Bottom	3	2	20.43	8.46	27.60	111.6	8.56	4.8	8.3
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS7	16:35:00	1.0	Surface	1	1	20.43	8.46	27.68	113.9	8.73	4.8	10.5
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS7	16:34:49	1.0	Surface	1	2	20.42	8.46	27.68	113.8	8.72	4.7	9.8
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS7	16:34:54	2.2	Bottom	3	1	20.42	8.46	27.68	113.8	8.72	4.6	9.1
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS7	16:34:43	2.2	Bottom	3	2	20.42	8.46	27.67	113.9	8.72	4.7	10.4
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS8	17:00:05	1.0	Surface	1	1	20.64	8.50	27.85	122.2	9.32	6.2	11.0
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS8	17:00:17	1.0	Surface	1	2	20.63	8.50	27.86	122.4	9.34	6.2	10.4
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS8	16:59:57	2.9	Bottom	3	1	20.64	8.50	27.84	122.1	9.31	6.3	10.1
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS8	17:00:10	2.9	Bottom	3	2	20.64	8.50	27.85	122.3	9.32	6.2	10.9
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS(Mf)9	16:44:41	1.0	Surface	1	1	20.63	8.51	27.82	124.6	9.50	5.1	8.2
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS(Mf)9	16:44:15	1.0	Surface	1	2	20.63	8.51	27.80	123.1	9.39	5.0	7.1
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS(Mf)9	16:44:07	2.7	Bottom	3	1	20.63	8.51	27.79	122.3	9.33	5.1	9.5
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS(Mf)9	16:44:32	2.7	Bottom	3	2	20.61	8.51	27.82	124.2	9.48	4.9	8.9
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS10 (N)	17:27:25	1.0	Surface	1	1	20.58	8.58	30.90	122.1	9.15	2.6	5.9
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS10 (N)	17:26:34	1.0	Surface	1	2	20.57	8.58	30.88	121.6	9.10	2.7	6.9
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS10 (N)	17:26:24	5.4	Middle	2	1	20.44	8.57	31.49	120.8	9.06	2.8	6.9
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS10 (N)	17:27:11	5.4	Middle	2	2	20.42	8.57	31.69	120.9	9.07	2.8	7.0
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS10 (N)	17:26:17	9.7	Bottom	3	1	20.37	8.56	31.84	120.7	9.04	2.9	7.3
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	IS10 (N)	17:27:01	9.7	Bottom	3	2	20.35	8.56	31.95	120.3	9.01	2.9	7.8
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR3	16:11:29	0.8	Middle	2	1	20.52	8.46	26.48	110.9	8.55	6.1	9.6
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR3	16:11:34	0.8	Middle	2	2	20.51	8.46	26.52	111.4	8.58	6.1	10.2
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR4	16:51:58	1.0	Surface	1	1	20.63	8.50	27.81	119.1	9.09	6.5	9.1
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR4	16:52:10	1.0	Surface	1	2	20.62	8.50	27.82	120.1	9.16	6.5	8.8
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR4	16:51:52	2.7	Bottom	3	1	20.64	8.50	27.80	118.1	9.01	6.6	10.4
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR4	16:52:03	2.7	Bottom	3	2	20.63	8.50	27.81	119.7	9.13	6.6	9.1
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR5 (N)	17:12:43	1.0	Surface	1	1	20.50	8.56	31.03	119.8	8.99	3.6	5.2
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR5 (N)	17:12:10	1.0	Surface	1	2	20.48	8.54	31.39	119.3	8.93	3.5	4.6
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR5 (N)	17:12:32	4.2	Middle	2	1	20.35	8.54	31.87	118.7	8.89	3.7	4.8
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR5 (N)	17:12:00	4.2	Middle	2	2	20.35	8.53	31.86	118.8	8.89	3.8	4.9
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR5 (N)	17:12:23	7.4	Bottom	3	1	20.36	8.54	31.88	117.2	8.77	3.8	5.7
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR5 (N)	17:11:49	7.4	Bottom	3	2	20.38	8.52	31.82	116.4	8.74	3.9	5.3
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR10A	18:12:20	1.0	Surface	1	1	20.25	8.46	27.92	113.8	8.74	4.3	8.3
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR10A	18:11:54	1.0	Surface	1	2	20.25	8.46	27.92	113.6	8.72	4.3	7.5
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR10A	18:11:49	3.2	Middle	2	1	20.25	8.46	27.93	113.5	8.71	4.4	6.9
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR10A	18:12:11	3.2	Middle	2	2	20.25	8.46	27.93	113.6	8.72	4.3	7.3
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR10A	18:12:03	5.3	Bottom	3	1	20.25	8.46	27.92	113.6	8.72	4.4	8.0
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR10A	18:11:42	5.3	Bottom	3	2	20.25	8.46	27.92	113.4	8.71	4.5	6.6
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR10B	18:22:32	1.0	Surface	1	1	20.24	8.46	27.92	113.8	8.73	4.1	6.0
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR10B	18:22:20	1.0	Surface	1	2	20.24	8.46	27.92	113.8	8.74	4.1	6.3
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR10B	18:22:26	3.9	Bottom	3	1	20.25	8.46	27.92	113.7	8.73	4.2	6.1
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	SR10B	18:22:12	3.9	Bottom	3	2	20.25	8.46	27.92	113.8	8.74	4.3	6.8
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	CS2	15:51:25	1.0	Surface	1	1	20.34	8.54	30.79	114.4	8.62	3.2	6.0
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	CS2	15:50:43	1.0	Surface	1	2	20.33	8.53	30.78	114.2	8.59	3.1	6.8
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	CS2	15:50:29	4.1	Middle	2	1	20.29	8.51	30.93	113.0	8.52	3.2	6.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	CS2	15:51:12	4.1	Middle	2	2	20.28	8.54	31.02	113.9	8.58	3.3	5.7
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	CS2	15:50:59	7.2	Bottom	3	1	20.24	8.53	31.38	110.1	8.28	3.5	6.1
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	CS2	15:50:16	7.2	Bottom	3	2	20.21	8.45	31.39	109.1	8.21	3.4	6.7
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	CS(Mf)5	17:35:23	1.0	Surface	1	1	20.24	8.46	27.93	112.2	8.61	5.5	6.8
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	CS(Mf)5	17:34:57	1.0	Surface	1	2	20.24	8.45	27.92	112.1	8.60	5.7	7.1
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	CS(Mf)5	17:35:16	6.1	Middle	2	1	20.22	8.45	27.95	111.9	8.60	5.6	7.4
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	CS(Mf)5	17:34:48	6.1	Middle	2	2	20.21	8.45	27.94	111.5	8.57	5.8	7.1
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	CS(Mf)5	17:35:08	11.1	Bottom	3	1	20.21	8.45	27.93	111.8	8.59	5.6	7.8
HKLR	HY/2011/03	2017-01-04	Mid-Ebb	Fine	CS(Mf)5	17:34:40	11.1	Bottom	3	2	20.22	8.45	27.92	111.6	8.57	5.7	8.5
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS5	12:20:34	1.0	Surface	1	1	20.23	8.41	28.90	110.8	8.46	5.6	8.2
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS5	12:20:57	1.0	Surface	1	2	20.22	8.41	28.91	110.8	8.46	5.6	8.3
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS5	12:20:48	4.1	Middle	2	1	20.22	8.41	28.91	110.5	8.44	5.6	8.3
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS5	12:20:21	4.1	Middle	2	2	20.23	8.41	28.91	110.4	8.43	5.6	9.1
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS5	12:20:42	7.2	Bottom	3	1	20.22	8.41	28.91	110.6	8.44	5.6	8.6
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS5	12:20:07	7.2	Bottom	3	2	20.20	8.41	28.90	110.1	8.41	5.7	9.1
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS(Mf)6	12:09:50	1.0	Surface	1	1	20.41	8.43	28.89	112.8	8.59	6.4	8.8
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS(Mf)6	12:09:40	1.0	Surface	1	2	20.41	8.43	28.88	111.8	8.51	6.5	9.0
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS(Mf)6	12:09:45	2.3	Bottom	3	1	20.41	8.43	28.88	112.3	8.55	6.6	10.4
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS(Mf)6	12:09:35	2.3	Bottom	3	2	20.42	8.43	28.87	111.3	8.47	6.7	9.9
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS7	12:02:06	1.0	Surface	1	1	20.16	8.42	28.83	114.4	8.75	12.4	18.8
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS7	12:01:55	1.0	Surface	1	2	20.20	8.42	28.83	114.4	8.74	12.7	19.2
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS7	12:02:00	2.2	Bottom	3	1	20.19	8.42	28.81	114.3	8.74	12.4	18.7
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS7	12:01:47	2.2	Bottom	3	2	20.12	8.41	28.83	114.1	8.73	12.8	18.0
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS8	11:36:40	1.0	Surface	1	1	20.14	8.41	28.70	111.3	8.53	5.1	7.5
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS8	11:36:57	1.0	Surface	1	2	20.15	8.41	28.70	112.2	8.59	5.2	9.1
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS8	11:36:33	3.2	Bottom	3	1	20.14	8.41	28.70	110.7	8.48	5.2	8.5
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS8	11:36:47	3.2	Bottom	3	2	20.13	8.41	28.69	111.8	8.56	5.3	9.6
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS(Mf)9	11:53:17	1.0	Surface	1	1	20.11	8.41	28.83	112.5	8.62	12.6	14.9
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS(Mf)9	11:53:33	1.0	Surface	1	2	20.14	8.42	28.83	113.2	8.66	12.2	15.6
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS(Mf)9	11:53:23	2.7	Bottom	3	1	20.11	8.41	28.83	112.6	8.62	12.6	19.7
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS(Mf)9	11:53:12	2.7	Bottom	3	2	20.13	8.42	28.82	112.4	8.60	12.5	21.6
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS10 (N)	11:55:43	1.0	Surface	1	1	20.02	8.47	32.01	110.6	8.33	6.3	11.1
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS10 (N)	11:56:29	1.0	Surface	1	2	20.01	8.49	32.01	111.1	8.36	6.4	10.9
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS10 (N)	11:55:31	5.4	Middle	2	1	20.01	8.46	32.01	109.3	8.23	6.6	9.1
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS10 (N)	11:56:14	5.4	Middle	2	2	20.00	8.48	32.01	110.1	8.28	6.6	11.3
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS10 (N)	11:56:01	9.8	Bottom	3	1	20.00	8.48	32.02	109.8	8.26	6.8	11.4
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	IS10 (N)	11:55:21	9.8	Bottom	3	2	20.01	8.45	32.01	107.5	8.09	6.8	11.0
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR3	12:30:54	0.8	Middle	2	1	20.24	8.42	28.90	111.5	8.51	5.1	6.8
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR3	12:31:01	0.8	Middle	2	2	20.24	8.42	28.91	111.4	8.51	5.1	8.2
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR4	11:44:24	1.0	Surface	1	1	20.11	8.41	28.70	113.2	8.67	5.7	10.1
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR4	11:44:01	1.0	Surface	1	2	20.12	8.41	28.70	113.3	8.68	5.7	9.7
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR4	11:44:17	2.8	Bottom	3	1	20.11	8.41	28.71	113.1	8.66	5.8	10.4
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR4	11:43:48	2.8	Bottom	3	2	20.11	8.41	28.70	113.1	8.67	5.9	11.2
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR5 (N)	12:11:37	1.0	Surface	1	1	20.03	8.51	31.99	111.9	8.42	7.1	12.1
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR5 (N)	12:12:41	1.0	Surface	1	2	20.03	8.52	32.00	112.1	8.44	7.2	11.2
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR5 (N)	12:12:28	4.2	Middle	2	1	20.01	8.52	32.01	111.3	8.38	7.3	13.3
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR5 (N)	12:11:26	4.2	Middle	2	2	20.02	8.51	31.99	111.2	8.37	7.4	13.7
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR5 (N)	12:11:17	7.4	Bottom	3	1	20.01	8.51	31.99	111.0	8.35	7.6	12.5
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR5 (N)	12:12:18	7.4	Bottom	3	2	20.02	8.51	32.01	111.2	8.37	7.5	12.2
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR10A	10:31:55	1.0	Surface	1	1	20.17	8.37	28.90	109.0	8.33	3.6	4.3
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR10A	10:32:26	1.0	Surface	1	2	20.22	8.37	28.78	109.9	8.40	3.5	5.3
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR10A	10:32:14	3.2	Middle	2	1	20.13	8.36	28.90	109.1	8.35	3.7	4.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR10A	10:31:47	3.2	Middle	2	2	20.09	8.36	29.02	108.9	8.33	3.7	6.4
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR10A	10:31:37	5.3	Bottom	3	1	20.13	8.36	29.04	108.5	8.30	3.8	6.3
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR10A	10:32:05	5.3	Bottom	3	2	20.09	8.36	29.00	108.8	8.32	3.8	6.8
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR10B	10:21:43	1.0	Surface	1	1	20.13	8.36	29.74	109.4	8.33	2.9	3.3
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR10B	10:21:59	1.0	Surface	1	2	20.16	8.36	29.54	109.5	8.34	2.8	4.5
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR10B	10:21:50	4.0	Bottom	3	1	20.13	8.36	29.69	109.4	8.33	2.8	5.0
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	SR10B	10:21:36	4.0	Bottom	3	2	20.11	8.36	29.89	109.4	8.32	2.8	6.7
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	CS2	13:30:43	1.0	Surface	1	1	20.04	8.47	31.78	109.6	8.25	6.1	10.9
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	CS2	13:31:15	1.0	Surface	1	2	20.07	8.49	31.76	109.7	8.26	6.2	9.8
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	CS2	13:31:04	4.2	Middle	2	1	20.03	8.48	31.84	109.6	8.25	6.3	9.9
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	CS2	13:30:27	4.2	Middle	2	2	20.02	8.46	31.87	109.1	8.22	6.4	9.8
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	CS2	13:30:14	7.3	Bottom	3	1	20.01	8.44	31.95	108.7	8.19	6.6	12.2
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	CS2	13:30:54	7.3	Bottom	3	2	20.03	8.48	31.89	109.0	8.20	6.5	13.4
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	CS(Mf)5	11:08:16	1.0	Surface	1	1	20.16	8.37	28.60	107.4	8.22	7.5	6.7
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	CS(Mf)5	11:07:25	1.0	Surface	1	2	20.14	8.37	28.67	108.0	8.27	7.6	7.3
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	CS(Mf)5	11:07:16	6.2	Middle	2	1	20.05	8.35	28.84	107.9	8.26	7.9	7.0
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	CS(Mf)5	11:08:05	6.2	Middle	2	2	20.04	8.35	28.79	106.6	8.18	7.7	7.6
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	CS(Mf)5	11:07:54	11.3	Bottom	3	1	20.04	8.35	28.81	106.3	8.15	7.7	9.8
HKLR	HY/2011/03	2017-01-04	Mid-Flood	Fine	CS(Mf)5	11:07:07	11.3	Bottom	3	2	20.07	8.35	28.83	107.3	8.23	7.9	8.8
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS5	06:56:40	1.0	Surface	1	1	20.42	8.40	28.10	109.9	8.40	5.5	8.2
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS5	06:57:06	1.0	Surface	1	2	20.43	8.40	28.09	110.0	8.41	5.6	6.7
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS5	06:56:58	4.1	Middle	2	1	20.42	8.40	28.10	109.7	8.39	5.7	7.9
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS5	06:56:32	4.1	Middle	2	2	20.41	8.40	28.09	109.8	8.40	5.7	9.1
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS5	06:56:48	7.1	Bottom	3	1	20.42	8.40	28.09	109.7	8.38	5.7	9.3
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS5	06:56:22	7.1	Bottom	3	2	20.41	8.40	28.09	109.8	8.39	5.4	8.9
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS(Mf)6	06:45:48	1.0	Surface	1	1	20.43	8.40	28.07	109.8	8.39	5.4	9.3
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS(Mf)6	06:46:11	1.0	Surface	1	2	20.43	8.40	28.07	110.0	8.41	5.3	9.0
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS(Mf)6	06:45:58	2.1	Bottom	3	1	20.42	8.41	28.06	109.8	8.40	5.4	8.7
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS(Mf)6	06:45:39	2.1	Bottom	3	2	20.43	8.40	28.07	109.7	8.38	5.2	7.6
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS7	06:38:27	1.0	Surface	1	1	20.43	8.40	28.04	108.4	8.29	5.6	9.8
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS7	06:38:40	1.0	Surface	1	2	20.43	8.40	28.05	108.9	8.33	5.7	8.2
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS7	06:38:33	2.0	Bottom	3	1	20.43	8.40	28.05	108.7	8.31	5.7	10.1
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS7	06:38:20	2.0	Bottom	3	2	20.43	8.40	28.04	108.0	8.26	5.6	11.1
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS8	06:15:16	1.0	Surface	1	1	20.44	8.41	28.22	109.3	8.34	5.2	3.2
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS8	06:15:32	1.0	Surface	1	2	20.43	8.41	28.22	109.7	8.38	5.2	3.4
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS8	06:15:23	2.8	Bottom	3	1	20.43	8.40	28.25	109.6	8.37	5.2	4.9
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS8	06:15:08	2.8	Bottom	3	2	20.44	8.40	28.25	109.0	8.32	5.3	5.6
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS(Mf)9	06:31:47	1.0	Surface	1	1	20.44	8.41	28.23	110.5	8.44	6.1	2.5
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS(Mf)9	06:32:05	1.0	Surface	1	2	20.44	8.41	28.23	110.3	8.42	6.1	2.3
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS(Mf)9	06:31:56	2.7	Bottom	3	1	20.44	8.40	28.26	110.5	8.44	6.3	2.6
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS(Mf)9	06:31:38	2.7	Bottom	3	2	20.44	8.41	28.25	110.5	8.44	6.2	2.4
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS10 (N)	05:49:14	1.0	Surface	1	1	20.49	8.40	29.18	111.5	8.46	1.7	3.3
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS10 (N)	05:49:41	1.0	Surface	1	2	20.37	8.41	29.35	111.8	8.49	1.9	3.0
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS10 (N)	05:49:31	5.2	Middle	2	1	20.30	8.40	29.57	110.1	8.37	2.1	2.5
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS10 (N)	05:48:50	5.2	Middle	2	2	20.32	8.40	29.49	109.9	8.35	2.1	3.6
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS10 (N)	05:49:24	9.3	Bottom	3	1	20.33	8.40	29.53	110.3	8.37	2.2	2.7
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	IS10 (N)	05:48:41	9.3	Bottom	3	2	20.29	8.40	29.59	111.3	8.46	2.1	3.1
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR3	07:05:43	0.7	Middle	2	1	20.44	8.41	28.09	110.0	8.40	4.3	7.2
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR3	07:05:37	0.7	Middle	2	2	20.44	8.41	28.09	110.0	8.41	4.3	7.6
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR4	06:21:32	1.0	Surface	1	1	20.44	8.41	28.23	110.3	8.42	5.5	3.0
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR4	06:21:47	1.0	Surface	1	2	20.43	8.41	28.23	110.2	8.42	5.5	3.0
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR4	06:21:26	2.8	Bottom	3	1	20.43	8.40	28.25	110.4	8.43	5.8	2.6

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR4	06:21:39	2.8	Bottom	3	2	20.44	8.40	28.25	110.4	8.43	5.7	2.2
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR5 (N)	05:58:00	1.0	Surface	1	1	20.43	8.41	29.28	110.5	8.38	2.1	3.4
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR5 (N)	05:57:27	1.0	Surface	1	2	20.53	8.40	29.06	112.2	8.51	2.3	3.6
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR5 (N)	05:57:17	4.3	Middle	2	1	20.31	8.40	29.51	110.2	8.37	2.4	3.0
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR5 (N)	05:57:48	4.3	Middle	2	2	20.29	8.41	29.59	110.1	8.36	2.6	2.5
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR5 (N)	05:57:06	7.3	Bottom	3	1	20.29	8.39	29.60	110.3	8.38	2.3	3.9
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR5 (N)	05:57:40	7.3	Bottom	3	2	20.30	8.41	29.63	110.6	8.40	2.5	3.3
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR10A	04:53:30	1.0	Surface	1	1	20.32	8.35	27.65	108.3	8.32	2.6	3.0
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR10A	04:52:53	1.0	Surface	1	2	20.32	8.35	27.57	108.5	8.33	2.6	4.1
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR10A	04:53:24	3.2	Middle	2	1	20.34	8.35	27.77	108.3	8.31	2.6	3.3
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR10A	04:52:42	3.2	Middle	2	2	20.33	8.35	27.75	108.4	8.32	2.6	3.6
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR10A	04:52:34	5.4	Bottom	3	1	20.32	8.35	27.77	108.3	8.31	2.7	3.0
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR10A	04:53:17	5.4	Bottom	3	2	20.37	8.35	27.90	108.3	8.29	2.7	3.7
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR10B	04:42:09	1.0	Surface	1	1	20.32	8.34	27.81	108.2	8.30	2.4	4.1
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR10B	04:41:48	1.0	Surface	1	2	20.31	8.34	27.88	108.1	8.29	2.5	4.0
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR10B	04:41:59	4.3	Bottom	3	1	20.32	8.34	28.04	108.2	8.29	2.5	2.3
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	SR10B	04:41:36	4.3	Bottom	3	2	20.31	8.34	28.04	107.9	8.27	2.5	3.3
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	CS2	07:05:45	1.0	Surface	1	1	20.46	8.39	28.94	112.8	8.58	2.0	3.6
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	CS2	07:06:13	1.0	Surface	1	2	20.51	8.39	28.84	112.9	8.58	1.8	3.1
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	CS2	07:06:01	3.9	Middle	2	1	20.38	8.39	29.38	112.1	8.51	2.3	4.0
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	CS2	07:05:37	3.9	Middle	2	2	20.38	8.39	29.39	110.9	8.42	2.4	5.8
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	CS2	07:05:55	6.7	Bottom	3	1	20.41	8.39	29.33	112.7	8.55	2.4	3.7
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	CS2	07:05:30	6.7	Bottom	3	2	20.36	8.38	29.49	110.6	8.39	2.5	4.6
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	CS(Mf)5	05:32:49	1.0	Surface	1	1	20.35	8.36	27.63	108.1	8.30	2.8	4.6
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	CS(Mf)5	05:32:15	1.0	Surface	1	2	20.35	8.36	27.67	108.2	8.31	2.9	3.2
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	CS(Mf)5	05:32:09	5.9	Middle	2	1	20.36	8.36	27.84	108.1	8.29	2.9	3.0
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	CS(Mf)5	05:32:42	5.9	Middle	2	2	20.36	8.36	27.81	108.0	8.28	2.8	3.9
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	CS(Mf)5	05:32:00	10.8	Bottom	3	1	20.35	8.36	27.85	108.0	8.28	3.3	5.2
HKLR	HY/2011/03	2017-01-06	Mid-Ebb	Cloudy	CS(Mf)5	05:32:32	10.8	Bottom	3	2	20.36	8.36	27.83	107.9	8.27	3.1	4.6
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS5	12:09:14	1.0	Surface	1	1	20.55	8.41	27.90	112.3	8.57	4.7	4.0
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS5	12:08:48	1.0	Surface	1	2	20.54	8.41	27.92	111.5	8.52	4.7	4.3
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS5	12:09:04	4.1	Middle	2	1	20.48	8.40	28.02	111.8	8.54	5.1	7.3
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS5	12:08:39	4.1	Middle	2	2	20.54	8.41	27.93	110.6	8.44	4.7	6.8
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS5	12:08:26	7.2	Bottom	3	1	20.49	8.41	28.01	109.2	8.34	5.0	6.9
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS5	12:08:57	7.2	Bottom	3	2	20.49	8.41	28.00	111.8	8.54	5.1	7.1
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS(Mf)6	12:16:29	1.0	Surface	1	1	20.61	8.41	27.85	114.8	8.75	3.7	6.2
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS(Mf)6	12:16:17	1.0	Surface	1	2	20.61	8.41	27.84	114.7	8.75	3.6	6.9
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS(Mf)6	12:16:11	2.1	Bottom	3	1	20.59	8.41	27.86	114.5	8.74	3.7	8.4
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS(Mf)6	12:16:22	2.1	Bottom	3	2	20.61	8.41	27.85	114.7	8.75	3.8	7.0
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS7	12:23:20	1.0	Surface	1	1	20.60	8.41	27.86	115.0	8.78	3.3	6.7
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS7	12:23:32	1.0	Surface	1	2	20.60	8.41	27.87	115.1	8.78	3.2	7.3
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS7	12:23:13	2.1	Bottom	3	1	20.61	8.41	27.85	115.0	8.78	3.3	10.9
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS7	12:23:25	2.1	Bottom	3	2	20.60	8.41	27.86	115.0	8.77	3.3	10.3
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS8	12:47:17	1.0	Surface	1	1	20.64	8.42	28.10	114.9	8.75	8.5	14.2
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS8	12:47:02	1.0	Surface	1	2	20.64	8.42	28.10	114.9	8.75	8.4	13.3
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS8	12:47:09	2.9	Bottom	3	1	20.60	8.42	28.16	114.7	8.73	8.5	15.3
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS8	12:46:54	2.9	Bottom	3	2	20.68	8.42	28.05	114.7	8.73	8.7	16.2
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS(Mf)9	12:31:19	1.0	Surface	1	1	20.62	8.42	28.05	112.7	8.59	9.4	5.9
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS(Mf)9	12:30:49	1.0	Surface	1	2	20.61	8.43	28.04	111.8	8.52	9.5	5.7
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS(Mf)9	12:30:42	2.7	Bottom	3	1	20.61	8.43	28.07	111.4	8.49	9.5	9.8
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS(Mf)9	12:31:10	2.7	Bottom	3	2	20.54	8.43	28.18	112.1	8.55	9.6	8.2
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS10 (N)	13:07:51	1.0	Surface	1	1	20.62	8.39	29.40	116.2	8.78	2.1	4.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS10 (N)	13:07:14	1.0	Surface	1	2	20.63	8.38	29.41	116.4	8.79	2.1	4.6
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS10 (N)	13:07:35	5.3	Middle	2	1	20.31	8.38	29.62	114.3	8.68	2.2	3.8
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS10 (N)	13:07:02	5.3	Middle	2	2	20.33	8.37	29.55	113.5	8.62	2.1	3.0
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS10 (N)	13:06:53	9.5	Bottom	3	1	20.31	8.37	29.68	115.4	8.76	2.3	4.1
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	IS10 (N)	13:07:28	9.5	Bottom	3	2	20.33	8.38	29.66	114.3	8.67	2.5	4.1
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR3	11:58:08	0.6	Middle	2	1	20.62	8.42	27.81	113.1	8.63	3.2	3.5
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR3	11:57:53	0.6	Middle	2	2	20.63	8.42	27.83	111.7	8.52	3.1	4.8
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR4	12:41:42	1.0	Surface	1	1	20.60	8.42	28.12	113.7	8.66	9.6	7.1
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR4	12:42:01	1.0	Surface	1	2	20.68	8.42	27.99	114.1	8.69	9.7	6.4
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR4	12:41:35	2.8	Bottom	3	1	20.59	8.42	28.14	113.5	8.65	9.7	14.7
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR4	12:41:51	2.8	Bottom	3	2	20.58	8.42	28.17	113.6	8.66	9.7	13.6
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR5 (N)	12:58:55	1.0	Surface	1	1	20.58	8.38	29.42	116.0	8.77	2.1	2.7
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR5 (N)	12:59:21	1.0	Surface	1	2	20.51	8.38	29.44	116.2	8.80	2.2	4.0
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR5 (N)	12:58:44	4.1	Middle	2	1	20.41	8.38	29.49	114.7	8.70	2.2	4.4
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR5 (N)	12:59:15	4.1	Middle	2	2	20.37	8.38	29.45	115.2	8.75	2.3	4.1
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR5 (N)	12:58:36	7.4	Bottom	3	1	20.36	8.37	29.58	114.5	8.69	2.3	4.1
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR5 (N)	12:59:05	7.4	Bottom	3	2	20.47	8.38	29.47	114.6	8.68	2.3	3.9
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR10A	14:11:44	1.0	Surface	1	1	20.40	8.38	27.27	110.5	8.48	2.8	4.6
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR10A	14:12:10	1.0	Surface	1	2	20.40	8.37	27.35	110.4	8.48	3.0	3.4
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR10A	14:11:38	3.2	Middle	2	1	20.39	8.37	27.49	110.4	8.48	3.1	3.4
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR10A	14:12:03	3.2	Middle	2	2	20.39	8.37	27.46	110.3	8.47	3.1	3.1
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR10A	14:11:56	5.4	Bottom	3	1	20.39	8.37	27.54	110.2	8.46	3.2	4.2
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR10A	14:11:33	5.4	Bottom	3	2	20.40	8.37	27.50	110.3	8.47	3.1	4.5
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR10B	14:21:38	1.0	Surface	1	1	20.40	8.38	27.33	110.6	8.49	3.1	3.5
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR10B	14:21:16	1.0	Surface	1	2	20.39	8.37	27.34	110.3	8.48	3.1	2.9
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR10B	14:21:05	4.3	Bottom	3	1	20.39	8.37	27.51	110.4	8.47	3.2	5.2
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	SR10B	14:21:26	4.3	Bottom	3	2	20.39	8.37	27.51	110.5	8.48	3.2	6.9
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	CS2	11:46:21	1.0	Surface	1	1	20.62	8.29	28.24	112.3	8.54	1.6	4.6
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	CS2	11:46:47	1.0	Surface	1	2	20.57	8.30	28.40	113.8	8.66	1.8	3.9
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	CS2	11:46:39	3.8	Middle	2	1	20.43	8.30	29.09	112.9	8.58	2.0	4.6
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	CS2	11:46:09	3.8	Middle	2	2	20.41	8.29	29.10	108.9	8.28	1.9	4.8
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	CS2	11:46:03	6.6	Bottom	3	1	20.40	8.29	29.11	107.4	8.17	2.1	4.0
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	CS2	11:46:31	6.6	Bottom	3	2	20.42	8.29	29.14	110.4	8.39	2.2	4.5
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	CS(Mf)5	13:27:14	1.0	Surface	1	1	20.40	8.37	27.38	109.5	8.40	5.1	4.8
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	CS(Mf)5	13:26:43	1.0	Surface	1	2	20.40	8.37	27.34	109.5	8.41	5.2	5.0
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	CS(Mf)5	13:27:06	6.4	Middle	2	1	20.41	8.37	27.64	109.4	8.39	5.1	3.5
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	CS(Mf)5	13:26:34	6.4	Middle	2	2	20.42	8.37	27.66	109.4	8.38	5.1	4.0
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	CS(Mf)5	13:26:56	11.7	Bottom	3	1	20.43	8.37	27.79	109.3	8.38	5.3	5.2
HKLR	HY/2011/03	2017-01-06	Mid-Flood	Cloudy	CS(Mf)5	13:26:24	11.7	Bottom	3	2	20.44	8.38	27.81	109.3	8.37	5.2	4.7
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS5	10:53:38	1.0	Surface	1	1	21.42	8.42	27.63	117.8	8.86	4.4	6.7
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS5	10:53:13	1.0	Surface	1	2	21.42	8.42	27.61	117.6	8.85	4.5	6.3
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS5	10:53:33	4.1	Middle	2	1	21.42	8.42	27.64	117.6	8.85	4.4	5.9
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS5	10:53:04	4.1	Middle	2	2	21.41	8.42	27.63	117.1	8.81	4.5	6.3
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS5	10:52:57	7.2	Bottom	3	1	21.42	8.42	27.63	117.0	8.81	4.4	5.6
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS5	10:53:23	7.2	Bottom	3	2	21.42	8.42	27.63	117.6	8.85	4.3	6.2
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS(Mf)6	10:45:55	1.0	Surface	1	1	21.41	8.42	27.60	115.3	8.68	4.0	6.0
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS(Mf)6	10:46:13	1.0	Surface	1	2	21.41	8.42	27.61	116.2	8.75	4.2	7.6
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS(Mf)6	10:46:01	2.2	Bottom	3	1	21.41	8.42	27.60	115.7	8.71	4.0	6.0
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS(Mf)6	10:45:47	2.2	Bottom	3	2	21.41	8.42	27.59	114.5	8.62	4.2	6.3
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS7	10:36:06	1.0	Surface	1	1	21.22	8.46	27.15	127.9	9.69	2.6	3.3
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS7	10:35:40	1.0	Surface	1	2	21.22	8.46	27.14	127.2	9.63	2.5	3.4
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS7	10:35:56	2.2	Bottom	3	1	21.22	8.46	27.17	127.7	9.68	2.5	5.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS7	10:35:33	2.2	Bottom	3	2	21.22	8.45	27.16	126.9	9.61	2.5	6.0
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS8	10:11:32	1.0	Surface	1	1	21.13	8.44	26.64	122.7	9.34	5.4	6.9
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS8	10:11:16	1.0	Surface	1	2	21.20	8.44	26.74	122.1	9.27	5.4	7.6
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS8	10:11:23	2.9	Bottom	3	1	21.27	8.43	27.63	123.2	9.29	5.4	8.1
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS8	10:11:08	2.9	Bottom	3	2	21.30	8.42	27.73	122.6	9.24	5.4	7.8
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS(Mf)9	10:27:50	1.0	Surface	1	1	21.26	8.44	27.19	121.5	9.20	4.2	4.2
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS(Mf)9	10:28:06	1.0	Surface	1	2	21.25	8.44	27.19	122.5	9.27	4.1	4.6
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS(Mf)9	10:27:57	2.7	Bottom	3	1	21.27	8.43	27.33	122.3	9.25	4.1	4.6
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS(Mf)9	10:27:43	2.7	Bottom	3	2	21.29	8.43	27.39	121.4	9.17	4.1	3.9
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS10	09:57:06	1.0	Surface	1	1	20.91	8.35	28.77	115.4	8.71	3.0	5.4
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS10	09:56:32	1.0	Surface	1	2	20.90	8.34	28.72	112.9	8.53	3.2	4.4
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS10	09:56:52	5.2	Middle	2	1	20.86	8.34	30.36	113.0	8.46	3.7	4.4
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS10	09:56:23	5.2	Middle	2	2	20.86	8.33	30.36	113.7	8.51	3.7	4.2
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS10	09:56:17	9.3	Bottom	3	1	20.88	8.32	30.35	115.2	8.62	3.3	7.1
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	IS10	09:56:45	9.3	Bottom	3	2	20.87	8.34	30.36	113.5	8.49	3.5	6.8
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR3	11:06:45	0.7	Middle	2	1	21.43	8.42	27.63	118.6	8.92	4.2	6.2
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR3	11:06:36	0.7	Middle	2	2	21.43	8.42	27.63	118.5	8.92	4.3	5.9
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR4	10:16:51	1.0	Surface	1	1	21.22	8.44	27.03	123.9	9.39	4.4	4.2
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR4	10:16:30	1.0	Surface	1	2	21.19	8.44	26.69	123.6	9.39	4.4	4.8
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR4	10:16:43	2.7	Bottom	3	1	21.33	8.43	27.44	124.6	9.40	4.6	4.0
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR4	10:16:22	2.7	Bottom	3	2	21.28	8.43	27.62	124.4	9.39	4.4	4.4
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR5	10:05:59	1.0	Surface	1	1	20.93	8.37	28.89	118.2	8.91	2.5	4.2
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR5	10:05:41	1.0	Surface	1	2	20.92	8.37	28.71	116.1	8.76	2.5	5.8
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR5	10:05:31	3.9	Bottom	3	1	20.86	8.34	30.33	115.8	8.67	2.8	5.8
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR5	10:05:48	3.9	Bottom	3	2	20.92	8.37	29.93	116.8	8.76	2.6	4.4
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR10A	08:54:04	1.0	Surface	1	1	20.80	8.36	27.75	108.2	8.21	1.7	3.0
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR10A	08:54:27	1.0	Surface	1	2	20.80	8.35	27.78	108.7	8.22	1.8	4.7
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR10A	08:54:19	3.2	Middle	2	1	20.77	8.33	28.74	108.2	8.22	1.8	5.2
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR10A	08:53:56	3.2	Middle	2	2	20.77	8.33	28.81	107.9	8.18	1.8	3.8
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR10A	08:54:10	5.4	Bottom	3	1	20.80	8.35	28.80	108.1	8.18	1.8	5.0
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR10A	08:53:49	5.4	Bottom	3	2	20.78	8.34	28.85	107.7	8.15	1.9	4.8
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR10B	08:41:13	1.0	Surface	1	1	20.80	8.35	28.43	110.5	8.37	1.7	9.6
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR10B	08:41:34	1.0	Surface	1	2	20.79	8.37	28.20	112.0	8.50	1.7	8.0
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR10B	08:41:19	3.9	Bottom	3	1	20.80	8.34	29.58	111.0	8.35	1.8	10.2
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	SR10B	08:41:05	3.9	Bottom	3	2	20.80	8.35	29.75	110.5	8.31	1.8	10.1
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	CS2	11:21:06	1.0	Surface	1	1	20.91	8.36	28.84	117.0	8.83	3.0	4.2
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	CS2	11:21:33	1.0	Surface	1	2	20.90	8.37	28.94	115.8	8.73	3.4	4.6
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	CS2	11:21:25	3.9	Middle	2	1	20.85	8.36	29.75	116.6	8.76	3.8	4.4
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	CS2	11:20:57	3.9	Middle	2	2	20.87	8.35	29.66	117.1	8.80	3.4	5.3
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	CS2	11:20:48	6.8	Bottom	3	1	20.84	8.34	29.85	119.7	8.98	3.2	4.3
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	CS2	11:21:18	6.8	Bottom	3	2	20.86	8.36	29.71	117.8	8.85	3.6	4.3
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	CS(Mf)5	09:32:29	1.0	Surface	1	1	20.79	8.35	27.56	106.7	8.07	1.5	3.3
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	CS(Mf)5	09:33:05	1.0	Surface	1	2	20.79	8.35	27.64	106.4	8.05	1.5	3.3
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	CS(Mf)5	09:32:55	6.1	Middle	2	1	20.74	8.33	28.78	105.1	8.00	1.5	2.9
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	CS(Mf)5	09:32:19	6.1	Middle	2	2	20.74	8.32	28.83	105.9	8.06	1.6	2.3
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	CS(Mf)5	09:32:10	11.1	Bottom	3	1	20.76	8.33	28.84	105.7	7.99	1.6	3.1
HKLR	HY/2011/03	2017-01-09	Mid-Ebb	Fine	CS(Mf)5	09:32:41	11.1	Bottom	3	2	20.75	8.33	28.80	104.9	7.94	1.6	3.3
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS5	14:27:35	1.0	Surface	1	1	21.54	8.49	27.00	123.2	9.29	3.4	4.8
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS5	14:27:08	1.0	Surface	1	2	21.54	8.50	26.97	123.3	9.30	3.4	5.0
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS5	14:27:28	4.1	Middle	2	1	21.53	8.49	27.04	123.0	9.27	3.3	5.8
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS5	14:26:55	4.1	Middle	2	2	21.52	8.49	27.00	123.2	9.29	3.5	4.3
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS5	14:27:16	7.2	Bottom	3	1	21.53	8.49	27.02	122.8	9.25	3.3	6.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS5	14:26:47	7.2	Bottom	3	2	21.53	8.49	26.99	122.7	9.25	3.5	6.3
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS(Mf)6	14:34:11	1.0	Surface	1	1	21.51	8.53	26.89	129.2	9.75	3.0	5.6
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS(Mf)6	14:33:58	1.0	Surface	1	2	21.51	8.52	26.94	127.6	9.63	2.9	4.1
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS(Mf)6	14:34:03	2.2	Bottom	3	1	21.51	8.52	26.95	128.1	9.67	3.1	6.5
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS(Mf)6	14:33:50	2.2	Bottom	3	2	21.51	8.52	26.94	126.6	9.55	2.9	5.1
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS7	14:42:31	1.0	Surface	1	1	21.51	8.54	26.78	134.1	10.12	2.6	4.8
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS7	14:42:12	1.0	Surface	1	2	21.51	8.55	26.75	134.0	10.12	2.6	4.3
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS7	14:42:21	2.3	Bottom	3	1	21.51	8.53	26.94	134.1	10.12	2.6	4.6
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS7	14:41:55	2.3	Bottom	3	2	21.51	8.54	26.89	132.3	9.98	2.6	4.7
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS8	15:07:48	1.0	Surface	1	1	21.40	8.50	26.74	130.5	9.87	10.5	9.1
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS8	15:08:03	1.0	Surface	1	2	21.41	8.50	26.72	130.9	9.91	10.5	8.6
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS8	15:07:40	2.8	Bottom	3	1	21.40	8.50	26.81	130.5	9.87	10.4	8.5
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS8	15:07:53	2.8	Bottom	3	2	21.40	8.50	26.80	130.7	9.89	10.5	7.3
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS(Mf)9	14:53:36	1.0	Surface	1	1	21.49	8.55	26.71	133.4	10.08	3.4	5.4
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS(Mf)9	14:53:58	1.0	Surface	1	2	21.44	8.55	26.75	136.3	10.31	3.6	6.6
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS(Mf)9	14:53:51	2.7	Bottom	3	1	21.40	8.53	26.87	136.2	10.30	3.5	6.0
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS(Mf)9	14:53:26	2.7	Bottom	3	2	21.39	8.51	26.97	133.1	10.06	3.5	6.7
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS10	15:38:18	1.0	Surface	1	1	21.20	8.41	28.70	125.9	9.45	2.6	2.6
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS10	15:38:45	1.0	Surface	1	2	21.16	8.41	28.80	126.1	9.47	2.6	3.0
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS10	15:38:34	5.4	Middle	2	1	20.90	8.39	29.97	124.5	9.33	2.7	3.3
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS10	15:38:03	5.4	Middle	2	2	20.93	8.39	29.92	119.9	8.99	2.9	4.2
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS10	15:37:52	9.7	Bottom	3	1	20.88	8.38	30.17	124.7	9.34	2.8	3.3
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	IS10	15:38:28	9.7	Bottom	3	2	20.96	8.40	29.82	126.5	9.47	2.6	4.7
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR3	14:16:26	0.6	Middle	2	1	21.54	8.52	26.68	121.9	9.21	2.9	5.1
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR3	14:16:18	0.6	Middle	2	2	21.54	8.52	26.61	120.1	9.07	3.1	4.9
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR4	15:00:50	1.0	Surface	1	1	21.39	8.50	26.69	129.7	9.82	10.4	10.1
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR4	15:00:32	1.0	Surface	1	2	21.39	8.50	26.70	128.3	9.71	10.4	10.1
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR4	15:00:38	2.8	Bottom	3	1	21.40	8.50	26.78	128.9	9.75	10.6	9.7
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR4	15:00:22	2.8	Bottom	3	2	21.39	8.50	26.76	127.0	9.61	10.2	10.9
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR5	15:32:06	1.0	Surface	1	1	21.21	8.38	28.66	127.8	9.60	2.7	3.8
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR5	15:32:24	1.0	Surface	1	2	21.16	8.38	28.75	129.9	9.76	2.5	3.4
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR5	15:32:14	4.0	Bottom	3	1	21.03	8.38	29.26	129.9	9.75	2.6	4.9
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR5	15:31:51	4.0	Bottom	3	2	20.95	8.38	29.44	122.9	9.23	2.8	6.0
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR10A	16:31:20	1.0	Surface	1	1	21.03	8.43	26.96	115.5	8.79	1.8	5.2
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR10A	16:31:51	1.0	Surface	1	2	21.00	8.42	27.16	115.3	8.77	1.9	4.0
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR10A	16:31:42	3.3	Middle	2	1	20.89	8.39	27.34	114.7	8.72	2.0	4.9
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR10A	16:31:12	3.3	Middle	2	2	20.89	8.39	27.33	115.0	8.75	2.0	3.7
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR10A	16:31:34	5.5	Bottom	3	1	20.89	8.39	27.36	114.4	8.71	2.1	4.1
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR10A	16:31:03	5.5	Bottom	3	2	20.94	8.40	27.28	114.5	8.71	2.0	4.5
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR10B	16:41:03	1.0	Surface	1	1	20.98	8.42	27.16	116.7	8.88	2.2	3.9
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR10B	16:40:48	1.0	Surface	1	2	20.97	8.42	27.17	115.9	8.82	2.1	2.6
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR10B	16:40:41	4.1	Bottom	3	1	21.01	8.42	27.16	115.6	8.79	2.1	3.8
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	SR10B	16:40:54	4.1	Bottom	3	2	21.01	8.42	27.17	116.9	8.89	2.1	3.2
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	CS2	14:17:09	1.0	Surface	1	1	21.08	8.38	28.76	120.6	9.03	2.3	5.0
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	CS2	14:17:35	1.0	Surface	1	2	21.01	8.36	28.92	120.5	9.07	2.5	3.7
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	CS2	14:16:59	3.9	Middle	2	1	20.93	8.37	29.67	116.7	8.78	2.6	4.4
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	CS2	14:17:27	3.9	Middle	2	2	20.95	8.35	29.85	118.5	8.88	2.7	3.0
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	CS2	14:16:47	6.7	Bottom	3	1	20.93	8.37	30.04	105.9	7.93	2.5	3.9
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	CS2	14:17:17	6.7	Bottom	3	2	20.99	8.36	29.92	109.7	8.23	2.5	4.0
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	CS(Mf)5	15:50:52	1.0	Surface	1	1	20.91	8.40	27.27	110.6	8.41	3.8	4.1
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	CS(Mf)5	15:50:26	1.0	Surface	1	2	20.91	8.40	27.27	109.8	8.35	3.9	4.4
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	CS(Mf)5	15:50:19	6.3	Middle	2	1	20.86	8.38	27.47	109.2	8.32	4.0	2.9

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	CS(Mf)5	15:50:44	6.3	Middle	2	2	20.86	8.38	27.48	109.7	8.35	4.1	3.9
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	CS(Mf)5	15:50:36	11.5	Bottom	3	1	20.89	8.38	27.47	109.5	8.33	4.1	2.8
HKLR	HY/2011/03	2017-01-09	Mid-Flood	Fine	CS(Mf)5	15:50:09	11.5	Bottom	3	2	20.88	8.38	27.48	108.7	8.28	4.1	3.2
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS5	12:07:15	1.0	Surface	1	1	20.80	8.42	27.29	107.9	8.23	7.9	12.0
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS5	12:08:01	1.0	Surface	1	2	20.80	8.42	27.31	107.8	8.22	7.4	10.3
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS5	12:07:46	4.1	Middle	2	1	20.79	8.42	27.32	107.7	8.22	7.6	12.0
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS5	12:07:07	4.1	Middle	2	2	20.79	8.42	27.30	107.7	8.22	7.5	14.1
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS5	12:07:37	7.1	Bottom	3	1	20.79	8.42	27.31	107.7	8.22	7.5	14.4
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS5	12:06:59	7.1	Bottom	3	2	20.80	8.42	27.29	107.8	8.22	7.4	13.0
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS(Mf)6	13:06:09	1.0	Surface	1	1	20.90	8.42	27.15	108.3	8.25	5.6	9.8
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS(Mf)6	13:06:39	1.0	Surface	1	2	20.91	8.42	27.15	109.0	8.30	5.5	9.1
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS(Mf)6	13:06:29	2.1	Bottom	3	1	20.90	8.42	27.16	108.9	8.30	5.7	9.4
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS(Mf)6	13:05:57	2.1	Bottom	3	2	20.89	8.41	27.15	108.2	8.24	5.6	10.4
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS7	12:52:45	1.0	Surface	1	1	20.94	8.48	27.09	120.2	9.16	5.5	10.4
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS7	12:54:22	1.0	Surface	1	2	20.93	8.48	27.07	115.4	8.79	5.5	10.6
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS7	12:52:36	2.4	Bottom	3	1	20.93	8.48	27.09	119.7	9.12	5.6	14.5
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS7	12:54:10	2.4	Bottom	3	2	20.90	8.47	27.07	112.3	8.56	5.6	12.7
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS8	11:46:47	1.0	Surface	1	1	20.82	8.44	27.11	113.7	8.68	4.2	12.2
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS8	11:46:59	1.0	Surface	1	2	20.78	8.43	27.16	114.3	8.73	4.0	11.7
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS8	11:46:40	2.9	Bottom	3	1	20.81	8.43	27.15	113.1	8.63	4.1	10.7
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS8	11:46:53	2.9	Bottom	3	2	20.82	8.43	27.15	114.1	8.71	4.1	10.8
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS(Mf)9	12:40:59	1.0	Surface	1	1	20.94	8.47	27.14	119.0	9.06	4.7	7.8
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS(Mf)9	12:41:15	1.0	Surface	1	2	20.94	8.47	27.14	119.7	9.12	4.7	6.0
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS(Mf)9	12:40:51	2.7	Bottom	3	1	20.93	8.47	27.16	118.3	9.01	4.8	10.8
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS(Mf)9	12:41:07	2.7	Bottom	3	2	20.93	8.47	27.16	119.4	9.09	4.8	11.0
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS10	12:00:07	1.0	Surface	1	1	20.75	8.36	30.16	108.6	8.15	4.2	6.7
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS10	11:59:33	1.0	Surface	1	2	20.69	8.36	30.33	109.0	8.18	4.4	6.6
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS10	11:59:54	5.2	Middle	2	1	20.51	8.35	31.14	107.0	8.02	4.4	8.7
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS10	11:59:20	5.2	Middle	2	2	20.51	8.35	31.14	107.9	8.09	4.2	10.4
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS10	11:59:45	9.3	Bottom	3	1	20.55	8.35	31.05	107.5	8.06	4.5	10.2
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	IS10	11:59:15	9.3	Bottom	3	2	20.52	8.34	31.12	107.4	8.05	4.2	10.7
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR3	12:15:34	0.7	Middle	2	1	20.79	8.42	27.32	108.0	8.24	7.4	13.2
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR3	12:15:41	0.7	Middle	2	2	20.79	8.42	27.32	108.0	8.24	7.3	13.9
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR4	11:53:07	1.0	Surface	1	1	20.80	8.43	27.17	115.1	8.78	4.1	8.6
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR4	11:53:40	1.0	Surface	1	2	20.88	8.45	27.11	116.0	8.84	4.4	8.7
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR4	11:53:30	2.7	Bottom	3	1	20.73	8.42	27.27	115.3	8.80	4.2	7.7
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR4	11:53:00	2.7	Bottom	3	2	20.68	8.41	27.32	115.1	8.80	4.1	8.3
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR5	12:07:42	1.0	Surface	1	1	20.65	8.37	30.43	107.8	8.09	4.0	8.5
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR5	12:07:58	1.0	Surface	1	2	20.69	8.37	30.31	109.5	8.22	4.1	9.4
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR5	12:07:35	3.9	Bottom	3	1	20.51	8.36	31.12	108.0	8.10	4.3	11.0
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR5	12:07:50	3.9	Bottom	3	2	20.64	8.36	30.80	108.6	8.14	4.1	9.4
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR10A	10:42:47	1.0	Surface	1	1	20.77	8.35	27.86	104.7	7.96	2.4	7.6
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR10A	10:42:11	1.0	Surface	1	2	20.78	8.36	27.89	104.7	7.95	2.5	6.0
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR10A	10:42:03	3.3	Middle	2	1	20.72	8.34	28.08	104.5	7.95	2.3	11.0
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR10A	10:42:40	3.3	Middle	2	2	20.70	8.33	28.06	104.3	7.93	2.4	9.3
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR10A	10:41:52	5.5	Bottom	3	1	20.74	8.34	28.13	104.0	7.91	2.4	12.4
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR10A	10:42:33	5.5	Bottom	3	2	20.70	8.33	28.20	103.8	7.90	2.5	12.9
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR10B	10:33:14	1.0	Surface	1	1	20.76	8.35	28.14	105.9	8.04	2.7	11.7
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR10B	10:32:55	1.0	Surface	1	2	20.79	8.35	28.16	106.1	8.05	2.6	11.4
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR10B	10:33:06	4.0	Bottom	3	1	20.74	8.34	28.27	106.0	8.05	2.6	10.0
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	SR10B	10:32:34	4.0	Bottom	3	2	20.76	8.35	28.35	105.5	8.01	2.6	10.8
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	CS2	13:20:53	1.0	Surface	1	1	20.83	8.37	30.00	111.5	8.36	4.2	6.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	CS2	13:21:22	1.0	Surface	1	2	20.73	8.37	30.22	108.7	8.16	4.4	7.4
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	CS2	13:21:14	3.8	Middle	2	1	20.57	8.37	30.79	109.4	8.21	5.6	9.6
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	CS2	13:20:37	3.8	Middle	2	2	20.57	8.36	30.79	108.0	8.11	6.0	9.0
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	CS2	13:21:04	6.6	Bottom	3	1	20.61	8.36	30.75	109.5	8.21	5.5	12.1
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	CS2	13:20:28	6.6	Bottom	3	2	20.56	8.34	30.86	109.6	8.22	5.8	11.3
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	CS(Mf)5	11:08:23	1.0	Surface	1	1	20.77	8.35	27.77	102.0	7.75	2.6	9.8
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	CS(Mf)5	11:07:43	1.0	Surface	1	2	20.77	8.35	27.80	100.4	7.64	2.4	8.1
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	CS(Mf)5	11:08:11	6.0	Middle	2	1	20.66	8.31	28.20	101.3	7.71	2.5	9.2
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	CS(Mf)5	11:07:32	6.0	Middle	2	2	20.66	8.31	28.23	100.0	7.61	2.4	11.2
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	CS(Mf)5	11:07:59	11.0	Bottom	3	1	20.66	8.31	28.24	100.5	7.64	2.5	11.5
HKLR	HY/2011/03	2017-01-11	Mid-Ebb	Fine	CS(Mf)5	11:07:24	11.0	Bottom	3	2	20.66	8.31	28.24	99.3	7.55	2.6	10.6
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS5	16:12:24	1.0	Surface	1	1	20.81	8.45	27.96	107.2	8.14	4.7	8.8
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS5	16:11:41	1.0	Surface	1	2	20.86	8.46	27.88	108.4	8.23	4.8	9.0
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS5	16:11:32	4.4	Middle	2	1	20.82	8.45	27.92	108.3	8.23	4.9	10.0
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS5	16:12:18	4.4	Middle	2	2	20.79	8.45	27.96	107.0	8.13	4.8	10.8
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS5	16:11:25	7.7	Bottom	3	1	20.85	8.46	27.90	108.2	8.22	4.9	9.1
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS5	16:12:11	7.7	Bottom	3	2	20.74	8.44	28.03	106.9	8.13	4.8	9.9
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS(Mf)6	16:20:53	1.0	Surface	1	1	20.90	8.46	27.79	111.2	8.45	5.8	10.9
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS(Mf)6	16:21:07	1.0	Surface	1	2	20.90	8.46	27.80	111.7	8.48	5.8	10.4
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS(Mf)6	16:20:43	2.5	Bottom	3	1	20.90	8.46	27.78	110.7	8.41	6.0	13.7
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS(Mf)6	16:21:01	2.5	Bottom	3	2	20.90	8.46	27.80	111.5	8.46	5.9	12.8
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS7	16:27:26	1.0	Surface	1	1	20.90	8.46	27.84	112.2	8.51	5.8	9.4
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS7	16:27:15	1.0	Surface	1	2	20.90	8.46	27.83	112.3	8.52	5.9	10.4
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS7	16:27:03	2.3	Bottom	3	1	20.90	8.47	27.83	112.3	8.52	6.0	15.2
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS7	16:27:21	2.3	Bottom	3	2	20.90	8.46	27.84	112.3	8.52	5.8	13.8
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS8	16:53:08	1.0	Surface	1	1	20.84	8.47	27.65	113.9	8.66	13.5	13.4
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS8	16:53:38	1.0	Surface	1	2	20.83	8.46	27.66	113.6	8.64	13.2	14.2
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS8	16:53:01	3.0	Bottom	3	1	20.84	8.47	27.66	113.8	8.65	13.5	16.0
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS8	16:53:30	3.0	Bottom	3	2	20.82	8.46	27.69	113.8	8.66	13.4	17.2
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS(Mf)9	16:38:21	1.0	Surface	1	1	20.87	8.46	27.67	113.7	8.64	4.5	9.8
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS(Mf)9	16:38:00	1.0	Surface	1	2	20.87	8.46	27.67	113.2	8.60	4.6	9.5
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS(Mf)9	16:38:12	2.7	Bottom	3	1	20.87	8.46	27.67	113.5	8.62	4.4	14.3
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS(Mf)9	16:37:48	2.7	Bottom	3	2	20.87	8.46	27.67	112.9	8.58	4.5	11.7
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS10	18:17:55	1.0	Surface	1	1	20.71	8.37	30.02	107.6	8.09	5.1	7.3
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS10	18:18:20	1.0	Surface	1	2	20.70	8.38	30.03	106.4	8.00	5.1	7.6
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS10	18:17:45	5.4	Middle	2	1	20.63	8.36	30.67	106.8	8.01	5.8	6.9
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS10	18:18:10	5.4	Middle	2	2	20.63	8.37	30.65	107.1	8.04	5.8	7.3
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS10	18:18:03	9.7	Bottom	3	1	20.67	8.37	30.47	106.9	8.02	5.1	6.4
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	IS10	18:17:37	9.7	Bottom	3	2	20.62	8.35	30.72	105.8	7.94	5.0	7.0
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR3	16:02:04	0.7	Middle	2	1	20.88	8.47	27.72	109.6	8.32	4.6	9.6
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR3	16:02:11	0.7	Middle	2	2	20.88	8.47	27.74	109.5	8.32	4.5	8.9
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR4	16:46:35	1.0	Surface	1	1	20.82	8.46	27.65	113.0	8.60	12.1	14.4
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR4	16:46:51	1.0	Surface	1	2	20.83	8.46	27.65	112.9	8.59	12.4	15.5
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR4	16:46:43	2.8	Bottom	3	1	20.82	8.46	27.67	113.0	8.59	12.3	15.4
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR4	16:46:29	2.8	Bottom	3	2	20.83	8.46	27.64	113.0	8.60	12.4	15.8
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR5	18:09:36	1.0	Surface	1	1	20.68	8.37	30.22	108.5	8.15	4.4	6.9
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR5	18:09:24	1.0	Surface	1	2	20.69	8.36	30.12	107.9	8.11	4.6	8.2
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR5	18:09:15	4.1	Bottom	3	1	20.65	8.36	30.47	107.4	8.06	4.8	11.5
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR5	18:09:30	4.1	Bottom	3	2	20.71	8.36	30.20	108.1	8.12	4.4	10.6
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR10A	18:11:34	1.0	Surface	1	1	20.62	8.42	27.99	107.2	8.17	4.8	9.3
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR10A	18:12:05	1.0	Surface	1	2	20.62	8.42	27.99	107.1	8.16	4.6	10.2
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR10A	18:11:26	3.3	Middle	2	1	20.63	8.42	27.99	107.1	8.16	4.8	11.0

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR10A	18:11:57	3.3	Middle	2	2	20.63	8.42	27.99	107.1	8.16	4.8	11.8
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR10A	18:11:46	5.5	Bottom	3	1	20.63	8.42	28.00	107.0	8.15	4.9	10.7
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR10A	18:11:10	5.5	Bottom	3	2	20.63	8.42	28.01	106.9	8.15	4.9	11.4
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR10B	18:21:20	1.0	Surface	1	1	20.63	8.42	27.98	107.2	8.17	4.5	9.6
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR10B	18:21:42	1.0	Surface	1	2	20.63	8.42	27.98	107.1	8.16	4.5	8.1
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR10B	18:21:13	4.2	Bottom	3	1	20.63	8.42	27.99	107.1	8.16	4.6	12.7
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	SR10B	18:21:34	4.2	Bottom	3	2	20.63	8.42	27.99	107.1	8.16	4.5	11.8
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	CS2	16:53:20	1.0	Surface	1	1	20.78	8.36	29.49	108.7	8.19	3.4	7.5
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	CS2	16:54:09	1.0	Surface	1	2	20.80	8.39	29.38	110.7	8.34	3.5	7.6
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	CS2	16:52:59	3.9	Middle	2	1	20.73	8.31	30.24	107.9	8.10	3.6	10.3
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	CS2	16:53:55	3.9	Middle	2	2	20.73	8.38	30.20	109.8	8.25	4.0	9.2
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	CS2	16:53:45	6.7	Bottom	3	1	20.73	8.37	30.22	110.1	8.26	4.4	10.3
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	CS2	16:52:22	6.7	Bottom	3	2	20.72	8.40	30.30	106.1	7.96	4.1	10.3
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	CS(Mf)5	17:34:03	1.0	Surface	1	1	20.63	8.42	27.98	107.6	8.20	5.5	7.9
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	CS(Mf)5	17:33:32	1.0	Surface	1	2	20.63	8.42	27.96	107.9	8.22	5.5	9.0
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	CS(Mf)5	17:33:19	6.2	Middle	2	1	20.64	8.43	27.97	107.8	8.22	5.5	11.1
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	CS(Mf)5	17:33:52	6.2	Middle	2	2	20.65	8.43	27.98	107.5	8.19	5.6	10.2
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	CS(Mf)5	17:33:44	11.4	Bottom	3	1	20.64	8.43	27.99	107.1	8.16	5.7	12.8
HKLR	HY/2011/03	2017-01-11	Mid-Flood	Fine	CS(Mf)5	17:33:06	11.4	Bottom	3	2	20.66	8.43	27.96	107.5	8.19	5.4	14.4
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS5	12:32:10	1.0	Surface	1	1	20.05	8.36	27.90	94.2	7.26	6.9	7.4
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS5	12:32:41	1.0	Surface	1	2	20.05	8.36	27.90	94.1	7.25	6.9	7.7
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS5	12:32:27	4.3	Middle	2	1	20.05	8.36	27.91	94.0	7.25	7.1	7.7
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS5	12:31:55	4.3	Middle	2	2	20.05	8.36	27.90	94.1	7.25	7.0	7.6
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS5	12:31:42	7.5	Bottom	3	1	20.05	8.36	27.90	94.0	7.24	7.0	7.1
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS5	12:32:17	7.5	Bottom	3	2	20.05	8.36	27.91	93.9	7.24	7.1	7.8
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS(Mf)6	12:41:43	1.0	Surface	1	1	20.00	8.36	27.91	95.9	7.40	7.0	6.7
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS(Mf)6	12:41:56	1.0	Surface	1	2	20.01	8.37	27.92	95.4	7.36	7.2	6.9
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS(Mf)6	12:41:50	2.3	Bottom	3	1	20.01	8.36	27.92	95.6	7.37	7.1	8.0
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS(Mf)6	12:41:36	2.3	Bottom	3	2	20.00	8.36	27.91	96.2	7.42	7.2	7.7
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS7	12:48:04	1.0	Surface	1	1	20.00	8.37	27.93	94.7	7.30	6.7	9.6
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS7	12:48:23	1.0	Surface	1	2	20.00	8.37	27.93	94.6	7.30	7.1	8.4
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS7	12:48:13	2.4	Bottom	3	1	20.00	8.37	27.93	94.6	7.30	7.0	10.2
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS7	12:47:55	2.4	Bottom	3	2	20.00	8.37	27.93	94.7	7.31	6.9	11.2
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS8	13:09:22	1.0	Surface	1	1	20.04	8.38	27.60	96.9	7.48	15.6	13.3
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS8	13:09:32	1.0	Surface	1	2	20.04	8.38	27.59	96.8	7.48	15.2	14.5
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS8	13:09:16	2.8	Bottom	3	1	20.04	8.38	27.61	96.9	7.48	15.8	13.9
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS8	13:09:26	2.8	Bottom	3	2	20.04	8.38	27.60	96.8	7.48	15.4	14.9
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS(Mf)9	12:57:36	1.0	Surface	1	1	20.00	8.37	27.93	94.4	7.28	6.9	9.0
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS(Mf)9	12:57:25	1.0	Surface	1	2	20.00	8.37	27.93	94.4	7.28	7.0	7.6
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS(Mf)9	12:57:19	2.6	Bottom	3	1	20.00	8.37	27.93	94.4	7.28	7.1	7.2
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS(Mf)9	12:57:31	2.6	Bottom	3	2	20.00	8.37	27.93	94.4	7.28	7.0	8.0
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS10	13:34:04	1.0	Surface	1	1	20.12	8.51	30.81	97.1	7.34	6.2	8.0
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS10	13:34:36	1.0	Surface	1	2	20.11	8.52	30.81	97.2	7.35	6.3	9.1
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS10	13:34:27	5.4	Middle	2	1	20.12	8.52	30.82	96.6	7.31	6.6	10.4
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS10	13:33:53	5.4	Middle	2	2	20.13	8.51	30.82	96.5	7.30	6.6	9.4
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS10	13:34:15	9.8	Bottom	3	1	20.13	8.52	30.83	96.4	7.29	6.8	10.7
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	IS10	13:33:45	9.8	Bottom	3	2	20.13	8.51	30.83	96.4	7.29	6.9	11.4
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR3	12:22:03	0.8	Middle	2	1	20.05	8.35	27.83	95.5	7.37	6.7	8.0
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR3	12:21:57	0.8	Middle	2	2	20.05	8.35	27.82	95.7	7.38	6.7	8.7
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR4	13:04:18	1.0	Surface	1	1	20.05	8.37	27.53	97.9	7.56	13.7	13.5
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR4	13:04:03	1.0	Surface	1	2	20.05	8.37	27.52	98.3	7.59	13.4	13.9
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR4	13:04:09	2.8	Bottom	3	1	20.05	8.37	27.54	97.6	7.54	13.5	16.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR4	13:03:58	2.8	Bottom	3	2	20.05	8.37	27.52	98.1	7.58	13.7	16.0
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR5	13:22:57	1.0	Surface	1	1	20.12	8.48	30.82	98.1	7.39	6.6	7.9
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR5	13:22:27	1.0	Surface	1	2	20.13	8.46	30.82	97.9	7.41	6.4	7.9
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR5	13:22:43	4.1	Bottom	3	1	20.16	8.47	30.88	97.3	7.35	6.8	7.3
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR5	13:22:14	4.1	Bottom	3	2	20.16	8.44	30.87	97.0	7.33	6.7	8.8
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR10A	14:28:31	1.0	Surface	1	1	20.21	8.37	27.68	96.1	7.38	5.6	6.3
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR10A	14:29:06	1.0	Surface	1	2	20.20	8.38	27.67	95.9	7.36	5.7	7.2
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR10A	14:28:58	3.2	Middle	2	1	20.24	8.37	27.74	95.7	7.34	5.8	7.6
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR10A	14:28:24	3.2	Middle	2	2	20.25	8.37	27.78	95.8	7.37	5.7	7.7
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR10A	14:28:49	5.4	Bottom	3	1	20.35	8.35	28.03	95.5	7.34	5.8	7.5
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR10A	14:28:14	5.4	Bottom	3	2	20.24	8.37	27.89	95.7	7.35	5.6	6.5
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR10B	14:38:04	1.0	Surface	1	1	20.24	8.37	27.70	95.8	7.36	6.0	6.9
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR10B	14:38:18	1.0	Surface	1	2	20.22	8.37	27.69	95.8	7.37	5.7	7.3
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR10B	14:37:59	3.8	Bottom	3	1	20.22	8.37	27.75	95.7	7.36	5.9	6.7
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	SR10B	14:38:11	3.8	Bottom	3	2	20.24	8.37	27.81	95.9	7.37	6.0	8.3
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	CS2	12:06:00	1.0	Surface	1	1	20.10	8.48	30.80	97.6	7.39	8.4	9.4
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	CS2	12:06:31	1.0	Surface	1	2	20.10	8.52	30.82	98.1	7.42	8.3	10.5
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	CS2	12:06:22	4.0	Middle	2	1	20.10	8.51	30.81	97.4	7.37	8.5	10.6
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	CS2	12:05:44	4.0	Middle	2	2	20.10	8.43	30.81	97.3	7.36	8.6	10.9
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	CS2	12:05:28	7.0	Bottom	3	1	20.11	8.39	30.82	96.4	7.29	8.8	14.5
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	CS2	12:06:09	7.0	Bottom	3	2	20.10	8.49	30.80	97.2	7.35	8.7	13.7
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	CS(Mf)5	13:49:37	1.0	Surface	1	1	20.25	8.37	27.73	94.3	7.21	7.3	6.4
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	CS(Mf)5	13:48:54	1.0	Surface	1	2	20.25	8.37	27.75	93.6	7.18	7.2	6.8
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	CS(Mf)5	13:49:29	5.9	Middle	2	1	20.34	8.35	28.06	93.8	7.21	7.4	8.0
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	CS(Mf)5	13:48:47	5.9	Middle	2	2	20.35	8.34	28.14	93.5	7.16	7.3	6.8
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	CS(Mf)5	13:49:17	10.7	Bottom	3	1	20.35	8.34	28.23	93.8	7.18	7.5	8.2
HKLR	HY/2011/03	2017-01-13	Mid-Ebb	Rainy	CS(Mf)5	13:48:39	10.7	Bottom	3	2	20.35	8.34	28.25	93.3	7.14	7.3	9.1
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS5	09:12:18	1.0	Surface	1	1	20.02	8.36	27.77	95.0	7.33	7.4	9.7
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS5	09:12:48	1.0	Surface	1	2	20.03	8.36	27.78	94.6	7.30	7.6	8.7
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS5	09:12:38	4.3	Middle	2	1	20.02	8.36	27.78	94.6	7.29	8.4	8.6
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS5	09:12:10	4.3	Middle	2	2	20.03	8.36	27.78	94.9	7.32	8.5	9.6
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS5	09:12:03	7.6	Bottom	3	1	20.03	8.36	27.79	94.8	7.32	8.3	10.1
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS5	09:12:26	7.6	Bottom	3	2	20.03	8.36	27.79	94.4	7.29	8.4	10.0
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS(Mf)6	09:00:23	1.0	Surface	1	1	20.03	8.36	27.83	95.5	7.36	9.6	10.5
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS(Mf)6	09:00:37	1.0	Surface	1	2	20.03	8.37	27.84	95.4	7.35	9.3	10.0
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS(Mf)6	09:00:16	2.3	Bottom	3	1	20.03	8.36	27.83	95.5	7.36	9.5	11.7
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS(Mf)6	09:00:29	2.3	Bottom	3	2	20.04	8.36	27.83	95.4	7.36	9.4	12.2
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS7	08:53:10	1.0	Surface	1	1	20.04	8.36	27.78	96.6	7.45	9.3	11.6
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS7	08:52:56	1.0	Surface	1	2	20.04	8.36	27.75	97.3	7.50	9.4	10.4
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS7	08:53:02	2.4	Bottom	3	1	20.04	8.36	27.77	96.8	7.47	9.4	11.0
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS7	08:52:49	2.4	Bottom	3	2	20.04	8.36	27.74	97.7	7.54	9.5	12.6
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS8	08:30:51	1.0	Surface	1	1	20.09	8.37	27.65	97.6	7.53	8.4	10.9
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS8	08:30:39	1.0	Surface	1	2	20.09	8.36	27.63	98.1	7.56	8.5	11.8
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS8	08:30:23	3.3	Bottom	3	1	20.10	8.36	27.61	98.7	7.62	8.6	9.9
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS8	08:30:44	3.3	Bottom	3	2	20.09	8.37	27.64	97.8	7.54	8.6	10.4
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS(Mf)9	08:46:52	1.0	Surface	1	1	20.10	8.38	27.71	96.7	7.45	9.7	11.0
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS(Mf)9	08:47:20	1.0	Surface	1	2	20.10	8.38	27.71	96.7	7.45	9.5	10.8
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS(Mf)9	08:46:47	2.8	Bottom	3	1	20.10	8.38	27.71	96.7	7.45	9.7	11.9
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS(Mf)9	08:47:09	2.8	Bottom	3	2	20.11	8.38	27.71	96.6	7.45	9.6	11.9
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS10	08:30:51	1.0	Surface	1	1	20.10	8.47	30.78	97.9	7.41	10.5	14.2
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS10	08:31:46	1.0	Surface	1	2	20.10	8.48	30.78	98.2	7.43	10.5	13.9
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS10	08:30:19	5.5	Middle	2	1	20.10	8.45	30.78	97.4	7.37	10.7	14.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS10	08:31:35	5.5	Middle	2	2	20.12	8.47	30.79	97.1	7.35	10.6	14.7
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS10	08:31:24	9.9	Bottom	3	1	20.12	8.46	30.79	95.7	7.31	10.8	16.5
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	IS10	08:30:10	9.9	Bottom	3	2	20.11	8.44	30.78	95.9	7.26	10.9	15.2
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR3	09:21:42	0.6	Middle	2	1	20.02	8.36	27.79	94.3	7.27	8.0	10.4
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR3	09:21:36	0.6	Middle	2	2	20.02	8.36	27.79	94.3	7.28	8.3	11.7
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR4	08:37:36	1.0	Surface	1	1	20.09	8.38	27.70	96.9	7.47	8.2	9.6
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR4	08:37:07	1.0	Surface	1	2	20.10	8.37	27.69	96.9	7.47	8.2	9.6
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR4	08:37:26	2.9	Bottom	3	1	20.10	8.38	27.70	96.8	7.46	8.4	10.4
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR4	08:36:55	2.9	Bottom	3	2	20.10	8.37	27.69	96.9	7.47	8.2	9.5
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR5	08:41:20	1.0	Surface	1	1	20.11	8.50	30.78	96.8	7.32	10.4	14.1
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR5	08:41:54	1.0	Surface	1	2	20.11	8.48	30.78	96.4	7.29	10.3	14.2
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR5	08:41:51	4.3	Bottom	3	1	20.11	8.48	30.78	96.3	7.29	10.6	15.7
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR5	08:41:10	4.3	Bottom	3	2	20.11	8.48	30.78	96.2	7.28	10.6	15.3
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR10A	07:32:22	1.0	Surface	1	1	20.25	8.36	28.16	95.4	7.31	4.3	4.9
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR10A	07:31:42	1.0	Surface	1	2	20.27	8.35	28.22	95.5	7.30	4.5	5.0
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR10A	07:32:09	3.2	Middle	2	1	20.32	8.35	28.34	95.3	7.28	4.5	6.8
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR10A	07:31:34	3.2	Middle	2	2	20.32	8.35	28.38	95.3	7.30	4.5	5.9
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR10A	07:31:25	5.4	Bottom	3	1	20.30	8.34	28.47	95.3	7.29	4.6	9.0
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR10A	07:31:59	5.4	Bottom	3	2	20.36	8.34	28.57	95.1	7.27	4.5	8.0
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR10B	07:22:48	1.0	Surface	1	1	20.23	8.34	28.45	96.0	7.35	4.0	4.5
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR10B	07:22:07	1.0	Surface	1	2	20.23	8.32	28.61	96.3	7.36	4.0	5.5
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR10B	07:21:55	4.2	Bottom	3	1	20.28	8.31	28.86	96.5	7.36	4.1	4.6
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	SR10B	07:22:35	4.2	Bottom	3	2	20.31	8.33	28.67	96.1	7.34	4.2	4.5
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	CS2	09:55:51	1.0	Surface	1	1	20.03	8.54	30.86	97.6	7.39	9.4	13.8
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	CS2	09:55:19	1.0	Surface	1	2	20.04	8.52	30.86	97.2	7.36	9.2	12.2
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	CS2	09:55:41	4.1	Middle	2	1	20.04	8.53	30.86	97.2	7.36	9.6	14.2
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	CS2	09:55:04	4.1	Middle	2	2	20.04	8.52	30.86	96.8	7.33	9.5	15.7
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	CS2	09:55:32	7.2	Bottom	3	1	20.04	8.53	30.86	96.8	7.33	9.9	15.0
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	CS2	09:54:51	7.2	Bottom	3	2	20.04	8.50	30.86	96.6	7.32	9.7	15.0
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	CS(Mf)5	07:58:32	1.0	Surface	1	1	20.30	8.35	28.12	94.3	7.21	8.6	4.4
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	CS(Mf)5	07:59:05	1.0	Surface	1	2	20.27	8.36	28.07	94.1	7.21	8.5	5.7
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	CS(Mf)5	07:58:23	6.3	Middle	2	1	20.39	8.34	28.44	94.1	7.20	8.6	5.7
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	CS(Mf)5	07:58:55	6.3	Middle	2	2	20.38	8.34	28.42	94.0	7.18	8.5	5.4
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	CS(Mf)5	07:58:16	11.5	Bottom	3	1	20.37	8.34	28.43	94.0	7.18	8.5	8.5
HKLR	HY/2011/03	2017-01-13	Mid-Flood	Rainy	CS(Mf)5	07:58:46	11.5	Bottom	3	2	20.38	8.34	28.43	93.8	7.17	8.5	7.3
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS5	14:15:46	1.0	Surface	1	1	18.92	8.28	28.38	87.5	6.87	8.6	10.5
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS5	14:18:01	1.0	Surface	1	2	18.92	8.28	28.38	94.7	7.44	8.8	9.1
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS5	14:15:38	4.8	Middle	2	1	18.92	8.28	28.37	87.4	6.86	8.8	10.2
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS5	14:17:48	4.8	Middle	2	2	18.91	8.28	28.38	91.2	7.16	8.6	10.7
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS5	14:17:32	8.5	Bottom	3	1	18.91	8.28	28.37	89.6	7.03	8.6	11.0
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS5	14:15:29	8.5	Bottom	3	2	18.91	8.28	28.38	87.2	6.85	8.6	12.8
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS(Mf)6	14:30:39	1.0	Surface	1	1	18.88	8.28	28.28	87.9	6.91	7.1	6.7
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS(Mf)6	14:30:58	1.0	Surface	1	2	18.88	8.28	28.29	87.8	6.90	7.2	7.8
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS(Mf)6	14:30:46	2.6	Bottom	3	1	18.88	8.28	28.31	87.8	6.90	7.0	10.9
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS(Mf)6	14:30:31	2.6	Bottom	3	2	18.88	8.28	28.30	87.9	6.91	7.0	12.4
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS7	14:41:20	1.0	Surface	1	1	19.00	8.29	28.21	90.8	7.12	5.5	9.6
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS7	14:41:01	1.0	Surface	1	2	19.01	8.29	28.19	92.1	7.23	5.6	9.1
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS7	14:40:53	2.4	Bottom	3	1	19.01	8.29	28.19	91.4	7.17	5.6	9.9
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS7	14:41:08	2.4	Bottom	3	2	19.01	8.29	28.20	90.2	7.07	5.6	10.9
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS8	15:04:57	1.0	Surface	1	1	19.21	8.30	28.29	89.0	6.95	7.7	10.8
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS8	15:04:46	1.0	Surface	1	2	19.19	8.30	28.27	89.0	6.96	7.8	10.8
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS8	15:04:52	3.1	Bottom	3	1	19.19	8.30	28.32	89.0	6.95	7.8	13.2

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS8	15:04:36	3.1	Bottom	3	2	19.19	8.30	28.31	89.0	6.96	7.9	13.7
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS(Mf)9	14:48:37	1.0	Surface	1	1	19.10	8.30	28.26	91.0	7.13	7.4	13.6
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS(Mf)9	14:48:51	1.0	Surface	1	2	19.10	8.30	28.28	90.0	7.04	7.3	12.0
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS(Mf)9	14:48:29	2.7	Bottom	3	1	19.09	8.30	28.26	91.8	7.19	7.5	14.0
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS(Mf)9	14:48:43	2.7	Bottom	3	2	19.10	8.30	28.31	90.5	7.08	7.7	13.3
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS10	15:36:36	1.0	Surface	1	1	19.14	8.40	31.91	89.8	6.87	6.6	11.4
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS10	15:37:01	1.0	Surface	1	2	19.14	8.41	31.92	89.9	6.88	6.6	10.1
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS10	15:36:50	5.4	Middle	2	1	19.15	8.41	31.93	89.5	6.85	6.9	10.8
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS10	15:36:16	5.4	Middle	2	2	19.15	8.40	31.94	89.8	6.87	7.2	12.1
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS10	15:36:10	9.7	Bottom	3	1	19.15	8.39	31.93	89.7	6.86	8.3	12.3
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	IS10	15:36:43	9.7	Bottom	3	2	19.14	8.41	31.92	90.0	6.89	6.7	13.2
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR3	14:06:11	0.7	Middle	2	1	18.92	8.29	28.03	90.5	7.12	7.8	9.6
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR3	14:06:04	0.7	Middle	2	2	18.92	8.29	28.00	91.2	7.18	7.8	11.1
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR4	14:57:22	1.0	Surface	1	1	19.18	8.30	28.25	90.8	7.10	7.6	11.0
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR4	14:57:41	1.0	Surface	1	2	19.19	8.30	28.26	90.0	7.04	7.8	9.6
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR4	14:57:30	2.9	Bottom	3	1	19.18	8.30	28.30	90.4	7.06	8.2	10.8
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR4	14:57:14	2.9	Bottom	3	2	19.18	8.30	28.27	91.3	7.13	8.1	11.2
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR5	15:26:46	1.0	Surface	1	1	19.14	8.39	31.92	89.9	6.88	6.7	10.8
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR5	15:26:29	1.0	Surface	1	2	19.14	8.38	31.92	91.3	6.99	6.5	11.5
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR5	15:26:37	4.4	Bottom	3	1	19.14	8.38	31.93	91.1	6.97	6.7	13.4
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR5	15:26:19	4.4	Bottom	3	2	19.14	8.38	31.93	91.2	6.98	6.5	14.5
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR10A	16:21:49	1.0	Surface	1	1	19.55	8.31	28.68	87.6	6.77	3.4	6.3
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR10A	16:21:24	1.0	Surface	1	2	19.55	8.31	28.67	87.6	6.78	3.4	7.9
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR10A	16:21:17	3.2	Middle	2	1	19.58	8.31	28.81	87.6	6.77	3.4	12.2
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR10A	16:21:43	3.2	Middle	2	2	19.59	8.31	28.80	87.4	6.76	3.4	11.5
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR10A	16:21:35	5.4	Bottom	3	1	19.57	8.31	28.85	87.3	6.76	3.4	12.3
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR10A	16:21:11	5.4	Bottom	3	2	19.56	8.31	28.84	87.4	6.77	3.4	11.9
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR10B	16:30:53	1.0	Surface	1	1	19.53	8.31	28.67	88.1	6.83	3.2	8.8
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR10B	16:31:21	1.0	Surface	1	2	19.53	8.31	28.67	88.1	6.83	3.2	7.0
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR10B	16:31:12	3.8	Bottom	3	1	19.56	8.31	28.75	88.3	6.83	3.2	9.2
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	SR10B	16:30:45	3.8	Bottom	3	2	19.52	8.31	28.69	88.1	6.82	3.2	10.4
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	CS2	14:12:59	1.0	Surface	1	1	19.17	8.31	31.71	96.0	7.35	7.1	11.1
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	CS2	14:13:32	1.0	Surface	1	2	19.17	8.34	31.71	92.8	7.11	7.4	10.0
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	CS2	14:12:49	3.9	Middle	2	1	19.17	8.30	31.80	96.7	7.41	7.7	12.2
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	CS2	14:13:14	3.9	Middle	2	2	19.16	8.33	31.87	93.2	7.13	8.0	10.4
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	CS2	14:12:43	6.8	Bottom	3	1	19.16	8.29	31.83	97.9	7.49	7.2	11.5
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	CS2	14:13:07	6.8	Bottom	3	2	19.16	8.32	31.84	94.3	7.22	7.3	12.0
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	CS(Mf)5	15:43:49	1.0	Surface	1	1	19.53	8.31	28.63	87.5	6.78	3.5	6.5
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	CS(Mf)5	15:42:58	1.0	Surface	1	2	19.55	8.31	28.63	87.8	6.79	3.6	7.7
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	CS(Mf)5	15:43:37	5.9	Middle	2	1	19.62	8.31	28.89	87.3	6.74	3.6	6.3
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	CS(Mf)5	15:42:48	5.9	Middle	2	2	19.62	8.31	28.85	87.6	6.78	3.6	7.2
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	CS(Mf)5	15:43:29	10.8	Bottom	3	1	19.63	8.31	28.93	87.2	6.74	3.8	10.1
HKLR	HY/2011/03	2017-01-16	Mid-Ebb	Fine	CS(Mf)5	15:42:39	10.8	Bottom	3	2	19.63	8.30	28.89	87.6	6.76	3.7	8.9
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS5	11:06:36	1.0	Surface	1	1	18.89	8.28	28.06	87.4	6.87	8.4	9.7
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS5	11:07:06	1.0	Surface	1	2	18.88	8.28	28.07	86.8	6.83	8.0	9.4
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS5	11:06:28	4.3	Middle	2	1	18.92	8.28	28.10	87.2	6.86	8.2	12.9
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS5	11:06:57	4.3	Middle	2	2	18.92	8.28	28.11	86.7	6.82	8.3	11.9
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS5	11:06:49	7.6	Bottom	3	1	18.91	8.28	28.11	86.7	6.81	8.3	12.4
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS5	11:06:20	7.6	Bottom	3	2	18.91	8.28	28.10	87.1	6.85	8.2	12.1
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS(Mf)6	10:59:25	1.0	Surface	1	1	18.89	8.28	28.00	90.1	7.09	7.4	8.4
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS(Mf)6	10:59:10	1.0	Surface	1	2	18.88	8.28	27.99	91.9	7.23	7.5	8.4
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS(Mf)6	10:59:01	2.2	Bottom	3	1	18.88	8.28	27.97	90.8	7.15	7.5	10.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS(Mf)6	10:59:16	2.2	Bottom	3	2	18.89	8.28	28.00	89.5	7.04	7.5	9.6
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS7	10:49:26	1.0	Surface	1	1	19.02	8.29	28.08	87.7	6.89	13.2	14.2
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS7	10:49:52	1.0	Surface	1	2	19.02	8.29	28.09	87.6	6.88	13.4	15.2
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS7	10:49:17	2.2	Bottom	3	1	19.02	8.29	28.08	87.8	6.89	13.4	16.8
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS7	10:49:46	2.2	Bottom	3	2	19.01	8.29	28.08	87.6	6.87	13.8	17.4
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS8	10:27:23	1.0	Surface	1	1	19.06	8.29	28.13	91.3	7.15	12.0	12.7
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS8	10:27:42	1.0	Surface	1	2	19.05	8.29	28.14	89.8	7.04	11.1	14.9
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS8	10:27:31	3.0	Bottom	3	1	19.06	8.29	28.15	90.5	7.09	12.1	18.5
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS8	10:27:17	3.0	Bottom	3	2	19.05	8.29	28.13	91.8	7.20	11.8	19.7
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS(Mf)9	10:43:16	1.0	Surface	1	1	19.02	8.29	28.06	89.1	6.99	13.5	18.2
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS(Mf)9	10:43:00	1.0	Surface	1	2	19.02	8.29	28.06	90.1	7.07	13.3	18.8
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS(Mf)9	10:42:51	2.6	Bottom	3	1	19.02	8.29	28.05	90.9	7.13	13.5	21.8
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS(Mf)9	10:43:09	2.6	Bottom	3	2	19.02	8.29	28.06	89.4	7.02	13.6	22.8
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS10	10:23:00	1.0	Surface	1	1	19.14	8.37	31.90	89.7	6.87	8.7	16.5
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS10	10:21:30	1.0	Surface	1	2	19.14	8.37	31.91	89.9	6.88	8.9	17.2
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS10	10:21:20	5.4	Middle	2	1	19.12	8.36	31.90	89.2	6.83	9.2	16.3
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS10	10:22:45	5.4	Middle	2	2	19.12	8.37	31.90	90.0	6.89	9.3	17.8
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS10	10:21:06	9.7	Bottom	3	1	19.13	8.37	31.90	90.3	6.91	9.3	17.5
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	IS10	10:22:38	9.7	Bottom	3	2	19.12	8.36	31.89	89.0	6.82	9.5	17.6
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR3	11:15:51	0.7	Middle	2	1	18.87	8.28	28.08	86.8	6.83	6.8	10.8
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR3	11:15:45	0.7	Middle	2	2	18.87	8.28	28.07	86.8	6.83	6.7	10.0
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR4	10:34:04	1.0	Surface	1	1	19.04	8.30	28.13	88.1	6.91	11.6	17.0
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR4	10:33:48	1.0	Surface	1	2	19.05	8.30	28.14	88.2	6.92	12.1	16.9
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR4	10:33:42	2.7	Bottom	3	1	19.05	8.30	28.16	88.3	6.92	11.7	19.8
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR4	10:33:55	2.7	Bottom	3	2	19.05	8.30	28.17	88.1	6.91	11.8	20.8
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR5	10:28:58	1.0	Surface	1	1	19.12	8.38	31.89	89.5	6.85	10.7	15.4
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR5	10:28:41	1.0	Surface	1	2	19.13	8.38	31.89	89.1	6.82	10.6	15.8
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR5	10:28:48	4.4	Bottom	3	1	19.12	8.38	31.89	89.1	6.83	10.7	16.1
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR5	10:28:28	4.4	Bottom	3	2	19.14	8.37	31.89	88.6	6.78	10.7	17.7
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR10A	09:32:40	1.0	Surface	1	1	19.41	8.31	28.60	89.6	6.96	4.4	8.4
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR10A	09:33:15	1.0	Surface	1	2	19.42	8.31	28.56	89.6	6.96	4.5	9.5
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR10A	09:33:07	3.2	Middle	2	1	19.42	8.31	28.58	89.6	6.96	4.4	13.1
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR10A	09:32:34	3.2	Middle	2	2	19.41	8.31	28.62	89.6	6.96	4.5	12.5
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR10A	09:32:24	5.4	Bottom	3	1	19.42	8.31	28.63	89.6	6.96	4.5	13.2
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR10A	09:32:58	5.4	Bottom	3	2	19.42	8.31	28.60	89.5	6.95	4.5	12.7
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR10B	09:21:42	1.0	Surface	1	1	19.42	8.31	28.88	90.5	7.02	4.4	8.6
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR10B	09:21:59	1.0	Surface	1	2	19.42	8.31	28.81	90.2	7.00	4.3	7.6
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR10B	09:21:49	4.0	Bottom	3	1	19.42	8.30	28.86	90.3	7.00	4.4	11.4
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	SR10B	09:21:32	4.0	Bottom	3	2	19.42	8.30	28.93	90.5	7.01	4.4	9.8
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	CS2	11:43:47	1.0	Surface	1	1	19.08	8.41	31.94	90.2	6.91	8.3	11.6
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	CS2	11:43:21	1.0	Surface	1	2	19.08	8.41	31.94	89.7	6.87	8.1	12.3
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	CS2	11:43:10	3.9	Middle	2	1	19.08	8.40	31.98	88.9	6.81	8.5	14.1
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	CS2	11:43:37	3.9	Middle	2	2	19.08	8.41	31.98	90.1	6.90	8.9	14.7
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	CS2	11:43:32	6.8	Bottom	3	1	19.08	8.41	31.97	89.2	6.83	8.8	14.7
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	CS2	11:43:05	6.8	Bottom	3	2	19.08	8.40	31.98	89.4	6.85	8.7	14.8
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	CS(Mf)5	09:59:36	1.0	Surface	1	1	19.41	8.31	28.49	88.9	6.91	7.5	11.0
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	CS(Mf)5	09:59:03	1.0	Surface	1	2	19.42	8.31	28.50	88.9	6.91	7.7	12.4
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	CS(Mf)5	09:59:25	6.2	Middle	2	1	19.42	8.31	28.51	88.8	6.89	7.8	12.6
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	CS(Mf)5	09:58:56	6.2	Middle	2	2	19.42	8.31	28.52	88.9	6.91	7.8	13.0
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	CS(Mf)5	09:58:48	11.4	Bottom	3	1	19.42	8.31	28.53	88.7	6.89	7.7	12.8
HKLR	HY/2011/03	2017-01-16	Mid-Flood	Fine	CS(Mf)5	09:59:16	11.4	Bottom	3	2	19.42	8.31	28.52	88.7	6.89	7.9	12.6
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS5	16:02:07	1.0	Surface	1	1	18.99	8.28	29.09	90.2	7.04	9.2	9.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS5	16:01:31	1.0	Surface	1	2	19.00	8.28	29.09	90.3	7.05	8.8	9.5
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS5	16:01:56	4.2	Middle	2	1	18.99	8.28	29.11	90.1	7.03	8.9	11.6
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS5	16:01:25	4.2	Middle	2	2	19.00	8.28	29.09	90.2	7.04	8.9	10.5
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS5	16:01:14	7.4	Bottom	3	1	18.99	8.28	29.11	90.2	7.04	8.8	11.5
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS5	16:01:41	7.4	Bottom	3	2	18.99	8.28	29.13	90.0	7.03	8.8	10.6
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS(Mf)6	16:11:49	1.0	Surface	1	1	18.95	8.27	28.94	89.8	7.02	8.7	8.7
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS(Mf)6	16:11:32	1.0	Surface	1	2	18.95	8.27	28.95	90.1	7.04	8.7	8.4
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS(Mf)6	16:11:40	2.2	Bottom	3	1	18.95	8.27	28.95	89.9	7.03	8.7	8.7
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS(Mf)6	16:11:27	2.2	Bottom	3	2	18.95	8.27	28.95	90.1	7.05	8.5	8.0
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS7	16:18:55	1.0	Surface	1	1	18.95	8.27	28.93	89.3	6.98	8.4	6.4
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS7	16:19:08	1.0	Surface	1	2	18.95	8.27	28.93	89.3	6.98	8.3	7.4
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS7	16:18:49	2.3	Bottom	3	1	18.95	8.27	28.93	89.3	6.98	8.6	8.9
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS7	16:19:00	2.3	Bottom	3	2	18.95	8.27	28.93	89.3	6.98	8.3	9.3
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS8	16:43:11	1.0	Surface	1	1	19.12	8.27	28.68	89.2	6.96	7.7	8.0
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS8	16:42:54	1.0	Surface	1	2	19.12	8.27	28.68	89.2	6.97	7.9	7.1
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS8	16:42:47	2.8	Bottom	3	1	19.12	8.27	28.68	89.2	6.96	8.3	8.6
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS8	16:43:04	2.8	Bottom	3	2	19.12	8.27	28.68	89.2	6.96	7.9	7.9
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS(Mf)9	16:25:30	1.0	Surface	1	1	18.97	8.27	28.63	90.5	7.08	9.8	12.2
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS(Mf)9	16:25:46	1.0	Surface	1	2	18.98	8.27	28.63	90.1	7.06	9.9	11.4
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS(Mf)9	16:25:23	2.7	Bottom	3	1	18.97	8.27	28.63	90.8	7.11	9.8	12.3
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS(Mf)9	16:25:38	2.7	Bottom	3	2	18.98	8.27	28.63	90.2	7.06	9.9	12.6
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS10	17:11:25	1.0	Surface	1	1	19.16	8.56	31.06	90.8	6.95	5.2	5.5
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS10	17:10:56	1.0	Surface	1	2	19.14	8.55	31.54	90.7	6.96	5.4	6.8
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS10	17:10:49	5.3	Middle	2	1	19.14	8.55	31.80	89.7	6.90	5.5	7.8
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS10	17:11:17	5.3	Middle	2	2	19.14	8.55	31.80	90.2	6.91	5.6	6.6
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS10	17:10:43	9.5	Bottom	3	1	19.15	8.54	31.84	89.8	6.88	5.5	7.7
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	IS10	17:11:08	9.5	Bottom	3	2	19.15	8.55	31.81	90.0	6.89	5.6	7.3
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR3	15:51:47	0.7	Middle	2	1	18.99	8.28	29.09	92.7	7.23	8.8	12.2
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR3	15:51:41	0.7	Middle	2	2	18.99	8.28	29.10	93.1	7.26	8.8	13.2
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR4	16:35:31	1.0	Surface	1	1	19.13	8.27	28.68	90.5	7.06	6.9	9.8
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR4	16:35:14	1.0	Surface	1	2	19.13	8.27	28.68	91.0	7.11	6.8	8.4
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR4	16:35:24	2.6	Bottom	3	1	19.13	8.27	28.69	90.7	7.08	7.0	8.5
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR4	16:35:07	2.6	Bottom	3	2	19.13	8.27	28.68	91.4	7.13	6.9	8.1
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR5	16:55:48	1.0	Surface	1	1	19.19	8.51	31.08	93.6	7.17	4.4	7.4
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR5	16:56:11	1.0	Surface	1	2	19.15	8.52	31.49	92.7	7.14	4.5	6.7
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR5	16:56:02	3.9	Bottom	3	1	19.15	8.51	31.77	91.6	7.08	4.8	7.7
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR5	16:55:37	3.9	Bottom	3	2	19.18	8.49	31.81	91.7	7.05	4.8	9.0
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR10A	17:56:38	1.0	Surface	1	1	19.36	8.29	28.75	87.9	6.81	3.5	4.3
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR10A	17:57:06	1.0	Surface	1	2	19.37	8.29	28.76	87.7	6.79	3.4	4.9
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR10A	17:56:30	3.2	Middle	2	1	19.43	8.29	28.87	87.6	6.81	3.4	4.0
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR10A	17:56:58	3.2	Middle	2	2	19.45	8.29	28.93	87.6	6.78	3.3	5.3
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR10A	17:56:22	5.4	Bottom	3	1	19.40	8.29	28.94	87.6	6.79	3.4	4.3
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR10A	17:56:51	5.4	Bottom	3	2	19.45	8.29	28.98	87.4	6.79	3.3	4.9
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR10B	18:06:49	1.0	Surface	1	1	19.33	8.29	28.71	88.3	6.86	3.5	4.6
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR10B	18:06:29	1.0	Surface	1	2	19.30	8.29	28.69	88.4	6.87	3.4	4.6
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR10B	18:06:18	4.0	Bottom	3	1	19.34	8.29	28.79	88.3	6.86	3.6	4.0
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	SR10B	18:06:36	4.0	Bottom	3	2	19.36	8.29	28.84	88.6	6.87	3.4	4.6
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	CS2	15:36:30	1.0	Surface	1	1	19.17	8.39	31.42	93.1	7.14	6.4	8.8
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	CS2	15:37:15	1.0	Surface	1	2	19.17	8.47	31.41	94.0	7.20	6.3	8.9
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	CS2	15:36:55	4.1	Middle	2	1	19.16	8.45	31.47	92.1	7.07	6.6	9.8
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	CS2	15:36:15	4.1	Middle	2	2	19.16	8.33	31.47	92.4	7.08	6.5	8.9
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	CS2	15:36:01	7.1	Bottom	3	1	19.16	8.23	31.51	91.6	7.02	6.7	10.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	CS2	15:36:42	7.1	Bottom	3	2	19.16	8.43	31.54	92.0	7.06	6.8	9.8
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	CS(Mf)5	17:22:48	1.0	Surface	1	1	19.38	8.29	28.75	87.8	6.79	3.4	4.2
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	CS(Mf)5	17:22:08	1.0	Surface	1	2	19.31	8.29	28.69	87.9	6.83	3.5	4.9
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	CS(Mf)5	17:21:52	6.0	Middle	2	1	19.48	8.28	29.05	88.0	6.81	3.6	5.5
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	CS(Mf)5	17:22:38	6.0	Middle	2	2	19.47	8.28	29.01	87.3	6.78	3.4	5.6
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	CS(Mf)5	17:21:44	11.0	Bottom	3	1	19.46	8.28	29.07	87.6	6.78	3.6	5.2
HKLR	HY/2011/03	2017-01-18	Mid-Ebb	Cloudy	CS(Mf)5	17:22:25	11.0	Bottom	3	2	19.47	8.28	29.09	87.3	6.76	3.6	4.8
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS5	12:18:42	1.0	Surface	1	1	18.93	8.26	28.61	89.5	7.01	6.8	7.8
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS5	12:18:16	1.0	Surface	1	2	18.92	8.26	28.61	89.6	7.02	6.8	8.2
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS5	12:18:33	4.4	Middle	2	1	18.93	8.26	28.62	89.3	7.00	6.9	8.8
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS5	12:18:07	4.4	Middle	2	2	18.92	8.26	28.62	89.5	7.02	6.9	7.8
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS5	12:18:00	7.7	Bottom	3	1	18.92	8.26	28.63	89.5	7.01	6.9	8.0
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS5	12:18:27	7.7	Bottom	3	2	18.93	8.26	28.62	89.3	7.00	6.9	7.5
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS(Mf)6	12:07:50	1.0	Surface	1	1	18.87	8.26	28.52	90.7	7.12	11.0	10.8
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS(Mf)6	12:07:35	1.0	Surface	1	2	18.87	8.26	28.52	90.8	7.13	11.2	11.4
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS(Mf)6	12:07:29	2.3	Bottom	3	1	18.87	8.26	28.52	90.7	7.12	11.1	11.1
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS(Mf)6	12:07:41	2.3	Bottom	3	2	18.87	8.26	28.52	90.7	7.12	11.3	11.2
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS7	11:59:16	1.0	Surface	1	1	18.89	8.26	28.50	92.1	7.23	10.7	11.4
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS7	11:59:30	1.0	Surface	1	2	18.90	8.26	28.50	91.7	7.19	10.5	10.6
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS7	11:59:23	2.3	Bottom	3	1	18.89	8.26	28.50	91.8	7.20	10.6	11.3
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS7	11:59:08	2.3	Bottom	3	2	18.87	8.26	28.51	92.4	7.25	10.9	11.0
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS8	11:35:22	1.0	Surface	1	1	19.05	8.25	28.44	89.1	6.98	19.5	12.6
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS8	11:35:07	1.0	Surface	1	2	19.04	8.25	28.44	89.3	6.99	19.4	13.7
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS8	11:35:15	3.1	Bottom	3	1	19.04	8.25	28.44	89.1	6.98	19.5	13.6
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS8	11:35:00	3.1	Bottom	3	2	19.03	8.25	28.44	89.5	7.01	19.6	13.2
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS(Mf)9	11:52:12	1.0	Surface	1	1	19.06	8.26	28.46	88.3	6.91	20.2	22.3
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS(Mf)9	11:51:56	1.0	Surface	1	2	19.03	8.26	28.46	88.3	6.91	20.6	22.5
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS(Mf)9	11:51:42	2.6	Bottom	3	1	19.04	8.26	28.46	88.3	6.91	20.5	22.9
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS(Mf)9	11:52:03	2.6	Bottom	3	2	19.03	8.26	28.46	88.2	6.91	20.4	23.2
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS10	11:36:51	1.0	Surface	1	1	19.07	8.45	31.84	90.3	6.98	7.5	9.4
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS10	11:36:12	1.0	Surface	1	2	19.07	8.44	31.88	90.6	6.95	7.4	9.4
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS10	11:35:59	5.4	Middle	2	1	19.07	8.43	31.86	89.5	6.86	7.6	9.5
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS10	11:36:35	5.4	Middle	2	2	19.07	8.44	31.88	89.5	6.86	7.8	8.7
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS10	11:36:26	9.7	Bottom	3	1	19.07	8.44	31.91	89.4	6.85	7.9	9.7
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	IS10	11:35:47	9.7	Bottom	3	2	19.07	8.43	31.87	89.2	6.84	7.7	10.0
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR3	12:26:29	0.7	Middle	2	1	18.93	8.26	28.62	89.4	7.01	7.1	8.9
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR3	12:26:23	0.7	Middle	2	2	18.93	8.26	28.62	89.4	7.01	6.8	9.5
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR4	11:41:40	1.0	Surface	1	1	19.04	8.25	28.45	88.5	6.93	20.4	14.4
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR4	11:41:26	1.0	Surface	1	2	19.05	8.26	28.45	88.6	6.93	20.0	15.2
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR4	11:41:17	2.9	Bottom	3	1	19.05	8.26	28.44	88.6	6.94	20.0	18.6
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR4	11:41:32	2.9	Bottom	3	2	19.04	8.25	28.45	88.5	6.93	20.1	19.0
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR5	11:44:32	1.0	Surface	1	1	19.08	8.47	31.85	89.2	6.84	7.3	7.4
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR5	11:44:46	1.0	Surface	1	2	19.07	8.47	31.86	89.4	6.85	7.3	7.6
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR5	11:44:26	4.0	Bottom	3	1	19.08	8.47	31.86	89.1	6.83	7.6	9.8
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR5	11:44:39	4.0	Bottom	3	2	19.08	8.47	31.85	89.1	6.83	7.5	10.1
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR10A	10:34:35	1.0	Surface	1	1	19.30	8.26	29.13	88.4	6.86	4.5	3.3
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR10A	10:35:22	1.0	Surface	1	2	19.31	8.26	29.02	88.4	6.86	4.4	4.2
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR10A	10:35:14	3.2	Middle	2	1	19.30	8.26	29.05	88.2	6.85	4.4	3.5
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR10A	10:34:29	3.2	Middle	2	2	19.30	8.26	29.17	88.4	6.86	4.4	3.2
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR10A	10:35:06	5.3	Bottom	3	1	19.30	8.26	29.08	88.2	6.84	4.6	4.9
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR10A	10:34:16	5.3	Bottom	3	2	19.30	8.26	29.20	88.4	6.86	4.5	4.7
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR10B	10:27:58	1.0	Surface	1	1	19.31	8.26	29.64	89.7	6.94	4.1	3.3

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR10B	10:27:42	1.0	Surface	1	2	19.31	8.26	29.81	90.0	6.95	4.4	3.4
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR10B	10:27:36	3.8	Bottom	3	1	19.31	8.26	29.89	90.1	6.96	4.3	2.9
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	SR10B	10:27:50	3.8	Bottom	3	2	19.31	8.26	29.72	89.8	6.94	4.4	4.1
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	CS2	13:08:15	1.0	Surface	1	1	19.10	8.49	31.96	91.1	6.98	11.4	19.6
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	CS2	13:07:37	1.0	Surface	1	2	19.09	8.46	31.96	91.4	7.00	11.4	20.3
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	CS2	13:07:59	4.2	Middle	2	1	19.09	8.48	31.96	90.8	6.95	11.6	19.0
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	CS2	13:07:25	4.2	Middle	2	2	19.09	8.45	31.96	90.6	6.94	11.5	19.0
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	CS2	13:07:10	7.3	Bottom	3	1	19.10	8.43	31.96	89.9	6.88	11.7	25.4
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	CS2	13:07:48	7.3	Bottom	3	2	19.09	8.48	31.96	89.9	6.88	11.8	24.3
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	CS(Mf)5	11:01:01	1.0	Surface	1	1	19.30	8.26	28.84	87.7	6.82	5.4	3.9
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	CS(Mf)5	11:00:26	1.0	Surface	1	2	19.30	8.26	28.86	87.9	6.83	5.7	2.5
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	CS(Mf)5	11:00:13	6.2	Middle	2	1	19.29	8.26	28.90	87.7	6.81	7.3	3.0
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	CS(Mf)5	11:00:50	6.2	Middle	2	2	19.29	8.26	28.87	87.6	6.81	7.2	3.7
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	CS(Mf)5	11:00:38	11.4	Bottom	3	1	19.29	8.26	28.88	87.6	6.80	7.3	3.4
HKLR	HY/2011/03	2017-01-18	Mid-Flood	Cloudy	CS(Mf)5	11:00:04	11.4	Bottom	3	2	19.29	8.26	28.91	87.6	6.80	7.2	3.3
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS5	07:04:45	1.0	Surface	1	1	19.20	8.27	28.59	90.3	7.04	8.1	13.2
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS5	07:03:49	1.0	Surface	1	2	19.18	8.26	28.59	90.6	7.07	8.5	12.2
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS5	07:03:34	4.2	Middle	2	1	19.18	8.26	28.58	90.8	7.08	8.4	12.1
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS5	07:04:27	4.2	Middle	2	2	19.20	8.27	28.59	90.2	7.03	8.2	12.8
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS5	07:04:19	7.3	Bottom	3	1	19.20	8.27	28.59	90.2	7.03	8.1	13.8
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS5	07:03:26	7.3	Bottom	3	2	19.18	8.26	28.58	91.0	7.10	8.4	12.0
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS(Mf)6	06:51:19	1.0	Surface	1	1	19.17	8.27	28.62	91.5	7.14	8.5	7.6
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS(Mf)6	06:51:01	1.0	Surface	1	2	19.15	8.27	28.63	91.5	7.14	8.8	7.0
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS(Mf)6	06:51:11	2.2	Bottom	3	1	19.16	8.27	28.63	91.4	7.13	8.6	8.6
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS(Mf)6	06:50:54	2.2	Bottom	3	2	19.16	8.27	28.63	91.6	7.14	8.7	7.9
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS7	06:43:52	1.0	Surface	1	1	19.17	8.27	28.59	93.4	7.29	7.2	6.2
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS7	06:43:42	1.0	Surface	1	2	19.18	8.27	28.58	93.9	7.33	6.9	7.2
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS7	06:43:37	2.4	Bottom	3	1	19.18	8.27	28.58	94.2	7.35	7.0	7.4
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS7	06:43:47	2.4	Bottom	3	2	19.18	8.27	28.59	93.7	7.31	7.0	8.0
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS8	06:17:55	1.0	Surface	1	1	19.17	8.26	28.49	95.7	7.47	8.5	11.9
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS8	06:17:44	1.0	Surface	1	2	19.17	8.26	28.46	97.3	7.59	8.5	10.8
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS8	06:17:49	2.7	Bottom	3	1	19.17	8.26	28.47	96.5	7.54	8.5	13.7
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS8	06:17:36	2.7	Bottom	3	2	19.17	8.26	28.44	98.7	7.71	8.6	12.6
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS(Mf)9	06:36:45	1.0	Surface	1	1	19.18	8.26	28.60	91.9	7.17	8.1	10.7
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS(Mf)9	06:36:59	1.0	Surface	1	2	19.18	8.26	28.60	91.8	7.16	8.0	10.8
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS(Mf)9	06:36:38	2.5	Bottom	3	1	19.18	8.26	28.60	91.9	7.17	8.2	11.0
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS(Mf)9	06:36:51	2.5	Bottom	3	2	19.18	8.26	28.60	91.8	7.16	8.0	11.2
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS10	06:30:43	1.0	Surface	1	1	19.16	8.57	30.26	94.0	7.25	3.5	5.9
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS10	06:31:11	1.0	Surface	1	2	19.16	8.57	30.26	94.2	7.28	3.6	5.1
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS10	06:30:35	5.6	Middle	2	1	19.22	8.57	30.45	93.8	7.23	3.6	4.5
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS10	06:31:01	5.6	Middle	2	2	19.24	8.56	30.50	93.6	7.19	3.6	5.8
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS10	06:30:27	10.1	Bottom	3	1	19.27	8.56	30.80	92.9	7.16	3.6	7.1
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	IS10	06:30:54	10.1	Bottom	3	2	19.26	8.56	30.76	93.4	7.19	3.6	7.6
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR3	07:12:59	0.8	Middle	2	1	19.20	8.27	28.60	90.3	7.04	7.7	11.4
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR3	07:13:07	0.8	Middle	2	2	19.20	8.27	28.60	90.2	7.04	7.9	13.0
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR4	06:26:59	1.0	Surface	1	1	19.17	8.26	28.56	92.4	7.21	8.7	10.7
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR4	06:27:34	1.0	Surface	1	2	19.18	8.26	28.58	92.0	7.18	8.5	11.5
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR4	06:26:52	2.7	Bottom	3	1	19.17	8.26	28.56	92.4	7.21	8.6	11.1
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR4	06:27:23	2.7	Bottom	3	2	19.17	8.26	28.58	91.9	7.17	7.9	10.8
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR5	06:36:53	1.0	Surface	1	1	19.16	8.55	30.30	93.7	7.23	3.3	6.0
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR5	06:36:31	1.0	Surface	1	2	19.19	8.55	30.39	94.1	7.26	3.5	7.2
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR5	06:36:20	4.0	Bottom	3	1	19.23	8.55	30.60	94.1	7.25	3.5	7.0

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR5	06:36:39	4.0	Bottom	3	2	19.21	8.55	30.62	93.6	7.22	3.5	7.9
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR10A	04:55:16	1.0	Surface	1	1	19.29	8.25	28.26	91.9	7.17	2.6	3.9
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR10A	04:54:48	1.0	Surface	1	2	19.28	8.24	28.32	91.8	7.16	2.4	3.3
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR10A	04:54:34	3.3	Middle	2	1	19.39	8.24	28.40	91.6	7.12	2.5	4.2
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR10A	04:55:04	3.3	Middle	2	2	19.35	8.24	28.31	91.8	7.15	2.6	4.3
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR10A	04:54:25	5.6	Bottom	3	1	19.45	8.24	28.58	91.9	7.13	2.6	4.3
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR10A	04:54:54	5.6	Bottom	3	2	19.32	8.24	28.42	91.9	7.16	2.5	4.0
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR10B	04:41:52	1.0	Surface	1	1	19.30	8.23	28.75	93.5	7.27	2.6	3.9
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR10B	04:41:35	1.0	Surface	1	2	19.32	8.23	28.90	94.5	7.34	2.7	4.8
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR10B	04:41:27	4.1	Bottom	3	1	19.36	8.22	29.06	95.3	7.39	2.7	4.0
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	SR10B	04:41:42	4.1	Bottom	3	2	19.35	8.23	28.90	94.1	7.31	2.8	4.1
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	CS2	07:18:59	1.0	Surface	1	1	19.17	8.58	30.28	99.7	7.65	3.7	7.3
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	CS2	07:19:20	1.0	Surface	1	2	19.27	8.58	30.64	95.3	7.33	3.8	7.2
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	CS2	07:19:14	4.2	Middle	2	1	19.30	8.57	30.82	95.3	7.32	3.8	6.7
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	CS2	07:18:51	4.2	Middle	2	2	19.22	8.58	30.42	98.5	7.59	3.8	6.8
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	CS2	07:18:42	7.4	Bottom	3	1	19.29	8.57	30.85	97.8	7.56	3.9	7.5
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	CS2	07:19:09	7.4	Bottom	3	2	19.26	8.57	30.76	95.2	7.32	3.9	6.7
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	CS(Mf)5	05:32:10	1.0	Surface	1	1	19.33	8.26	28.10	90.2	7.03	2.6	4.0
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	CS(Mf)5	05:32:59	1.0	Surface	1	2	19.30	8.26	28.02	90.4	7.06	2.6	4.1
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	CS(Mf)5	05:31:59	6.8	Middle	2	1	19.49	8.25	28.51	90.3	7.00	2.7	5.7
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	CS(Mf)5	05:32:42	6.8	Middle	2	2	19.50	8.26	28.47	90.0	6.98	2.8	5.0
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	CS(Mf)5	05:31:53	12.5	Bottom	3	1	19.42	8.25	28.49	90.7	7.04	2.6	7.5
HKLR	HY/2011/03	2017-01-20	Mid-Ebb	Fine	CS(Mf)5	05:32:33	12.5	Bottom	3	2	19.53	8.26	28.71	90.7	7.03	2.5	6.4
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS5	11:35:31	1.0	Surface	1	1	19.24	8.30	27.65	91.9	7.20	8.1	9.4
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS5	11:36:20	1.0	Surface	1	2	19.22	8.30	27.82	91.6	7.17	8.7	10.7
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS5	11:35:22	4.2	Middle	2	1	19.23	8.30	27.65	91.8	7.19	8.3	9.8
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS5	11:36:10	4.2	Middle	2	2	19.22	8.30	27.82	91.4	7.16	9.0	10.2
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS5	11:35:15	7.4	Bottom	3	1	19.23	8.30	27.63	91.8	7.20	8.4	10.6
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS5	11:36:01	7.4	Bottom	3	2	19.23	8.30	27.81	91.6	7.17	8.0	10.4
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS(Mf)6	11:46:34	1.0	Surface	1	1	19.30	8.28	28.25	95.5	7.44	5.6	7.5
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS(Mf)6	11:46:51	1.0	Surface	1	2	19.32	8.28	28.26	94.4	7.36	5.8	7.0
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS(Mf)6	11:46:26	2.3	Bottom	3	1	19.29	8.29	28.25	96.2	7.50	5.5	7.6
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS(Mf)6	11:46:40	2.3	Bottom	3	2	19.31	8.28	28.26	95.0	7.41	5.6	7.7
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS7	11:54:25	1.0	Surface	1	1	19.32	8.28	28.35	92.9	7.24	5.8	6.6
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS7	11:54:08	1.0	Surface	1	2	19.31	8.29	28.35	92.9	7.24	6.1	6.7
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS7	11:54:17	2.3	Bottom	3	1	19.29	8.29	28.37	92.8	7.23	5.9	8.0
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS7	11:54:01	2.3	Bottom	3	2	19.32	8.29	28.34	93.0	7.24	6.1	6.9
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS8	12:21:02	1.0	Surface	1	1	19.48	8.29	27.53	94.4	7.37	4.9	5.2
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS8	12:21:16	1.0	Surface	1	2	19.49	8.29	27.54	94.4	7.37	4.8	5.6
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS8	12:21:09	2.8	Bottom	3	1	19.49	8.29	27.54	94.3	7.36	4.8	6.1
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS8	12:20:54	2.8	Bottom	3	2	19.45	8.29	27.54	94.3	7.36	5.2	6.0
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS(Mf)9	12:01:20	1.0	Surface	1	1	19.42	8.30	27.05	96.6	7.57	4.8	4.0
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS(Mf)9	12:01:09	1.0	Surface	1	2	19.42	8.30	26.98	97.5	7.65	4.7	4.1
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS(Mf)9	12:01:14	2.6	Bottom	3	1	19.43	8.30	27.01	97.0	7.60	4.8	4.1
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS(Mf)9	12:01:03	2.6	Bottom	3	2	19.41	8.30	26.94	98.2	7.70	4.7	4.0
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS10	12:27:08	1.0	Surface	1	1	19.38	8.57	31.29	91.2	6.98	4.1	7.2
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS10	12:26:08	1.0	Surface	1	2	19.37	8.57	31.34	92.5	7.07	4.1	6.3
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS10	12:26:58	5.6	Middle	2	1	19.34	8.56	31.38	90.2	6.90	4.3	7.0
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS10	12:26:02	5.6	Middle	2	2	19.34	8.57	31.46	92.3	7.06	4.1	5.7
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS10	12:25:52	10.2	Bottom	3	1	19.32	8.56	31.76	92.1	7.03	4.5	7.3
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	IS10	12:26:45	10.2	Bottom	3	2	19.32	8.54	31.73	89.7	6.85	4.4	8.0
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR3	11:24:26	0.8	Middle	2	1	19.23	8.32	26.77	96.7	7.62	7.9	11.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR3	11:24:18	0.8	Middle	2	2	19.24	8.32	26.66	97.9	7.71	8.0	10.1
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR4	12:12:44	1.0	Surface	1	1	19.44	8.29	27.40	94.5	7.38	4.9	5.8
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR4	12:12:30	1.0	Surface	1	2	19.44	8.29	27.36	94.5	7.39	4.8	5.5
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR4	12:12:38	2.8	Bottom	3	1	19.43	8.29	27.40	94.3	7.37	5.0	6.0
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR4	12:12:22	2.8	Bottom	3	2	19.40	8.29	27.38	94.4	7.39	5.0	6.8
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR5	12:19:53	1.0	Surface	1	1	19.36	8.57	31.43	93.1	7.11	4.4	8.1
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR5	12:20:22	1.0	Surface	1	2	19.39	8.57	31.31	94.5	7.23	4.2	7.3
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR5	12:20:08	4.1	Bottom	3	1	19.36	8.57	31.35	93.4	7.14	4.4	9.8
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR5	12:19:45	4.1	Bottom	3	2	19.34	8.56	31.61	92.7	7.09	4.4	8.5
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR10A	13:52:13	1.0	Surface	1	1	19.56	8.29	28.50	88.3	6.84	2.5	4.4
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR10A	13:51:38	1.0	Surface	1	2	19.55	8.29	28.58	87.4	6.77	2.7	3.0
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR10A	13:51:29	3.4	Middle	2	1	19.51	8.29	28.98	87.0	6.73	2.8	3.7
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR10A	13:52:01	3.4	Middle	2	2	19.52	8.29	28.91	87.3	6.76	3.0	4.0
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR10A	13:51:51	5.8	Bottom	3	1	19.52	8.29	29.01	87.8	6.79	3.6	5.5
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR10A	13:51:24	5.8	Bottom	3	2	19.51	8.29	29.08	87.3	6.75	3.4	4.2
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR10B	14:03:35	1.0	Surface	1	1	19.56	8.29	28.55	89.2	6.91	2.3	2.8
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR10B	14:03:52	1.0	Surface	1	2	19.55	8.29	28.59	88.9	6.89	2.3	2.6
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR10B	14:03:43	4.3	Bottom	3	1	19.54	8.29	28.88	89.3	6.90	2.4	2.7
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	SR10B	14:03:25	4.3	Bottom	3	2	19.54	8.29	28.85	89.4	6.92	2.6	3.5
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	CS2	11:23:46	1.0	Surface	1	1	19.36	8.56	30.28	94.8	7.30	4.2	3.5
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	CS2	11:23:17	1.0	Surface	1	2	19.39	8.57	30.25	100.0	7.65	4.1	3.6
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	CS2	11:23:38	4.0	Middle	2	1	19.32	8.56	30.36	94.7	7.23	4.2	3.0
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	CS2	11:23:04	4.0	Middle	2	2	19.36	8.58	30.28	97.0	7.47	4.2	3.4
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	CS2	11:22:51	7.0	Bottom	3	1	19.37	8.59	31.29	96.8	7.44	4.2	3.4
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	CS2	11:23:32	7.0	Bottom	3	2	19.37	8.55	31.57	94.0	7.23	4.4	4.3
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	CS(Mf)5	13:13:36	1.0	Surface	1	1	19.55	8.29	28.50	88.0	6.82	3.1	3.2
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	CS(Mf)5	13:12:55	1.0	Surface	1	2	19.54	8.29	28.53	88.2	6.84	3.4	2.7
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	CS(Mf)5	13:12:41	6.8	Middle	2	1	19.51	8.29	29.08	87.7	6.78	5.3	3.1
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	CS(Mf)5	13:13:18	6.8	Middle	2	2	19.51	8.29	29.08	87.4	6.76	5.9	3.1
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	CS(Mf)5	13:12:30	12.6	Bottom	3	1	19.51	8.29	29.06	88.6	6.85	5.0	3.0
HKLR	HY/2011/03	2017-01-20	Mid-Flood	Fine	CS(Mf)5	13:13:08	12.6	Bottom	3	2	19.52	8.29	29.04	88.3	6.82	5.2	3.0
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS5	11:07:44	1.0	Surface	1	1	19.06	8.28	28.84	92.5	7.22	4.8	5.0
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS5	11:08:47	1.0	Surface	1	2	19.07	8.28	28.83	92.6	7.23	4.9	4.4
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS5	11:08:31	4.1	Middle	2	1	19.03	8.29	28.86	92.4	7.22	5.0	5.8
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS5	11:07:38	4.1	Middle	2	2	19.03	8.29	28.86	92.4	7.21	5.2	4.3
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS5	11:08:05	7.1	Bottom	3	1	19.05	8.29	28.91	92.4	7.21	5.1	5.2
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS5	11:07:20	7.1	Bottom	3	2	19.10	8.29	28.97	92.3	7.20	5.1	4.7
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS(Mf)6	10:58:38	1.0	Surface	1	1	19.06	8.28	28.81	94.6	7.39	3.9	4.7
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS(Mf)6	10:58:26	1.0	Surface	1	2	19.06	8.28	28.81	95.5	7.46	3.7	4.5
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS(Mf)6	10:58:20	2.2	Bottom	3	1	19.06	8.28	28.80	96.1	7.51	3.7	4.7
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS(Mf)6	10:58:30	2.2	Bottom	3	2	19.06	8.28	28.81	95.1	7.42	3.7	3.8
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS7	10:50:27	1.0	Surface	1	1	19.05	8.29	28.84	94.0	7.34	2.8	3.7
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS7	10:50:41	1.0	Surface	1	2	19.06	8.29	28.84	93.9	7.33	2.9	4.1
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS7	10:50:34	2.3	Bottom	3	1	19.06	8.29	28.86	94.0	7.34	2.8	3.4
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS7	10:50:20	2.3	Bottom	3	2	19.05	8.29	28.84	93.9	7.33	2.8	3.5
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS8	10:22:33	1.0	Surface	1	1	19.18	8.29	28.94	91.8	7.15	8.6	4.8
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS8	10:22:18	1.0	Surface	1	2	19.21	8.29	28.99	91.8	7.14	8.8	4.7
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS8	10:22:10	3.1	Bottom	3	1	19.20	8.29	29.06	92.0	7.15	8.7	4.2
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS8	10:22:23	3.1	Bottom	3	2	19.21	8.29	29.09	91.9	7.14	8.6	4.5
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS(Mf)9	10:45:23	1.0	Surface	1	1	19.09	8.28	28.85	93.1	7.26	3.4	3.1
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS(Mf)9	10:45:37	1.0	Surface	1	2	19.09	8.28	28.85	92.9	7.25	3.3	3.4
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS(Mf)9	10:45:16	2.5	Bottom	3	1	19.09	8.28	28.90	93.2	7.27	3.6	3.4

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS(Mf)9	10:45:30	2.5	Bottom	3	2	19.10	8.28	28.93	93.2	7.26	3.5	3.0
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS10	09:35:37	1.0	Surface	1	1	19.18	8.43	32.94	89.6	6.81	5.4	6.3
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS10	09:34:44	1.0	Surface	1	2	19.17	8.44	32.95	89.2	6.78	5.5	5.2
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS10	09:35:08	5.5	Middle	2	1	19.18	8.44	32.94	88.9	6.76	5.6	5.4
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS10	09:34:19	5.5	Middle	2	2	19.17	8.43	32.94	88.9	6.76	5.7	5.4
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS10	09:34:07	9.9	Bottom	3	1	19.17	8.43	32.94	88.7	6.74	5.9	6.2
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	IS10	09:34:54	9.9	Bottom	3	2	19.17	8.44	32.94	88.6	6.74	5.8	6.2
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR3	11:15:54	0.7	Middle	2	1	19.09	8.28	28.83	92.7	7.23	3.6	5.4
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR3	11:16:03	0.7	Middle	2	2	19.10	8.28	28.83	92.7	7.23	3.5	4.4
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR4	10:34:16	1.0	Surface	1	1	19.16	8.29	28.93	92.0	7.16	5.7	2.2
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR4	10:33:59	1.0	Surface	1	2	19.19	8.29	28.98	91.9	7.15	5.4	2.1
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR4	10:34:05	2.7	Bottom	3	1	19.23	8.29	29.11	92.0	7.15	5.8	4.5
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR4	10:33:49	2.7	Bottom	3	2	19.28	8.29	29.15	92.2	7.15	5.8	3.7
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR5	09:51:33	1.0	Surface	1	1	19.18	8.46	32.93	89.3	6.79	5.2	4.6
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR5	09:51:12	1.0	Surface	1	2	19.19	8.46	32.93	89.1	6.77	5.3	5.1
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR5	09:51:23	4.4	Bottom	3	1	19.18	8.46	32.93	88.9	6.76	5.4	5.6
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR5	09:51:02	4.4	Bottom	3	2	19.18	8.46	32.93	88.9	6.76	5.4	5.3
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR10A	09:13:26	1.0	Surface	1	1	19.36	8.29	30.33	87.3	6.72	2.4	3.6
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR10A	09:14:16	1.0	Surface	1	2	19.36	8.29	30.25	87.3	6.72	2.5	3.1
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR10A	09:13:13	3.2	Middle	2	1	19.36	8.29	30.36	87.3	6.72	2.4	2.9
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR10A	09:14:04	3.2	Middle	2	2	19.36	8.29	30.27	87.2	6.71	2.6	3.8
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR10A	09:13:02	5.3	Bottom	3	1	19.36	8.29	30.39	87.3	6.71	2.5	3.7
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR10A	09:13:43	5.3	Bottom	3	2	19.36	8.29	30.30	87.1	6.70	2.6	4.0
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR10B	09:02:22	1.0	Surface	1	1	19.36	8.28	31.10	88.1	6.75	2.2	4.2
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR10B	09:01:53	1.0	Surface	1	2	19.36	8.28	31.38	88.6	6.78	2.2	3.5
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR10B	09:02:13	4.3	Bottom	3	1	19.36	8.28	31.19	88.1	6.74	2.4	4.1
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	SR10B	09:01:45	4.3	Bottom	3	2	19.36	8.28	31.48	88.8	6.79	2.3	3.1
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	CS2	11:22:43	1.0	Surface	1	1	19.06	8.48	32.76	95.1	7.26	3.2	5.0
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	CS2	11:23:31	1.0	Surface	1	2	19.08	8.49	32.76	94.7	7.23	3.2	4.2
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	CS2	11:23:15	4.1	Middle	2	1	19.02	8.49	32.77	94.3	7.19	3.3	4.6
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	CS2	11:22:30	4.1	Middle	2	2	18.99	8.47	32.77	94.1	7.18	3.4	3.7
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	CS2	11:23:05	7.1	Bottom	3	1	18.99	8.48	32.77	93.8	7.16	3.5	4.7
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	CS2	11:22:17	7.1	Bottom	3	2	19.00	8.46	32.79	93.3	7.12	3.6	5.3
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	CS(Mf)5	09:50:22	1.0	Surface	1	1	19.35	8.29	30.11	86.9	6.70	2.8	4.5
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	CS(Mf)5	09:50:54	1.0	Surface	1	2	19.35	8.29	30.09	86.9	6.70	2.9	4.4
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	CS(Mf)5	09:50:45	6.0	Middle	2	1	19.35	8.29	30.09	86.7	6.68	2.9	3.7
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	CS(Mf)5	09:50:11	6.0	Middle	2	2	19.35	8.29	30.12	86.6	6.67	2.8	4.7
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	CS(Mf)5	09:50:04	11.0	Bottom	3	1	19.35	8.29	30.12	86.6	6.67	2.9	4.6
HKLR	HY/2011/03	2017-01-23	Mid-Ebb	Fine	CS(Mf)5	09:50:34	11.0	Bottom	3	2	19.35	8.29	30.10	86.6	6.68	2.9	4.4
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS5	13:52:34	1.0	Surface	1	1	19.30	8.29	27.66	91.2	7.13	4.4	4.8
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS5	13:52:12	1.0	Surface	1	2	19.32	8.29	27.59	91.6	7.18	4.6	5.5
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS5	13:52:27	4.1	Middle	2	1	19.26	8.29	27.68	91.1	7.13	4.5	4.7
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS5	13:52:04	4.1	Middle	2	2	19.25	8.29	27.62	91.2	7.15	4.5	4.8
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS5	13:52:21	7.1	Bottom	3	1	19.29	8.29	27.65	90.9	7.12	4.5	4.8
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS5	13:51:52	7.1	Bottom	3	2	19.24	8.29	27.60	91.3	7.14	4.5	4.9
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS(Mf)6	14:02:05	1.0	Surface	1	1	19.48	8.29	27.93	95.3	7.42	4.2	4.6
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS(Mf)6	14:02:18	1.0	Surface	1	2	19.47	8.29	27.94	95.1	7.41	4.2	4.0
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS(Mf)6	14:02:11	2.3	Bottom	3	1	19.45	8.29	27.93	95.0	7.41	4.2	4.0
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS(Mf)6	14:01:58	2.3	Bottom	3	2	19.48	8.29	27.91	95.3	7.42	4.2	3.8
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS7	14:13:28	1.0	Surface	1	1	19.83	8.29	27.95	97.4	7.54	2.8	2.4
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS7	14:13:43	1.0	Surface	1	2	19.69	8.29	27.97	97.2	7.54	2.9	3.4
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS7	14:13:34	3.1	Bottom	3	1	19.62	8.29	27.81	96.6	7.51	2.8	3.9

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS7	14:13:19	3.1	Bottom	3	2	19.65	8.29	27.78	96.9	7.53	2.9	2.7
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS8	14:40:58	1.0	Surface	1	1	19.40	8.32	28.60	95.1	7.39	6.5	8.0
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS8	14:41:14	1.0	Surface	1	2	19.41	8.32	28.59	95.1	7.38	6.5	7.6
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS8	14:40:51	3.1	Bottom	3	1	19.42	8.32	28.59	95.2	7.39	6.5	7.5
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS8	14:41:06	3.1	Bottom	3	2	19.40	8.32	28.60	95.0	7.38	6.6	8.3
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS(Mf)9	14:24:37	1.0	Surface	1	1	19.50	8.29	28.19	93.0	7.23	7.1	9.1
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS(Mf)9	14:25:06	1.0	Surface	1	2	19.53	8.29	28.19	92.2	7.16	6.9	8.3
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS(Mf)9	14:24:56	3.0	Bottom	3	1	19.36	8.28	28.45	92.2	7.18	7.1	10.0
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS(Mf)9	14:24:27	3.0	Bottom	3	2	19.43	8.29	28.35	93.2	7.25	7.1	8.9
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS10	15:52:05	1.0	Surface	1	1	19.51	8.52	32.85	93.0	7.03	3.2	4.2
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS10	15:52:56	1.0	Surface	1	2	19.44	8.52	32.90	92.9	7.05	3.3	5.1
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS10	15:51:45	5.6	Middle	2	1	19.35	8.52	32.91	92.3	7.01	3.3	5.7
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS10	15:52:46	5.6	Middle	2	2	19.27	8.52	32.94	92.7	7.01	3.3	4.0
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS10	15:51:33	10.1	Bottom	3	1	19.28	8.52	32.92	92.0	6.99	3.5	5.1
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	IS10	15:52:32	10.1	Bottom	3	2	19.24	8.51	32.94	92.1	6.98	3.5	5.0
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR3	13:41:14	0.7	Middle	2	1	19.44	8.32	26.78	93.9	7.37	4.4	5.5
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR3	13:41:10	0.7	Middle	2	2	19.47	8.32	26.72	93.7	7.35	4.3	5.1
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR4	14:33:32	1.0	Surface	1	1	19.56	8.32	28.55	96.5	7.47	6.0	5.6
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR4	14:33:49	1.0	Surface	1	2	19.61	8.32	28.55	96.4	7.46	5.9	6.7
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR4	14:33:24	2.7	Bottom	3	1	19.61	8.32	28.56	96.7	7.48	5.9	8.5
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR4	14:33:38	2.7	Bottom	3	2	19.55	8.32	28.58	96.5	7.47	5.9	9.2
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR5	15:39:11	1.0	Surface	1	1	19.44	8.49	32.88	94.0	7.12	3.3	4.4
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR5	15:38:43	1.0	Surface	1	2	19.34	8.47	32.93	94.4	7.16	3.3	3.9
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR5	15:38:32	4.4	Bottom	3	1	19.33	8.46	32.90	92.4	7.01	3.4	4.2
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR5	15:38:56	4.4	Bottom	3	2	19.25	8.48	32.93	93.1	7.04	3.4	4.4
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR10A	15:57:21	1.0	Surface	1	1	19.66	8.32	28.83	92.1	7.15	2.7	4.4
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR10A	15:56:42	1.0	Surface	1	2	19.58	8.32	28.85	93.0	7.20	2.7	4.0
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR10A	15:56:35	3.2	Middle	2	1	19.40	8.31	28.86	93.0	7.19	2.7	5.1
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR10A	15:57:12	3.2	Middle	2	2	19.39	8.31	28.89	92.4	7.14	2.7	5.0
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR10A	15:57:01	5.3	Bottom	3	1	19.33	8.30	29.02	91.5	7.09	2.8	5.6
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR10A	15:56:25	5.3	Bottom	3	2	19.49	8.32	28.86	92.5	7.17	2.9	5.8
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR10B	16:06:33	1.0	Surface	1	1	19.65	8.32	28.82	93.6	7.23	2.8	6.2
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR10B	16:06:59	1.0	Surface	1	2	19.61	8.31	28.87	93.3	7.21	2.8	4.6
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR10B	16:06:23	4.0	Bottom	3	1	19.51	8.32	28.84	93.2	7.21	2.8	5.6
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	SR10B	16:06:52	4.0	Bottom	3	2	19.43	8.31	28.91	93.1	7.22	2.7	6.7
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	CS2	14:22:26	1.0	Surface	1	1	19.17	8.55	32.45	97.8	7.46	3.2	3.8
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	CS2	14:21:58	1.0	Surface	1	2	19.19	8.54	32.56	98.4	7.50	3.1	3.4
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	CS2	14:22:17	4.2	Middle	2	1	19.05	8.54	32.74	97.4	7.43	3.3	4.9
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	CS2	14:21:46	4.2	Middle	2	2	19.10	8.52	32.73	97.5	7.43	3.4	4.5
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	CS2	14:22:08	7.3	Bottom	3	1	19.11	8.54	32.66	95.0	7.24	3.5	4.5
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	CS2	14:21:33	7.3	Bottom	3	2	19.02	8.47	32.78	94.8	7.24	3.5	4.1
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	CS(Mf)5	15:23:00	1.0	Surface	1	1	19.59	8.31	28.89	89.9	6.96	4.4	4.3
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	CS(Mf)5	15:22:27	1.0	Surface	1	2	19.49	8.31	28.93	89.9	6.96	4.4	4.6
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	CS(Mf)5	15:22:50	6.2	Middle	2	1	19.33	8.30	29.04	89.8	6.94	4.5	3.5
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	CS(Mf)5	15:22:16	6.2	Middle	2	2	19.34	8.30	29.02	89.8	6.95	4.6	4.3
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	CS(Mf)5	15:22:08	11.4	Bottom	3	1	19.43	8.30	28.96	89.3	6.92	4.8	4.4
HKLR	HY/2011/03	2017-01-23	Mid-Flood	Fine	CS(Mf)5	15:22:40	11.4	Bottom	3	2	19.37	8.30	29.01	89.0	6.91	4.5	5.0
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS5	12:32:12	1.0	Surface	1	1	19.14	8.12	28.70	99.8	7.79	5.5	4.9
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS5	12:32:42	1.0	Surface	1	2	19.17	8.13	28.70	99.8	7.78	5.4	5.5
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS5	12:32:33	4.2	Middle	2	1	19.15	8.12	28.71	99.6	7.77	5.5	6.8
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS5	12:32:05	4.2	Middle	2	2	19.11	8.12	28.71	99.8	7.78	5.5	5.8
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS5	12:31:55	7.4	Bottom	3	1	19.12	8.12	28.70	99.7	7.78	5.4	7.0

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS5	12:32:22	7.4	Bottom	3	2	19.12	8.12	28.71	99.5	7.77	5.5	6.1
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS(Mf)6	12:21:59	1.0	Surface	1	1	19.03	8.12	28.70	99.4	7.77	7.1	7.2
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS(Mf)6	12:22:14	1.0	Surface	1	2	19.04	8.12	28.71	99.0	7.74	7.0	7.3
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS(Mf)6	12:22:05	2.3	Bottom	3	1	19.02	8.12	28.70	99.2	7.75	7.1	7.4
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS(Mf)6	12:21:53	2.3	Bottom	3	2	19.03	8.12	28.69	99.6	7.79	7.0	7.2
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS7	12:13:25	1.0	Surface	1	1	19.48	8.11	28.57	101.2	7.85	3.6	4.5
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS7	12:13:09	1.0	Surface	1	2	19.33	8.12	28.62	100.9	7.85	3.6	4.0
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS7	12:13:17	2.4	Bottom	3	1	19.24	8.12	28.59	100.5	7.83	3.7	4.0
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS7	12:13:03	2.4	Bottom	3	2	19.30	8.12	28.56	100.7	7.84	3.7	3.9
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS8	11:50:52	1.0	Surface	1	1	19.31	8.10	28.64	99.5	7.74	4.4	5.5
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS8	11:51:10	1.0	Surface	1	2	19.29	8.10	28.69	98.4	7.66	4.4	4.8
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS8	11:50:44	3.2	Bottom	3	1	19.28	8.10	28.64	99.7	7.76	4.5	5.1
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS8	11:51:01	3.2	Bottom	3	2	19.21	8.10	28.71	98.8	7.70	4.4	5.0
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS(Mf)9	12:07:07	1.0	Surface	1	1	19.40	8.11	28.56	101.3	7.87	3.5	5.7
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS(Mf)9	12:06:52	1.0	Surface	1	2	19.40	8.11	28.55	101.3	7.87	3.7	5.8
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS(Mf)9	12:06:45	2.7	Bottom	3	1	19.23	8.11	28.55	101.0	7.88	3.8	5.1
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS(Mf)9	12:06:58	2.7	Bottom	3	2	19.32	8.11	28.53	101.0	7.86	3.7	5.6
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS10	11:15:23	1.0	Surface	1	1	19.22	8.14	33.10	100.0	7.59	3.4	3.7
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS10	11:14:54	1.0	Surface	1	2	19.20	8.14	33.11	99.4	7.55	3.4	3.8
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS10	11:15:13	5.4	Middle	2	1	19.21	8.14	33.10	99.5	7.55	3.5	3.2
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS10	11:14:43	5.4	Middle	2	2	19.18	8.13	33.13	99.4	7.55	3.6	3.4
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS10	11:14:35	9.8	Bottom	3	1	19.18	8.13	33.13	98.4	7.48	3.7	3.7
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	IS10	11:15:06	9.8	Bottom	3	2	19.21	8.14	33.10	99.2	7.53	3.8	4.1
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR3	12:41:21	0.7	Middle	2	1	19.21	8.13	28.69	100.3	7.81	4.1	5.6
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR3	12:41:28	0.7	Middle	2	2	19.22	8.13	28.69	100.3	7.81	4.2	6.1
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR4	11:56:53	1.0	Surface	1	1	19.37	8.11	28.67	97.7	7.59	5.5	5.2
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR4	11:56:24	1.0	Surface	1	2	19.35	8.11	28.69	97.9	7.61	5.6	4.7
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR4	11:56:42	2.8	Bottom	3	1	19.16	8.10	28.80	97.4	7.59	5.7	5.0
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR4	11:56:15	2.8	Bottom	3	2	19.33	8.10	28.69	97.5	7.58	5.6	4.9
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR5	11:29:56	1.0	Surface	1	1	19.18	8.15	33.13	99.1	7.52	3.4	3.9
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR5	11:29:37	1.0	Surface	1	2	19.17	8.15	33.13	99.3	7.54	3.3	3.9
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR5	11:29:26	4.1	Bottom	3	1	19.09	8.15	33.20	98.7	7.49	3.7	3.4
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR5	11:29:47	4.1	Bottom	3	2	19.18	8.15	33.12	98.5	7.49	3.8	3.9
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR10A	10:43:05	1.0	Surface	1	1	19.37	8.02	29.45	90.4	6.99	2.4	2.3
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR10A	10:42:17	1.0	Surface	1	2	19.43	8.01	29.56	91.2	7.04	2.3	2.6
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR10A	10:42:57	3.3	Middle	2	1	19.31	8.02	29.48	90.2	6.98	2.4	3.1
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR10A	10:42:07	3.3	Middle	2	2	19.35	8.01	29.61	91.1	7.04	2.3	2.4
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR10A	10:41:59	5.5	Bottom	3	1	19.39	8.01	29.62	91.0	7.03	2.3	3.6
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR10A	10:42:48	5.5	Bottom	3	2	19.29	8.01	29.51	90.2	6.98	2.4	3.4
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR10B	10:31:28	1.0	Surface	1	1	19.41	7.99	30.25	94.8	7.30	2.1	3.0
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR10B	10:31:48	1.0	Surface	1	2	19.47	8.00	30.02	93.6	7.20	2.0	2.6
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR10B	10:31:35	4.1	Bottom	3	1	19.41	8.00	30.16	94.1	7.24	2.2	3.6
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	SR10B	10:31:20	4.1	Bottom	3	2	19.40	7.99	30.33	95.3	7.33	2.2	2.7
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	CS2	12:50:59	1.0	Surface	1	1	19.36	8.18	33.06	102.1	7.73	3.0	3.8
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	CS2	12:50:31	1.0	Surface	1	2	19.36	8.18	33.05	102.2	7.75	3.0	2.9
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	CS2	12:50:48	4.0	Middle	2	1	19.19	8.18	33.11	101.4	7.68	3.1	3.5
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	CS2	12:50:24	4.0	Middle	2	2	19.32	8.17	33.06	101.5	7.69	3.0	3.4
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	CS2	12:50:13	7.0	Bottom	3	1	19.21	8.15	33.06	100.7	7.64	3.1	3.7
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	CS2	12:50:41	7.0	Bottom	3	2	19.28	8.18	33.03	101.1	7.67	3.1	3.3
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	CS(Mf)5	11:13:35	1.0	Surface	1	1	19.46	8.04	29.22	90.4	6.99	2.7	2.1
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	CS(Mf)5	11:12:41	1.0	Surface	1	2	19.58	8.03	29.20	90.3	6.97	2.6	2.2
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	CS(Mf)5	11:12:24	6.0	Middle	2	1	19.29	8.03	29.29	89.5	6.94	2.6	2.2

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	CS(Mf)5	11:13:21	6.0	Middle	2	2	19.33	8.04	29.25	89.9	6.96	2.8	2.1
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	CS(Mf)5	11:13:06	10.9	Bottom	3	1	19.29	8.03	29.27	89.6	6.95	2.8	3.0
HKLR	HY/2011/03	2017-01-25	Mid-Ebb	Sunny	CS(Mf)5	11:12:12	10.9	Bottom	3	2	19.28	8.02	29.32	89.5	6.94	2.8	2.7
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS5	15:32:24	1.0	Surface	1	1	19.43	8.17	29.54	101.6	7.85	5.4	6.2
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS5	15:31:53	1.0	Surface	1	2	19.47	8.18	29.53	101.6	7.84	5.5	7.0
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS5	15:32:11	4.3	Middle	2	1	19.36	8.17	29.57	101.3	7.84	5.4	6.3
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS5	15:31:40	4.3	Middle	2	2	19.36	8.17	29.55	100.9	7.81	5.4	7.7
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS5	15:31:31	7.5	Bottom	3	1	19.33	8.17	29.53	100.9	7.80	5.5	9.5
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS5	15:32:03	7.5	Bottom	3	2	19.34	8.17	29.55	101.2	7.82	5.4	10.6
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS(Mf)6	15:40:54	1.0	Surface	1	1	19.46	8.15	29.40	102.3	7.90	4.3	5.4
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS(Mf)6	15:40:40	1.0	Surface	1	2	19.53	8.15	29.37	102.7	7.92	4.2	6.1
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS(Mf)6	15:40:32	2.5	Bottom	3	1	19.66	8.16	29.34	103.0	7.93	4.4	6.8
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS(Mf)6	15:40:47	2.5	Bottom	3	2	19.51	8.15	29.40	102.5	7.91	4.3	6.3
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS7	15:48:51	1.0	Surface	1	1	19.56	8.15	29.35	101.7	7.84	4.9	4.9
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS7	15:49:27	1.0	Surface	1	2	19.67	8.15	29.31	102.2	7.87	5.1	5.2
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS7	15:48:42	2.6	Bottom	3	1	19.46	8.15	29.38	101.4	7.83	5.2	6.4
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS7	15:49:16	2.6	Bottom	3	2	19.53	8.15	29.37	102.0	7.86	5.1	6.7
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS8	16:14:16	1.0	Surface	1	1	19.66	8.16	29.17	104.6	8.06	6.6	6.2
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS8	16:14:02	1.0	Surface	1	2	19.67	8.16	29.16	104.6	8.06	6.5	6.6
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS8	16:13:53	3.2	Bottom	3	1	19.57	8.16	29.17	104.5	8.07	6.7	8.2
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS8	16:14:08	3.2	Bottom	3	2	19.59	8.16	29.15	104.6	8.07	6.6	9.5
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS(Mf)9	15:54:00	1.0	Surface	1	1	19.64	8.16	29.22	102.6	7.90	5.5	5.0
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS(Mf)9	15:54:15	1.0	Surface	1	2	19.81	8.17	29.15	103.7	7.97	5.5	6.4
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS(Mf)9	15:54:07	2.7	Bottom	3	1	19.66	8.16	29.09	102.5	7.90	5.5	5.2
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS(Mf)9	15:53:53	2.7	Bottom	3	2	19.42	8.16	29.15	101.6	7.86	5.6	6.1
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS10	17:23:57	1.0	Surface	1	1	19.50	8.27	32.48	104.6	7.93	2.4	4.4
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS10	17:23:18	1.0	Surface	1	2	19.45	8.26	32.53	103.8	7.87	2.3	4.7
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS10	17:23:09	5.5	Middle	2	1	19.26	8.26	32.88	103.6	7.85	2.5	4.9
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS10	17:23:46	5.5	Middle	2	2	19.36	8.26	32.81	103.7	7.87	2.6	4.7
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS10	17:23:32	9.9	Bottom	3	1	19.35	8.26	32.75	103.3	7.84	2.9	4.6
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	IS10	17:22:59	9.9	Bottom	3	2	19.31	8.26	32.79	103.1	7.82	2.8	4.4
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR3	15:21:56	0.7	Middle	2	1	19.59	8.20	29.29	104.1	8.02	4.8	6.5
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR3	15:21:50	0.7	Middle	2	2	19.59	8.20	29.27	103.9	8.01	4.7	7.2
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR4	16:06:32	1.0	Surface	1	1	19.80	8.17	29.11	105.1	8.08	6.6	5.4
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR4	16:06:51	1.0	Surface	1	2	19.79	8.17	29.12	105.3	8.09	6.5	5.8
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR4	16:06:24	2.8	Bottom	3	1	19.59	8.16	29.13	104.7	8.08	6.7	6.4
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR4	16:06:42	2.8	Bottom	3	2	19.62	8.16	29.12	104.9	8.09	6.5	5.3
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR5	17:07:10	1.0	Surface	1	1	19.45	8.24	32.58	103.5	7.86	3.1	4.8
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR5	17:06:51	1.0	Surface	1	2	19.42	8.23	32.62	104.1	7.89	3.2	4.9
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR5	17:06:40	4.2	Bottom	3	1	19.27	8.23	32.87	103.4	7.84	3.4	4.8
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR5	17:07:00	4.2	Bottom	3	2	19.40	8.23	32.72	103.5	7.84	3.3	4.4
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR10A	17:27:03	1.0	Surface	1	1	19.88	8.18	29.51	103.1	7.89	3.4	6.5
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR10A	17:27:30	1.0	Surface	1	2	19.86	8.18	29.52	102.8	7.88	3.4	6.4
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR10A	17:26:51	3.3	Middle	2	1	19.85	8.17	29.52	102.6	7.87	3.4	6.0
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR10A	17:27:23	3.3	Middle	2	2	19.79	8.17	29.54	102.7	7.87	3.5	6.3
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR10A	17:26:38	5.6	Bottom	3	1	19.77	8.17	29.51	102.6	7.86	3.5	5.3
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR10A	17:27:14	5.6	Bottom	3	2	19.79	8.17	29.50	102.5	7.86	3.5	5.5
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR10B	17:37:06	1.0	Surface	1	1	19.89	8.18	29.51	103.2	7.90	3.5	6.5
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR10B	17:36:48	1.0	Surface	1	2	19.87	8.18	29.52	103.0	7.89	3.5	6.3
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR10B	17:36:55	4.3	Bottom	3	1	19.88	8.18	29.50	103.0	7.89	3.6	7.3
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	SR10B	17:36:38	4.3	Bottom	3	2	19.78	8.17	29.52	102.8	7.89	3.7	5.8
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	CS2	15:50:26	1.0	Surface	1	1	19.52	8.18	31.88	103.8	7.89	3.0	4.3

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	CS2	15:50:52	1.0	Surface	1	2	19.50	8.16	31.94	103.5	7.87	3.0	4.2
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	CS2	15:50:20	4.1	Middle	2	1	19.35	8.18	32.26	102.5	7.79	3.1	3.2
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	CS2	15:50:42	4.1	Middle	2	2	19.20	8.11	32.87	102.9	7.82	3.2	4.6
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	CS2	15:50:37	7.1	Bottom	3	1	19.31	8.12	32.62	101.5	7.72	3.3	4.8
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	CS2	15:50:11	7.1	Bottom	3	2	19.21	8.17	32.91	101.0	7.69	3.2	4.7
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	CS(Mf)5	16:59:55	1.0	Surface	1	1	19.76	8.17	29.52	99.7	7.67	5.6	6.9
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	CS(Mf)5	17:00:29	1.0	Surface	1	2	19.83	8.17	29.51	100.7	7.72	5.5	6.1
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	CS(Mf)5	17:00:17	6.3	Middle	2	1	19.51	8.17	29.62	99.2	7.66	6.4	5.7
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	CS(Mf)5	16:59:44	6.3	Middle	2	2	19.19	8.16	29.66	98.9	7.65	6.5	6.4
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	CS(Mf)5	17:00:06	11.6	Bottom	3	1	19.43	8.17	29.54	99.2	7.64	6.4	5.6
HKLR	HY/2011/03	2017-01-25	Mid-Flood	Sunny	CS(Mf)5	16:59:30	11.6	Bottom	3	2	19.20	8.16	29.58	98.1	7.60	6.6	5.1
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS5	12:39:04	1.0	Surface	1	1	19.10	8.28	32.81	99.0	7.54	6.9	7.9
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS5	12:39:33	1.0	Surface	1	2	19.08	8.28	32.80	99.4	7.57	6.9	7.0
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS5	12:38:50	5.2	Middle	2	1	19.06	8.27	32.81	98.3	7.50	7.0	7.6
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS5	12:39:22	5.2	Middle	2	2	19.05	8.28	32.81	99.2	7.56	7.2	8.5
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS5	12:39:15	9.3	Bottom	3	1	19.06	8.27	32.81	98.8	7.53	7.1	8.7
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS5	12:38:43	9.3	Bottom	3	2	19.06	8.24	32.80	99.3	7.57	6.1	10.0
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS(Mf)6	12:32:03	1.0	Surface	1	1	19.07	8.27	32.81	99.7	7.60	7.2	4.9
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS(Mf)6	12:32:19	1.0	Surface	1	2	19.08	8.27	32.81	99.7	7.60	7.1	5.3
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS(Mf)6	12:32:11	4.3	Bottom	3	1	19.07	8.27	32.81	98.8	7.53	7.2	6.5
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS(Mf)6	12:31:55	4.3	Bottom	3	2	19.07	8.27	32.81	99.9	7.61	7.5	7.3
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS7	11:15:48	1.0	Surface	1	1	19.09	8.23	32.81	101.0	7.69	7.4	8.4
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS7	11:16:09	1.0	Surface	1	2	19.09	8.25	32.81	100.4	7.65	7.0	7.0
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS7	11:16:02	3.8	Bottom	3	1	19.07	8.26	32.81	100.5	7.67	7.8	6.9
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS7	11:15:40	3.8	Bottom	3	2	19.05	8.24	32.81	101.5	7.74	8.1	7.2
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS8	11:15:33	1.0	Surface	1	1	19.05	8.24	32.81	102.7	7.83	8.1	8.4
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS8	11:15:55	1.0	Surface	1	2	19.08	8.24	32.80	101.0	7.70	8.0	6.9
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS8	07:38:51	1.1	Bottom	3	1	19.04	8.30	32.81	98.5	7.51	6.5	8.9
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS8	07:38:11	1.1	Bottom	3	2	19.03	8.30	32.82	98.1	7.49	6.7	7.2
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS(Mf)9	07:38:39	1.0	Surface	1	1	19.02	8.29	32.84	99.1	7.56	7.0	10.3
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS(Mf)9	07:38:03	1.0	Surface	1	2	19.02	8.29	32.84	98.2	7.49	7.1	10.5
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS(Mf)9	07:37:53	9.6	Bottom	3	1	19.02	8.29	32.84	98.7	7.53	6.6	11.6
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS(Mf)9	07:38:32	9.6	Bottom	3	2	19.02	8.29	32.85	99.3	7.57	6.6	11.9
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS10	07:46:54	1.0	Surface	1	1	19.05	8.30	32.81	99.1	7.55	6.0	6.3
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS10	07:46:34	1.0	Surface	1	2	19.05	8.30	32.81	98.8	7.53	6.1	7.2
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS10	07:46:42	1.0	Middle	2	1	19.03	8.30	32.81	99.6	7.60	6.2	5.8
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS10	07:46:21	1.0	Middle	2	2	19.03	8.27	32.81	98.8	7.54	6.1	5.8
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS10	09:02:38	1.0	Bottom	3	1	19.09	8.29	32.78	99.3	7.57	6.7	9.1
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	IS10	09:03:06	1.0	Bottom	3	2	19.10	8.29	32.77	100.2	7.64	6.4	7.7
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR3	09:02:56	3.9	Middle	2	1	19.07	8.30	32.77	100.2	7.64	7.7	8.6
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR3	09:02:31	3.9	Middle	2	2	19.06	8.28	32.78	99.0	7.55	7.5	7.8
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR4	09:02:25	1.0	Surface	1	1	19.06	8.25	32.78	99.8	7.61	8.1	6.0
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR4	09:02:50	1.0	Surface	1	2	19.07	8.29	32.77	99.5	7.59	8.0	5.4
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR4	11:42:13	1.1	Bottom	3	1	19.08	8.16	29.10	99.4	7.75	5.5	8.9
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR4	11:42:44	1.1	Bottom	3	2	19.08	8.16	29.10	99.3	7.74	5.4	9.7
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR5	11:42:06	1.0	Surface	1	1	19.05	8.16	29.10	99.3	7.74	5.5	7.8
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR5	11:42:36	1.0	Surface	1	2	19.04	8.16	29.11	99.1	7.73	5.9	7.5
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR5	11:41:59	7.7	Bottom	3	1	19.07	8.16	29.08	99.3	7.74	5.7	9.0
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR5	11:42:28	7.7	Bottom	3	2	19.03	8.16	29.10	99.1	7.73	5.9	8.8
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR10A	11:50:34	1.0	Surface	1	1	18.98	8.16	29.06	101.0	7.89	4.2	5.0
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR10A	11:50:20	1.0	Surface	1	2	18.97	8.16	29.06	101.1	7.90	4.1	5.8
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR10A	11:50:26	1.1	Middle	2	1	18.97	8.16	29.07	101.1	7.89	4.1	5.3

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR10A	11:50:14	1.1	Middle	2	2	18.97	8.16	29.06	101.2	7.90	4.4	4.6
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR10A	11:57:41	1.1	Bottom	3	1	18.98	8.16	29.08	100.6	7.86	4.8	6.4
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR10A	11:57:30	1.1	Bottom	3	2	18.97	8.17	29.09	100.6	7.86	4.8	7.0
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR10B	11:57:24	1.0	Surface	1	1	18.96	8.16	29.09	100.7	7.86	4.7	5.9
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR10B	11:57:36	1.0	Surface	1	2	18.97	8.17	29.10	100.7	7.86	4.8	5.0
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR10B	12:19:41	1.0	Bottom	3	1	19.23	8.21	29.01	102.0	7.93	5.8	6.5
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	SR10B	12:19:26	1.0	Bottom	3	2	19.20	8.20	29.02	101.8	7.92	5.8	7.5
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	CS2	12:19:34	1.0	Surface	1	1	19.18	8.21	28.97	101.7	7.91	5.9	9.4
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	CS2	12:19:20	1.0	Surface	1	2	19.14	8.20	28.98	101.5	7.90	5.6	9.6
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	CS2	12:07:54	1.9	Middle	2	1	19.12	8.18	29.05	101.5	7.90	7.9	9.6
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	CS2	12:07:41	1.9	Middle	2	2	19.12	8.18	29.05	101.7	7.92	7.7	10.6
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	CS2	12:07:47	2.7	Bottom	3	1	19.11	8.18	29.06	101.5	7.90	7.7	13.2
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	CS2	12:07:35	2.7	Bottom	3	2	19.11	8.18	29.05	101.7	7.92	7.7	13.0
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	CS(Mf)5	11:30:37	1.0	Surface	1	1	19.09	8.17	29.08	100.1	7.80	5.1	6.3
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	CS(Mf)5	11:30:42	1.0	Surface	1	2	19.09	8.17	29.08	100.1	7.80	5.0	5.4
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	CS(Mf)5	12:13:01	1.9	Middle	2	1	19.19	8.21	28.97	101.9	7.93	5.5	8.2
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	CS(Mf)5	12:12:45	1.9	Middle	2	2	19.16	8.21	28.97	101.9	7.93	5.4	7.5
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	CS(Mf)5	12:12:52	2.8	Bottom	3	1	19.11	8.21	28.95	101.6	7.92	5.7	8.1
HKLR	HY/2011/03	2017-01-27	Mid-Ebb	Sunny	CS(Mf)5	12:12:38	2.8	Bottom	3	2	19.09	8.21	28.95	101.7	7.93	5.7	7.3
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS5	13:32:29	1.0	Surface	1	1	19.16	8.18	29.01	98.6	7.68	5.2	6.5
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS5	13:32:07	1.0	Surface	1	2	19.22	8.18	29.01	98.8	7.68	5.2	6.0
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS5	13:31:58	3.2	Middle	2	1	19.16	8.18	29.01	98.6	7.68	5.5	7.8
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS5	13:32:21	3.2	Middle	2	2	19.15	8.18	29.01	98.6	7.68	5.2	6.0
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS5	13:32:14	5.4	Bottom	3	1	19.18	8.18	28.99	98.6	7.68	5.4	9.1
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS5	13:31:46	5.4	Bottom	3	2	19.14	8.18	29.00	98.6	7.68	5.4	8.9
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS(Mf)6	13:42:56	1.0	Surface	1	1	19.20	8.18	29.02	98.9	7.70	5.0	8.6
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS(Mf)6	13:42:40	1.0	Surface	1	2	19.19	8.18	29.02	98.9	7.69	5.2	8.6
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS(Mf)6	13:42:48	3.8	Bottom	3	1	19.19	8.18	29.00	98.8	7.69	5.1	10.8
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS(Mf)6	13:42:32	3.8	Bottom	3	2	19.20	8.18	29.00	98.8	7.68	5.0	9.3
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS7	12:57:18	1.0	Surface	1	1	19.15	8.18	29.02	99.3	7.73	6.4	7.6
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS7	12:56:51	1.0	Surface	1	2	19.18	8.18	29.02	99.3	7.73	6.4	7.3
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS7	12:57:10	6.1	Bottom	3	1	19.08	8.19	29.03	99.1	7.72	6.5	7.0
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS7	12:56:42	6.1	Bottom	3	2	19.10	8.19	29.01	99.1	7.72	6.5	7.8
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS8	12:57:02	1.0	Surface	1	1	19.11	8.19	29.02	98.7	7.69	6.6	12.3
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS8	12:56:27	1.0	Surface	1	2	19.09	8.20	29.02	98.9	7.71	6.5	12.4
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS8	08:39:42	1.1	Bottom	3	1	19.07	8.16	29.06	99.8	7.78	5.5	11.4
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS8	08:40:08	1.1	Bottom	3	2	19.07	8.16	29.07	99.5	7.76	5.4	12.2
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS(Mf)9	08:39:33	1.0	Surface	1	1	19.04	8.16	29.07	99.8	7.78	5.6	10.1
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS(Mf)9	08:40:01	1.0	Surface	1	2	19.04	8.16	29.07	99.5	7.76	5.5	8.9
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS(Mf)9	08:39:53	7.7	Bottom	3	1	19.04	8.16	29.06	99.4	7.75	5.4	14.0
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS(Mf)9	08:39:26	7.7	Bottom	3	2	19.05	8.16	29.05	99.7	7.77	5.5	13.5
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS10	08:28:58	1.0	Surface	1	1	19.06	8.17	29.04	102.3	7.97	5.7	7.4
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS10	08:29:10	1.0	Surface	1	2	19.04	8.17	29.05	102.2	7.97	5.7	7.9
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS10	08:28:51	1.1	Middle	2	1	19.06	8.18	29.03	102.2	7.97	5.8	8.0
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS10	08:29:04	1.1	Middle	2	2	19.05	8.17	29.04	102.2	7.97	6.0	8.8
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS10	08:24:40	1.1	Bottom	3	1	19.06	8.17	29.01	103.0	8.03	6.0	11.1
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	IS10	08:24:54	1.1	Bottom	3	2	19.04	8.17	29.02	102.6	8.01	5.8	10.5
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR3	08:24:47	2.4	Middle	2	1	19.03	8.17	29.01	102.7	8.02	5.9	9.0
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR3	08:24:30	2.4	Middle	2	2	19.02	8.17	29.00	103.3	8.06	6.1	7.7
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR4	08:00:40	1.0	Surface	1	1	19.08	8.18	29.06	100.6	7.84	8.4	10.8
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR4	08:00:24	1.0	Surface	1	2	19.09	8.18	29.05	101.1	7.88	8.5	11.6
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR4	08:00:17	2.9	Bottom	3	1	19.09	8.18	29.05	101.3	7.90	8.4	11.2

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR4	08:00:32	2.9	Bottom	3	2	19.08	8.18	29.06	100.7	7.85	8.3	12.9
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR5	08:15:06	1.0	Surface	1	1	19.10	8.18	29.10	99.7	7.76	8.6	8.4
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR5	08:15:30	1.0	Surface	1	2	19.08	8.18	29.11	99.5	7.75	8.7	7.1
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR5	08:14:54	2.8	Bottom	3	1	19.09	8.18	29.10	99.6	7.76	8.5	7.7
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR5	08:15:20	2.8	Bottom	3	2	19.06	8.18	29.12	99.5	7.75	8.5	8.7
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR10A	08:46:53	1.0	Surface	1	1	19.07	8.16	29.07	100.0	7.79	5.3	3.6
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR10A	08:46:47	1.0	Surface	1	2	19.07	8.16	29.07	99.9	7.79	5.5	4.6
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR10A	08:07:00	1.9	Middle	2	1	19.10	8.18	29.09	100.0	7.79	8.1	5.6
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR10A	08:06:46	1.9	Middle	2	2	19.08	8.18	29.09	100.0	7.79	8.1	7.0
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR10A	08:06:40	2.7	Bottom	3	1	19.08	8.18	29.09	100.0	7.79	8.2	6.5
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR10A	08:06:53	2.7	Bottom	3	2	19.08	8.18	29.09	100.0	7.79	8.1	8.4
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR10B	06:42:22	1.0	Surface	1	1	19.24	8.11	29.14	93.6	7.26	3.6	6.4
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR10B	06:41:57	1.0	Surface	1	2	19.24	8.11	29.18	93.8	7.27	3.6	7.0
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR10B	06:42:14	3.2	Bottom	3	1	19.25	8.10	29.23	93.4	7.26	3.8	7.4
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	SR10B	06:41:49	3.2	Bottom	3	2	19.25	8.10	29.25	93.6	7.27	3.8	7.7
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	CS2	06:41:41	1.0	Surface	1	1	19.25	8.10	29.30	93.5	7.26	3.9	9.5
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	CS2	06:42:06	1.0	Surface	1	2	19.25	8.10	29.25	93.4	7.25	3.8	8.8
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	CS2	06:32:07	2.6	Middle	2	1	19.22	8.09	29.54	94.6	7.33	3.9	9.8
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	CS2	06:32:24	2.6	Middle	2	2	19.22	8.09	29.45	94.5	7.33	3.8	9.2
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	CS2	06:31:58	4.1	Bottom	3	1	19.23	8.08	29.64	94.8	7.34	4.0	12.9
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	CS2	06:32:14	4.1	Bottom	3	2	19.23	8.09	29.57	94.7	7.34	4.0	14.0
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	CS(Mf)5	07:22:19	1.0	Surface	1	1	19.24	8.11	29.06	92.6	7.19	8.4	5.5
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	CS(Mf)5	07:22:46	1.0	Surface	1	2	19.24	8.12	29.03	92.4	7.18	8.3	6.3
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	CS(Mf)5	07:22:11	6.2	Middle	2	1	19.25	8.11	29.15	92.4	7.18	8.4	7.2
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	CS(Mf)5	07:22:38	6.2	Middle	2	2	19.25	8.11	29.13	92.4	7.18	8.4	8.9
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	CS(Mf)5	07:22:02	11.3	Bottom	3	1	19.25	8.11	29.14	92.4	7.17	8.3	11.4
HKLR	HY/2011/03	2017-01-27	Mid-Flood	Sunny	CS(Mf)5	07:22:30	11.3	Bottom	3	2	19.25	8.11	29.12	92.3	7.17	8.5	12.7
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS5	13:27:12	1.0	Surface	1	1	19.40	8.09	28.73	90.0	6.99	5.4	4.0
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS5	13:28:00	1.0	Surface	1	2	19.37	8.09	28.85	89.4	6.93	5.1	4.0
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS5	13:27:01	4.3	Middle	2	1	19.31	8.09	28.94	90.0	6.99	5.5	4.9
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS5	13:27:49	4.3	Middle	2	2	19.29	8.08	28.97	89.2	6.93	5.5	3.8
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS5	13:27:38	7.5	Bottom	3	1	19.27	8.08	29.00	89.1	6.92	5.6	4.5
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS5	13:26:49	7.5	Bottom	3	2	19.28	8.08	29.01	89.7	6.96	5.5	3.7
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS(Mf)6	13:36:27	1.0	Surface	1	1	19.46	8.09	28.86	90.8	7.03	4.5	5.0
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS(Mf)6	13:36:07	1.0	Surface	1	2	19.41	8.09	28.93	91.0	7.06	4.6	5.6
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS(Mf)6	13:35:59	2.3	Bottom	3	1	19.35	8.09	29.02	91.3	7.08	4.5	4.6
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS(Mf)6	13:36:13	2.3	Bottom	3	2	19.40	8.09	28.96	90.8	7.04	4.4	4.0
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS7	13:43:55	1.0	Surface	1	1	19.42	8.09	28.91	89.8	6.96	4.4	4.2
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS7	13:44:11	1.0	Surface	1	2	19.40	8.09	28.94	89.8	6.96	4.5	4.3
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS7	13:43:45	2.3	Bottom	3	1	19.38	8.09	28.96	89.7	6.96	4.6	3.9
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS7	13:44:02	2.3	Bottom	3	2	19.36	8.09	28.99	89.7	6.96	4.4	4.5
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS8	14:06:27	1.0	Surface	1	1	19.39	8.08	28.94	89.2	6.91	5.1	11.2
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS8	14:06:11	1.0	Surface	1	2	19.38	8.08	28.96	89.1	6.91	5.4	11.6
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS8	14:06:17	3.1	Bottom	3	1	19.39	8.08	28.95	89.0	6.90	5.2	11.5
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS8	14:06:05	3.1	Bottom	3	2	19.36	8.08	28.99	88.9	6.90	5.3	12.6
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS(Mf)9	13:50:31	1.0	Surface	1	1	19.31	8.08	29.05	88.8	6.89	6.0	3.8
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS(Mf)9	13:50:16	1.0	Surface	1	2	19.33	8.08	29.03	89.0	6.91	5.8	4.3
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS(Mf)9	13:50:10	2.6	Bottom	3	1	19.35	8.08	29.01	89.1	6.91	6.2	5.1
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS(Mf)9	13:50:23	2.6	Bottom	3	2	19.31	8.08	29.06	88.9	6.90	6.1	5.4
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS10	14:31:34	1.0	Surface	1	1	19.25	8.09	32.71	87.4	6.65	6.2	6.3
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS10	14:32:09	1.0	Surface	1	2	19.26	8.11	32.71	87.4	6.64	6.3	4.7
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS10	14:31:25	5.3	Middle	2	1	19.22	8.07	32.78	87.0	6.61	6.8	4.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS10	14:31:58	5.3	Middle	2	2	19.22	8.10	32.78	88.3	6.71	7.2	5.6
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS10	14:31:51	9.5	Bottom	3	1	19.22	8.10	32.78	87.9	6.68	7.2	6.6
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	IS10	14:31:17	9.5	Bottom	3	2	19.22	8.06	32.77	87.9	6.68	6.9	5.4
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR3	13:18:08	0.8	Middle	2	1	19.42	8.09	28.68	93.1	7.22	3.8	3.3
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR3	13:17:54	0.8	Middle	2	2	19.43	8.09	28.67	93.7	7.27	3.7	3.2
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR4	13:57:45	1.0	Surface	1	1	19.38	8.08	28.96	89.1	6.91	5.5	4.6
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR4	13:58:14	1.0	Surface	1	2	19.32	8.08	29.04	88.8	6.89	5.4	5.4
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR4	13:58:05	2.8	Bottom	3	1	19.29	8.08	29.08	88.8	6.90	5.5	5.0
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR4	13:57:37	2.8	Bottom	3	2	19.35	8.08	29.02	89.0	6.90	5.6	6.0
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR5	14:23:27	1.0	Surface	1	1	19.28	8.09	32.70	88.6	6.73	5.7	5.0
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR5	14:22:54	1.0	Surface	1	2	19.27	8.06	32.70	89.6	6.81	5.6	6.0
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR5	14:23:06	4.2	Bottom	3	1	19.24	8.06	32.76	87.6	6.66	6.3	6.2
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR5	14:22:39	4.2	Bottom	3	2	19.24	8.05	32.76	88.6	6.74	6.2	5.4
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR10A	15:22:04	1.0	Surface	1	1	19.32	8.09	29.00	88.9	6.90	5.9	9.1
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR10A	15:22:41	1.0	Surface	1	2	19.32	8.09	29.00	88.7	6.89	5.9	8.1
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR10A	15:21:51	3.3	Middle	2	1	19.29	8.08	29.01	88.6	6.88	6.1	7.9
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR10A	15:22:34	3.3	Middle	2	2	19.29	8.08	29.02	88.6	6.88	6.1	8.6
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR10A	15:22:26	5.5	Bottom	3	1	19.28	8.08	29.04	88.6	6.88	6.2	9.6
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR10A	15:21:41	5.5	Bottom	3	2	19.29	8.08	29.02	88.6	6.88	6.1	9.5
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR10B	15:32:40	1.0	Surface	1	1	19.31	8.09	29.00	88.9	6.90	6.1	9.1
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR10B	15:32:55	1.0	Surface	1	2	19.31	8.09	29.00	88.9	6.90	6.1	10.4
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR10B	15:32:48	4.0	Bottom	3	1	19.30	8.09	29.00	88.9	6.90	6.1	9.2
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	SR10B	15:32:34	4.0	Bottom	3	2	19.31	8.09	29.00	88.9	6.90	6.2	10.9
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	CS2	13:09:15	1.0	Surface	1	1	19.30	8.04	32.40	90.9	6.92	5.4	3.8
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	CS2	13:09:43	1.0	Surface	1	2	19.30	8.07	32.45	90.5	6.89	5.3	5.0
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	CS2	13:09:35	3.9	Middle	2	1	19.24	8.06	32.60	90.4	6.88	5.8	4.3
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	CS2	13:09:05	3.9	Middle	2	2	19.23	8.02	32.59	91.5	6.97	6.0	4.1
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	CS2	13:08:54	6.7	Bottom	3	1	19.25	8.00	32.62	92.2	7.01	5.8	4.1
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	CS2	13:09:25	6.7	Bottom	3	2	19.26	8.05	32.58	90.7	6.90	5.6	3.8
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	CS(Mf)5	14:40:26	1.0	Surface	1	1	19.31	8.09	29.00	88.6	6.88	5.8	10.2
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	CS(Mf)5	14:41:12	1.0	Surface	1	2	19.32	8.09	28.99	88.7	6.89	5.9	9.8
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	CS(Mf)5	14:40:55	6.0	Middle	2	1	19.29	8.08	29.02	88.3	6.86	6.2	9.6
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	CS(Mf)5	14:40:18	6.0	Middle	2	2	19.29	8.08	29.03	88.4	6.86	6.0	8.7
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	CS(Mf)5	14:40:40	10.9	Bottom	3	1	19.28	8.08	29.07	88.2	6.85	6.1	10.6
HKLR	HY/2011/03	2017-01-30	Mid-Ebb	Cloudy	CS(Mf)5	14:40:07	10.9	Bottom	3	2	19.29	8.08	29.06	88.4	6.86	6.1	10.6
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS5	09:58:59	1.0	Surface	1	1	19.33	8.10	28.39	90.8	7.07	7.2	5.6
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS5	09:59:39	1.0	Surface	1	2	19.44	8.10	28.32	91.1	7.08	7.1	4.8
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS5	09:59:28	4.3	Middle	2	1	19.29	8.09	28.66	90.8	7.06	8.7	6.9
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS5	09:58:51	4.3	Middle	2	2	19.29	8.09	28.59	90.7	7.06	8.5	7.0
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS5	09:58:42	7.5	Bottom	3	1	19.28	8.09	28.72	90.5	7.05	8.5	7.6
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS5	09:59:18	7.5	Bottom	3	2	19.28	8.09	28.72	90.5	7.04	8.6	7.0
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS(Mf)6	09:50:08	1.0	Surface	1	1	19.35	8.10	28.33	92.7	7.22	5.3	5.3
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS(Mf)6	09:50:37	1.0	Surface	1	2	19.37	8.10	28.32	92.5	7.21	5.0	5.5
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS(Mf)6	09:50:25	2.4	Bottom	3	1	19.32	8.10	28.38	92.5	7.21	5.2	5.2
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS(Mf)6	09:50:00	2.4	Bottom	3	2	19.35	8.10	28.34	92.7	7.22	5.4	6.3
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS7	09:43:22	1.0	Surface	1	1	19.33	8.10	28.34	93.3	7.26	5.6	4.9
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS7	09:43:51	1.0	Surface	1	2	19.36	8.10	28.31	92.8	7.23	5.6	5.4
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS7	09:43:12	2.7	Bottom	3	1	19.33	8.10	28.38	93.6	7.29	5.7	6.0
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS7	09:43:36	2.7	Bottom	3	2	19.30	8.10	28.39	92.8	7.23	5.7	5.2
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS8	09:21:24	1.0	Surface	1	1	19.35	8.08	28.88	89.5	6.95	5.4	5.4
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS8	09:21:42	1.0	Surface	1	2	19.34	8.08	28.91	89.5	6.95	5.5	5.0
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS8	09:21:14	3.2	Bottom	3	1	19.32	8.08	28.98	89.2	6.93	5.6	6.6

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS8	09:21:31	3.2	Bottom	3	2	19.33	8.08	28.97	89.4	6.94	5.5	5.7
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS(Mf)9	09:36:56	1.0	Surface	1	1	19.36	8.08	28.86	89.7	6.97	5.2	5.0
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS(Mf)9	09:36:26	1.0	Surface	1	2	19.36	8.08	28.85	89.8	6.97	5.1	5.9
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS(Mf)9	09:36:16	2.7	Bottom	3	1	19.34	8.08	28.92	89.7	6.96	5.2	6.4
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS(Mf)9	09:36:47	2.7	Bottom	3	2	19.32	8.08	28.98	89.7	6.96	5.1	6.0
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS10	09:10:35	1.0	Surface	1	1	19.29	8.11	32.59	88.9	6.76	6.3	5.1
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS10	09:10:07	1.0	Surface	1	2	19.27	8.10	32.61	88.3	6.71	6.9	4.8
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS10	09:09:56	5.3	Middle	2	1	19.21	8.10	32.78	87.2	6.63	7.5	5.0
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS10	09:10:23	5.3	Middle	2	2	19.22	8.10	32.77	88.6	6.74	7.2	4.9
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS10	09:10:16	9.6	Bottom	3	1	19.24	8.10	32.72	89.0	6.77	7.0	5.0
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	IS10	09:09:48	9.6	Bottom	3	2	19.21	8.09	32.77	88.4	6.72	7.3	4.9
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR3	10:08:24	0.7	Middle	2	1	19.46	8.10	28.29	92.9	7.22	4.1	4.8
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR3	10:08:18	0.7	Middle	2	2	19.45	8.10	28.30	92.8	7.22	4.2	5.2
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR4	09:28:38	1.0	Surface	1	1	19.40	8.08	28.81	90.3	7.00	4.8	5.8
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR4	09:28:59	1.0	Surface	1	2	19.37	8.08	28.84	90.1	6.99	4.7	6.4
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR4	09:28:45	2.7	Bottom	3	1	19.35	8.08	28.93	90.2	7.00	4.6	6.2
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR4	09:28:26	2.7	Bottom	3	2	19.37	8.08	28.88	90.2	7.00	4.6	6.0
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR5	09:18:46	1.0	Surface	1	1	19.24	8.11	32.67	88.7	6.75	5.9	5.1
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR5	09:18:33	1.0	Surface	1	2	19.27	8.11	32.59	89.1	6.78	5.7	5.2
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR5	09:18:41	4.3	Bottom	3	1	19.26	8.11	32.69	88.8	6.75	5.8	5.7
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR5	09:18:26	4.3	Bottom	3	2	19.21	8.10	32.78	89.7	6.82	6.0	4.5
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR10A	08:17:30	1.0	Surface	1	1	19.30	8.06	29.15	89.2	6.92	5.7	6.5
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR10A	08:18:05	1.0	Surface	1	2	19.30	8.06	29.12	89.2	6.92	5.5	6.2
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR10A	08:17:57	3.3	Middle	2	1	19.28	8.06	29.13	89.1	6.91	5.8	6.9
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR10A	08:17:21	3.3	Middle	2	2	19.29	8.06	29.16	89.2	6.92	6.0	5.4
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR10A	08:17:48	5.5	Bottom	3	1	19.28	8.06	29.14	89.1	6.91	5.8	7.6
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR10A	08:17:08	5.5	Bottom	3	2	19.29	8.06	29.18	89.2	6.92	6.1	7.3
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR10B	08:07:19	1.0	Surface	1	1	19.31	8.05	29.57	89.8	6.95	5.8	5.0
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR10B	08:06:56	1.0	Surface	1	2	19.32	8.05	29.69	90.0	6.96	5.8	6.1
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR10B	08:06:41	3.9	Bottom	3	1	19.30	8.05	29.80	90.2	6.97	5.6	7.4
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	SR10B	08:07:02	3.9	Bottom	3	2	19.32	8.05	29.66	89.8	6.94	5.8	7.0
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	CS2	10:32:54	1.0	Surface	1	1	19.32	8.13	31.91	91.7	7.00	7.0	6.1
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	CS2	10:33:21	1.0	Surface	1	2	19.27	8.14	31.97	91.0	6.94	7.1	6.2
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	CS2	10:32:41	3.9	Middle	2	1	19.23	8.11	32.20	90.3	6.89	8.0	6.6
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	CS2	10:33:12	3.9	Middle	2	2	19.23	8.13	32.18	91.3	6.96	8.1	6.5
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	CS2	10:33:02	6.8	Bottom	3	1	19.27	8.13	32.11	91.7	6.99	7.8	8.7
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	CS2	10:32:34	6.8	Bottom	3	2	19.22	8.11	32.32	90.2	6.88	7.2	7.7
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	CS(Mf)5	08:50:08	1.0	Surface	1	1	19.29	8.07	29.04	88.9	6.90	7.2	6.0
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	CS(Mf)5	08:50:44	1.0	Surface	1	2	19.30	8.07	29.02	88.9	6.90	7.1	6.0
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	CS(Mf)5	08:49:57	6.3	Middle	2	1	19.28	8.07	29.05	88.5	6.87	7.4	6.2
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	CS(Mf)5	08:50:33	6.3	Middle	2	2	19.28	8.07	29.03	88.6	6.88	7.1	5.6
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	CS(Mf)5	08:50:22	11.6	Bottom	3	1	19.28	8.07	29.04	88.6	6.88	7.1	5.2
HKLR	HY/2011/03	2017-01-30	Mid-Flood	Cloudy	CS(Mf)5	08:49:49	11.6	Bottom	3	2	19.28	8.06	29.06	88.4	6.86	7.4	6.6
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS5	14:52:54	1.0	Surface	1	1	19.51	8.13	29.40	90.6	6.99	8.7	9.7
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS5	14:53:24	1.0	Surface	1	2	19.50	8.13	29.40	90.5	6.98	8.6	8.8
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS5	14:53:15	4.1	Middle	2	1	19.48	8.13	29.40	90.3	6.97	9.1	11.0
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS5	14:52:45	4.1	Middle	2	2	19.46	8.14	29.40	90.5	6.99	9.2	10.0
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS5	14:53:07	7.2	Bottom	3	1	19.46	8.13	29.40	90.2	6.97	9.5	11.7
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS5	14:52:37	7.2	Bottom	3	2	19.47	8.14	29.38	90.6	6.99	9.4	10.3
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS(Mf)6	14:58:40	1.0	Surface	1	1	19.36	8.12	29.38	90.9	7.04	9.3	10.8
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS(Mf)6	14:58:54	1.0	Surface	1	2	19.38	8.11	29.37	90.5	7.00	8.7	10.3
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS(Mf)6	14:58:47	2.1	Bottom	3	1	19.36	8.12	29.37	90.7	7.02	9.2	9.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS(Mf)6	14:58:31	2.1	Bottom	3	2	19.37	8.12	29.38	91.4	7.07	9.0	9.0
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS7	15:06:50	1.0	Surface	1	1	19.39	8.11	29.34	89.9	6.95	8.8	9.0
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS7	15:07:15	1.0	Surface	1	2	19.40	8.11	29.32	89.8	6.95	8.6	9.7
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS7	15:06:43	2.1	Bottom	3	1	19.39	8.11	29.35	89.8	6.95	8.7	8.1
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS7	15:06:56	2.1	Bottom	3	2	19.39	8.11	29.33	89.8	6.95	8.8	8.9
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS8	15:27:20	1.0	Surface	1	1	19.75	8.11	29.08	90.2	6.94	13.5	10.1
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS8	15:27:35	1.0	Surface	1	2	19.84	8.11	29.04	90.2	6.93	13.9	10.9
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS8	15:27:13	3.0	Bottom	3	1	19.74	8.11	28.92	89.8	6.91	13.8	9.2
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS8	15:27:28	3.0	Bottom	3	2	19.60	8.11	28.97	89.4	6.91	13.6	9.8
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS(Mf)9	15:14:22	1.0	Surface	1	1	19.59	8.12	29.21	91.1	7.02	10.0	8.1
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS(Mf)9	15:14:38	1.0	Surface	1	2	19.91	8.11	29.22	91.2	6.99	9.5	8.9
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS(Mf)9	15:14:31	2.8	Bottom	3	1	19.54	8.12	29.13	90.3	6.98	10.0	15.5
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS(Mf)9	15:14:16	2.8	Bottom	3	2	19.59	8.12	29.21	91.2	7.03	10.1	13.9
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS10	15:49:12	1.0	Surface	1	1	19.80	8.14	31.63	90.9	6.88	6.4	6.3
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS10	15:48:40	1.0	Surface	1	2	19.72	8.12	31.66	90.5	6.86	6.4	5.7
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS10	15:48:59	5.3	Middle	2	1	19.44	8.13	31.91	90.8	6.91	6.9	9.5
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS10	15:48:26	5.3	Middle	2	2	19.42	8.13	31.93	90.1	6.86	7.2	8.8
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS10	15:48:51	9.6	Bottom	3	1	19.50	8.12	31.88	91.0	6.92	6.7	10.5
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	IS10	15:48:18	9.6	Bottom	3	2	19.44	8.14	31.97	89.4	6.80	7.4	9.4
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR3	14:42:02	0.7	Middle	2	1	19.44	8.16	29.29	92.6	7.16	8.4	9.2
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR3	14:41:53	0.7	Middle	2	2	19.49	8.16	29.24	92.9	7.18	8.2	8.8
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR4	15:23:23	1.0	Surface	1	1	19.90	8.11	29.02	90.9	6.98	14.5	9.6
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR4	15:23:09	1.0	Surface	1	2	19.81	8.11	29.03	91.0	7.00	14.2	11.3
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR4	15:22:59	2.7	Bottom	3	1	19.63	8.12	28.98	91.0	7.02	14.4	10.1
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR4	15:23:15	2.7	Bottom	3	2	19.66	8.11	28.97	90.4	6.97	14.2	10.1
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR5	15:41:36	1.0	Surface	1	1	19.67	8.16	31.70	91.5	6.94	6.6	6.2
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR5	15:41:57	1.0	Surface	1	2	19.70	8.15	31.68	91.2	6.92	6.6	6.3
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR5	15:41:26	4.4	Bottom	3	1	19.41	8.14	31.89	91.8	6.99	6.9	5.5
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR5	15:41:47	4.4	Bottom	3	2	19.43	8.17	31.86	90.8	6.91	6.9	5.6
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR10A	16:37:47	1.0	Surface	1	1	19.59	8.11	28.92	88.5	6.84	5.3	4.8
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR10A	16:36:54	1.0	Surface	1	2	19.73	8.11	28.89	88.4	6.81	5.0	5.7
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR10A	16:37:40	3.2	Middle	2	1	19.45	8.11	28.89	87.9	6.81	5.5	5.1
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR10A	16:36:44	3.2	Middle	2	2	19.63	8.11	28.91	87.7	6.77	5.0	4.6
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR10A	16:37:15	5.3	Bottom	3	1	19.31	8.10	29.04	87.4	6.78	5.1	4.7
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR10A	16:36:34	5.3	Bottom	3	2	19.33	8.10	29.07	87.2	6.77	5.1	5.9
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR10B	16:46:33	1.0	Surface	1	1	19.71	8.11	28.89	89.2	6.88	5.1	4.7
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR10B	16:46:14	1.0	Surface	1	2	19.62	8.11	28.93	89.1	6.88	5.1	6.3
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR10B	16:46:22	3.9	Bottom	3	1	19.47	8.11	28.85	88.5	6.86	5.3	4.3
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	SR10B	16:46:07	3.9	Bottom	3	2	19.64	8.11	28.80	88.6	6.84	5.3	5.9
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	CS2	14:27:24	1.0	Surface	1	1	19.48	8.17	31.92	92.8	7.06	7.1	8.6
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	CS2	14:27:52	1.0	Surface	1	2	19.50	8.11	31.94	92.2	7.01	7.5	8.1
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	CS2	14:27:13	3.9	Middle	2	1	19.23	8.17	31.98	91.9	7.02	7.6	8.1
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	CS2	14:27:41	3.9	Middle	2	2	19.24	8.11	31.98	91.9	7.02	7.9	8.3
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	CS2	14:27:06	6.7	Bottom	3	1	19.23	8.19	31.99	91.6	7.00	7.5	7.7
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	CS2	14:27:34	6.7	Bottom	3	2	19.29	8.13	31.97	91.9	7.01	7.6	7.7
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	CS(Mf)5	16:02:32	1.0	Surface	1	1	19.57	8.11	28.98	87.4	6.75	5.0	3.3
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	CS(Mf)5	16:03:02	1.0	Surface	1	2	19.56	8.11	28.96	87.3	6.75	5.1	4.0
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	CS(Mf)5	16:02:23	6.2	Middle	2	1	19.29	8.10	29.12	87.0	6.74	5.0	5.2
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	CS(Mf)5	16:02:52	6.2	Middle	2	2	19.31	8.10	29.11	87.0	6.74	5.1	4.6
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	CS(Mf)5	16:02:11	11.4	Bottom	3	1	19.39	8.10	29.11	86.7	6.73	5.1	4.7
HKLR	HY/2011/03	2017-02-01	Mid-Ebb	Sunny	CS(Mf)5	16:02:43	11.4	Bottom	3	2	19.40	8.10	29.09	86.7	6.73	5.0	4.8
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS5	10:48:42	1.0	Surface	1	1	19.12	8.08	28.31	91.1	7.13	8.3	6.9

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS5	10:49:05	1.0	Surface	1	2	19.13	8.07	28.30	90.4	7.07	8.4	8.2
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS5	10:48:36	4.4	Middle	2	1	19.10	8.08	28.32	90.9	7.11	8.5	7.4
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS5	10:48:56	4.4	Middle	2	2	19.09	8.08	28.32	90.4	7.07	8.6	6.7
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS5	10:48:28	7.8	Bottom	3	1	19.11	8.08	28.31	90.8	7.11	8.4	7.5
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS5	10:48:50	7.8	Bottom	3	2	19.11	8.08	28.31	90.3	7.07	8.5	8.3
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS(Mf)6	10:39:11	1.0	Surface	1	1	19.19	8.08	28.31	90.8	7.10	7.6	4.5
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS(Mf)6	10:39:24	1.0	Surface	1	2	19.16	8.08	28.31	90.8	7.10	7.5	3.9
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS(Mf)6	10:39:05	2.4	Bottom	3	1	19.15	8.08	28.30	90.7	7.09	7.6	6.9
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS(Mf)6	10:39:17	2.4	Bottom	3	2	19.17	8.08	28.29	90.7	7.09	7.4	5.9
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS7	10:32:47	1.0	Surface	1	1	19.27	8.08	28.28	91.1	7.11	7.4	5.8
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS7	10:33:06	1.0	Surface	1	2	19.20	8.08	28.28	90.9	7.10	7.4	5.4
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS7	10:32:40	2.4	Bottom	3	1	19.22	8.08	28.27	90.8	7.10	7.7	7.1
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS7	10:32:58	2.4	Bottom	3	2	19.14	8.08	28.30	90.8	7.10	7.5	5.3
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS8	10:12:05	1.0	Surface	1	1	19.23	8.07	28.22	90.3	7.05	11.6	11.7
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS8	10:11:53	1.0	Surface	1	2	19.23	8.07	28.22	91.3	7.13	11.6	13.2
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS8	10:11:45	3.4	Bottom	3	1	19.24	8.07	28.22	90.8	7.09	11.7	12.8
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS8	10:11:58	3.4	Bottom	3	2	19.23	8.07	28.22	90.1	7.03	11.8	12.4
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS(Mf)9	10:26:44	1.0	Surface	1	1	19.24	8.07	28.27	92.1	7.19	6.7	8.1
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS(Mf)9	10:26:31	1.0	Surface	1	2	19.26	8.07	28.26	92.7	7.23	6.6	7.4
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS(Mf)9	10:26:37	2.8	Bottom	3	1	19.23	8.07	28.24	92.2	7.20	6.8	9.6
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS(Mf)9	10:26:22	2.8	Bottom	3	2	19.22	8.07	28.23	93.0	7.26	6.9	8.4
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS10	10:09:53	1.0	Surface	1	1	19.07	8.20	32.06	91.0	6.97	16.2	18.0
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS10	10:09:24	1.0	Surface	1	2	19.05	8.22	32.07	90.3	6.91	16.7	17.5
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS10	10:09:42	5.4	Middle	2	1	19.02	8.19	32.12	90.2	6.91	18.2	19.9
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS10	10:09:11	5.4	Middle	2	2	19.02	8.21	32.13	90.3	6.92	18.5	18.5
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS10	10:09:03	9.8	Bottom	3	1	19.01	8.21	32.14	90.6	6.94	18.5	18.5
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	IS10	10:09:34	9.8	Bottom	3	2	19.03	8.21	32.12	90.2	6.91	18.1	18.7
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR3	10:55:55	0.7	Middle	2	1	19.16	8.07	28.30	90.2	7.05	7.4	6.9
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR3	10:55:49	0.7	Middle	2	2	19.16	8.07	28.30	90.2	7.05	7.4	7.7
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR4	10:19:18	1.0	Surface	1	1	19.23	8.07	28.23	88.5	6.91	12.9	13.5
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR4	10:19:06	1.0	Surface	1	2	19.22	8.07	28.23	88.6	6.92	12.5	14.2
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR4	10:19:00	2.8	Bottom	3	1	19.23	8.07	28.23	88.6	6.92	12.6	14.8
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR4	10:19:12	2.8	Bottom	3	2	19.22	8.07	28.23	88.6	6.92	12.6	14.8
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR5	10:18:30	1.0	Surface	1	1	19.07	8.21	32.06	90.0	6.89	14.0	19.6
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR5	10:18:47	1.0	Surface	1	2	19.07	8.21	32.06	90.4	6.92	15.0	21.0
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR5	10:18:38	4.2	Bottom	3	1	19.05	8.21	32.09	90.2	6.91	17.2	20.7
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR5	10:18:19	4.2	Bottom	3	2	19.04	8.20	32.10	90.8	6.96	17.5	22.1
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR10A	09:11:54	1.0	Surface	1	1	19.18	8.06	28.53	89.3	6.97	8.4	6.1
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR10A	09:12:23	1.0	Surface	1	2	19.18	8.06	28.50	89.2	6.96	8.4	6.1
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR10A	09:11:45	3.3	Middle	2	1	19.17	8.06	28.56	89.1	6.96	8.7	8.0
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR10A	09:12:13	3.3	Middle	2	2	19.17	8.06	28.53	89.1	6.95	8.6	7.2
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR10A	09:12:03	5.5	Bottom	3	1	19.17	8.06	28.54	89.1	6.95	8.5	8.2
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR10A	09:11:37	5.5	Bottom	3	2	19.17	8.06	28.57	89.2	6.96	8.7	7.0
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR10B	09:03:05	1.0	Surface	1	1	19.19	8.05	28.82	90.9	7.08	6.9	6.0
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR10B	09:03:21	1.0	Surface	1	2	19.18	8.05	28.77	90.3	7.04	7.1	7.4
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR10B	09:03:12	4.1	Bottom	3	1	19.18	8.05	28.81	90.6	7.06	7.1	7.2
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	SR10B	09:02:52	4.1	Bottom	3	2	19.17	8.05	28.92	91.4	7.12	6.9	6.8
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	CS2	11:35:42	1.0	Surface	1	1	19.01	8.17	32.18	91.0	6.97	14.3	18.3
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	CS2	11:35:04	1.0	Surface	1	2	19.02	8.18	32.18	90.6	6.94	14.2	17.6
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	CS2	11:35:30	3.9	Middle	2	1	19.00	8.15	32.18	90.4	6.92	14.9	17.3
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	CS2	11:34:50	3.9	Middle	2	2	19.01	8.15	32.19	91.0	6.97	14.5	19.3
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	CS2	11:35:17	6.7	Bottom	3	1	19.01	8.15	32.19	91.4	7.00	14.6	23.3

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	CS2	11:34:43	6.7	Bottom	3	2	19.01	8.14	32.18	91.0	6.97	15.5	21.1
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	CS(Mf)5	09:41:31	1.0	Surface	1	1	19.19	8.07	28.38	88.7	6.93	10.2	5.5
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	CS(Mf)5	09:40:49	1.0	Surface	1	2	19.18	8.07	28.40	88.8	6.93	10.3	6.2
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	CS(Mf)5	09:40:39	6.3	Middle	2	1	19.17	8.07	28.41	88.5	6.91	10.5	6.5
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	CS(Mf)5	09:41:21	6.3	Middle	2	2	19.17	8.07	28.40	88.5	6.91	10.4	6.6
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	CS(Mf)5	09:41:09	11.6	Bottom	3	1	19.17	8.07	28.40	88.3	6.90	10.5	5.9
HKLR	HY/2011/03	2017-02-01	Mid-Flood	Sunny	CS(Mf)5	09:40:31	11.6	Bottom	3	2	19.17	8.07	28.41	88.4	6.90	10.3	7.8
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS5	16:24:31	1.0	Surface	1	1	19.23	8.06	27.65	91.9	7.20	9.9	13.1
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS5	16:25:19	1.0	Surface	1	2	19.19	8.06	27.80	91.6	7.18	9.7	11.2
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS5	16:24:14	4.5	Middle	2	1	19.02	8.06	27.64	91.1	7.17	10.1	11.9
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS5	16:25:06	4.5	Middle	2	2	19.01	8.06	27.80	91.1	7.17	10.1	11.4
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS5	16:24:00	8.0	Bottom	3	1	19.01	8.06	27.60	91.1	7.17	10.5	11.0
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS5	16:24:55	8.0	Bottom	3	2	19.00	8.06	27.78	91.1	7.16	10.4	11.2
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS(Mf)6	16:30:57	1.0	Surface	1	1	19.22	8.06	28.14	94.7	7.40	9.3	9.3
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS(Mf)6	16:30:48	1.0	Surface	1	2	19.25	8.06	28.13	95.1	7.43	9.3	11.1
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS(Mf)6	16:30:41	2.2	Bottom	3	1	19.26	8.06	28.10	94.9	7.42	9.3	10.7
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS(Mf)6	16:30:52	2.2	Bottom	3	2	19.26	8.06	28.11	94.6	7.39	9.3	11.9
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS7	16:35:58	1.0	Surface	1	1	19.26	8.06	28.21	93.8	7.32	9.1	10.8
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS7	16:36:05	1.0	Surface	1	2	19.24	8.06	28.21	93.7	7.31	9.3	10.5
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS7	16:35:52	2.2	Bottom	3	1	19.26	8.06	28.19	93.7	7.32	9.3	9.4
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS7	16:36:01	2.2	Bottom	3	2	19.28	8.06	28.19	93.7	7.31	9.4	10.7
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS8	16:59:20	1.0	Surface	1	1	19.13	8.06	28.30	90.4	7.07	14.0	15.2
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS8	16:59:10	1.0	Surface	1	2	19.12	8.06	28.28	90.5	7.08	14.2	14.3
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS8	16:59:15	2.3	Bottom	3	1	19.13	8.06	28.29	90.4	7.07	14.3	14.2
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS8	16:59:06	2.3	Bottom	3	2	19.14	8.06	28.27	90.5	7.08	14.4	16.3
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS(Mf)9	16:41:34	1.0	Surface	1	1	19.23	8.06	28.24	93.5	7.30	9.3	9.8
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS(Mf)9	16:41:27	1.0	Surface	1	2	19.22	8.06	28.24	93.5	7.30	9.3	11.1
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS(Mf)9	16:41:24	2.3	Bottom	3	1	19.24	8.06	28.23	93.4	7.29	9.3	11.0
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS(Mf)9	16:41:31	2.3	Bottom	3	2	19.24	8.06	28.23	93.4	7.30	9.3	11.4
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS10	17:53:10	1.0	Surface	1	1	18.99	8.10	32.08	89.7	6.88	9.3	8.0
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS10	17:52:24	1.0	Surface	1	2	19.06	8.09	32.08	89.6	6.87	9.6	8.6
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS10	17:53:01	5.4	Middle	2	1	18.97	8.09	32.08	89.6	6.87	9.5	8.4
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS10	17:52:16	5.4	Middle	2	2	18.98	8.09	32.09	89.4	6.86	9.7	9.1
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS10	17:52:08	9.8	Bottom	3	1	19.03	8.08	32.05	89.4	6.85	9.9	7.0
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	IS10	17:52:52	9.8	Bottom	3	2	18.95	8.08	32.08	89.1	6.83	9.7	8.2
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR3	16:16:58	0.7	Middle	2	1	19.26	8.09	26.71	94.6	7.45	10.2	10.4
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR3	16:17:03	0.7	Middle	2	2	19.24	8.09	26.75	94.4	7.44	10.3	12.1
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR4	16:53:23	1.0	Surface	1	1	19.09	8.06	28.23	92.1	7.21	14.0	14.4
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR4	16:53:15	1.0	Surface	1	2	19.08	8.07	28.22	92.8	7.26	14.2	12.8
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR4	16:53:10	2.4	Bottom	3	1	19.16	8.07	28.17	92.4	7.24	14.2	13.6
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR4	16:53:19	2.4	Bottom	3	2	19.12	8.07	28.20	92.0	7.20	14.2	14.2
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR5	17:36:45	1.0	Surface	1	1	19.00	8.08	32.09	90.8	6.96	9.5	8.1
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR5	17:36:27	1.0	Surface	1	2	18.97	8.05	32.09	92.5	7.10	9.6	9.2
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR5	17:36:35	4.2	Bottom	3	1	18.99	8.05	32.07	90.2	6.92	9.8	7.7
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR5	17:36:18	4.2	Bottom	3	2	18.96	8.04	32.07	89.7	6.88	9.7	8.6
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR10A	18:01:34	1.0	Surface	1	1	19.33	8.07	28.70	87.8	6.83	3.3	4.3
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR10A	18:02:31	1.0	Surface	1	2	19.20	8.07	28.83	86.9	6.76	3.4	4.7
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR10A	18:02:20	3.2	Middle	2	1	19.03	8.06	29.06	86.6	6.76	3.5	4.0
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR10A	18:01:14	3.2	Middle	2	2	19.05	8.06	29.05	87.3	6.80	3.5	3.9
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR10A	18:02:05	5.3	Bottom	3	1	19.03	8.06	29.09	86.5	6.74	3.5	4.4
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR10A	18:01:07	5.3	Bottom	3	2	19.14	8.06	28.96	87.0	6.79	3.5	4.3
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR10B	18:10:51	1.0	Surface	1	1	19.28	8.07	28.77	87.5	6.80	3.1	4.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR10B	18:10:10	1.0	Surface	1	2	19.23	8.07	28.82	87.4	6.80	3.3	3.5
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR10B	18:10:21	4.1	Bottom	3	1	19.08	8.06	29.04	87.1	6.79	3.3	4.8
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	SR10B	18:09:56	4.1	Bottom	3	2	19.11	8.06	29.01	87.0	6.78	3.4	3.6
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	CS2	16:15:08	1.0	Surface	1	1	19.08	8.06	31.95	91.2	6.98	7.3	8.6
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	CS2	16:15:34	1.0	Surface	1	2	19.08	8.04	31.95	91.3	6.99	7.4	8.8
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	CS2	16:14:56	4.2	Middle	2	1	19.05	8.02	31.99	90.7	6.95	7.5	9.7
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	CS2	16:15:27	4.2	Middle	2	2	19.06	8.03	32.00	90.8	6.96	7.5	10.5
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	CS2	16:14:46	7.3	Bottom	3	1	19.06	8.04	32.07	90.5	6.93	7.6	10.8
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	CS2	16:15:18	7.3	Bottom	3	2	19.06	8.01	32.04	90.6	6.94	7.7	11.8
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	CS(Mf)5	17:35:32	1.0	Surface	1	1	19.11	8.06	28.88	86.9	6.78	3.7	5.8
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	CS(Mf)5	17:34:20	1.0	Surface	1	2	19.23	8.07	28.69	87.4	6.81	3.8	5.3
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	CS(Mf)5	17:34:02	6.7	Middle	2	1	19.00	8.06	29.01	87.0	6.79	4.0	5.3
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	CS(Mf)5	17:35:21	6.7	Middle	2	2	19.01	8.06	29.06	86.4	6.74	3.9	4.6
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	CS(Mf)5	17:34:45	12.3	Bottom	3	1	19.00	8.06	29.05	86.0	6.71	4.1	4.3
HKLR	HY/2011/03	2017-02-03	Mid-Ebb	Cloudy	CS(Mf)5	17:33:51	12.3	Bottom	3	2	19.02	8.06	28.98	86.6	6.76	4.0	5.0
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS5	12:07:04	1.0	Surface	1	1	18.91	8.04	28.42	91.2	7.16	11.3	14.3
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS5	12:06:19	1.0	Surface	1	2	18.91	8.04	28.42	91.5	7.18	11.4	14.7
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS5	12:06:53	4.5	Middle	2	1	18.92	8.05	28.43	91.1	7.15	11.5	14.7
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS5	12:06:08	4.5	Middle	2	2	18.92	8.04	28.43	91.4	7.17	11.4	15.2
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS5	12:06:44	8.0	Bottom	3	1	18.93	8.05	28.44	91.1	7.14	11.5	17.1
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS5	12:05:59	8.0	Bottom	3	2	18.92	8.04	28.44	91.4	7.17	11.6	15.7
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS(Mf)6	11:59:15	1.0	Surface	1	1	18.97	8.05	28.46	94.1	7.37	12.0	13.0
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS(Mf)6	11:59:23	1.0	Surface	1	2	18.96	8.05	28.46	93.4	7.32	12.0	15.1
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS(Mf)6	11:59:19	2.3	Bottom	3	1	18.98	8.05	28.45	93.2	7.30	12.4	12.9
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS(Mf)6	11:59:10	2.3	Bottom	3	2	18.98	8.05	28.45	93.7	7.35	12.3	14.9
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS7	11:49:25	1.0	Surface	1	1	18.92	8.05	28.35	90.3	7.09	16.1	18.2
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS7	11:49:49	1.0	Surface	1	2	18.93	8.05	28.35	90.3	7.09	16.0	19.7
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS7	11:49:20	2.2	Bottom	3	1	18.91	8.05	28.34	90.2	7.08	16.3	20.1
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS7	11:49:29	2.2	Bottom	3	2	18.92	8.05	28.34	90.1	7.08	16.1	21.3
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS8	11:33:56	1.0	Surface	1	1	19.07	8.05	28.41	92.6	7.25	12.1	12.3
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS8	11:33:48	1.0	Surface	1	2	19.07	8.05	28.40	93.6	7.32	12.2	12.5
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS8	11:33:52	2.3	Bottom	3	1	19.08	8.05	28.40	92.3	7.22	12.1	11.8
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS8	11:33:45	2.3	Bottom	3	2	19.08	8.05	28.40	93.1	7.29	12.3	11.4
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS(Mf)9	11:44:43	1.0	Surface	1	1	18.93	8.05	28.33	92.7	7.28	15.1	18.5
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS(Mf)9	11:44:50	1.0	Surface	1	2	18.93	8.05	28.33	92.1	7.23	15.2	16.8
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS(Mf)9	11:44:39	2.3	Bottom	3	1	18.94	8.05	28.32	92.4	7.25	15.2	20.4
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS(Mf)9	11:44:47	2.3	Bottom	3	2	18.94	8.05	28.32	91.8	7.21	15.3	21.1
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS10	11:31:07	1.0	Surface	1	1	18.90	8.09	32.06	90.8	6.95	11.3	14.6
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS10	11:31:54	1.0	Surface	1	2	18.91	8.08	32.06	90.8	6.97	11.2	14.9
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS10	11:31:42	5.5	Middle	2	1	18.90	8.07	32.06	90.3	6.94	11.4	12.2
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS10	11:30:58	5.5	Middle	2	2	18.90	8.09	32.06	90.3	6.93	11.4	13.9
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS10	11:30:49	10.0	Bottom	3	1	18.89	8.08	32.06	89.7	6.89	11.6	15.1
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	IS10	11:31:33	10.0	Bottom	3	2	18.89	8.07	32.06	89.9	6.91	11.5	14.7
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR3	12:14:46	0.8	Middle	2	1	18.90	8.04	28.41	91.3	7.17	11.9	12.4
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR3	12:14:49	0.8	Middle	2	2	18.90	8.04	28.41	91.3	7.17	12.0	11.7
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR4	11:39:11	1.0	Surface	1	1	19.07	8.05	28.43	90.1	7.05	11.9	10.3
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR4	11:39:19	1.0	Surface	1	2	19.08	8.05	28.43	89.9	7.03	11.8	8.9
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR4	11:39:06	2.3	Bottom	3	1	19.08	8.05	28.43	90.0	7.04	11.9	10.9
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR4	11:39:15	2.3	Bottom	3	2	19.08	8.05	28.43	89.8	7.02	11.9	12.0
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR5	11:41:07	1.0	Surface	1	1	18.91	8.08	32.07	89.7	6.89	11.3	13.2
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR5	11:41:25	1.0	Surface	1	2	18.91	8.09	32.06	89.7	6.89	11.2	13.2
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR5	11:40:58	4.3	Bottom	3	1	18.91	8.08	32.07	89.3	6.86	11.5	13.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR5	11:41:17	4.3	Bottom	3	2	18.91	8.09	32.06	89.3	6.86	11.5	14.7
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR10A	10:38:35	1.0	Surface	1	1	19.12	8.03	28.74	88.4	6.90	4.9	6.2
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR10A	10:39:00	1.0	Surface	1	2	19.11	8.03	28.72	88.3	6.89	4.9	6.6
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR10A	10:38:26	3.2	Middle	2	1	19.11	8.03	28.88	88.4	6.89	4.9	6.2
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR10A	10:38:54	3.2	Middle	2	2	19.10	8.03	28.81	88.3	6.89	4.9	7.0
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR10A	10:38:22	5.3	Bottom	3	1	19.12	8.03	28.85	88.3	6.89	5.0	5.7
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR10A	10:38:45	5.3	Bottom	3	2	19.11	8.03	28.82	88.2	6.88	5.0	6.8
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR10B	10:33:01	1.0	Surface	1	1	19.11	8.02	29.28	90.6	7.04	5.1	4.5
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR10B	10:32:39	1.0	Surface	1	2	19.11	8.02	29.51	92.4	7.17	5.1	3.4
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR10B	10:32:51	4.1	Bottom	3	1	19.10	8.02	29.43	90.1	7.01	5.3	4.6
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	SR10B	10:32:32	4.1	Bottom	3	2	19.10	8.01	29.65	91.6	7.12	5.1	4.3
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	CS2	12:57:56	1.0	Surface	1	1	18.92	8.02	32.12	90.7	6.96	12.3	15.8
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	CS2	12:58:21	1.0	Surface	1	2	18.92	8.05	32.12	90.3	6.94	12.3	15.9
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	CS2	12:57:47	4.2	Middle	2	1	18.92	8.00	32.12	89.5	6.87	12.4	15.2
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	CS2	12:58:13	4.2	Middle	2	2	18.92	8.04	32.12	89.8	6.89	12.4	14.1
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	CS2	12:57:41	7.3	Bottom	3	1	18.92	8.03	32.12	89.2	6.85	12.7	15.4
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	CS2	12:58:05	7.3	Bottom	3	2	18.92	8.03	32.12	89.4	6.86	12.8	15.4
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	CS(Mf)5	11:02:38	1.0	Surface	1	1	19.12	8.04	28.45	88.1	6.89	4.9	4.2
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	CS(Mf)5	11:03:28	1.0	Surface	1	2	19.12	8.04	28.41	87.7	6.86	5.0	4.5
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	CS(Mf)5	11:02:31	6.6	Middle	2	1	19.11	8.04	28.56	88.1	6.88	4.9	4.7
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	CS(Mf)5	11:03:15	6.6	Middle	2	2	19.08	8.04	28.58	87.7	6.85	5.0	5.3
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	CS(Mf)5	11:02:25	12.1	Bottom	3	1	19.11	8.04	28.57	88.0	6.87	5.1	4.6
HKLR	HY/2011/03	2017-02-03	Mid-Flood	Cloudy	CS(Mf)5	11:02:52	12.1	Bottom	3	2	19.08	8.04	28.61	87.3	6.83	5.2	3.9
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS5	09:48:33	1.0	Surface	1	1	19.36	8.03	27.97	91.5	7.14	6.4	7.4
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS5	09:48:08	1.0	Surface	1	2	19.35	8.03	27.96	91.9	7.17	6.6	6.1
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS5	09:48:25	4.1	Middle	2	1	19.34	8.03	27.99	91.4	7.13	6.6	7.5
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS5	09:47:59	4.1	Middle	2	2	19.34	8.03	27.98	91.7	7.16	6.6	6.2
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS5	09:48:18	7.1	Bottom	3	1	19.34	8.03	27.99	91.4	7.13	6.5	7.1
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS5	09:47:50	7.1	Bottom	3	2	19.35	8.03	27.97	91.7	7.16	6.6	6.4
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS(Mf)6	09:38:03	1.0	Surface	1	1	19.41	8.03	27.99	92.7	7.22	5.4	6.9
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS(Mf)6	09:37:44	1.0	Surface	1	2	19.38	8.03	27.99	93.0	7.25	5.5	5.9
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS(Mf)6	09:37:56	2.1	Bottom	3	1	19.39	8.03	28.00	92.7	7.23	5.5	7.7
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS(Mf)6	09:37:36	2.1	Bottom	3	2	19.38	8.03	27.99	93.2	7.27	5.6	6.7
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS7	09:29:01	1.0	Surface	1	1	19.35	8.03	27.78	92.3	7.21	8.8	5.6
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS7	09:28:48	1.0	Surface	1	2	19.34	8.03	27.80	92.2	7.21	8.7	7.0
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS7	09:28:54	2.2	Bottom	3	1	19.34	8.03	27.81	92.1	7.20	8.8	6.8
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS7	09:28:43	2.2	Bottom	3	2	19.34	8.03	27.81	92.3	7.21	8.8	8.3
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS8	09:04:19	1.0	Surface	1	1	19.38	8.03	27.50	93.3	7.29	8.5	4.2
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS8	09:03:59	1.0	Surface	1	2	19.36	8.03	27.55	93.7	7.33	8.4	5.5
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS8	09:03:51	2.8	Bottom	3	1	19.39	8.03	27.81	94.1	7.35	8.1	5.3
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS8	09:04:08	2.8	Bottom	3	2	19.36	8.03	27.76	93.5	7.31	8.4	6.0
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS(Mf)9	09:21:44	1.0	Surface	1	1	19.34	8.03	27.77	93.1	7.28	7.2	4.9
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS(Mf)9	09:21:27	1.0	Surface	1	2	19.34	8.03	27.75	93.7	7.32	7.0	6.4
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS(Mf)9	09:21:36	2.7	Bottom	3	1	19.34	8.03	27.79	93.4	7.30	7.2	7.2
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS(Mf)9	09:21:16	2.7	Bottom	3	2	19.33	8.03	27.78	94.1	7.36	7.2	7.3
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS10	08:37:55	1.0	Surface	1	1	19.40	8.19	30.86	90.9	6.97	4.2	5.5
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS10	08:37:26	1.0	Surface	1	2	19.28	8.20	31.23	90.5	6.94	4.1	4.1
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS10	08:37:20	5.4	Middle	2	1	19.23	8.20	31.62	90.7	6.94	4.2	4.9
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS10	08:37:43	5.4	Middle	2	2	19.23	8.20	31.62	90.1	6.90	4.5	4.1
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS10	08:37:10	9.8	Bottom	3	1	19.24	8.20	31.62	91.5	7.01	4.2	5.5
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	IS10	08:37:35	9.8	Bottom	3	2	19.28	8.19	31.47	91.0	6.96	4.4	4.5
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR3	09:55:11	0.6	Middle	2	1	19.36	8.04	27.97	91.6	7.15	6.4	7.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR3	09:55:17	0.6	Middle	2	2	19.36	8.04	27.97	91.7	7.15	6.2	6.9
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR4	09:11:07	1.0	Surface	1	1	19.36	8.03	27.54	92.5	7.24	6.8	6.1
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR4	09:10:50	1.0	Surface	1	2	19.38	8.03	27.60	92.6	7.24	6.8	5.6
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR4	09:10:56	2.7	Bottom	3	1	19.39	8.03	27.76	92.6	7.23	6.8	6.0
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR4	09:10:43	2.7	Bottom	3	2	19.38	8.03	27.81	92.7	7.24	7.0	7.4
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR5	08:45:38	1.0	Surface	1	1	19.29	8.19	31.16	91.9	7.05	4.2	3.5
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR5	08:46:01	1.0	Surface	1	2	19.37	8.20	30.92	90.6	6.95	4.2	5.0
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR5	08:45:25	4.2	Bottom	3	1	19.24	8.15	31.62	92.2	7.05	4.5	3.5
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR5	08:45:46	4.2	Bottom	3	2	19.27	8.19	31.49	91.2	6.98	4.4	4.3
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR10A	07:47:36	1.0	Surface	1	1	19.16	8.01	27.71	88.1	6.89	3.1	3.8
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR10A	07:48:05	1.0	Surface	1	2	19.18	8.00	27.72	88.2	6.91	3.1	3.1
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR10A	07:47:54	3.4	Middle	2	1	19.13	8.01	28.40	87.9	6.87	3.1	5.8
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR10A	07:47:28	3.4	Middle	2	2	19.12	8.00	28.44	88.0	6.90	3.1	4.9
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR10A	07:47:46	5.7	Bottom	3	1	19.13	8.00	28.39	87.8	6.86	3.2	5.6
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR10A	07:47:19	5.7	Bottom	3	2	19.14	8.00	28.37	87.9	6.87	3.0	5.9
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR10B	07:37:31	1.0	Surface	1	1	19.20	7.99	28.05	88.2	6.90	3.1	4.3
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR10B	07:36:31	1.0	Surface	1	2	19.19	7.98	28.31	88.9	6.95	3.2	2.9
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR10B	07:36:19	4.1	Bottom	3	1	19.16	7.98	28.79	89.2	6.95	3.1	5.0
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	SR10B	07:37:11	4.1	Bottom	3	2	19.12	7.99	28.71	88.1	6.87	3.0	4.4
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	CS2	10:03:02	1.0	Surface	1	1	19.32	8.15	31.17	90.9	6.96	4.6	4.1
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	CS2	10:02:31	1.0	Surface	1	2	19.38	8.13	30.94	94.0	7.20	4.8	3.7
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	CS2	10:02:56	3.9	Middle	2	1	19.29	8.14	31.44	90.9	6.96	4.7	5.2
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	CS2	10:01:10	3.9	Middle	2	2	19.29	8.18	31.46	91.2	6.98	4.7	3.9
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	CS2	10:01:02	6.7	Bottom	3	1	19.26	8.16	31.65	92.3	7.06	5.1	5.4
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	CS2	10:02:43	6.7	Bottom	3	2	19.30	8.14	31.43	92.2	7.06	4.7	5.5
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	CS(Mf)5	08:27:55	1.0	Surface	1	1	19.15	8.02	27.59	87.5	6.87	3.3	3.1
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	CS(Mf)5	08:27:28	1.0	Surface	1	2	19.17	8.02	27.99	87.6	6.86	3.3	4.2
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	CS(Mf)5	08:27:18	6.0	Middle	2	1	19.09	8.02	28.46	87.5	6.84	3.3	4.0
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	CS(Mf)5	08:27:46	6.0	Middle	2	2	19.09	8.02	28.46	87.3	6.83	3.4	4.7
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	CS(Mf)5	08:27:13	10.9	Bottom	3	1	19.11	8.01	28.38	87.3	6.83	3.4	4.6
HKLR	HY/2011/03	2017-02-06	Mid-Ebb	Sunny	CS(Mf)5	08:27:38	10.9	Bottom	3	2	19.13	8.02	28.37	87.2	6.82	3.4	3.9
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS5	12:54:53	1.0	Surface	1	1	19.52	8.08	27.55	93.3	7.28	6.7	6.8
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS5	12:55:21	1.0	Surface	1	2	19.53	8.08	27.58	93.0	7.25	6.5	6.9
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS5	12:55:11	4.3	Middle	2	1	19.51	8.08	27.58	93.0	7.25	6.6	8.3
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS5	12:54:46	4.3	Middle	2	2	19.50	8.08	27.54	93.2	7.27	6.8	7.7
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS5	12:54:38	7.5	Bottom	3	1	19.50	8.08	27.52	93.2	7.27	6.8	9.3
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS5	12:55:01	7.5	Bottom	3	2	19.51	8.08	27.56	92.9	7.24	6.8	8.4
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS(Mf)6	13:04:57	1.0	Surface	1	1	19.54	8.08	27.72	96.2	7.49	9.2	9.2
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS(Mf)6	13:04:42	1.0	Surface	1	2	19.54	8.08	27.69	96.6	7.53	9.0	10.1
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS(Mf)6	13:04:35	2.2	Bottom	3	1	19.54	8.08	27.70	96.9	7.54	9.2	11.4
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS(Mf)6	13:04:49	2.2	Bottom	3	2	19.54	8.08	27.72	96.5	7.51	9.4	11.1
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS7	13:10:55	1.0	Surface	1	1	19.55	8.08	27.75	96.2	7.49	9.2	11.4
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS7	13:11:10	1.0	Surface	1	2	19.55	8.08	27.76	96.3	7.49	8.9	10.3
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS7	13:11:02	2.2	Bottom	3	1	19.55	8.08	27.75	96.2	7.49	9.1	12.1
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS7	13:10:48	2.2	Bottom	3	2	19.55	8.08	27.75	96.1	7.48	9.2	13.6
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS8	13:32:37	1.0	Surface	1	1	19.59	8.06	27.76	92.3	7.18	23.4	19.8
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS8	13:32:52	1.0	Surface	1	2	19.55	8.06	27.78	92.2	7.17	23.6	20.9
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS8	13:32:43	2.8	Bottom	3	1	19.56	8.06	27.83	92.2	7.17	23.5	20.9
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS8	13:32:29	2.8	Bottom	3	2	19.57	8.06	27.82	92.2	7.17	23.5	21.1
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS(Mf)9	13:16:51	1.0	Surface	1	1	19.59	8.07	27.83	95.6	7.44	7.3	7.6
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS(Mf)9	13:16:40	1.0	Surface	1	2	19.59	8.07	27.83	96.1	7.47	7.3	6.2
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS(Mf)9	13:16:33	2.6	Bottom	3	1	19.58	8.07	27.83	96.3	7.49	7.4	7.4

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS(Mf)9	13:16:45	2.6	Bottom	3	2	19.59	8.07	27.83	95.8	7.45	7.4	7.2
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS10	14:18:13	1.0	Surface	1	1	19.51	8.22	31.43	89.8	6.84	4.4	5.4
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS10	14:17:31	1.0	Surface	1	2	19.50	8.22	31.44	89.6	6.83	4.4	6.3
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS10	14:17:55	5.3	Middle	2	1	19.24	8.22	31.69	88.9	6.80	4.3	6.4
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS10	14:17:15	5.3	Middle	2	2	19.22	8.21	31.73	89.1	6.82	4.1	5.4
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS10	14:17:47	9.6	Bottom	3	1	19.24	8.22	31.73	90.0	6.88	4.3	5.1
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	IS10	14:17:09	9.6	Bottom	3	2	19.21	8.18	31.75	89.5	6.85	4.4	5.3
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR3	12:46:22	0.7	Middle	2	1	19.56	8.11	27.13	96.1	7.51	6.2	8.1
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR3	12:46:16	0.7	Middle	2	2	19.56	8.11	27.08	96.3	7.53	6.1	7.7
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR4	13:23:30	1.0	Surface	1	1	19.58	8.06	27.75	92.7	7.22	22.5	18.4
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR4	13:23:13	1.0	Surface	1	2	19.58	8.06	27.75	93.0	7.24	22.1	19.1
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR4	13:23:20	2.6	Bottom	3	1	19.55	8.06	27.83	92.8	7.22	22.2	20.7
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR4	13:23:05	2.6	Bottom	3	2	19.54	8.06	27.86	93.1	7.25	22.2	21.5
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR5	14:10:40	1.0	Surface	1	1	19.47	8.23	31.45	90.3	6.89	4.5	5.5
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR5	14:10:11	1.0	Surface	1	2	19.39	8.23	31.50	90.1	6.88	4.4	6.4
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR5	14:10:28	4.2	Bottom	3	1	19.27	8.23	31.62	89.0	6.81	4.5	4.8
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR5	14:10:02	4.2	Bottom	3	2	19.27	8.21	31.61	90.4	6.91	4.5	5.6
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR10A	15:04:21	1.0	Surface	1	1	19.20	8.07	28.54	88.4	6.89	2.3	3.3
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR10A	15:03:59	1.0	Surface	1	2	19.22	8.07	28.51	88.4	6.89	2.3	4.1
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR10A	15:03:51	3.3	Middle	2	1	19.09	8.06	28.73	88.3	6.88	2.3	4.3
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR10A	15:04:14	3.3	Middle	2	2	19.10	8.06	28.74	88.3	6.89	2.3	4.0
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR10A	15:04:05	5.5	Bottom	3	1	19.17	8.07	28.72	88.1	6.88	2.3	4.8
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR10A	15:03:45	5.5	Bottom	3	2	19.17	8.07	28.72	88.1	6.88	2.3	3.9
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR10B	15:12:32	1.0	Surface	1	1	19.23	8.07	28.53	88.6	6.91	2.3	4.9
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR10B	15:12:51	1.0	Surface	1	2	19.20	8.07	28.58	88.6	6.91	2.2	3.4
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR10B	15:12:22	4.1	Bottom	3	1	19.14	8.06	28.78	88.3	6.89	2.2	4.9
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	SR10B	15:12:43	4.1	Bottom	3	2	19.08	8.06	28.89	88.5	6.90	2.1	3.9
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	CS2	12:52:56	1.0	Surface	1	1	19.57	8.25	30.93	91.7	7.01	5.8	5.9
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	CS2	12:53:22	1.0	Surface	1	2	19.45	8.22	31.13	89.8	6.87	6.1	4.7
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	CS2	12:53:16	3.8	Middle	2	1	19.30	8.22	31.62	90.5	6.92	6.9	5.7
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	CS2	12:52:48	3.8	Middle	2	2	19.27	8.21	31.68	90.5	6.92	6.7	5.1
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	CS2	12:53:06	6.5	Bottom	3	1	19.40	8.24	31.51	91.6	7.00	6.2	5.6
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	CS2	12:52:40	6.5	Bottom	3	2	19.25	8.23	31.77	91.8	7.02	6.6	5.4
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	CS(Mf)5	14:28:34	1.0	Surface	1	1	19.13	8.07	28.60	87.0	6.80	2.5	2.7
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	CS(Mf)5	14:28:04	1.0	Surface	1	2	19.16	8.07	28.52	87.4	6.82	2.5	2.9
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	CS(Mf)5	14:27:53	6.5	Middle	2	1	18.98	8.06	28.94	87.3	6.82	2.6	3.6
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	CS(Mf)5	14:28:25	6.5	Middle	2	2	18.98	8.06	28.98	86.9	6.79	2.6	3.9
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	CS(Mf)5	14:28:18	11.9	Bottom	3	1	19.00	8.06	28.95	86.6	6.77	2.7	5.0
HKLR	HY/2011/03	2017-02-06	Mid-Flood	Sunny	CS(Mf)5	14:27:40	11.9	Bottom	3	2	18.98	8.06	28.93	86.8	6.78	2.6	4.6
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS5	12:07:44	1.0	Surface	1	1	18.83	8.04	28.04	95.1	7.49	9.2	9.1
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS5	12:07:17	1.0	Surface	1	2	18.84	8.04	28.03	95.6	7.53	9.2	10.0
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS5	12:07:31	4.1	Middle	2	1	18.82	8.04	28.05	95.0	7.49	9.5	13.0
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS5	12:07:03	4.1	Middle	2	2	18.82	8.04	28.03	95.4	7.52	9.2	13.4
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS5	12:07:25	7.1	Bottom	3	1	18.83	8.04	28.04	95.0	7.48	9.1	14.0
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS5	12:06:56	7.1	Bottom	3	2	18.84	8.04	28.03	95.4	7.51	9.3	14.9
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS(Mf)6	11:59:51	1.0	Surface	1	1	18.81	8.04	27.96	96.3	7.59	8.6	16.1
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS(Mf)6	11:59:40	1.0	Surface	1	2	18.81	8.04	27.96	96.8	7.63	8.6	14.5
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS(Mf)6	11:59:35	2.1	Bottom	3	1	18.80	8.04	27.95	97.0	7.65	8.8	15.1
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS(Mf)6	11:59:46	2.1	Bottom	3	2	18.81	8.04	27.96	96.4	7.60	8.5	15.5
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS7	11:50:54	1.0	Surface	1	1	18.76	8.05	28.20	94.6	7.46	7.4	10.8
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS7	11:51:09	1.0	Surface	1	2	18.76	8.05	28.20	94.7	7.46	7.2	9.1
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS7	11:51:01	2.1	Bottom	3	1	18.76	8.05	28.20	94.6	7.46	7.3	10.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS7	11:50:47	2.1	Bottom	3	2	18.76	8.04	28.20	94.6	7.46	7.5	11.2
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS8	11:27:23	1.0	Surface	1	1	18.81	8.04	28.22	94.3	7.42	15.4	18.5
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS8	11:27:39	1.0	Surface	1	2	18.81	8.04	28.23	93.8	7.38	15.3	18.5
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS8	11:27:11	3.0	Bottom	3	1	18.81	8.04	28.23	94.8	7.46	15.6	20.0
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS8	11:27:30	3.0	Bottom	3	2	18.81	8.04	28.23	94.0	7.40	15.2	21.2
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS(Mf)9	11:44:39	1.0	Surface	1	1	18.76	8.04	28.18	95.8	7.55	7.7	9.3
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS(Mf)9	11:44:50	1.0	Surface	1	2	18.76	8.04	28.19	95.3	7.51	7.8	9.8
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS(Mf)9	11:44:33	2.7	Bottom	3	1	18.76	8.04	28.19	96.1	7.57	7.8	15.7
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS(Mf)9	11:44:44	2.7	Bottom	3	2	18.76	8.04	28.20	95.5	7.53	7.9	16.7
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS10	10:45:06	1.0	Surface	1	1	19.11	8.11	31.02	94.7	7.28	4.4	8.8
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS10	10:45:36	1.0	Surface	1	2	19.07	8.12	31.16	94.5	7.26	4.4	7.1
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS10	10:45:25	5.3	Middle	2	1	18.92	8.11	31.96	94.0	7.23	4.7	8.9
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS10	10:44:56	5.3	Middle	2	2	18.98	8.10	31.57	93.8	7.23	4.7	9.3
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS10	10:45:16	9.6	Bottom	3	1	18.99	8.11	31.75	93.3	7.19	4.8	13.9
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	IS10	10:44:48	9.6	Bottom	3	2	18.94	8.10	31.89	93.5	7.18	4.9	12.0
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR3	12:18:31	0.6	Middle	2	1	18.85	8.04	28.04	95.1	7.49	8.9	13.3
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR3	12:18:25	0.6	Middle	2	2	18.85	8.04	28.04	95.1	7.49	8.8	12.3
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR4	11:34:33	1.0	Surface	1	1	18.81	8.04	28.27	93.1	7.33	11.9	12.0
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR4	11:34:50	1.0	Surface	1	2	18.81	8.04	28.26	93.0	7.32	11.5	13.6
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR4	11:34:41	2.6	Bottom	3	1	18.81	8.04	28.27	92.9	7.31	11.5	14.4
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR4	11:34:26	2.6	Bottom	3	2	18.81	8.04	28.27	93.1	7.33	11.8	14.6
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR5	10:55:34	1.0	Surface	1	1	19.06	8.14	31.37	92.9	7.15	5.2	5.1
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR5	10:55:01	1.0	Surface	1	2	18.98	8.13	31.59	93.6	7.19	5.2	6.1
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR5	10:55:17	4.0	Bottom	3	1	18.90	8.13	32.08	92.8	7.13	5.4	5.3
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR5	10:54:52	4.0	Bottom	3	2	18.95	8.12	31.93	92.8	7.13	5.5	6.3
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR10A	10:17:33	1.0	Surface	1	1	18.86	8.03	28.69	91.0	7.13	3.9	5.8
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR10A	10:17:03	1.0	Surface	1	2	18.86	8.03	28.73	91.0	7.14	4.0	5.3
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR10A	10:16:53	3.2	Middle	2	1	18.86	8.03	28.76	91.0	7.13	3.9	6.8
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR10A	10:17:23	3.2	Middle	2	2	18.86	8.03	28.71	90.8	7.12	3.9	7.7
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR10A	10:17:13	5.3	Bottom	3	1	18.86	8.03	28.74	90.8	7.12	4.1	8.3
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR10A	10:16:46	5.3	Bottom	3	2	18.86	8.03	28.77	91.0	7.13	4.0	9.8
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR10B	10:07:06	1.0	Surface	1	1	18.87	8.03	29.12	92.4	7.23	4.2	5.5
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR10B	10:07:19	1.0	Surface	1	2	18.87	8.03	29.05	92.1	7.21	4.0	5.7
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR10B	10:07:12	3.8	Bottom	3	1	18.87	8.03	29.09	92.2	7.21	4.2	5.7
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	SR10B	10:06:59	3.8	Bottom	3	2	18.87	8.03	29.17	92.6	7.24	4.1	5.4
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	CS2	12:13:58	1.0	Surface	1	1	19.17	8.16	31.02	94.6	7.27	4.3	4.9
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	CS2	12:13:25	1.0	Surface	1	2	19.17	8.15	31.04	94.2	7.24	4.3	4.9
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	CS2	12:13:44	4.1	Middle	2	1	19.07	8.16	31.30	94.0	7.23	4.6	6.9
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	CS2	12:13:17	4.1	Middle	2	2	19.08	8.15	31.26	93.9	7.22	4.5	8.0
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	CS2	12:13:08	7.2	Bottom	3	1	18.99	8.12	31.70	93.4	7.19	4.8	7.7
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	CS2	12:13:33	7.2	Bottom	3	2	19.10	8.15	31.41	93.8	7.22	4.9	9.3
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	CS(Mf)5	10:51:06	1.0	Surface	1	1	18.85	8.03	28.59	89.9	7.05	3.8	3.9
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	CS(Mf)5	10:50:37	1.0	Surface	1	2	18.85	8.03	28.60	89.9	7.06	3.8	5.1
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	CS(Mf)5	10:50:29	5.9	Middle	2	1	18.83	8.03	28.68	89.8	7.05	3.8	4.9
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	CS(Mf)5	10:50:58	5.9	Middle	2	2	18.83	8.03	28.69	89.8	7.04	3.8	4.6
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	CS(Mf)5	10:50:19	10.7	Bottom	3	1	18.84	8.03	28.76	89.7	7.04	4.0	6.3
HKLR	HY/2011/03	2017-02-08	Mid-Ebb	Fine	CS(Mf)5	10:50:49	10.7	Bottom	3	2	18.84	8.03	28.75	89.5	7.03	3.9	5.9
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS5	15:12:09	1.0	Surface	1	1	18.96	8.05	28.12	94.8	7.45	7.7	6.8
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS5	15:12:31	1.0	Surface	1	2	18.95	8.04	28.16	94.7	7.44	7.9	7.2
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS5	15:12:23	4.3	Middle	2	1	18.91	8.04	28.18	94.6	7.44	8.4	7.7
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS5	15:12:02	4.3	Middle	2	2	18.90	8.04	28.13	94.8	7.45	8.1	6.7
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS5	15:11:55	7.5	Bottom	3	1	18.94	8.05	28.07	94.6	7.44	7.9	6.9

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS5	15:12:17	7.5	Bottom	3	2	18.94	8.05	28.15	94.5	7.42	8.1	8.4
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS(Mf)6	15:20:43	1.0	Surface	1	1	19.02	8.06	28.63	98.9	7.74	7.9	6.6
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS(Mf)6	15:20:58	1.0	Surface	1	2	19.00	8.05	28.64	98.6	7.71	8.0	6.5
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS(Mf)6	15:20:34	2.2	Bottom	3	1	19.03	8.06	28.62	99.1	7.75	7.9	8.4
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS(Mf)6	15:20:50	2.2	Bottom	3	2	19.01	8.06	28.64	98.7	7.72	8.0	9.0
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS7	15:28:05	1.0	Surface	1	1	18.99	8.05	28.71	97.9	7.66	8.6	8.3
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS7	15:27:52	1.0	Surface	1	2	19.00	8.05	28.70	98.1	7.68	8.6	9.4
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS7	15:27:58	2.2	Bottom	3	1	18.99	8.05	28.70	98.0	7.67	8.5	10.6
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS7	15:27:46	2.2	Bottom	3	2	19.00	8.06	28.69	98.2	7.68	8.5	10.2
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS8	15:49:37	1.0	Surface	1	1	18.99	8.06	28.96	94.0	7.34	9.0	8.9
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS8	15:49:50	1.0	Surface	1	2	18.99	8.06	28.96	94.0	7.34	9.1	9.5
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS8	15:49:30	3.2	Bottom	3	1	18.99	8.06	28.96	93.9	7.34	9.1	10.2
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS8	15:49:43	3.2	Bottom	3	2	18.99	8.06	28.96	93.9	7.34	9.1	11.0
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS(Mf)9	15:34:20	1.0	Surface	1	1	18.94	8.04	28.70	96.2	7.53	8.1	8.5
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS(Mf)9	15:34:02	1.0	Surface	1	2	18.91	8.04	28.69	96.7	7.57	8.3	8.4
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS(Mf)9	15:34:12	2.8	Bottom	3	1	18.88	8.04	28.73	96.2	7.54	8.5	10.0
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS(Mf)9	15:33:55	2.8	Bottom	3	2	18.91	8.04	28.68	97.0	7.60	8.5	9.1
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS10	16:58:23	1.0	Surface	1	1	19.34	8.21	30.82	96.8	7.43	3.3	4.8
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS10	16:59:19	1.0	Surface	1	2	19.32	8.21	30.87	96.7	7.42	3.3	5.1
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS10	16:58:12	5.4	Middle	2	1	19.31	8.21	30.92	95.9	7.37	3.6	5.4
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS10	16:59:09	5.4	Middle	2	2	19.26	8.22	30.98	96.4	7.40	3.5	5.1
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS10	16:57:56	9.8	Bottom	3	1	19.16	8.22	31.35	95.9	7.36	3.8	6.7
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	IS10	16:58:51	9.8	Bottom	3	2	19.18	8.20	31.24	96.1	7.38	3.8	8.4
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR3	15:01:26	0.7	Middle	2	1	19.01	8.07	27.64	96.9	7.63	6.3	7.6
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR3	15:01:19	0.7	Middle	2	2	19.01	8.08	27.58	96.9	7.63	6.4	8.2
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR4	15:42:08	1.0	Surface	1	1	18.99	8.06	28.92	95.6	7.47	8.7	8.5
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR4	15:42:41	1.0	Surface	1	2	18.98	8.06	28.95	94.4	7.38	8.8	7.7
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR4	15:41:58	2.7	Bottom	3	1	18.99	8.06	28.91	96.1	7.51	8.8	10.1
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR4	15:42:32	2.7	Bottom	3	2	18.97	8.06	28.95	94.6	7.39	8.9	9.7
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR5	16:47:42	1.0	Surface	1	1	19.20	8.19	31.21	97.8	7.51	3.7	2.7
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR5	16:48:32	1.0	Surface	1	2	19.29	8.16	30.92	97.2	7.46	3.6	3.2
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR5	16:47:26	4.1	Bottom	3	1	19.38	8.19	30.57	96.5	7.41	3.8	5.6
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR5	16:48:00	4.1	Bottom	3	2	19.39	8.20	30.53	96.6	7.42	3.9	5.6
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR10A	17:06:38	1.0	Surface	1	1	19.02	8.06	28.92	93.4	7.29	7.5	7.6
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR10A	17:06:59	1.0	Surface	1	2	19.01	8.06	28.92	93.4	7.29	7.6	7.0
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR10A	17:06:29	3.3	Middle	2	1	19.00	8.06	28.93	93.3	7.29	7.6	7.8
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR10A	17:06:50	3.3	Middle	2	2	19.00	8.06	28.93	93.3	7.29	7.5	8.9
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR10A	17:06:45	5.5	Bottom	3	1	19.01	8.06	28.92	93.2	7.28	7.7	9.6
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR10A	17:06:23	5.5	Bottom	3	2	19.00	8.06	28.93	93.2	7.28	7.7	11.3
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR10B	17:16:02	1.0	Surface	1	1	19.00	8.06	28.92	93.3	7.29	7.2	7.2
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR10B	17:16:23	1.0	Surface	1	2	19.02	8.06	28.91	93.4	7.29	7.4	8.3
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR10B	17:15:55	4.2	Bottom	3	1	19.01	8.06	28.92	93.3	7.29	7.5	11.3
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	SR10B	17:16:11	4.2	Bottom	3	2	19.01	8.06	28.92	93.3	7.28	7.4	10.1
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	CS2	15:31:45	1.0	Surface	1	1	19.50	8.20	30.29	96.6	7.42	4.1	5.5
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	CS2	15:31:11	1.0	Surface	1	2	19.59	8.18	30.11	97.1	7.45	4.1	6.8
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	CS2	15:31:37	4.1	Middle	2	1	19.41	8.14	30.65	96.2	7.38	4.2	7.2
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	CS2	15:30:57	4.1	Middle	2	2	19.28	8.17	30.70	96.3	7.38	4.3	7.0
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	CS2	15:31:24	7.2	Bottom	3	1	19.36	8.07	31.03	95.8	7.37	4.6	7.2
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	CS2	15:30:42	7.2	Bottom	3	2	19.11	8.17	31.41	95.5	7.33	4.5	7.1
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	CS(Mf)5	16:33:21	1.0	Surface	1	1	19.00	8.06	28.94	93.3	7.29	9.1	7.3
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	CS(Mf)5	16:32:50	1.0	Surface	1	2	19.00	8.06	28.95	93.3	7.29	8.9	8.0
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	CS(Mf)5	16:32:43	6.1	Middle	2	1	18.98	8.06	28.96	93.1	7.27	9.1	8.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	CS(Mf)5	16:33:11	6.1	Middle	2	2	18.98	8.06	28.95	93.1	7.27	9.2	8.6
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	CS(Mf)5	16:32:33	11.2	Bottom	3	1	18.99	8.06	28.95	93.1	7.27	9.4	9.6
HKLR	HY/2011/03	2017-02-08	Mid-Flood	Fine	CS(Mf)5	16:33:02	11.2	Bottom	3	2	18.99	8.06	28.95	93.1	7.27	9.1	11.0
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS5	11:30:13	1.0	Surface	1	1	17.87	8.07	28.31	94.7	7.59	10.5	15.1
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS5	11:30:46	1.0	Surface	1	2	17.89	8.07	28.32	94.6	7.57	10.4	13.0
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS5	11:30:05	4.2	Middle	2	1	17.87	8.07	28.31	94.7	7.59	10.6	15.0
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS5	11:30:37	4.2	Middle	2	2	17.87	8.07	28.31	94.5	7.57	10.5	13.7
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS5	11:30:26	7.4	Bottom	3	1	17.87	8.07	28.31	94.4	7.57	10.4	18.4
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS5	11:29:52	7.4	Bottom	3	2	17.87	8.07	28.31	94.7	7.58	10.6	16.6
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS(Mf)6	11:38:05	1.0	Surface	1	1	17.72	8.07	28.28	97.5	7.84	6.4	7.9
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS(Mf)6	11:38:21	1.0	Surface	1	2	17.72	8.07	28.29	96.6	7.76	6.4	7.0
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS(Mf)6	11:37:57	2.2	Bottom	3	1	17.73	8.07	28.28	98.1	7.88	6.6	9.7
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS(Mf)6	11:38:12	2.2	Bottom	3	2	17.72	8.07	28.30	96.9	7.79	6.6	8.6
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS7	11:44:24	1.0	Surface	1	1	17.70	8.07	28.30	95.1	7.64	6.4	8.9
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS7	11:44:38	1.0	Surface	1	2	17.69	8.07	28.30	94.9	7.63	6.5	7.3
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS7	11:44:16	2.3	Bottom	3	1	17.71	8.07	28.31	95.2	7.65	6.3	8.5
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS7	11:44:31	2.3	Bottom	3	2	17.69	8.07	28.31	95.0	7.64	6.5	9.2
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS8	12:08:10	1.0	Surface	1	1	18.04	8.10	28.12	96.8	7.74	12.8	18.3
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS8	12:08:26	1.0	Surface	1	2	18.07	8.10	28.10	96.8	7.74	12.3	18.5
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS8	12:08:00	3.1	Bottom	3	1	18.04	8.10	28.18	96.9	7.74	12.7	18.1
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS8	12:08:16	3.1	Bottom	3	2	18.04	8.10	28.19	96.8	7.74	12.5	18.9
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS(Mf)9	11:52:05	1.0	Surface	1	1	18.08	8.10	28.27	97.4	7.77	6.8	10.2
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS(Mf)9	11:51:52	1.0	Surface	1	2	18.08	8.09	28.28	97.9	7.82	6.8	9.1
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS(Mf)9	11:51:46	2.6	Bottom	3	1	18.08	8.09	28.30	98.2	7.84	6.8	9.3
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS(Mf)9	11:51:58	2.6	Bottom	3	2	18.08	8.09	28.31	97.7	7.79	6.8	9.5
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS10	12:42:58	1.0	Surface	1	1	18.01	8.20	32.06	95.8	7.48	7.2	13.3
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS10	12:42:09	1.0	Surface	1	2	18.02	8.24	32.01	95.6	7.48	7.3	12.5
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS10	12:42:45	5.3	Middle	2	1	18.02	8.15	32.06	95.2	7.44	7.6	12.7
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS10	12:41:55	5.3	Middle	2	2	18.07	8.23	32.11	95.2	7.43	7.4	14.3
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS10	12:42:34	9.6	Bottom	3	1	18.00	8.16	31.99	94.3	7.36	7.9	13.9
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	IS10	12:41:44	9.6	Bottom	3	2	18.06	8.23	32.11	94.6	7.39	7.7	14.3
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR3	11:19:57	0.7	Middle	2	1	17.86	8.07	28.26	99.9	8.00	10.6	16.1
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR3	11:20:05	0.7	Middle	2	2	17.86	8.07	28.28	98.9	7.93	10.5	16.3
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR4	12:01:54	1.0	Surface	1	1	18.04	8.10	28.13	98.1	7.84	13.1	13.7
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR4	12:02:10	1.0	Surface	1	2	18.05	8.10	28.11	97.6	7.80	13.5	14.0
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR4	12:02:01	2.7	Bottom	3	1	18.03	8.10	28.20	97.8	7.81	13.6	15.8
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR4	12:01:47	2.7	Bottom	3	2	18.04	8.10	28.19	98.4	7.86	13.5	14.2
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR5	12:28:37	1.0	Surface	1	1	18.00	8.24	32.02	97.5	7.64	8.2	12.2
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR5	12:28:53	1.0	Surface	1	2	18.01	8.24	32.01	98.5	7.69	8.4	11.0
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR5	12:28:45	4.0	Bottom	3	1	18.00	8.24	32.02	95.9	7.49	8.7	13.9
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR5	12:28:23	4.0	Bottom	3	2	18.01	8.25	32.05	95.4	7.45	8.8	13.7
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR10A	13:28:47	1.0	Surface	1	1	18.19	8.10	28.35	93.8	7.47	5.8	11.2
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR10A	13:28:17	1.0	Surface	1	2	18.18	8.10	28.37	93.6	7.45	6.0	11.7
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR10A	13:28:36	3.2	Middle	2	1	18.16	8.09	28.47	93.7	7.45	6.1	11.1
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR10A	13:28:09	3.2	Middle	2	2	18.17	8.09	28.50	93.6	7.44	6.0	12.0
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR10A	13:28:25	5.3	Bottom	3	1	18.18	8.09	28.48	93.5	7.44	6.1	11.8
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR10A	13:28:01	5.3	Bottom	3	2	18.19	8.09	28.58	93.4	7.43	6.0	12.0
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR10B	13:38:02	1.0	Surface	1	1	18.18	8.10	28.35	94.2	7.50	6.1	9.1
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR10B	13:38:17	1.0	Surface	1	2	18.17	8.10	28.34	94.3	7.51	6.1	8.7
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR10B	13:38:08	3.6	Bottom	3	1	18.17	8.10	28.39	94.2	7.50	6.1	11.5
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	SR10B	13:37:52	3.6	Bottom	3	2	18.17	8.10	28.41	94.1	7.49	5.8	10.5
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	CS2	11:08:58	1.0	Surface	1	1	17.90	8.28	32.06	97.0	7.59	13.4	21.9

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	CS2	11:09:31	1.0	Surface	1	2	17.90	8.27	32.07	97.7	7.65	13.3	20.4
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	CS2	11:09:20	4.0	Middle	2	1	17.94	8.26	32.09	96.9	7.58	13.5	20.6
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	CS2	11:08:43	4.0	Middle	2	2	17.91	8.27	32.07	94.9	7.42	13.5	20.2
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	CS2	11:08:33	6.9	Bottom	3	1	17.91	8.27	32.06	94.5	7.39	13.7	22.5
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	CS2	11:09:10	6.9	Bottom	3	2	17.94	8.27	32.14	94.8	7.42	13.6	21.3
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	CS(Mf)5	12:57:31	1.0	Surface	1	1	18.19	8.09	28.46	92.6	7.36	6.3	8.5
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	CS(Mf)5	12:56:59	1.0	Surface	1	2	18.19	8.09	28.45	92.8	7.38	6.4	9.0
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	CS(Mf)5	12:56:47	6.1	Middle	2	1	18.19	8.09	28.84	92.7	7.36	6.5	8.7
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	CS(Mf)5	12:57:21	6.1	Middle	2	2	18.20	8.09	28.85	92.5	7.34	6.4	7.6
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	CS(Mf)5	12:56:39	11.1	Bottom	3	1	18.18	8.09	28.95	92.5	7.34	6.6	12.0
HKLR	HY/2011/03	2017-02-10	Mid-Ebb	Fine	CS(Mf)5	12:57:11	11.1	Bottom	3	2	18.18	8.09	28.97	92.4	7.33	6.4	10.4
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS5	08:17:14	1.0	Surface	1	1	17.91	8.07	28.18	95.9	7.68	8.4	12.0
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS5	08:16:48	1.0	Surface	1	2	17.91	8.07	28.17	96.8	7.76	8.2	13.5
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS5	08:16:40	4.2	Middle	2	1	17.88	8.07	28.17	96.5	7.74	8.4	12.4
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS5	08:17:05	4.2	Middle	2	2	17.88	8.07	28.18	95.8	7.68	8.7	11.5
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS5	08:16:32	7.4	Bottom	3	1	17.89	8.07	28.16	96.4	7.73	8.4	11.5
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS5	08:16:58	7.4	Bottom	3	2	17.89	8.07	28.17	95.8	7.68	8.5	12.7
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS(Mf)6	08:05:22	1.0	Surface	1	1	18.07	8.09	28.25	94.2	7.52	8.5	10.1
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS(Mf)6	08:05:42	1.0	Surface	1	2	18.07	8.09	28.25	94.2	7.52	8.6	9.8
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS(Mf)6	08:05:31	2.4	Bottom	3	1	18.07	8.09	28.26	94.1	7.51	8.3	10.2
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS(Mf)6	08:05:12	2.4	Bottom	3	2	18.07	8.09	28.25	94.2	7.52	8.5	10.8
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS7	07:58:29	1.0	Surface	1	1	18.06	8.09	28.23	94.5	7.55	8.4	14.2
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS7	07:58:43	1.0	Surface	1	2	18.06	8.09	28.24	94.5	7.54	8.5	14.2
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS7	07:58:21	2.5	Bottom	3	1	18.07	8.09	28.24	94.6	7.55	8.8	15.2
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS7	07:58:35	2.5	Bottom	3	2	18.06	8.09	28.24	94.5	7.55	8.6	13.1
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS8	07:35:21	1.0	Surface	1	1	17.92	8.10	28.15	97.2	7.79	8.7	13.0
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS8	07:35:35	1.0	Surface	1	2	17.92	8.10	28.16	96.6	7.74	9.0	12.4
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS8	07:35:12	3.4	Bottom	3	1	17.92	8.10	28.15	97.8	7.84	8.9	13.3
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS8	07:35:27	3.4	Bottom	3	2	17.92	8.10	28.16	96.9	7.76	8.8	13.6
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS(Mf)9	07:52:14	1.0	Surface	1	1	18.06	8.08	28.21	96.4	7.70	9.4	13.7
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS(Mf)9	07:52:26	1.0	Surface	1	2	18.05	8.08	28.21	95.8	7.65	9.6	14.6
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS(Mf)9	07:52:07	2.7	Bottom	3	1	18.06	8.08	28.20	96.9	7.74	9.2	16.1
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS(Mf)9	07:52:19	2.7	Bottom	3	2	18.06	8.08	28.21	96.1	7.67	9.5	15.7
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS10	07:24:58	1.0	Surface	1	1	18.03	8.20	32.03	96.8	7.55	10.4	18.4
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS10	07:25:29	1.0	Surface	1	2	18.02	8.21	32.02	97.2	7.59	10.3	19.5
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS10	07:24:50	5.3	Middle	2	1	18.03	8.20	32.03	96.2	7.51	10.6	19.3
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS10	07:25:16	5.3	Middle	2	2	18.04	8.21	32.03	96.2	7.51	10.5	19.2
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS10	07:24:40	9.6	Bottom	3	1	18.02	8.20	32.04	95.7	7.47	10.8	18.6
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	IS10	07:25:08	9.6	Bottom	3	2	18.04	8.20	32.05	95.8	7.49	10.7	19.5
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR3	08:25:00	0.6	Middle	2	1	17.93	8.08	28.18	95.4	7.64	7.8	12.2
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR3	08:25:11	0.6	Middle	2	2	17.92	8.08	28.18	95.5	7.65	7.9	12.7
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR4	07:42:55	1.0	Surface	1	1	17.93	8.11	28.19	95.3	7.63	9.2	11.1
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR4	07:43:24	1.0	Surface	1	2	17.94	8.11	28.20	95.1	7.62	9.6	11.9
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR4	07:43:15	2.7	Bottom	3	1	17.94	8.11	28.19	95.1	7.61	9.6	13.2
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR4	07:42:47	2.7	Bottom	3	2	17.93	8.11	28.18	95.3	7.63	9.5	11.3
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR5	07:34:11	1.0	Surface	1	1	18.00	8.22	31.95	95.1	7.43	10.4	14.9
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR5	07:33:47	1.0	Surface	1	2	18.02	8.22	31.97	94.9	7.42	10.5	14.9
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR5	07:34:00	4.2	Bottom	3	1	18.02	8.23	31.98	94.8	7.41	10.8	16.6
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR5	07:33:39	4.2	Bottom	3	2	18.02	8.21	31.99	94.8	7.40	10.9	16.7
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR10A	06:27:07	1.0	Surface	1	1	18.13	8.08	29.02	91.7	7.28	5.4	8.9
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR10A	06:27:37	1.0	Surface	1	2	18.10	8.08	28.99	91.7	7.29	5.2	8.4
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR10A	06:27:25	3.3	Middle	2	1	18.11	8.08	28.99	91.6	7.27	5.3	9.0

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR10A	06:26:57	3.3	Middle	2	2	18.15	8.08	29.04	91.7	7.27	5.5	8.3
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR10A	06:26:47	5.5	Bottom	3	1	18.16	8.08	29.05	91.7	7.27	5.6	9.5
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR10A	06:27:14	5.5	Bottom	3	2	18.13	8.08	29.03	91.6	7.27	5.5	9.8
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR10B	06:19:20	1.0	Surface	1	1	18.12	8.06	29.32	92.5	7.33	5.8	8.5
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR10B	06:19:58	1.0	Surface	1	2	18.11	8.07	29.20	92.0	7.30	6.0	8.8
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR10B	06:19:07	4.1	Bottom	3	1	18.13	8.05	29.37	92.7	7.34	6.4	9.7
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	SR10B	06:19:42	4.1	Bottom	3	2	18.14	8.07	29.25	92.1	7.30	5.8	9.0
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	CS2	08:51:29	1.0	Surface	1	1	18.02	8.23	32.08	95.5	7.45	14.2	22.4
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	CS2	08:50:58	1.0	Surface	1	2	18.01	8.22	32.08	95.1	7.43	14.2	23.1
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	CS2	08:51:18	4.0	Middle	2	1	18.03	8.23	32.09	94.8	7.41	14.4	22.7
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	CS2	08:50:50	4.0	Middle	2	2	18.02	8.19	32.08	94.4	7.37	14.3	23.9
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	CS2	08:50:39	7.0	Bottom	3	1	18.04	8.20	32.10	93.3	7.28	14.5	24.2
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	CS2	08:51:09	7.0	Bottom	3	2	18.05	8.23	32.15	94.3	7.36	14.6	25.6
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	CS(Mf)5	07:01:12	1.0	Surface	1	1	18.15	8.09	28.98	91.3	7.25	8.0	9.8
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	CS(Mf)5	07:00:29	1.0	Surface	1	2	18.15	8.09	28.98	91.4	7.26	8.0	10.9
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	CS(Mf)5	07:01:04	6.4	Middle	2	1	18.16	8.09	28.98	91.1	7.23	8.1	11.9
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	CS(Mf)5	07:00:21	6.4	Middle	2	2	18.17	8.09	28.99	91.3	7.24	8.1	9.7
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	CS(Mf)5	07:00:12	11.7	Bottom	3	1	18.16	8.09	29.00	91.3	7.24	8.2	11.1
HKLR	HY/2011/03	2017-02-10	Mid-Flood	Fine	CS(Mf)5	07:00:55	11.7	Bottom	3	2	18.17	8.09	28.99	91.0	7.22	8.1	10.3
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS5	13:06:53	1.0	Surface	1	1	17.39	8.12	27.68	96.1	7.80	7.0	10.1
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS5	13:06:07	1.0	Surface	1	2	17.38	8.13	27.58	96.1	7.82	7.2	10.5
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS5	13:05:41	4.6	Middle	2	1	17.41	8.14	27.57	96.1	7.80	7.2	10.7
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS5	13:06:36	4.6	Middle	2	2	17.39	8.12	27.73	95.8	7.78	7.1	10.2
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS5	13:04:55	8.1	Bottom	3	1	17.36	8.14	27.45	96.0	7.80	7.4	10.8
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS5	13:06:26	8.1	Bottom	3	2	17.38	8.12	27.73	95.7	7.77	7.3	10.0
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS(Mf)6	13:12:04	1.0	Surface	1	1	17.41	8.11	27.87	97.1	7.87	8.1	9.9
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS(Mf)6	13:12:14	1.0	Surface	1	2	17.41	8.11	27.88	96.7	7.84	8.2	9.6
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS(Mf)6	13:12:07	2.3	Bottom	3	1	17.41	8.11	27.87	96.6	7.82	8.2	9.6
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS(Mf)6	13:11:57	2.3	Bottom	3	2	17.40	8.11	27.87	96.9	7.85	8.4	9.1
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS7	13:16:51	1.0	Surface	1	1	17.40	8.11	27.91	96.0	7.78	8.2	10.2
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS7	13:16:31	1.0	Surface	1	2	17.39	8.11	27.92	95.9	7.77	8.2	9.5
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS7	13:16:26	2.3	Bottom	3	1	17.39	8.11	27.91	95.8	7.76	8.2	12.6
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS7	13:16:35	2.3	Bottom	3	2	17.40	8.11	27.91	95.8	7.76	8.4	11.8
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS8	13:36:03	1.0	Surface	1	1	17.83	8.13	28.41	95.0	7.61	3.5	5.9
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS8	13:35:55	1.0	Surface	1	2	17.82	8.13	28.40	94.9	7.61	3.6	5.8
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS8	13:35:51	2.4	Bottom	3	1	17.89	8.13	28.36	94.9	7.60	3.6	6.3
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS8	13:35:59	2.4	Bottom	3	2	17.86	8.13	28.39	94.9	7.60	3.5	5.6
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS(Mf)9	13:26:22	1.0	Surface	1	1	17.75	8.13	27.94	98.6	7.93	4.6	7.7
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS(Mf)9	13:26:29	1.0	Surface	1	2	17.74	8.13	27.93	98.6	7.93	4.7	7.2
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS(Mf)9	13:26:18	2.3	Bottom	3	1	17.82	8.13	27.90	98.5	7.92	4.6	7.5
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS(Mf)9	13:26:25	2.3	Bottom	3	2	17.80	8.13	27.91	98.6	7.93	4.7	6.6
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS10	14:25:08	1.0	Surface	1	1	17.56	8.21	32.74	93.0	7.30	5.5	6.0
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS10	14:25:34	1.0	Surface	1	2	17.52	8.21	32.76	92.7	7.28	5.5	7.4
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS10	14:25:26	5.3	Middle	2	1	17.44	8.21	32.78	92.6	7.29	5.5	7.8
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS10	14:24:59	5.3	Middle	2	2	17.45	8.21	32.77	92.7	7.29	5.3	5.9
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS10	14:24:49	9.6	Bottom	3	1	17.44	8.20	32.78	93.2	7.33	5.5	7.0
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	IS10	14:25:18	9.6	Bottom	3	2	17.46	8.21	32.77	92.9	7.31	5.2	8.0
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR3	12:56:53	0.7	Middle	2	1	17.49	8.25	26.39	98.9	8.08	7.2	11.0
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR3	12:56:55	0.7	Middle	2	2	17.49	8.24	26.43	99.0	8.08	7.3	11.5
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR4	13:30:31	1.0	Surface	1	1	17.84	8.13	27.94	99.0	7.95	4.7	8.2
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR4	13:30:41	1.0	Surface	1	2	17.89	8.13	27.96	99.1	7.96	4.8	6.3
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR4	13:30:28	2.3	Bottom	3	1	17.96	8.13	27.87	99.0	7.93	4.8	7.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR4	13:30:36	2.3	Bottom	3	2	17.96	8.13	27.89	98.9	7.92	4.8	7.7
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR5	14:17:58	1.0	Surface	1	1	17.57	8.20	32.72	94.0	7.37	5.3	7.4
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR5	14:18:23	1.0	Surface	1	2	17.65	8.20	32.71	93.5	7.33	5.0	6.9
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR5	14:18:07	4.3	Bottom	3	1	17.51	8.20	32.73	93.5	7.34	5.5	7.4
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR5	14:17:48	4.3	Bottom	3	2	17.55	8.20	32.72	94.2	7.39	5.4	9.1
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR10A	14:53:15	1.0	Surface	1	1	18.01	8.11	28.46	94.4	7.54	3.4	4.5
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR10A	14:53:45	1.0	Surface	1	2	18.01	8.11	28.45	94.5	7.54	3.5	5.6
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR10A	14:53:03	3.2	Middle	2	1	17.74	8.10	28.56	93.9	7.52	3.7	6.6
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR10A	14:53:34	3.2	Middle	2	2	17.79	8.10	28.54	94.0	7.52	3.6	5.1
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR10A	14:53:23	5.3	Bottom	3	1	17.85	8.10	28.48	93.8	7.52	3.6	7.0
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR10A	14:52:59	5.3	Bottom	3	2	17.89	8.11	28.46	93.8	7.52	3.7	7.6
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR10B	15:00:11	1.0	Surface	1	1	17.99	8.11	28.47	94.6	7.55	3.6	7.3
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR10B	14:59:49	1.0	Surface	1	2	17.98	8.11	28.47	94.7	7.56	3.6	5.8
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR10B	14:59:57	4.5	Bottom	3	1	17.89	8.11	28.45	94.4	7.55	3.8	7.1
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	SR10B	14:59:39	4.5	Bottom	3	2	17.99	8.11	28.42	94.3	7.53	3.8	6.9
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	CS2	13:01:56	1.0	Surface	1	1	17.86	8.35	32.40	96.6	7.55	4.2	7.4
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	CS2	13:02:26	1.0	Surface	1	2	17.86	8.29	32.36	96.3	7.53	4.3	8.1
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	CS2	13:01:48	3.9	Middle	2	1	17.86	8.35	32.65	95.4	7.45	4.1	8.1
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	CS2	13:02:16	3.9	Middle	2	2	17.84	8.32	32.63	96.6	7.54	4.2	6.9
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	CS2	13:01:38	6.7	Bottom	3	1	17.85	8.38	32.66	94.7	7.40	4.0	11.3
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	CS2	13:02:06	6.7	Bottom	3	2	17.82	8.33	32.61	95.9	7.50	4.1	12.3
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	CS(Mf)5	14:28:15	1.0	Surface	1	1	17.97	8.11	28.50	92.8	7.42	3.3	7.6
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	CS(Mf)5	14:29:27	1.0	Surface	1	2	18.00	8.11	28.47	92.9	7.42	3.6	7.5
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	CS(Mf)5	14:28:01	6.5	Middle	2	1	17.62	8.10	28.73	91.7	7.36	3.5	8.1
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	CS(Mf)5	14:29:07	6.5	Middle	2	2	17.62	8.09	28.69	91.4	7.33	3.6	6.5
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	CS(Mf)5	14:27:50	12.0	Bottom	3	1	17.64	8.10	28.82	91.4	7.34	3.7	5.7
HKLR	HY/2011/03	2017-02-13	Mid-Ebb	Fine	CS(Mf)5	14:28:44	12.0	Bottom	3	2	17.65	8.09	28.84	91.3	7.33	3.7	7.1
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS5	09:40:25	1.0	Surface	1	1	17.19	8.09	28.90	96.1	7.77	6.0	6.9
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS5	09:39:59	1.0	Surface	1	2	17.17	8.09	28.89	96.2	7.78	6.0	6.9
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS5	09:39:53	4.5	Middle	2	1	17.18	8.09	28.90	96.1	7.77	6.1	9.0
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS5	09:40:16	4.5	Middle	2	2	17.18	8.09	28.92	95.9	7.76	6.1	7.5
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS5	09:39:44	8.0	Bottom	3	1	17.19	8.09	28.91	96.0	7.77	6.4	8.4
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS5	09:40:11	8.0	Bottom	3	2	17.18	8.09	28.92	95.9	7.75	6.3	9.5
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS(Mf)6	09:31:21	1.0	Surface	1	1	17.22	8.10	28.82	98.4	7.96	5.3	7.5
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS(Mf)6	09:31:32	1.0	Surface	1	2	17.22	8.10	28.83	98.1	7.93	5.2	7.5
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS(Mf)6	09:31:14	2.3	Bottom	3	1	17.22	8.10	28.81	98.2	7.94	5.3	8.2
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS(Mf)6	09:31:25	2.3	Bottom	3	2	17.22	8.10	28.82	98.0	7.92	5.2	8.8
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS7	09:25:59	1.0	Surface	1	1	17.22	8.09	28.75	100.8	8.15	5.3	6.1
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS7	09:25:51	1.0	Surface	1	2	17.22	8.09	28.73	101.7	8.23	5.2	7.0
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS7	09:25:47	2.3	Bottom	3	1	17.22	8.09	28.72	101.2	8.19	5.2	7.6
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS7	09:25:55	2.3	Bottom	3	2	17.22	8.09	28.74	100.4	8.13	5.3	7.8
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS8	09:04:54	1.0	Surface	1	1	17.30	8.09	28.84	100.0	8.08	7.3	12.0
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS8	09:05:07	1.0	Surface	1	2	17.31	8.09	28.86	98.9	7.98	7.3	11.9
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS8	09:04:57	2.2	Bottom	3	1	17.30	8.09	28.85	97.9	7.91	7.3	11.7
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS8	09:04:50	2.2	Bottom	3	2	17.30	8.09	28.84	99.4	8.03	7.4	11.1
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS(Mf)9	09:15:29	1.0	Surface	1	1	17.32	8.10	28.83	98.8	7.98	7.3	10.1
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS(Mf)9	09:15:41	1.0	Surface	1	2	17.32	8.10	28.84	98.1	7.91	7.3	10.4
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS(Mf)9	09:15:23	2.3	Bottom	3	1	17.32	8.10	28.83	98.4	7.94	7.5	11.7
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS(Mf)9	09:15:33	2.3	Bottom	3	2	17.32	8.10	28.84	97.5	7.87	7.3	11.2
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS10	08:53:23	1.0	Surface	1	1	17.33	8.25	32.82	94.8	7.46	11.9	17.2
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS10	08:52:29	1.0	Surface	1	2	17.32	8.25	32.82	95.3	7.51	11.5	16.2
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS10	08:53:03	5.4	Middle	2	1	17.24	8.22	32.85	95.1	7.50	13.8	16.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS10	08:52:11	5.4	Middle	2	2	17.20	8.25	32.88	95.2	7.52	15.1	16.6
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS10	08:52:58	9.8	Bottom	3	1	17.23	8.26	32.86	95.5	7.53	15.0	17.4
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	IS10	08:52:03	9.8	Bottom	3	2	17.23	8.25	32.87	95.9	7.57	14.8	17.5
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR3	09:47:56	0.8	Middle	2	1	17.19	8.10	28.91	96.3	7.79	6.0	7.8
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR3	09:47:58	0.8	Middle	2	2	17.19	8.10	28.91	96.2	7.78	5.9	7.4
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR4	09:10:29	1.0	Surface	1	1	17.30	8.09	28.91	95.6	7.72	7.4	8.0
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR4	09:10:40	1.0	Surface	1	2	17.30	8.10	28.91	95.4	7.70	7.5	8.9
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR4	09:10:33	2.3	Bottom	3	1	17.30	8.09	28.91	95.3	7.69	7.7	8.0
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR4	09:10:24	2.3	Bottom	3	2	17.30	8.09	28.91	95.5	7.71	7.4	9.9
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR5	09:01:12	1.0	Surface	1	1	17.28	8.24	32.84	95.6	7.53	12.3	14.0
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR5	09:01:34	1.0	Surface	1	2	17.29	8.24	32.84	95.1	7.49	12.3	14.1
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR5	09:01:05	4.3	Bottom	3	1	17.28	8.24	32.84	95.1	7.50	12.4	13.5
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR5	09:01:23	4.3	Bottom	3	2	17.27	8.24	32.84	94.7	7.47	12.7	13.7
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR10A	08:13:45	1.0	Surface	1	1	17.46	8.07	29.16	94.6	7.60	5.0	5.4
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR10A	08:13:18	1.0	Surface	1	2	17.46	8.07	29.19	94.7	7.61	5.2	5.2
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR10A	08:13:07	3.4	Middle	2	1	17.47	8.07	29.22	94.7	7.60	5.2	6.4
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR10A	08:13:37	3.4	Middle	2	2	17.46	8.07	29.18	94.5	7.59	5.1	6.4
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR10A	08:12:59	5.8	Bottom	3	1	17.47	8.07	29.25	94.6	7.60	5.2	8.9
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR10A	08:13:29	5.8	Bottom	3	2	17.46	8.07	29.20	94.4	7.58	5.3	9.1
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR10B	08:07:23	1.0	Surface	1	1	17.46	8.06	29.41	96.3	7.72	5.3	8.3
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR10B	08:06:55	1.0	Surface	1	2	17.46	8.06	29.54	97.8	7.83	5.2	8.6
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR10B	08:06:40	4.6	Bottom	3	1	17.46	8.05	29.66	97.0	7.78	5.2	9.5
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	SR10B	08:07:11	4.6	Bottom	3	2	17.46	8.06	29.51	96.1	7.71	5.3	9.3
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	CS2	10:15:55	1.0	Surface	1	1	17.30	8.25	32.81	95.3	7.51	12.0	12.8
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	CS2	10:16:25	1.0	Surface	1	2	17.27	8.25	32.81	94.7	7.47	12.1	13.0
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	CS2	10:15:45	4.0	Middle	2	1	17.25	8.25	32.82	95.0	7.50	13.2	15.3
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	CS2	10:16:17	4.0	Middle	2	2	17.23	8.25	32.83	94.7	7.48	13.5	15.4
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	CS2	10:16:10	6.9	Bottom	3	1	17.23	8.25	32.83	94.8	7.48	13.1	15.0
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	CS2	10:15:34	6.9	Bottom	3	2	17.24	8.23	32.83	93.6	7.38	13.3	15.6
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	CS(Mf)5	08:32:55	1.0	Surface	1	1	17.46	8.08	29.02	94.2	7.58	5.1	7.1
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	CS(Mf)5	08:32:09	1.0	Surface	1	2	17.46	8.08	29.03	94.3	7.57	4.9	8.2
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	CS(Mf)5	08:32:37	6.6	Middle	2	1	17.47	8.08	29.06	93.8	7.54	5.1	7.1
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	CS(Mf)5	08:31:56	6.6	Middle	2	2	17.47	8.08	29.08	94.1	7.57	5.1	9.0
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	CS(Mf)5	08:32:24	12.2	Bottom	3	1	17.47	8.08	29.07	93.8	7.54	5.3	8.7
HKLR	HY/2011/03	2017-02-13	Mid-Flood	Fine	CS(Mf)5	08:31:25	12.2	Bottom	3	2	17.48	8.08	29.09	94.0	7.55	5.2	8.5
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS5	14:07:53	1.0	Surface	1	1	17.63	8.07	27.74	97.6	7.88	9.2	16.6
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS5	14:08:25	1.0	Surface	1	2	17.63	8.07	27.82	97.4	7.86	9.4	16.2
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS5	14:07:42	4.3	Middle	2	1	17.62	8.07	27.77	97.4	7.87	9.2	25.3
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS5	14:08:13	4.3	Middle	2	2	17.57	8.07	27.86	97.1	7.85	9.4	22.8
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS5	14:08:06	7.5	Bottom	3	1	17.55	8.07	27.84	97.1	7.85	9.2	29.8
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS5	14:07:33	7.5	Bottom	3	2	17.62	8.07	27.72	97.4	7.87	9.2	28.0
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS(Mf)6	14:20:18	1.0	Surface	1	1	17.57	8.07	28.13	97.2	7.84	6.4	10.4
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS(Mf)6	14:20:01	1.0	Surface	1	2	17.57	8.07	28.12	97.3	7.84	6.4	11.1
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS(Mf)6	14:20:10	2.5	Bottom	3	1	17.56	8.07	28.14	97.1	7.84	6.6	9.2
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS(Mf)6	14:19:53	2.5	Bottom	3	2	17.58	8.07	28.10	97.2	7.84	6.5	11.0
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS7	14:29:01	1.0	Surface	1	1	17.81	8.09	28.23	99.6	7.99	6.7	10.4
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS7	14:29:19	1.0	Surface	1	2	17.81	8.09	28.23	99.4	7.98	6.9	10.5
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS7	14:28:55	2.6	Bottom	3	1	17.79	8.09	28.24	99.5	7.98	6.8	10.9
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS7	14:29:11	2.6	Bottom	3	2	17.80	8.09	28.24	99.4	7.98	6.8	11.0
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS8	14:54:33	1.0	Surface	1	1	17.90	8.08	28.04	96.0	7.70	12.2	15.7
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS8	14:54:51	1.0	Surface	1	2	17.90	8.08	28.02	95.8	7.68	12.1	16.5
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS8	14:54:25	2.9	Bottom	3	1	17.81	8.08	28.04	95.6	7.68	12.8	16.0

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS8	14:54:42	2.9	Bottom	3	2	17.82	8.08	28.04	95.6	7.68	12.2	15.2
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS(Mf)9	14:38:00	1.0	Surface	1	1	17.78	8.08	28.08	96.1	7.72	13.6	18.7
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS(Mf)9	14:37:44	1.0	Surface	1	2	17.75	8.08	28.08	96.1	7.73	13.4	17.7
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS(Mf)9	14:37:37	2.6	Bottom	3	1	17.74	8.08	28.07	96.1	7.73	13.5	20.2
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS(Mf)9	14:37:51	2.6	Bottom	3	2	17.75	8.08	28.07	96.0	7.72	13.6	20.2
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS10	15:31:04	1.0	Surface	1	1	17.88	8.21	31.94	94.9	7.45	4.3	8.6
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS10	15:32:07	1.0	Surface	1	2	17.69	8.21	32.48	95.5	7.48	4.5	9.3
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS10	15:31:51	5.4	Middle	2	1	17.71	8.16	32.49	95.1	7.45	4.8	10.4
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS10	15:30:52	5.4	Middle	2	2	17.73	8.21	32.09	94.7	7.43	4.7	11.5
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS10	15:30:39	9.8	Bottom	3	1	17.76	8.21	32.14	94.5	7.41	4.9	13.3
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	IS10	15:31:36	9.8	Bottom	3	2	17.88	8.20	31.94	94.8	7.43	4.9	14.1
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR3	14:01:11	0.8	Middle	2	1	17.73	8.08	27.30	98.3	7.94	8.6	15.4
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR3	14:01:17	0.8	Middle	2	2	17.75	8.08	27.33	98.3	7.94	8.7	14.4
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR4	14:47:07	1.0	Surface	1	1	17.93	8.08	27.98	96.7	7.75	10.6	11.7
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR4	14:47:24	1.0	Surface	1	2	17.94	8.08	27.97	96.4	7.73	10.8	11.4
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR4	14:47:13	2.8	Bottom	3	1	17.89	8.08	27.97	96.3	7.72	10.4	17.7
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR4	14:47:00	2.8	Bottom	3	2	17.92	8.08	27.94	96.6	7.75	10.5	17.0
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR5	15:19:56	1.0	Surface	1	1	17.74	8.21	32.07	96.1	7.54	4.7	9.3
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR5	15:19:29	1.0	Surface	1	2	17.80	8.21	32.02	96.1	7.54	5.0	8.9
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR5	15:19:19	3.9	Bottom	3	1	17.74	8.20	32.12	95.6	7.50	5.1	8.7
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR5	15:19:43	3.9	Bottom	3	2	17.75	8.20	32.14	95.9	7.52	4.9	7.9
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR10A	16:18:13	1.0	Surface	1	1	17.71	8.08	28.09	95.1	7.65	6.4	10.3
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR10A	16:17:41	1.0	Surface	1	2	17.71	8.08	28.08	95.1	7.65	6.4	10.9
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR10A	16:17:34	3.2	Middle	2	1	17.66	8.08	28.12	94.9	7.64	6.7	12.4
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR10A	16:18:05	3.2	Middle	2	2	17.67	8.08	28.12	94.8	7.64	6.9	11.8
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR10A	16:17:27	5.3	Bottom	3	1	17.65	8.08	28.10	94.9	7.64	6.7	14.0
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR10A	16:17:55	5.3	Bottom	3	2	17.62	8.08	28.11	94.8	7.63	6.7	15.8
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR10B	16:27:29	1.0	Surface	1	1	17.70	8.08	28.08	95.1	7.66	6.2	23.8
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR10B	16:27:15	1.0	Surface	1	2	17.71	8.08	28.08	95.1	7.66	6.3	26.1
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR10B	16:27:07	3.8	Bottom	3	1	17.69	8.08	28.07	94.9	7.64	6.6	31.5
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	SR10B	16:27:21	3.8	Bottom	3	2	17.70	8.08	28.06	95.1	7.65	6.5	29.6
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	CS2	14:01:42	1.0	Surface	1	1	17.82	8.22	32.00	96.7	7.59	4.1	7.2
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	CS2	14:00:54	1.0	Surface	1	2	17.95	8.24	31.87	96.3	7.54	4.2	7.8
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	CS2	14:00:39	4.1	Middle	2	1	17.75	8.25	32.09	95.6	7.49	4.5	12.0
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	CS2	14:01:29	4.1	Middle	2	2	17.74	8.22	32.11	95.8	7.52	4.3	11.0
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	CS2	14:00:24	7.2	Bottom	3	1	17.74	8.29	32.11	94.6	7.42	4.6	10.0
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	CS2	14:01:10	7.2	Bottom	3	2	17.75	8.22	32.11	95.2	7.47	4.6	10.4
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	CS(Mf)5	15:32:53	1.0	Surface	1	1	17.70	8.08	28.08	94.8	7.63	7.5	11.8
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	CS(Mf)5	15:32:15	1.0	Surface	1	2	17.68	8.08	28.09	94.8	7.63	7.5	10.6
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	CS(Mf)5	15:32:41	6.1	Middle	2	1	17.62	8.08	28.16	94.4	7.60	7.5	10.4
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	CS(Mf)5	15:32:06	6.1	Middle	2	2	17.63	8.08	28.15	94.5	7.61	7.7	10.9
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	CS(Mf)5	15:32:29	11.1	Bottom	3	1	17.63	8.08	28.15	94.3	7.60	7.6	10.1
HKLR	HY/2011/03	2017-02-15	Mid-Ebb	Sunny	CS(Mf)5	15:31:57	11.1	Bottom	3	2	17.65	8.08	28.11	94.5	7.61	7.8	10.6
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS5	10:39:10	1.0	Surface	1	1	17.17	8.07	29.07	97.4	7.87	9.3	12.6
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS5	10:39:51	1.0	Surface	1	2	17.17	8.07	29.09	97.2	7.85	9.5	12.6
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS5	10:38:56	4.4	Middle	2	1	17.17	8.07	29.08	97.3	7.87	9.4	12.6
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS5	10:39:39	4.4	Middle	2	2	17.17	8.07	29.08	97.0	7.84	9.5	13.7
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS5	10:39:29	7.7	Bottom	3	1	17.16	8.08	29.09	97.0	7.84	9.8	13.5
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS5	10:38:45	7.7	Bottom	3	2	17.17	8.07	29.07	97.2	7.86	9.6	13.5
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS(Mf)6	10:28:22	1.0	Surface	1	1	17.17	8.07	29.02	97.2	7.86	9.4	16.2
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS(Mf)6	10:28:38	1.0	Surface	1	2	17.19	8.07	29.02	97.1	7.85	9.2	15.5
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS(Mf)6	10:28:13	2.3	Bottom	3	1	17.17	8.07	29.01	97.2	7.86	9.4	14.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS(Mf)6	10:28:29	2.3	Bottom	3	2	17.17	8.07	29.02	97.1	7.85	9.7	15.3
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS7	10:23:19	1.0	Surface	1	1	17.17	8.07	28.99	98.4	7.96	10.4	10.8
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS7	10:23:07	1.0	Surface	1	2	17.17	8.07	28.98	99.0	8.00	10.3	12.2
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS7	10:23:13	2.5	Bottom	3	1	17.17	8.07	28.99	98.7	7.98	10.6	12.7
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS7	10:23:00	2.5	Bottom	3	2	17.18	8.07	28.98	99.3	8.03	10.4	13.6
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS8	09:58:54	1.0	Surface	1	1	17.40	8.07	28.82	98.1	7.91	7.8	10.4
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS8	09:58:20	1.0	Surface	1	2	17.40	8.06	28.76	99.3	8.00	7.9	9.7
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS8	09:58:12	3.1	Bottom	3	1	17.41	8.06	28.74	99.7	8.04	8.0	10.5
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS8	09:58:44	3.1	Bottom	3	2	17.36	8.07	28.83	98.2	7.92	7.8	11.8
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS(Mf)9	10:16:40	1.0	Surface	1	1	17.38	8.07	28.93	97.6	7.86	7.6	12.2
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS(Mf)9	10:16:26	1.0	Surface	1	2	17.38	8.07	28.92	97.5	7.86	7.5	11.3
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS(Mf)9	10:16:32	2.7	Bottom	3	1	17.38	8.07	28.93	97.4	7.85	7.6	11.8
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS(Mf)9	10:16:18	2.7	Bottom	3	2	17.38	8.07	28.92	97.5	7.85	7.7	12.6
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS10	09:57:19	1.0	Surface	1	1	17.45	8.18	32.33	95.9	7.58	8.3	10.0
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS10	09:58:01	1.0	Surface	1	2	17.45	8.19	32.35	95.8	7.59	8.3	8.4
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS10	09:57:48	5.5	Middle	2	1	17.43	8.20	32.39	95.6	7.54	8.5	10.8
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS10	09:57:10	5.5	Middle	2	2	17.44	8.19	32.36	95.6	7.54	8.6	12.0
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS10	09:57:37	9.9	Bottom	3	1	17.43	8.20	32.40	95.2	7.50	8.8	15.7
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	IS10	09:57:00	9.9	Bottom	3	2	17.43	8.19	32.39	95.1	7.50	8.8	14.0
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR3	10:46:34	0.7	Middle	2	1	17.17	8.07	29.08	97.2	7.85	9.8	11.4
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR3	10:46:42	0.7	Middle	2	2	17.17	8.07	29.08	97.1	7.85	10.1	11.4
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR4	10:04:54	1.0	Surface	1	1	17.39	8.07	28.87	97.5	7.86	7.5	9.4
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR4	10:05:07	1.0	Surface	1	2	17.39	8.07	28.88	97.5	7.86	7.4	10.8
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR4	10:04:47	2.9	Bottom	3	1	17.39	8.07	28.87	97.5	7.86	7.4	12.7
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR4	10:05:00	2.9	Bottom	3	2	17.39	8.07	28.88	97.5	7.85	7.4	11.9
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR5	10:08:45	1.0	Surface	1	1	17.44	8.21	32.38	94.8	7.48	9.2	13.2
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR5	10:08:27	1.0	Surface	1	2	17.45	8.20	32.37	94.9	7.48	9.3	12.0
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR5	10:08:18	4.0	Bottom	3	1	17.43	8.21	32.41	94.1	7.42	9.5	11.3
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR5	10:08:36	4.0	Bottom	3	2	17.44	8.20	32.40	94.3	7.43	9.6	12.0
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR10A	08:57:55	1.0	Surface	1	1	17.61	8.02	28.80	94.9	7.62	3.6	5.8
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR10A	08:58:31	1.0	Surface	1	2	17.61	8.03	28.73	94.8	7.61	3.6	4.3
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR10A	08:58:20	3.4	Middle	2	1	17.60	8.03	28.88	94.6	7.59	3.5	6.2
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR10A	08:57:47	3.4	Middle	2	2	17.60	8.02	28.91	94.7	7.60	3.5	7.0
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR10A	08:57:39	5.7	Bottom	3	1	17.60	8.02	29.00	94.8	7.60	3.5	11.2
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR10A	08:58:12	5.7	Bottom	3	2	17.59	8.03	28.98	94.6	7.59	3.6	12.3
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR10B	08:50:07	1.0	Surface	1	1	17.61	8.01	29.15	95.1	7.62	3.7	16.5
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR10B	08:49:51	1.0	Surface	1	2	17.60	8.01	29.25	95.2	7.62	3.6	17.4
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR10B	08:49:43	3.8	Bottom	3	1	17.60	8.01	29.40	95.1	7.61	3.6	19.7
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	SR10B	08:49:59	3.8	Bottom	3	2	17.61	8.01	29.27	95.2	7.62	3.8	18.7
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	CS2	11:19:43	1.0	Surface	1	1	17.44	8.22	32.49	94.7	7.46	16.1	20.0
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	CS2	11:18:57	1.0	Surface	1	2	17.43	8.22	32.48	95.0	7.48	16.2	21.7
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	CS2	11:19:15	4.2	Middle	2	1	17.43	8.22	32.49	94.5	7.45	16.3	20.8
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	CS2	11:18:50	4.2	Middle	2	2	17.43	8.22	32.48	94.6	7.45	16.4	20.4
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	CS2	11:18:35	7.3	Bottom	3	1	17.42	8.13	32.50	93.6	7.37	16.6	20.3
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	CS2	11:19:06	7.3	Bottom	3	2	17.42	8.22	32.49	94.3	7.43	16.5	21.0
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	CS(Mf)5	09:28:20	1.0	Surface	1	1	17.61	8.04	28.63	94.3	7.58	9.5	15.5
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	CS(Mf)5	09:27:33	1.0	Surface	1	2	17.61	8.03	28.65	94.4	7.59	9.4	14.5
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	CS(Mf)5	09:28:07	6.3	Middle	2	1	17.58	8.03	28.88	93.8	7.53	9.4	14.0
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	CS(Mf)5	09:27:21	6.3	Middle	2	2	17.58	8.03	28.88	94.1	7.55	9.5	15.1
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	CS(Mf)5	09:28:00	11.5	Bottom	3	1	17.58	8.03	28.90	93.7	7.52	9.6	16.8
HKLR	HY/2011/03	2017-02-15	Mid-Flood	Sunny	CS(Mf)5	09:27:12	11.5	Bottom	3	2	17.59	8.03	28.87	93.9	7.54	9.5	17.3
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS5	15:56:42	1.0	Surface	1	1	18.89	8.13	29.77	99.9	7.78	7.6	11.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS5	15:56:12	1.0	Surface	1	2	18.89	8.14	29.77	100.0	7.79	7.7	11.8
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS5	15:56:31	4.3	Middle	2	1	18.83	8.13	29.90	99.7	7.77	7.8	12.3
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS5	15:55:57	4.3	Middle	2	2	18.80	8.14	29.94	99.7	7.77	8.0	13.1
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS5	15:56:19	7.5	Bottom	3	1	18.85	8.14	29.78	99.6	7.76	8.1	14.3
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS5	15:55:49	7.5	Bottom	3	2	18.81	8.14	29.87	99.6	7.77	8.1	15.2
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS(Mf)6	16:05:33	1.0	Surface	1	1	18.85	8.12	29.63	100.0	7.80	8.8	7.9
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS(Mf)6	16:05:48	1.0	Surface	1	2	18.86	8.12	29.63	99.9	7.79	8.7	6.1
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS(Mf)6	16:05:39	2.3	Bottom	3	1	18.86	8.12	29.63	99.8	7.79	8.8	11.9
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS(Mf)6	16:05:27	2.3	Bottom	3	2	18.84	8.12	29.63	99.9	7.80	8.7	13.4
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS7	16:13:11	1.0	Surface	1	1	18.82	8.11	29.63	99.6	7.77	8.0	6.5
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS7	16:12:58	1.0	Surface	1	2	18.80	8.11	29.64	99.7	7.78	7.8	7.4
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS7	16:12:51	2.3	Bottom	3	1	18.82	8.11	29.63	99.6	7.78	7.9	13.6
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS7	16:13:04	2.3	Bottom	3	2	18.80	8.11	29.64	99.5	7.77	8.0	12.3
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS8	16:35:26	1.0	Surface	1	1	19.42	8.11	28.82	102.5	7.94	7.1	9.8
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS8	16:35:42	1.0	Surface	1	2	19.50	8.11	28.78	102.7	7.95	7.1	8.6
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS8	16:35:18	2.9	Bottom	3	1	19.19	8.11	28.85	101.3	7.89	7.0	10.6
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS8	16:35:33	2.9	Bottom	3	2	19.34	8.11	28.70	101.5	7.89	7.2	11.7
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS(Mf)9	16:18:55	1.0	Surface	1	1	19.40	8.12	29.05	102.8	7.96	4.3	7.6
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS(Mf)9	16:19:10	1.0	Surface	1	2	19.26	8.12	29.19	102.8	7.98	4.4	6.0
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS(Mf)9	16:19:04	2.6	Bottom	3	1	19.12	8.12	29.21	102.0	7.94	4.4	7.7
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS(Mf)9	16:18:48	2.6	Bottom	3	2	19.23	8.12	29.10	101.9	7.92	4.3	8.8
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS10	17:04:23	1.0	Surface	1	1	18.38	8.10	30.29	95.6	7.49	4.3	3.4
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS10	17:04:54	1.0	Surface	1	2	18.39	8.11	30.28	95.6	7.49	4.3	3.9
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS10	17:04:13	5.3	Middle	2	1	18.19	8.09	31.17	95.2	7.45	4.8	5.6
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS10	17:04:45	5.3	Middle	2	2	18.18	8.10	31.17	94.0	7.36	4.8	4.8
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS10	17:04:05	9.6	Bottom	3	1	18.20	8.08	31.15	96.0	7.52	4.7	4.8
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	IS10	17:04:36	9.6	Bottom	3	2	18.20	8.10	31.13	94.6	7.40	4.6	4.8
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR3	15:46:33	0.7	Middle	2	1	18.95	8.16	29.56	100.6	7.84	8.3	14.3
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR3	15:46:28	0.7	Middle	2	2	18.95	8.17	29.54	100.4	7.82	8.3	15.9
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR4	16:27:56	1.0	Surface	1	1	19.54	8.11	28.75	102.5	7.93	7.4	9.5
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR4	16:28:12	1.0	Surface	1	2	19.65	8.11	28.71	102.5	7.92	7.4	8.4
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR4	16:27:48	2.8	Bottom	3	1	19.39	8.11	28.66	101.4	7.88	7.5	10.6
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR4	16:28:02	2.8	Bottom	3	2	19.42	8.11	28.67	101.6	7.88	7.3	9.3
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR5	16:55:21	1.0	Surface	1	1	18.44	8.11	30.31	97.2	7.61	3.9	5.2
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR5	16:55:35	1.0	Surface	1	2	18.35	8.12	30.51	97.8	7.66	4.1	5.9
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR5	16:55:27	4.2	Bottom	3	1	18.34	8.11	30.70	96.9	7.58	4.0	9.6
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR5	16:55:04	4.2	Bottom	3	2	18.24	8.10	30.95	96.3	7.54	4.0	11.1
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR10A	17:43:21	1.0	Surface	1	1	18.29	8.08	28.55	94.4	7.49	4.4	4.7
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR10A	17:42:42	1.0	Surface	1	2	18.24	8.08	28.61	94.3	7.49	4.2	5.1
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR10A	17:43:10	3.2	Middle	2	1	18.13	8.08	28.88	94.0	7.47	4.4	6.0
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR10A	17:42:34	3.2	Middle	2	2	18.14	8.08	28.83	94.1	7.47	4.4	7.4
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR10A	17:43:03	5.3	Bottom	3	1	18.12	8.08	28.94	93.9	7.46	4.5	7.9
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR10A	17:42:23	5.3	Bottom	3	2	18.16	8.08	28.82	94.0	7.47	4.5	7.7
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR10B	17:51:21	1.0	Surface	1	1	18.21	8.08	28.65	94.4	7.50	4.3	6.4
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR10B	17:51:38	1.0	Surface	1	2	18.18	8.08	28.69	94.3	7.49	4.3	7.7
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR10B	17:51:14	3.9	Bottom	3	1	18.21	8.08	28.68	94.3	7.49	4.2	7.3
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	SR10B	17:51:32	3.9	Bottom	3	2	18.17	8.08	28.74	94.2	7.48	4.3	7.7
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	CS2	15:30:39	1.0	Surface	1	1	18.92	8.04	29.37	98.3	7.67	3.4	5.5
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	CS2	15:31:22	1.0	Surface	1	2	18.81	8.07	29.58	97.7	7.63	3.4	4.4
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	CS2	15:31:04	3.9	Middle	2	1	18.35	8.05	30.79	98.0	7.66	4.7	4.8
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	CS2	15:30:29	3.9	Middle	2	2	18.49	8.02	30.24	96.7	7.57	4.5	5.5
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	CS2	15:30:51	6.7	Bottom	3	1	18.45	8.04	30.85	97.8	7.63	5.0	7.8

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	CS2	15:30:21	6.7	Bottom	3	2	18.36	8.00	30.73	96.5	7.55	5.3	7.5
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	CS(Mf)5	17:08:27	1.0	Surface	1	1	18.28	8.08	28.63	94.2	7.47	5.4	5.8
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	CS(Mf)5	17:07:52	1.0	Surface	1	2	18.26	8.08	28.68	94.1	7.47	5.4	5.7
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	CS(Mf)5	17:07:41	6.0	Middle	2	1	18.10	8.08	29.14	93.5	7.42	5.5	8.0
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	CS(Mf)5	17:08:15	6.0	Middle	2	2	18.11	8.08	29.11	93.5	7.42	5.5	9.2
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	CS(Mf)5	17:08:04	10.9	Bottom	3	1	18.12	8.08	29.13	93.5	7.42	5.6	10.8
HKLR	HY/2011/03	2017-02-17	Mid-Ebb	Sunny	CS(Mf)5	17:07:29	10.9	Bottom	3	2	18.09	8.08	29.23	93.5	7.42	5.5	11.7
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS5	11:47:34	1.0	Surface	1	1	18.67	8.06	28.52	99.1	7.81	4.3	6.2
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS5	11:48:03	1.0	Surface	1	2	18.66	8.06	28.54	98.9	7.80	4.4	6.6
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS5	11:47:51	4.4	Middle	2	1	18.36	8.06	28.79	98.4	7.78	4.7	8.6
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS5	11:47:22	4.4	Middle	2	2	18.35	8.06	28.80	98.3	7.78	4.6	7.4
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS5	11:47:16	7.7	Bottom	3	1	18.35	8.06	28.76	98.2	7.77	4.7	11.7
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS5	11:47:44	7.7	Bottom	3	2	18.44	8.06	28.67	98.2	7.77	4.7	11.0
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS(Mf)6	11:35:38	1.0	Surface	1	1	18.50	8.05	27.79	98.0	7.78	9.9	10.8
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS(Mf)6	11:35:52	1.0	Surface	1	2	18.53	8.05	27.75	98.1	7.78	9.7	11.3
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS(Mf)6	11:35:43	2.5	Bottom	3	1	18.49	8.05	27.91	97.8	7.76	10.7	10.6
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS(Mf)6	11:35:30	2.5	Bottom	3	2	18.44	8.05	28.04	97.8	7.76	10.5	9.7
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS7	11:27:39	1.0	Surface	1	1	18.54	8.05	27.74	98.1	7.79	9.4	9.4
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS7	11:27:20	1.0	Surface	1	2	18.61	8.05	27.70	98.1	7.78	9.5	8.1
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS7	11:27:08	2.5	Bottom	3	1	18.42	8.05	28.07	97.8	7.76	9.6	9.8
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS7	11:27:28	2.5	Bottom	3	2	18.44	8.05	28.05	97.9	7.77	9.6	8.9
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS8	11:03:30	1.0	Surface	1	1	18.53	8.04	27.44	98.5	7.84	6.3	5.8
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS8	11:03:51	1.0	Surface	1	2	18.49	8.04	27.51	98.4	7.83	6.7	7.0
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS8	11:03:42	3.2	Bottom	3	1	18.40	8.04	27.72	98.2	7.82	6.7	8.2
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS8	11:03:21	3.2	Bottom	3	2	18.40	8.04	27.68	98.4	7.83	6.7	9.2
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS(Mf)9	11:22:15	1.0	Surface	1	1	18.56	8.05	27.77	98.1	7.78	11.4	10.2
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS(Mf)9	11:22:00	1.0	Surface	1	2	18.60	8.05	27.76	98.2	7.78	11.5	10.7
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS(Mf)9	11:21:50	2.7	Bottom	3	1	18.49	8.05	27.97	98.0	7.77	11.5	11.0
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS(Mf)9	11:22:06	2.7	Bottom	3	2	18.50	8.05	27.99	97.9	7.76	11.4	10.7
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS10	10:52:39	1.0	Surface	1	1	18.26	8.12	30.93	95.7	7.49	6.2	7.6
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS10	10:53:09	1.0	Surface	1	2	18.31	8.13	30.84	96.0	7.51	6.0	6.1
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS10	10:53:01	5.3	Middle	2	1	18.21	8.13	31.00	95.6	7.49	6.3	7.9
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS10	10:52:32	5.3	Middle	2	2	18.21	8.12	31.01	94.8	7.42	6.7	7.1
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS10	10:52:23	9.6	Bottom	3	1	18.18	8.12	31.05	96.4	7.55	6.7	9.0
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	IS10	10:52:54	9.6	Bottom	3	2	18.21	8.12	31.00	96.8	7.58	6.5	9.1
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR3	11:56:12	0.9	Middle	2	1	18.68	8.06	28.50	99.4	7.83	4.1	4.1
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR3	11:56:06	0.9	Middle	2	2	18.65	8.06	28.51	99.2	7.82	4.3	4.4
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR4	11:10:39	1.0	Surface	1	1	18.64	8.04	27.41	98.5	7.82	5.3	3.8
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR4	11:10:22	1.0	Surface	1	2	18.54	8.04	27.49	98.4	7.82	5.5	4.2
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR4	11:10:30	2.7	Bottom	3	1	18.43	8.04	27.67	98.1	7.80	5.3	5.2
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR4	11:10:13	2.7	Bottom	3	2	18.42	8.04	27.69	98.1	7.81	5.4	5.8
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR5	10:59:53	1.0	Surface	1	1	18.42	8.12	30.68	97.5	7.62	4.8	7.0
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR5	11:00:16	1.0	Surface	1	2	18.38	8.12	30.73	96.7	7.56	5.1	8.8
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR5	11:00:07	4.2	Bottom	3	1	18.28	8.12	30.91	96.5	7.55	5.2	9.3
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR5	10:59:39	4.2	Bottom	3	2	18.26	8.11	30.93	96.2	7.53	5.2	11.1
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR10A	10:07:39	1.0	Surface	1	1	18.28	8.02	27.79	96.0	7.65	1.3	3.4
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR10A	10:06:51	1.0	Surface	1	2	18.26	8.01	27.85	96.0	7.65	1.4	3.7
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR10A	10:06:33	3.2	Middle	2	1	18.04	8.01	28.28	95.0	7.58	1.4	3.5
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR10A	10:07:27	3.2	Middle	2	2	18.06	8.01	28.22	95.5	7.63	1.3	4.3
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR10A	10:07:15	5.4	Bottom	3	1	18.04	8.01	28.31	95.3	7.61	1.3	5.0
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR10A	10:06:16	5.4	Bottom	3	2	18.00	8.01	28.45	94.9	7.58	1.4	6.4
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR10B	09:59:22	1.0	Surface	1	1	18.19	8.01	28.14	96.1	7.66	1.4	3.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR10B	09:59:05	1.0	Surface	1	2	18.12	8.01	28.31	96.3	7.67	1.4	4.0
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR10B	09:58:59	4.1	Bottom	3	1	18.10	8.01	28.44	96.1	7.65	1.3	6.7
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	SR10B	09:59:13	4.1	Bottom	3	2	18.11	8.01	28.39	95.9	7.65	1.3	5.5
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	CS2	12:17:58	1.0	Surface	1	1	18.35	8.05	31.05	96.8	7.56	5.3	5.0
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	CS2	12:18:24	1.0	Surface	1	2	18.36	8.08	31.05	95.5	7.45	4.9	5.6
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	CS2	12:18:17	3.9	Middle	2	1	18.23	8.07	31.14	95.5	7.47	5.3	5.4
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	CS2	12:17:50	3.9	Middle	2	2	18.23	8.04	31.12	95.9	7.51	5.3	6.2
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	CS2	12:18:07	6.7	Bottom	3	1	18.34	8.06	31.08	96.3	7.52	5.5	8.5
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	CS2	12:17:40	6.7	Bottom	3	2	18.15	8.02	31.26	96.3	7.54	5.6	7.6
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	CS(Mf)5	10:33:19	1.0	Surface	1	1	18.46	8.02	27.72	95.6	7.60	3.5	4.8
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	CS(Mf)5	10:34:07	1.0	Surface	1	2	18.34	8.02	27.93	95.1	7.57	3.6	4.2
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	CS(Mf)5	10:33:03	6.3	Middle	2	1	17.96	8.01	28.72	94.2	7.51	3.6	4.3
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	CS(Mf)5	10:33:57	6.3	Middle	2	2	17.95	8.02	28.75	94.3	7.52	3.7	5.9
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	CS(Mf)5	10:32:53	11.6	Bottom	3	1	17.95	8.01	28.80	94.0	7.50	3.8	9.5
HKLR	HY/2011/03	2017-02-17	Mid-Flood	Sunny	CS(Mf)5	10:33:48	11.6	Bottom	3	2	17.92	8.01	28.86	94.0	7.50	3.7	8.7
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS5	20:07:30	1.0	Surface	1	1	19.15	8.09	28.42	102.9	8.03	2.4	2.8
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS5	20:07:58	1.0	Surface	1	2	19.23	8.09	28.36	103.2	8.05	2.3	3.8
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS5	20:07:18	4.2	Middle	2	1	18.82	8.08	28.67	101.6	7.96	2.6	4.7
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS5	20:07:52	4.2	Middle	2	2	19.17	8.09	28.41	102.1	7.98	2.6	5.5
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS5	20:07:36	7.3	Bottom	3	1	19.20	8.09	28.38	101.7	7.96	2.8	4.7
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS5	20:07:11	7.3	Bottom	3	2	18.98	8.08	28.57	101.6	7.96	2.8	4.9
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS(Mf)6	20:15:54	1.0	Surface	1	1	19.14	8.09	28.45	103.3	8.07	3.3	5.4
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS(Mf)6	20:15:32	1.0	Surface	1	2	19.14	8.10	28.45	103.2	8.06	3.2	5.0
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS(Mf)6	20:15:26	2.3	Bottom	3	1	19.03	8.10	28.44	102.7	8.04	3.5	8.3
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS(Mf)6	20:15:44	2.3	Bottom	3	2	19.11	8.10	28.46	102.0	7.97	3.6	7.4
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS7	20:20:57	1.0	Surface	1	1	19.09	8.09	28.44	102.6	8.03	2.5	5.6
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS7	20:21:23	1.0	Surface	1	2	19.23	8.09	28.53	104.1	8.12	2.4	4.6
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS7	20:21:06	2.3	Bottom	3	1	19.30	8.09	28.43	102.2	8.01	2.7	7.2
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS7	20:20:47	2.3	Bottom	3	2	18.99	8.09	28.49	101.9	7.99	2.8	7.5
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS8	20:47:25	1.0	Surface	1	1	19.16	8.08	28.36	100.3	7.84	7.2	16.6
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS8	20:48:01	1.0	Surface	1	2	19.13	8.08	28.39	100.5	7.85	7.3	16.1
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS8	20:47:34	2.6	Bottom	3	1	19.14	8.07	28.37	99.6	7.79	7.5	19.2
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS8	20:47:14	2.6	Bottom	3	2	19.16	8.08	28.35	100.2	7.83	7.6	19.0
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS(Mf)9	20:26:14	1.0	Surface	1	1	19.63	8.09	28.47	104.9	8.12	2.4	5.1
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS(Mf)9	20:26:41	1.0	Surface	1	2	19.43	8.09	28.68	104.8	8.14	2.3	5.6
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS(Mf)9	20:26:06	2.4	Bottom	3	1	19.47	8.10	28.27	103.9	8.08	2.8	15.3
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS(Mf)9	20:26:34	2.4	Bottom	3	2	19.11	8.10	28.41	103.7	8.11	2.8	13.2
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS10	20:42:06	1.0	Surface	1	1	19.44	8.12	28.58	105.4	8.18	2.8	6.4
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS10	20:42:41	1.0	Surface	1	2	19.18	8.14	28.81	104.1	8.11	2.5	7.9
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS10	20:41:42	5.3	Middle	2	1	18.52	8.07	30.59	101.3	7.90	3.2	8.5
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS10	20:42:25	5.3	Middle	2	2	18.56	8.11	30.91	102.2	7.96	3.5	7.0
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS10	20:42:18	9.6	Bottom	3	1	18.64	8.10	31.12	103.4	8.02	4.5	7.5
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	IS10	20:41:35	9.6	Bottom	3	2	18.33	8.04	31.83	102.0	7.93	4.4	6.6
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR3	20:00:37	0.6	Middle	2	1	19.17	8.09	28.40	103.0	8.05	2.2	5.6
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR3	20:00:30	0.6	Middle	2	2	19.14	8.09	28.41	103.0	8.05	2.1	6.8
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR4	20:39:07	1.0	Surface	1	1	19.16	8.08	28.35	99.4	7.77	7.4	12.4
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR4	20:38:44	1.0	Surface	1	2	19.12	8.08	28.39	99.1	7.75	7.3	13.7
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR4	20:38:32	2.7	Bottom	3	1	19.08	8.08	28.44	98.8	7.73	7.7	15.9
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR4	20:38:51	2.7	Bottom	3	2	19.11	8.08	28.41	97.8	7.65	7.6	15.2
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR5	20:34:58	1.0	Surface	1	1	19.27	8.10	28.71	105.1	8.18	2.6	6.2
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR5	20:35:10	1.0	Surface	1	2	18.96	8.11	29.30	105.3	8.21	2.4	5.2
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR5	20:34:46	4.4	Bottom	3	1	18.76	8.08	30.31	103.9	8.08	3.0	10.6

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR5	20:35:03	4.4	Bottom	3	2	19.04	8.10	29.47	104.1	8.10	3.3	12.3
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR10A	21:46:08	1.0	Surface	1	1	18.45	8.07	29.66	98.1	7.67	1.2	4.8
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR10A	21:45:32	1.0	Surface	1	2	18.71	8.07	29.45	97.7	7.69	1.2	3.9
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR10A	21:45:56	3.3	Middle	2	1	18.45	8.07	29.66	97.2	7.64	1.4	5.6
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR10A	21:45:24	3.3	Middle	2	2	18.34	8.06	29.86	97.2	7.64	1.3	7.3
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR10A	21:45:13	5.5	Bottom	3	1	18.39	8.06	29.99	96.7	7.60	1.5	9.8
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR10A	21:45:44	5.5	Bottom	3	2	18.14	8.05	30.26	96.6	7.60	1.5	8.4
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR10B	21:55:36	1.0	Surface	1	1	18.76	8.07	29.35	97.2	7.60	1.2	3.2
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR10B	21:55:19	1.0	Surface	1	2	18.82	8.07	29.34	97.7	7.63	1.3	5.0
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR10B	21:55:06	3.9	Bottom	3	1	18.35	8.06	29.86	95.6	7.52	1.5	3.8
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	SR10B	21:55:29	3.9	Bottom	3	2	18.86	8.07	29.29	95.9	7.55	1.4	4.5
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	CS2	19:20:23	1.0	Surface	1	1	19.01	8.16	28.78	99.5	7.78	2.0	2.9
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	CS2	19:20:57	1.0	Surface	1	2	19.16	8.18	28.48	103.6	8.09	1.8	3.6
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	CS2	19:20:16	3.8	Middle	2	1	18.64	8.14	29.69	96.9	7.59	2.2	4.4
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	CS2	19:20:46	3.8	Middle	2	2	18.77	8.16	29.51	100.6	7.87	2.0	4.3
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	CS2	19:20:07	6.6	Bottom	3	1	18.35	8.12	31.73	96.9	7.54	3.1	3.4
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	CS2	19:20:32	6.6	Bottom	3	2	18.66	8.14	31.31	100.7	7.81	2.9	4.0
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	CS(Mf)5	21:25:30	1.0	Surface	1	1	18.37	8.09	29.95	95.9	7.54	1.3	4.1
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	CS(Mf)5	21:26:08	1.0	Surface	1	2	18.27	8.09	29.84	95.6	7.57	1.1	4.9
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	CS(Mf)5	21:25:21	6.7	Middle	2	1	18.18	8.08	30.31	94.5	7.43	1.4	3.8
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	CS(Mf)5	21:25:54	6.7	Middle	2	2	18.15	8.08	30.35	95.2	7.52	1.4	5.2
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	CS(Mf)5	21:25:12	12.3	Bottom	3	1	18.14	8.08	30.49	93.7	7.37	1.6	8.1
HKLR	HY/2011/03	2017-02-20	Mid-Ebb	Fine	CS(Mf)5	21:25:41	12.3	Bottom	3	2	18.18	8.08	30.42	94.9	7.44	1.6	7.6
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS5	13:54:18	1.0	Surface	1	1	18.99	8.09	28.50	101.7	7.97	2.1	8.2
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS5	13:54:45	1.0	Surface	1	2	19.03	8.09	28.47	101.8	8.00	2.2	9.3
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS5	13:54:38	4.3	Middle	2	1	18.91	8.09	28.56	101.2	7.93	2.4	13.9
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS5	13:54:12	4.3	Middle	2	2	18.94	8.09	28.54	101.0	7.91	2.3	14.6
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS5	13:54:29	7.5	Bottom	3	1	18.86	8.09	28.60	100.6	7.89	2.6	16.0
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS5	13:54:03	7.5	Bottom	3	2	18.96	8.10	28.52	100.6	7.89	2.5	14.1
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS(Mf)6	13:44:46	1.0	Surface	1	1	20.36	8.08	28.20	103.8	8.01	2.3	6.0
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS(Mf)6	13:45:03	1.0	Surface	1	2	19.70	8.08	28.42	104.9	8.12	2.3	6.1
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS(Mf)6	13:44:54	2.4	Bottom	3	1	19.83	8.09	28.11	103.5	8.00	2.7	8.1
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS(Mf)6	13:44:38	2.4	Bottom	3	2	19.82	8.09	28.12	103.2	8.00	2.6	7.2
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS7	13:39:34	1.0	Surface	1	1	20.38	8.08	28.06	102.8	7.97	2.5	4.6
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS7	13:39:13	1.0	Surface	1	2	19.69	8.08	28.33	102.9	7.99	2.4	6.2
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS7	13:39:22	2.4	Bottom	3	1	19.42	8.09	28.24	101.6	7.91	2.7	5.0
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS7	13:39:01	2.4	Bottom	3	2	19.59	8.09	28.21	101.9	7.93	2.8	5.2
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS8	13:18:22	1.0	Surface	1	1	19.04	8.08	28.29	100.1	7.83	7.3	7.6
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS8	13:18:54	1.0	Surface	1	2	19.17	8.08	28.17	99.5	7.79	7.4	8.5
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS8	13:18:31	2.8	Bottom	3	1	19.09	8.08	28.24	98.7	7.73	7.8	11.1
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS8	13:18:11	2.8	Bottom	3	2	19.14	8.08	28.21	97.9	7.67	7.7	11.1
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS(Mf)9	13:31:22	1.0	Surface	1	1	19.06	8.10	28.40	103.0	8.06	2.1	5.5
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS(Mf)9	13:31:40	1.0	Surface	1	2	19.23	8.10	28.46	103.4	8.06	2.3	4.2
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS(Mf)9	13:31:14	2.6	Bottom	3	1	19.15	8.11	28.34	102.8	8.04	2.5	9.1
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS(Mf)9	13:31:32	2.6	Bottom	3	2	19.08	8.10	28.38	102.7	8.03	2.5	9.3
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS10	12:54:12	1.0	Surface	1	1	19.14	8.08	28.58	100.6	7.86	1.7	6.7
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS10	12:53:39	1.0	Surface	1	2	18.95	8.05	28.68	100.8	7.89	1.9	6.7
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS10	12:53:59	5.4	Middle	2	1	18.48	8.03	31.15	98.3	7.65	1.8	5.7
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS10	12:53:30	5.4	Middle	2	2	18.50	8.02	30.96	99.8	7.77	2.0	6.8
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS10	12:53:50	9.8	Bottom	3	1	18.60	8.03	31.16	100.6	7.82	2.3	9.2
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	IS10	12:53:21	9.8	Bottom	3	2	18.76	8.02	30.69	101.8	7.90	2.5	7.9
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR3	13:59:30	0.7	Middle	2	1	19.15	8.09	28.39	102.8	8.03	2.1	5.2

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR3	13:59:24	0.7	Middle	2	2	19.14	8.09	28.39	102.6	8.02	2.2	5.1
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR4	13:25:47	1.0	Surface	1	1	19.28	8.08	28.10	101.6	7.93	6.3	9.9
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR4	13:25:07	1.0	Surface	1	2	19.15	8.07	28.20	101.1	7.90	6.4	11.2
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR4	13:24:56	2.9	Bottom	3	1	19.20	8.08	28.16	100.7	7.88	6.7	10.8
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR4	13:25:28	2.9	Bottom	3	2	19.24	8.08	28.12	100.7	7.88	6.7	11.7
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR5	13:00:57	1.0	Surface	1	1	19.18	8.09	28.56	104.8	8.18	2.0	4.4
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR5	13:01:20	1.0	Surface	1	2	18.66	8.08	28.97	100.2	7.88	2.1	4.4
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR5	13:01:15	4.3	Bottom	3	1	18.64	8.07	30.50	101.7	7.92	2.5	4.0
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR5	13:00:36	4.3	Bottom	3	2	18.60	8.03	30.64	101.8	7.93	2.4	3.3
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR10A	12:18:42	1.0	Surface	1	1	18.80	8.06	28.35	100.0	7.87	1.1	3.7
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR10A	12:19:20	1.0	Surface	1	2	18.91	8.06	28.26	100.5	7.89	1.1	3.2
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR10A	12:18:32	3.3	Middle	2	1	18.49	8.05	28.69	99.5	7.86	1.4	4.7
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR10A	12:19:10	3.3	Middle	2	2	18.51	8.06	28.65	99.7	7.86	1.3	3.8
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR10A	12:18:24	5.6	Bottom	3	1	18.57	8.05	28.75	99.1	7.82	1.6	3.5
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR10A	12:19:02	5.6	Bottom	3	2	18.50	8.05	28.88	99.1	7.83	1.5	3.4
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR10B	12:07:22	1.0	Surface	1	1	18.55	8.06	28.72	98.9	7.80	1.1	4.2
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR10B	12:07:46	1.0	Surface	1	2	18.56	8.06	28.69	99.3	7.82	1.2	3.0
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR10B	12:07:13	4.0	Bottom	3	1	18.46	8.06	29.06	98.9	7.79	1.4	3.9
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	SR10B	12:07:36	4.0	Bottom	3	2	18.52	8.06	28.87	98.9	7.80	1.5	4.2
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	CS2	14:15:46	1.0	Surface	1	1	19.08	8.18	28.43	102.5	8.02	2.5	4.9
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	CS2	14:15:06	1.0	Surface	1	2	19.11	8.16	28.44	101.0	7.90	2.6	3.9
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	CS2	14:14:54	4.0	Middle	2	1	18.43	8.12	31.18	100.7	7.85	3.1	5.3
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	CS2	14:15:34	4.0	Middle	2	2	18.63	8.15	30.15	100.0	7.81	3.2	5.1
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	CS2	14:14:45	6.9	Bottom	3	1	18.38	8.11	31.60	103.0	8.01	3.3	4.2
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	CS2	14:15:19	6.9	Bottom	3	2	18.61	8.14	30.88	103.4	8.05	3.4	4.0
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	CS(Mf)5	12:38:14	1.0	Surface	1	1	18.53	8.06	28.62	100.6	7.89	1.2	1.9
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	CS(Mf)5	12:38:52	1.0	Surface	1	2	18.64	8.07	28.45	100.2	7.90	1.3	1.9
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	CS(Mf)5	12:38:43	6.7	Middle	2	1	18.55	8.06	28.63	99.9	7.87	1.4	2.4
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	CS(Mf)5	12:38:03	6.7	Middle	2	2	18.73	8.06	28.56	100.0	7.89	1.3	4.2
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	CS(Mf)5	12:37:51	12.3	Bottom	3	1	19.03	8.07	28.15	99.5	7.85	1.5	3.1
HKLR	HY/2011/03	2017-02-20	Mid-Flood	Fine	CS(Mf)5	12:38:22	12.3	Bottom	3	2	18.68	8.06	28.41	99.8	7.86	1.6	2.9
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS5	11:44:37	1.0	Surface	1	1	19.06	8.12	28.56	99.3	7.76	6.2	8.4
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS5	11:45:18	1.0	Surface	1	2	19.08	8.12	28.54	99.4	7.77	6.0	7.8
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS5	11:44:26	4.2	Middle	2	1	19.00	8.12	28.64	98.9	7.74	6.4	8.3
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS5	11:45:08	4.2	Middle	2	2	19.02	8.12	28.60	99.0	7.75	6.2	8.8
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS5	11:45:02	7.4	Bottom	3	1	18.99	8.12	28.64	99.0	7.75	6.0	8.3
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS5	11:44:18	7.4	Bottom	3	2	18.99	8.12	28.66	98.8	7.73	6.6	7.4
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS(Mf)6	11:33:56	1.0	Surface	1	1	19.12	8.13	27.98	99.2	7.78	5.0	5.4
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS(Mf)6	11:34:26	1.0	Surface	1	2	19.11	8.12	28.05	99.4	7.79	4.6	4.9
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS(Mf)6	11:34:16	2.3	Bottom	3	1	19.01	8.12	28.46	99.3	7.77	5.2	8.0
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS(Mf)6	11:33:48	2.3	Bottom	3	2	19.10	8.12	28.21	98.9	7.74	5.0	9.3
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS7	11:26:06	1.0	Surface	1	1	19.16	8.13	28.48	103.1	8.05	3.6	4.8
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS7	11:26:26	1.0	Surface	1	2	19.19	8.13	28.47	103.2	8.06	3.3	4.7
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS7	11:25:58	2.3	Bottom	3	1	19.14	8.13	28.51	102.9	8.04	3.5	6.4
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS7	11:26:11	2.3	Bottom	3	2	19.18	8.13	28.47	103.0	8.04	3.6	5.5
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS8	11:00:46	1.0	Surface	1	1	19.05	8.13	28.59	100.6	7.86	4.1	4.2
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS8	11:00:59	1.0	Surface	1	2	18.97	8.13	28.68	100.8	7.89	4.0	4.5
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS8	11:00:53	2.8	Bottom	3	1	18.95	8.13	28.73	100.5	7.87	4.0	6.2
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS8	11:00:35	2.8	Bottom	3	2	19.06	8.13	28.62	100.1	7.82	3.8	5.3
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS(Mf)9	11:19:52	1.0	Surface	1	1	19.15	8.13	28.51	102.5	8.00	3.3	3.8
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS(Mf)9	11:19:38	1.0	Surface	1	2	19.14	8.13	28.53	102.2	7.98	3.4	3.5
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS(Mf)9	11:19:45	2.7	Bottom	3	1	19.14	8.13	28.55	102.2	7.98	3.4	6.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS(Mf)9	11:19:28	2.7	Bottom	3	2	19.14	8.13	28.59	101.7	7.94	3.5	7.5
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS10	10:08:34	1.0	Surface	1	1	18.71	8.10	31.37	102.6	7.94	1.6	4.1
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS10	10:09:07	1.0	Surface	1	2	18.88	8.12	30.46	102.4	7.94	1.6	3.5
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS10	10:08:53	5.4	Middle	2	1	18.97	8.12	30.57	101.9	7.88	1.6	5.6
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS10	10:08:18	5.4	Middle	2	2	18.91	8.10	30.66	101.3	7.84	1.6	4.1
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS10	10:08:42	9.7	Bottom	3	1	18.69	8.10	31.12	101.2	7.85	1.8	4.0
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	IS10	10:08:06	9.7	Bottom	3	2	18.56	8.18	31.42	100.7	7.80	1.8	4.2
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR3	11:55:18	0.8	Middle	2	1	19.26	8.12	28.23	100.4	7.83	5.1	7.8
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR3	11:55:12	0.8	Middle	2	2	19.16	8.12	28.38	100.2	7.83	5.4	7.8
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR4	11:09:22	1.0	Surface	1	1	19.10	8.13	28.57	100.6	7.86	4.0	6.2
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR4	11:09:52	1.0	Surface	1	2	19.10	8.12	28.57	101.4	7.92	4.0	5.9
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR4	11:09:42	2.9	Bottom	3	1	19.04	8.12	28.63	101.1	7.90	4.0	6.0
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR4	11:09:13	2.9	Bottom	3	2	19.04	8.12	28.66	99.9	7.81	4.2	5.8
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR5	10:20:16	1.0	Surface	1	1	18.83	8.14	30.87	101.8	7.88	1.4	2.9
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR5	10:19:40	1.0	Surface	1	2	18.76	8.13	30.79	102.9	7.96	1.5	4.2
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR5	10:19:58	4.1	Bottom	3	1	18.39	8.12	32.13	99.7	7.72	1.7	4.3
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR5	10:19:28	4.1	Bottom	3	2	18.36	8.11	32.19	99.5	7.72	1.6	3.2
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR10A	09:36:57	1.0	Surface	1	1	18.43	8.08	30.11	95.2	7.46	1.7	2.6
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR10A	09:37:46	1.0	Surface	1	2	18.45	8.08	30.08	95.2	7.46	1.7	3.1
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR10A	09:36:47	3.3	Middle	2	1	18.28	8.08	30.20	94.7	7.44	1.6	4.0
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR10A	09:37:37	3.3	Middle	2	2	18.30	8.08	30.16	94.7	7.44	1.7	4.7
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR10A	09:37:25	5.6	Bottom	3	1	18.15	8.08	30.38	94.5	7.43	1.8	6.0
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR10A	09:36:35	5.6	Bottom	3	2	18.40	8.08	30.15	94.8	7.44	1.7	7.2
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR10B	09:25:17	1.0	Surface	1	1	18.44	8.09	30.16	95.1	7.45	1.5	3.6
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR10B	09:24:20	1.0	Surface	1	2	18.40	8.09	30.24	95.2	7.46	1.6	4.8
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR10B	09:24:12	4.4	Bottom	3	1	18.35	8.09	30.26	94.8	7.44	1.5	6.8
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	SR10B	09:25:06	4.4	Bottom	3	2	18.18	8.09	30.36	94.5	7.43	1.6	6.3
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	CS2	11:41:36	1.0	Surface	1	1	19.31	8.11	29.75	106.3	8.21	1.7	4.7
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	CS2	11:42:17	1.0	Surface	1	2	19.34	8.14	29.68	107.4	8.30	1.7	5.1
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	CS2	11:41:25	4.0	Middle	2	1	19.14	8.08	30.08	105.7	8.17	2.0	6.6
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	CS2	11:42:09	4.0	Middle	2	2	19.29	8.13	29.76	106.0	8.21	1.8	5.8
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	CS2	11:41:55	7.0	Bottom	3	1	18.93	8.10	30.64	105.1	8.14	2.1	6.8
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	CS2	11:41:09	7.0	Bottom	3	2	18.74	8.14	31.10	104.5	8.08	2.1	6.6
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	CS(Mf)5	10:15:47	1.0	Surface	1	1	18.51	8.08	30.04	94.9	7.43	1.6	3.9
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	CS(Mf)5	10:15:02	1.0	Surface	1	2	18.48	8.08	30.06	94.7	7.42	1.7	2.6
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	CS(Mf)5	10:14:48	6.8	Middle	2	1	18.14	8.08	30.36	93.7	7.38	1.7	2.6
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	CS(Mf)5	10:15:31	6.8	Middle	2	2	18.13	8.08	30.37	93.8	7.39	1.5	2.9
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	CS(Mf)5	10:15:23	12.6	Bottom	3	1	18.14	8.08	30.36	94.3	7.42	1.6	3.6
HKLR	HY/2011/03	2017-02-22	Mid-Ebb	Cloudy	CS(Mf)5	10:14:41	12.6	Bottom	3	2	18.21	8.08	30.30	94.0	7.40	1.7	3.0
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS5	14:01:07	1.0	Surface	1	1	19.29	8.15	29.70	101.0	7.81	5.6	6.7
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS5	14:01:41	1.0	Surface	1	2	19.27	8.15	29.68	101.1	7.82	5.7	6.2
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS5	14:00:56	4.3	Middle	2	1	19.05	8.14	29.92	100.4	7.79	6.1	5.7
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS5	14:01:30	4.3	Middle	2	2	19.01	8.14	29.93	100.4	7.80	6.3	6.9
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS5	14:01:23	7.5	Bottom	3	1	19.01	8.14	29.96	100.4	7.80	6.4	6.3
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS5	14:00:49	7.5	Bottom	3	2	19.17	8.15	29.85	100.5	7.78	6.0	7.2
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS(Mf)6	14:13:02	1.0	Surface	1	1	19.38	8.14	28.99	102.0	7.91	5.4	4.3
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS(Mf)6	14:12:47	1.0	Surface	1	2	19.54	8.17	28.89	101.8	7.87	5.4	5.6
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS(Mf)6	14:12:36	2.4	Bottom	3	1	19.31	8.15	29.00	100.3	7.79	5.9	6.4
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS(Mf)6	14:12:55	2.4	Bottom	3	2	19.26	8.14	29.04	101.9	7.92	5.8	7.7
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS7	14:22:10	1.0	Surface	1	1	19.60	8.16	28.84	106.4	8.23	4.4	7.2
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS7	14:21:55	1.0	Surface	1	2	19.60	8.16	28.86	105.7	8.17	4.7	6.1
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS7	14:21:45	2.4	Bottom	3	1	19.56	8.16	28.91	105.1	8.12	4.4	9.9

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS7	14:22:03	2.4	Bottom	3	2	19.60	8.16	28.84	106.0	8.19	4.6	11.1
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS8	14:45:32	1.0	Surface	1	1	19.29	8.14	28.92	105.2	8.17	5.5	3.9
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS8	14:45:45	1.0	Surface	1	2	19.14	8.13	29.05	104.6	8.14	5.4	5.3
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS8	14:45:26	2.8	Bottom	3	1	19.31	8.14	28.99	104.8	8.14	5.8	4.8
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS8	14:45:39	2.8	Bottom	3	2	19.10	8.12	29.20	104.4	8.13	5.7	6.2
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS(Mf)9	14:28:37	1.0	Surface	1	1	19.31	8.15	28.92	104.6	8.12	3.8	6.2
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS(Mf)9	14:28:23	1.0	Surface	1	2	19.41	8.15	28.79	103.9	8.06	3.9	5.8
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS(Mf)9	14:28:13	2.6	Bottom	3	1	19.27	8.14	29.01	102.7	7.98	4.2	6.4
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS(Mf)9	14:28:30	2.6	Bottom	3	2	19.30	8.14	28.99	104.0	8.07	4.0	6.0
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS10	16:01:14	1.0	Surface	1	1	19.57	8.24	29.30	118.7	9.11	1.2	4.7
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS10	16:01:41	1.0	Surface	1	2	19.60	8.25	29.24	118.5	9.16	1.4	3.9
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS10	16:01:06	5.5	Middle	2	1	19.47	8.23	29.67	116.8	8.83	1.4	5.1
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS10	16:01:31	5.5	Middle	2	2	19.49	8.24	29.62	117.7	9.06	1.5	6.1
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS10	16:01:23	9.9	Bottom	3	1	19.50	8.24	29.79	112.7	8.71	1.8	6.1
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	IS10	16:00:56	9.9	Bottom	3	2	19.52	8.23	29.71	111.4	8.60	1.6	6.9
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR3	13:48:57	0.9	Middle	2	1	19.32	8.19	29.84	100.2	7.74	5.2	5.8
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR3	13:49:06	0.9	Middle	2	2	19.32	8.18	29.82	100.9	7.79	5.1	6.4
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR4	14:38:39	1.0	Surface	1	1	19.28	8.14	28.95	104.1	8.09	5.5	4.6
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR4	14:38:24	1.0	Surface	1	2	19.40	8.14	28.84	103.9	8.06	5.2	5.5
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR4	14:38:32	2.8	Bottom	3	1	19.10	8.13	29.19	103.4	8.05	5.9	4.9
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR4	14:38:14	2.8	Bottom	3	2	19.19	8.13	29.12	102.9	8.00	5.8	5.1
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR5	15:49:02	1.0	Surface	1	1	19.25	8.11	29.91	105.2	8.16	2.0	4.0
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR5	15:49:21	1.0	Surface	1	2	19.13	8.13	30.18	105.4	8.14	2.0	4.7
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR5	15:48:54	4.1	Bottom	3	1	19.08	8.08	30.57	104.1	8.03	2.1	3.3
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR5	15:49:12	4.1	Bottom	3	2	19.21	8.12	30.33	103.9	8.05	2.2	3.9
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR10A	16:12:25	1.0	Surface	1	1	18.82	8.11	29.99	101.0	7.87	1.8	2.3
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR10A	16:13:12	1.0	Surface	1	2	18.82	8.11	30.00	101.1	7.87	1.8	2.2
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR10A	16:12:12	3.4	Middle	2	1	18.61	8.11	30.16	100.2	7.83	1.6	2.8
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR10A	16:12:58	3.4	Middle	2	2	18.55	8.11	30.23	100.2	7.83	1.8	2.6
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR10A	16:11:53	5.7	Bottom	3	1	18.54	8.10	30.24	100.1	7.82	2.0	4.5
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR10A	16:12:49	5.7	Bottom	3	2	18.49	8.11	30.30	100.1	7.83	1.8	5.6
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR10B	16:26:57	1.0	Surface	1	1	18.79	8.11	30.03	101.2	7.88	1.7	3.4
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR10B	16:26:34	1.0	Surface	1	2	18.79	8.11	30.02	101.2	7.88	1.7	4.3
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR10B	16:26:24	4.3	Bottom	3	1	18.69	8.11	30.12	100.8	7.86	1.6	4.7
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	SR10B	16:26:47	4.3	Bottom	3	2	18.63	8.11	30.18	100.8	7.87	1.8	5.8
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	CS2	14:31:45	1.0	Surface	1	1	19.49	8.08	28.92	111.9	8.64	2.3	5.5
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	CS2	14:32:39	1.0	Surface	1	2	19.53	8.09	28.83	112.1	8.67	2.4	6.4
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	CS2	14:32:25	4.1	Middle	2	1	19.43	8.07	29.41	110.9	8.57	2.6	6.0
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	CS2	14:31:24	4.1	Middle	2	2	19.36	8.04	29.75	110.6	8.56	2.5	6.8
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	CS2	14:32:10	7.1	Bottom	3	1	19.37	8.04	29.68	108.5	8.37	2.7	6.5
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	CS2	14:31:14	7.1	Bottom	3	2	19.34	8.06	29.83	108.2	8.36	2.8	6.8
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	CS(Mf)5	15:29:37	1.0	Surface	1	1	18.75	8.11	29.98	98.4	7.67	1.7	2.3
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	CS(Mf)5	15:30:23	1.0	Surface	1	2	18.76	8.11	30.01	98.5	7.68	1.6	3.1
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	CS(Mf)5	15:29:21	6.8	Middle	2	1	18.27	8.10	30.41	96.6	7.59	1.6	3.2
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	CS(Mf)5	15:30:09	6.8	Middle	2	2	18.30	8.10	30.39	96.8	7.59	1.8	2.8
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	CS(Mf)5	15:29:10	12.5	Bottom	3	1	18.44	8.11	30.27	97.6	7.64	1.8	2.8
HKLR	HY/2011/03	2017-02-22	Mid-Flood	Cloudy	CS(Mf)5	15:29:59	12.5	Bottom	3	2	18.19	8.09	30.53	97.3	7.64	2.0	2.4
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS5	12:33:57	1.0	Surface	1	1	18.33	8.10	28.15	94.8	7.54	7.6	14.2
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS5	12:34:32	1.0	Surface	1	2	18.38	8.11	28.13	94.4	7.50	7.6	14.5
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS5	12:33:46	4.5	Middle	2	1	18.33	8.10	28.14	94.7	7.52	7.7	15.5
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS5	12:34:15	4.5	Middle	2	2	18.34	8.10	28.16	94.3	7.49	7.7	14.0
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS5	12:34:05	8.0	Bottom	3	1	18.33	8.10	28.16	94.2	7.49	7.9	15.3

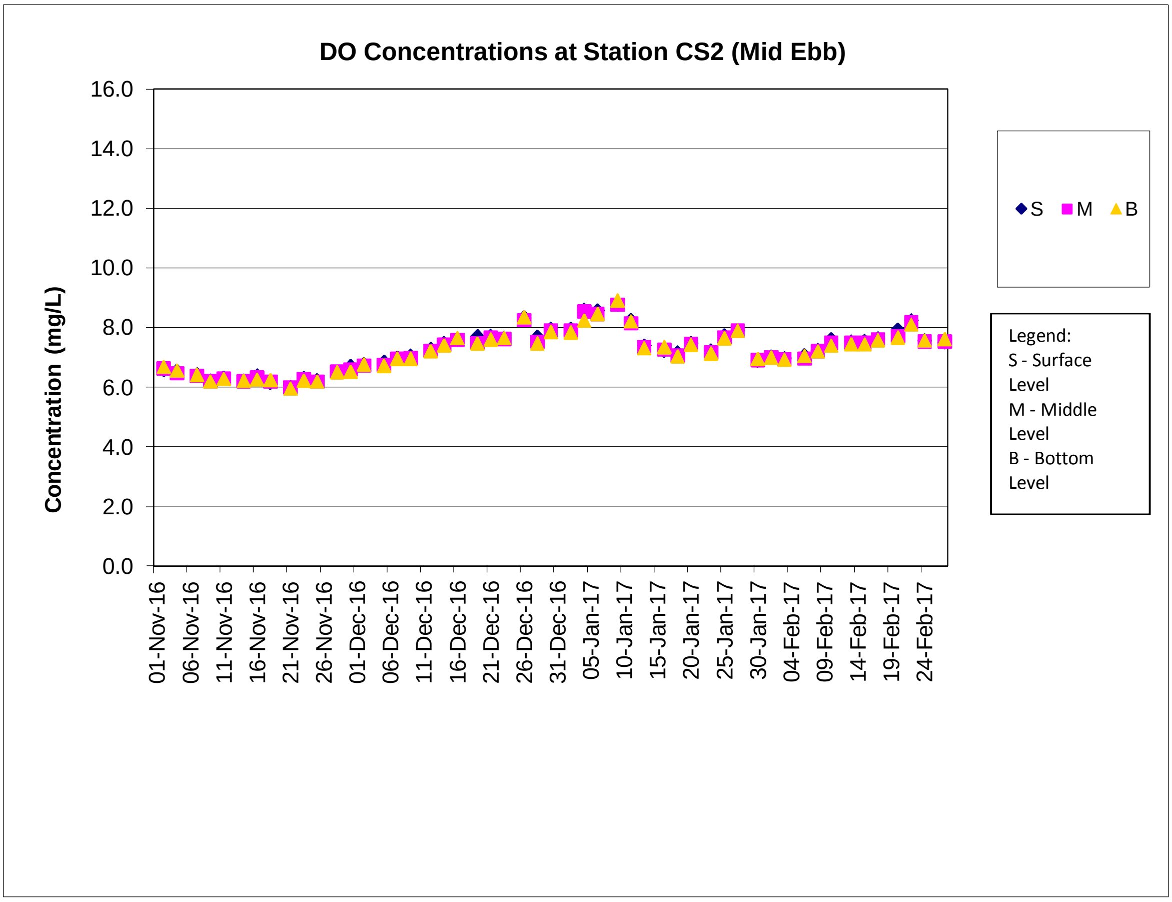
Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS5	12:33:37	8.0	Bottom	3	2	18.33	8.10	28.13	94.6	7.52	7.8	16.1
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS(Mf)6	12:15:14	1.0	Surface	1	1	18.22	8.13	27.57	97.6	7.80	3.9	3.9
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS(Mf)6	12:15:26	1.0	Surface	1	2	18.21	8.13	27.56	97.5	7.80	3.9	3.2
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS(Mf)6	12:15:20	2.5	Bottom	3	1	18.21	8.13	27.58	97.5	7.79	4.0	10.8
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS(Mf)6	12:15:09	2.5	Bottom	3	2	18.20	8.13	27.57	97.5	7.79	3.9	11.3
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS7	12:10:45	1.0	Surface	1	1	18.20	8.13	27.54	97.6	7.80	3.7	4.9
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS7	12:10:37	1.0	Surface	1	2	18.21	8.13	27.55	97.6	7.80	3.7	5.3
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS7	12:10:32	2.6	Bottom	3	1	18.20	8.13	27.55	97.6	7.80	3.7	8.6
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS7	12:10:41	2.6	Bottom	3	2	18.20	8.13	27.55	97.5	7.80	3.7	7.8
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS8	11:56:17	1.0	Surface	1	1	18.21	8.11	27.43	99.7	7.98	3.9	8.7
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS8	11:56:24	1.0	Surface	1	2	18.20	8.11	27.43	99.3	7.94	3.8	8.2
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS8	11:56:13	2.4	Bottom	3	1	18.20	8.11	27.43	99.4	7.96	4.0	9.3
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS8	11:56:20	2.4	Bottom	3	2	18.20	8.11	27.43	99.1	7.93	3.9	7.9
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS(Mf)9	12:06:23	1.0	Surface	1	1	18.20	8.12	27.52	97.7	7.81	3.7	3.8
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS(Mf)9	12:06:15	1.0	Surface	1	2	18.20	8.12	27.53	97.7	7.82	3.8	5.3
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS(Mf)9	12:06:12	2.4	Bottom	3	1	18.20	8.12	27.52	97.7	7.81	3.9	9.6
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS(Mf)9	12:06:19	2.4	Bottom	3	2	18.20	8.12	27.53	97.7	7.81	3.7	10.4
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS10	11:54:52	1.0	Surface	1	1	18.13	8.12	30.28	95.5	7.52	4.2	8.3
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS10	11:54:26	1.0	Surface	1	2	18.12	8.11	30.21	96.4	7.60	4.2	7.3
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS10	11:54:08	5.4	Middle	2	1	18.22	8.06	31.11	95.9	7.51	4.3	7.8
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS10	11:54:41	5.4	Middle	2	2	18.18	8.09	31.31	95.9	7.50	4.2	7.5
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS10	11:54:36	9.7	Bottom	3	1	18.17	8.10	31.52	96.2	7.52	4.3	8.5
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	IS10	11:53:58	9.7	Bottom	3	2	18.16	8.06	31.52	96.3	7.53	4.4	7.5
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR3	12:42:20	0.8	Middle	2	1	18.34	8.11	28.17	94.3	7.49	7.6	15.8
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR3	12:42:23	0.8	Middle	2	2	18.35	8.11	28.17	94.3	7.49	7.6	14.3
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR4	12:00:34	1.0	Surface	1	1	18.20	8.12	27.50	98.0	7.84	3.7	6.0
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR4	12:00:26	1.0	Surface	1	2	18.21	8.12	27.51	98.1	7.84	3.8	4.8
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR4	12:00:22	2.4	Bottom	3	1	18.20	8.12	27.51	98.0	7.84	3.8	5.4
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR4	12:00:30	2.4	Bottom	3	2	18.19	8.12	27.51	98.0	7.84	3.8	6.5
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR5	12:03:00	1.0	Surface	1	1	18.12	8.15	30.23	96.8	7.63	4.1	6.0
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR5	12:02:41	1.0	Surface	1	2	18.10	8.14	30.19	97.1	7.66	4.2	5.3
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR5	12:02:24	4.1	Bottom	3	1	18.23	8.11	30.67	96.3	7.56	4.4	8.5
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR5	12:02:51	4.1	Bottom	3	2	18.15	8.14	30.50	97.0	7.63	4.1	7.3
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR10A	10:46:49	1.0	Surface	1	1	17.92	8.11	27.90	94.6	7.56	2.8	6.2
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR10A	10:47:23	1.0	Surface	1	2	17.92	8.11	27.88	94.6	7.57	2.8	7.4
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR10A	10:47:10	3.1	Middle	2	1	18.09	8.10	29.69	94.4	7.49	3.0	6.3
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR10A	10:46:37	3.1	Middle	2	2	18.09	8.10	29.72	94.4	7.49	3.0	5.7
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR10A	10:47:00	5.1	Bottom	3	1	18.02	8.10	29.84	94.3	7.47	3.1	6.7
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR10A	10:46:24	5.1	Bottom	3	2	18.05	8.10	29.85	94.3	7.47	3.1	7.4
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR10B	10:40:17	1.0	Surface	1	1	18.00	8.10	28.42	94.6	7.54	2.9	5.6
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR10B	10:39:43	1.0	Surface	1	2	18.02	8.09	28.72	95.8	7.59	3.0	4.1
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR10B	10:39:35	4.1	Bottom	3	1	18.07	8.07	30.46	95.3	7.54	3.1	6.0
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	SR10B	10:40:07	4.1	Bottom	3	2	18.05	8.09	30.23	94.4	7.47	3.1	5.0
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	CS2	13:19:39	1.0	Surface	1	1	18.02	8.16	30.31	96.4	7.61	6.0	8.8
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	CS2	13:19:13	1.0	Surface	1	2	18.06	8.15	30.33	95.8	7.55	6.3	7.9
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	CS2	13:19:30	3.9	Middle	2	1	18.07	8.16	30.39	96.5	7.61	6.6	8.6
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	CS2	13:19:05	3.9	Middle	2	2	18.16	8.14	30.50	95.2	7.48	6.8	7.9
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	CS2	13:18:57	6.8	Bottom	3	1	18.21	8.12	30.55	96.1	7.55	7.1	8.4
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	CS2	13:19:20	6.8	Bottom	3	2	18.06	8.15	30.43	96.6	7.61	6.8	8.3
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	CS(Mf)5	11:14:11	1.0	Surface	1	1	18.00	8.11	27.86	93.9	7.52	2.5	6.4
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	CS(Mf)5	11:14:57	1.0	Surface	1	2	18.04	8.11	27.81	93.6	7.50	2.5	5.9
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	CS(Mf)5	11:14:47	6.5	Middle	2	1	17.99	8.11	29.86	93.6	7.41	2.6	8.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	CS(Mf)5	11:13:59	6.5	Middle	2	2	17.99	8.11	29.86	93.7	7.42	2.5	7.2
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	CS(Mf)5	11:14:35	12.0	Bottom	3	1	17.94	8.11	29.98	93.3	7.39	2.6	7.2
HKLR	HY/2011/03	2017-02-24	Mid-Ebb	Cloudy	CS(Mf)5	11:13:48	12.0	Bottom	3	2	18.00	8.11	29.90	93.7	7.42	2.6	8.1
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS5	15:38:36	1.0	Surface	1	1	18.31	8.11	28.26	93.5	7.43	7.3	10.6
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS5	15:37:57	1.0	Surface	1	2	18.30	8.10	28.25	93.8	7.45	7.3	11.6
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS5	15:38:23	4.6	Middle	2	1	18.35	8.11	28.27	93.4	7.41	7.5	10.5
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS5	15:37:45	4.6	Middle	2	2	18.35	8.10	28.26	93.8	7.45	7.4	11.6
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS5	15:38:14	8.1	Bottom	3	1	18.35	8.10	28.27	93.4	7.41	7.5	12.5
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS5	15:37:37	8.1	Bottom	3	2	18.33	8.10	28.27	93.7	7.44	7.4	13.5
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS(Mf)6	15:53:15	1.0	Surface	1	1	18.29	8.10	27.98	99.0	7.88	8.5	8.8
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS(Mf)6	15:53:06	1.0	Surface	1	2	18.27	8.10	27.93	99.8	7.96	8.4	8.3
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS(Mf)6	15:53:02	2.3	Bottom	3	1	18.23	8.11	27.92	99.3	7.91	8.4	11.3
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS(Mf)6	15:53:10	2.3	Bottom	3	2	18.27	8.10	27.95	98.5	7.84	8.7	11.9
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS7	15:58:59	1.0	Surface	1	1	18.27	8.11	27.98	96.2	7.67	8.5	9.8
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS7	15:59:08	1.0	Surface	1	2	18.25	8.11	27.92	96.1	7.66	8.4	10.4
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS7	15:58:54	2.3	Bottom	3	1	18.26	8.11	27.98	96.2	7.66	8.6	10.6
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS7	15:59:02	2.3	Bottom	3	2	18.24	8.11	27.96	96.0	7.65	8.4	10.4
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS8	16:15:33	1.0	Surface	1	1	18.23	8.12	27.92	95.6	7.62	8.3	8.9
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS8	16:15:40	1.0	Surface	1	2	18.24	8.12	27.98	95.7	7.63	8.3	8.7
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS8	16:15:27	2.3	Bottom	3	1	18.23	8.12	27.97	95.6	7.62	8.5	7.8
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS8	16:15:37	2.3	Bottom	3	2	18.21	8.12	27.97	95.7	7.63	8.4	8.1
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS(Mf)9	16:04:19	1.0	Surface	1	1	18.23	8.12	27.94	96.1	7.67	7.8	11.9
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS(Mf)9	16:04:09	1.0	Surface	1	2	18.23	8.12	27.92	96.1	7.66	7.7	11.5
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS(Mf)9	16:04:14	2.3	Bottom	3	1	18.18	8.12	27.95	96.1	7.66	7.9	12.6
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS(Mf)9	16:04:02	2.3	Bottom	3	2	18.19	8.12	28.02	95.9	7.65	7.7	11.7
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS10	17:00:43	1.0	Surface	1	1	18.00	8.14	30.56	96.5	7.61	3.4	7.9
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS10	17:00:02	1.0	Surface	1	2	18.02	8.12	30.60	96.6	7.61	3.6	8.4
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS10	17:00:25	5.5	Middle	2	1	18.09	8.13	30.80	96.6	7.59	3.8	7.2
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS10	16:59:53	5.5	Middle	2	2	18.08	8.11	30.78	96.9	7.62	3.5	7.7
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS10	16:59:46	9.9	Bottom	3	1	18.09	8.10	30.84	97.0	7.62	3.5	7.2
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	IS10	17:00:17	9.9	Bottom	3	2	18.09	8.12	30.85	96.9	7.61	3.7	7.3
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR3	15:31:25	0.8	Middle	2	1	18.30	8.09	28.05	104.6	8.33	7.7	11.7
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR3	15:31:28	0.8	Middle	2	2	18.30	8.09	28.06	103.8	8.26	7.6	11.2
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR4	16:10:14	1.0	Surface	1	1	18.25	8.12	27.99	95.9	7.64	8.3	10.0
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR4	16:10:24	1.0	Surface	1	2	18.23	8.12	27.93	95.9	7.64	8.3	10.3
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR4	16:10:18	2.3	Bottom	3	1	18.21	8.12	27.98	95.8	7.64	8.4	11.7
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR4	16:10:10	2.3	Bottom	3	2	18.22	8.12	27.99	95.8	7.64	8.3	12.3
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR5	16:51:52	1.0	Surface	1	1	18.00	8.09	30.57	98.4	7.76	4.0	6.8
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR5	16:52:17	1.0	Surface	1	2	18.00	8.12	30.57	97.4	7.68	3.8	6.8
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR5	16:51:35	4.4	Bottom	3	1	18.00	8.06	30.57	99.1	7.82	4.3	8.0
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR5	16:52:06	4.4	Bottom	3	2	18.01	8.10	30.57	97.5	7.69	4.2	9.0
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR10A	17:33:07	1.0	Surface	1	1	17.85	8.14	28.54	96.6	7.71	2.2	7.7
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR10A	17:33:47	1.0	Surface	1	2	17.86	8.14	28.49	96.6	7.70	2.1	6.6
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR10A	17:32:59	3.3	Middle	2	1	17.91	8.13	29.13	96.6	7.69	2.2	8.9
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR10A	17:33:39	3.3	Middle	2	2	17.94	8.13	28.67	96.3	7.70	2.2	7.0
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR10A	17:33:13	5.6	Bottom	3	1	17.84	8.13	29.36	96.2	7.68	2.2	10.5
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR10A	17:32:56	5.6	Bottom	3	2	17.84	8.13	29.38	96.4	7.69	2.3	11.2
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR10B	17:41:08	1.0	Surface	1	1	17.86	8.14	28.61	96.9	7.74	2.2	5.5
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR10B	17:41:20	1.0	Surface	1	2	17.86	8.14	28.60	96.9	7.75	2.1	6.4
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR10B	17:41:01	4.4	Bottom	3	1	17.85	8.13	28.77	96.8	7.74	2.2	5.5
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	SR10B	17:41:14	4.4	Bottom	3	2	17.84	8.13	28.69	96.8	7.74	2.2	5.2
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	CS2	15:39:13	1.0	Surface	1	1	17.90	7.89	30.43	104.5	8.25	6.0	4.3

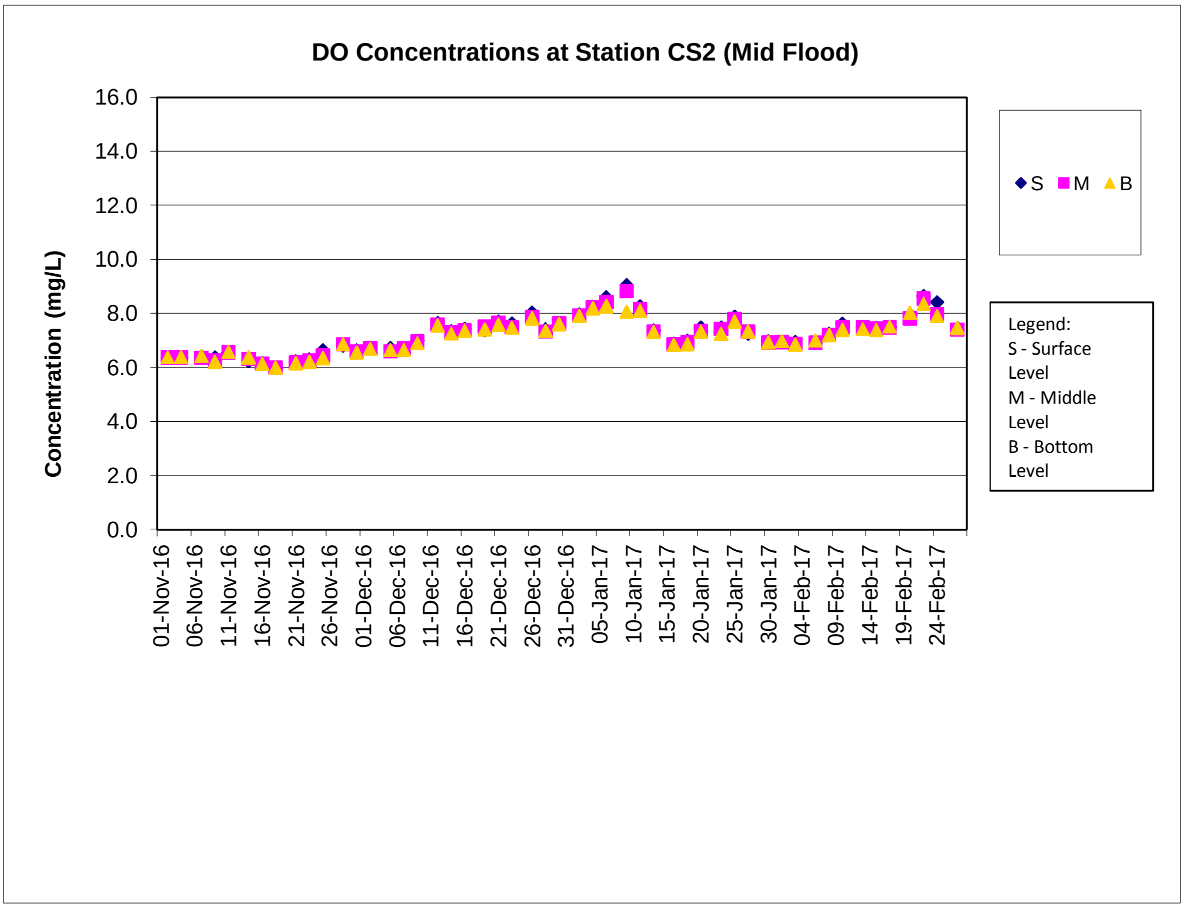
Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	CS2	15:39:36	1.0	Surface	1	2	17.91	7.99	30.44	108.7	8.59	6.3	4.6
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	CS2	15:39:03	3.8	Middle	2	1	17.91	7.83	30.50	99.6	7.87	6.7	7.5
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	CS2	15:39:29	3.8	Middle	2	2	17.91	7.97	30.50	102.3	8.09	6.5	8.1
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	CS2	15:38:50	6.6	Bottom	3	1	17.88	7.74	30.55	99.9	7.89	6.6	8.4
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	CS2	15:39:22	6.6	Bottom	3	2	17.90	7.94	30.51	100.3	7.93	6.3	8.2
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	CS(Mf)5	17:00:24	1.0	Surface	1	1	17.84	8.14	28.41	95.3	7.63	2.3	4.5
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	CS(Mf)5	16:59:21	1.0	Surface	1	2	17.83	8.13	28.40	96.1	7.68	2.3	5.8
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	CS(Mf)5	17:00:06	6.6	Middle	2	1	17.90	8.13	29.57	94.8	7.51	2.4	6.7
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	CS(Mf)5	16:59:05	6.6	Middle	2	2	17.90	8.13	29.74	95.8	7.61	2.3	5.2
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	CS(Mf)5	16:58:56	12.1	Bottom	3	1	17.90	8.12	30.08	95.5	7.58	2.5	8.4
HKLR	HY/2011/03	2017-02-24	Mid-Flood	Cloudy	CS(Mf)5	16:59:47	12.1	Bottom	3	2	17.90	8.13	30.14	94.4	7.50	2.6	7.4
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS5	12:32:46	1.0	Surface	1	1	17.16	8.12	28.22	92.9	7.55	5.5	8.0
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS5	12:30:54	1.0	Surface	1	2	17.14	8.13	27.81	93.2	7.59	5.6	9.1
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS5	12:30:42	4.5	Middle	2	1	17.12	8.13	27.79	93.0	7.59	5.6	10.1
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS5	12:32:29	4.5	Middle	2	2	17.14	8.12	28.21	92.7	7.54	5.6	11.4
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS5	12:32:16	8.0	Bottom	3	1	17.10	8.12	28.20	92.5	7.53	5.7	12.8
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS5	12:30:31	8.0	Bottom	3	2	17.11	8.13	27.73	92.9	7.58	5.8	11.1
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS(Mf)6	12:38:28	1.0	Surface	1	1	17.20	8.10	28.37	100.0	8.11	5.6	9.9
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS(Mf)6	12:38:35	1.0	Surface	1	2	17.19	8.10	28.41	98.6	8.00	5.6	11.1
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS(Mf)6	12:38:22	2.2	Bottom	3	1	17.19	8.11	28.34	99.2	8.05	5.6	10.5
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS(Mf)6	12:38:32	2.2	Bottom	3	2	17.20	8.10	28.39	98.0	7.95	5.6	9.9
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS7	12:43:45	1.0	Surface	1	1	17.16	8.11	28.60	93.9	7.61	5.6	10.4
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS7	12:43:35	1.0	Surface	1	2	17.16	8.11	28.59	94.2	7.64	5.8	9.6
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS7	12:43:39	2.5	Bottom	3	1	17.17	8.11	28.59	93.8	7.61	5.7	11.1
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS7	12:43:31	2.5	Bottom	3	2	17.16	8.11	28.58	94.0	7.62	5.8	11.9
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS8	13:08:47	1.0	Surface	1	1	17.41	8.12	28.63	95.4	7.70	5.5	8.7
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS8	13:08:39	1.0	Surface	1	2	17.39	8.13	28.68	95.5	7.70	5.7	7.0
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS8	13:08:35	2.4	Bottom	3	1	17.42	8.12	28.62	95.4	7.69	5.7	10.6
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS8	13:08:43	2.4	Bottom	3	2	17.41	8.12	28.63	95.4	7.70	5.6	11.6
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS(Mf)9	12:49:11	1.0	Surface	1	1	17.13	8.11	28.67	93.0	7.54	5.5	8.4
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS(Mf)9	12:49:19	1.0	Surface	1	2	17.15	8.11	28.67	93.0	7.54	5.6	9.6
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS(Mf)9	12:49:07	2.4	Bottom	3	1	17.14	8.11	28.66	93.0	7.54	5.5	9.4
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS(Mf)9	12:49:15	2.4	Bottom	3	2	17.14	8.11	28.67	92.9	7.53	5.6	10.7
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS10	13:30:45	1.0	Surface	1	1	17.15	8.26	32.98	94.9	7.50	4.8	6.7
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS10	13:31:24	1.0	Surface	1	2	17.10	8.27	33.00	94.4	7.46	4.8	7.5
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS10	13:30:23	5.4	Middle	2	1	17.10	8.25	32.99	94.4	7.46	5.2	9.6
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS10	13:31:07	5.4	Middle	2	2	17.07	8.27	33.00	94.9	7.51	5.2	9.4
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS10	13:30:56	9.8	Bottom	3	1	17.09	8.26	32.99	94.2	7.45	5.2	9.0
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	IS10	13:30:15	9.8	Bottom	3	2	17.10	8.25	32.99	94.8	7.50	5.4	10.6
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR3	12:23:07	0.8	Middle	2	1	17.22	8.19	26.57	94.2	7.72	5.4	12.6
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR3	12:23:09	0.8	Middle	2	2	17.21	8.19	26.61	94.3	7.73	5.5	11.3
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR4	13:02:45	1.0	Surface	1	1	17.36	8.13	28.54	97.1	7.85	5.6	9.5
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR4	13:02:34	1.0	Surface	1	2	17.31	8.13	28.62	97.7	7.89	5.5	8.4
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR4	13:02:38	2.4	Bottom	3	1	17.36	8.13	28.59	96.9	7.83	5.6	11.6
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR4	13:02:29	2.4	Bottom	3	2	17.33	8.13	28.59	97.4	7.87	5.5	13.1
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR5	13:22:40	1.0	Surface	1	1	17.14	8.28	32.98	95.1	7.51	5.1	9.4
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR5	13:22:21	1.0	Surface	1	2	17.14	8.27	32.98	96.1	7.59	4.9	9.9
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR5	13:22:30	4.2	Bottom	3	1	17.09	8.28	32.98	95.7	7.57	5.0	8.8
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR5	13:22:12	4.2	Bottom	3	2	17.11	8.27	32.98	95.7	7.56	4.8	8.3
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR10A	14:12:23	1.0	Surface	1	1	17.35	8.16	29.86	94.4	7.56	2.5	7.8
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR10A	14:13:06	1.0	Surface	1	2	17.32	8.16	29.92	94.2	7.55	2.6	7.6
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR10A	14:12:13	3.1	Middle	2	1	17.31	8.16	29.98	94.1	7.55	2.5	6.9

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR10A	14:12:49	3.1	Middle	2	2	17.31	8.16	30.00	94.1	7.54	2.7	7.7
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR10A	14:12:43	5.2	Bottom	3	1	17.32	8.16	30.02	94.0	7.54	2.7	7.0
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR10A	14:12:06	5.2	Bottom	3	2	17.32	8.16	30.02	94.1	7.54	2.5	8.4
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR10B	14:21:04	1.0	Surface	1	1	17.37	8.16	29.85	95.0	7.61	2.4	5.8
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR10B	14:20:23	1.0	Surface	1	2	17.34	8.16	29.92	94.4	7.57	2.5	6.5
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR10B	14:20:17	4.2	Bottom	3	1	17.36	8.16	29.91	94.4	7.57	2.5	8.3
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	SR10B	14:20:41	4.2	Bottom	3	2	17.33	8.16	30.02	94.3	7.56	2.5	8.3
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	CS2	12:08:40	1.0	Surface	1	1	17.05	8.16	32.94	94.3	7.46	5.7	10.6
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	CS2	12:09:27	1.0	Surface	1	2	17.06	8.17	32.94	95.8	7.58	5.6	9.9
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	CS2	12:09:14	3.9	Middle	2	1	17.06	8.17	32.94	95.3	7.54	5.3	10.6
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	CS2	12:08:29	3.9	Middle	2	2	17.03	8.15	32.94	95.3	7.55	5.8	11.8
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	CS2	12:08:57	6.8	Bottom	3	1	17.06	8.16	32.94	95.2	7.54	5.6	12.9
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	CS2	12:08:16	6.8	Bottom	3	2	17.03	8.13	32.94	97.3	7.70	5.4	14.2
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	CS(Mf)5	13:44:25	1.0	Surface	1	1	17.36	8.16	29.81	94.3	7.56	2.5	8.0
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	CS(Mf)5	13:42:57	1.0	Surface	1	2	17.34	8.16	29.78	94.6	7.58	2.6	7.5
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	CS(Mf)5	13:42:42	6.5	Middle	2	1	17.31	8.16	29.97	94.5	7.58	2.8	7.7
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	CS(Mf)5	13:44:03	6.5	Middle	2	2	17.31	8.16	30.01	93.8	7.51	2.6	7.0
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	CS(Mf)5	13:43:24	12.0	Bottom	3	1	17.31	8.16	30.08	93.7	7.51	2.7	8.3
HKLR	HY/2011/03	2017-02-27	Mid-Ebb	Fine	CS(Mf)5	13:42:31	12.0	Bottom	3	2	17.32	8.16	29.97	94.3	7.56	2.8	8.3
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS5	08:58:56	1.0	Surface	1	1	17.05	8.11	28.88	92.9	7.53	5.1	6.0
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS5	08:58:23	1.0	Surface	1	2	17.05	8.11	28.85	93.7	7.60	5.2	5.3
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS5	08:58:47	4.6	Middle	2	1	17.05	8.11	28.87	92.8	7.53	5.3	8.2
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS5	08:58:15	4.6	Middle	2	2	17.05	8.11	28.85	93.4	7.58	5.5	9.6
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS5	08:58:07	8.1	Bottom	3	1	17.05	8.11	28.84	93.3	7.57	5.6	8.9
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS5	08:58:38	8.1	Bottom	3	2	17.04	8.11	28.87	92.7	7.52	5.5	9.8
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS(Mf)6	08:49:29	1.0	Surface	1	1	17.03	8.12	28.82	94.1	7.64	5.3	9.3
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS(Mf)6	08:49:36	1.0	Surface	1	2	17.03	8.12	28.82	94.2	7.64	5.4	10.2
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS(Mf)6	08:49:32	2.4	Bottom	3	1	17.02	8.12	28.82	94.2	7.64	5.4	9.0
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS(Mf)6	08:49:25	2.4	Bottom	3	2	17.03	8.12	28.82	94.1	7.64	5.3	10.9
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS7	08:43:43	1.0	Surface	1	1	17.02	8.12	28.79	94.6	7.68	5.3	12.1
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS7	08:43:53	1.0	Surface	1	2	17.02	8.12	28.80	94.5	7.67	5.5	10.8
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS7	08:43:48	2.4	Bottom	3	1	17.02	8.12	28.80	94.5	7.67	5.5	11.8
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS7	08:43:37	2.4	Bottom	3	2	17.02	8.12	28.79	94.6	7.68	5.5	10.3
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS8	08:19:39	1.0	Surface	1	1	17.09	8.14	29.36	98.7	7.98	9.9	17.9
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS8	08:19:47	1.0	Surface	1	2	17.09	8.14	29.38	97.8	7.90	9.8	16.4
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS8	08:19:35	2.4	Bottom	3	1	17.09	8.14	29.35	98.3	7.94	9.9	22.5
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS8	08:19:43	2.4	Bottom	3	2	17.09	8.14	29.37	97.4	7.87	9.9	23.4
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS(Mf)9	08:38:48	1.0	Surface	1	1	17.02	8.12	28.71	96.6	7.85	5.6	6.9
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS(Mf)9	08:38:59	1.0	Surface	1	2	17.01	8.12	28.73	96.1	7.81	5.7	7.7
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS(Mf)9	08:38:52	2.5	Bottom	3	1	17.02	8.12	28.72	95.8	7.78	5.7	10.0
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS(Mf)9	08:38:43	2.5	Bottom	3	2	17.02	8.12	28.70	96.3	7.83	5.6	11.7
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS10	07:55:47	1.0	Surface	1	1	17.03	8.20	32.93	94.3	7.46	8.4	12.6
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS10	07:56:16	1.0	Surface	1	2	17.03	8.20	32.92	94.4	7.47	8.3	12.7
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS10	07:56:06	5.4	Middle	2	1	17.01	8.20	32.94	93.6	7.41	8.3	11.5
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS10	07:55:37	5.4	Middle	2	2	17.00	8.20	32.95	94.4	7.48	8.8	12.5
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS10	07:55:59	9.7	Bottom	3	1	16.99	8.20	32.95	93.3	7.39	8.6	15.2
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	IS10	07:55:31	9.7	Bottom	3	2	17.00	8.20	32.95	93.4	7.40	8.7	14.2
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR3	09:06:43	0.8	Middle	2	1	17.06	8.11	28.91	92.7	7.52	4.8	10.7
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR3	09:06:46	0.8	Middle	2	2	17.06	8.11	28.91	92.7	7.52	4.7	9.3
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR4	08:25:59	1.0	Surface	1	1	17.09	8.14	29.44	95.2	7.69	9.7	15.8
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR4	08:26:08	1.0	Surface	1	2	17.09	8.14	29.44	95.0	7.68	9.7	14.2
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR4	08:26:03	2.5	Bottom	3	1	17.09	8.14	29.44	94.9	7.67	9.8	15.6

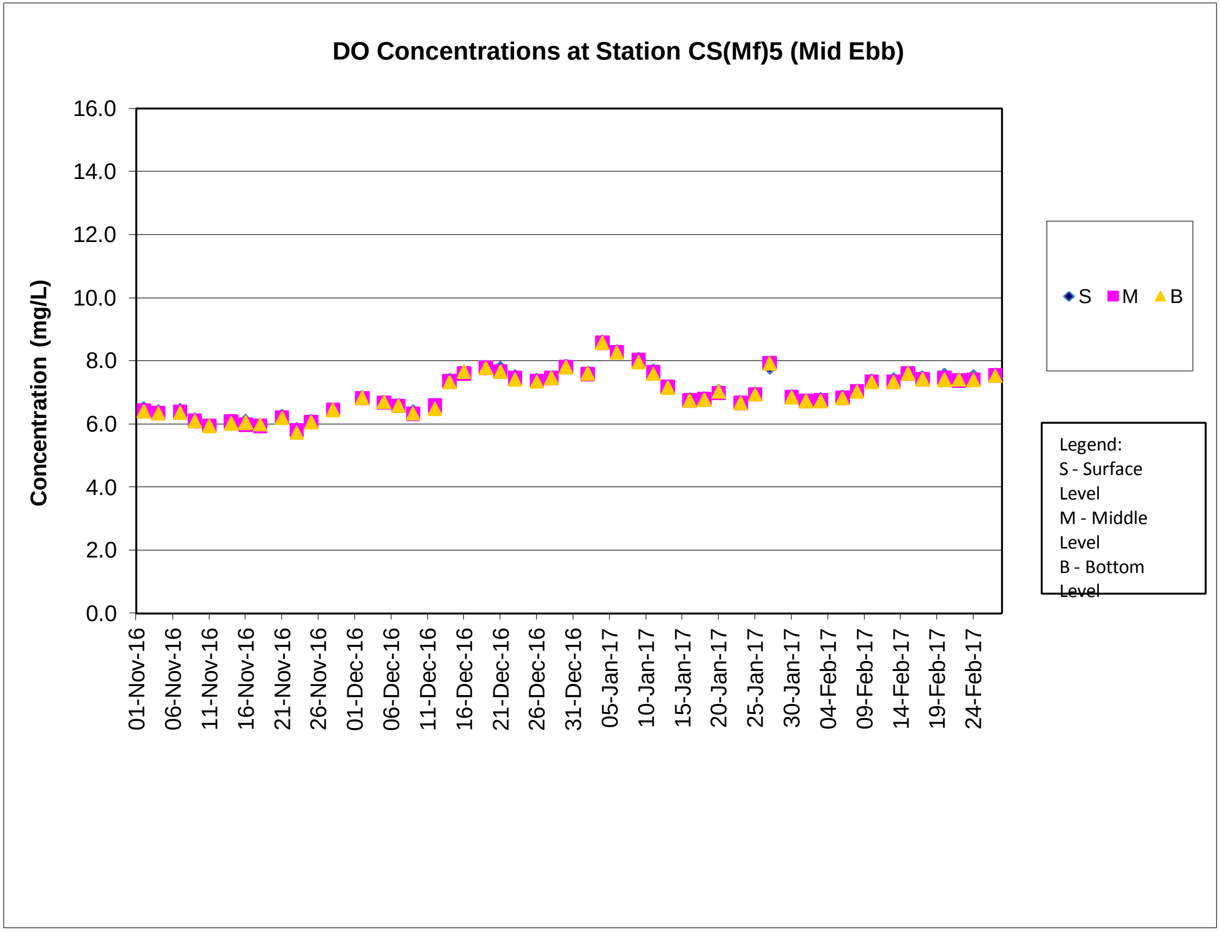
Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR4	08:25:55	2.5	Bottom	3	2	17.09	8.14	29.44	95.1	7.68	9.8	16.7
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR5	08:04:28	1.0	Surface	1	1	17.04	8.17	32.91	93.0	7.36	8.4	12.5
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR5	08:04:09	1.0	Surface	1	2	17.04	8.16	32.92	93.8	7.43	8.0	11.4
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR5	08:04:22	4.1	Bottom	3	1	17.04	8.17	32.92	93.7	7.42	8.6	14.9
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR5	08:03:58	4.1	Bottom	3	2	17.03	8.15	32.92	93.9	7.43	8.4	15.9
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR10A	07:22:21	1.0	Surface	1	1	17.25	8.12	29.51	93.1	7.49	5.5	9.4
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR10A	07:21:53	1.0	Surface	1	2	17.26	8.12	29.49	93.1	7.49	5.6	10.7
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR10A	07:21:44	3	Middle	2	1	17.26	8.12	29.48	93.1	7.49	5.6	10.8
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR10A	07:22:08	3	Middle	2	2	17.26	8.12	29.49	93.0	7.49	5.7	10.5
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR10A	07:21:31	5	Bottom	3	1	17.26	8.12	29.47	93.1	7.49	5.8	11.6
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR10A	07:22:03	5	Bottom	3	2	17.26	8.12	29.49	93.0	7.48	5.7	10.2
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR10B	07:15:38	1.0	Surface	1	1	17.25	8.12	29.42	95.0	7.65	5.4	9.5
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR10B	07:16:02	1.0	Surface	1	2	17.25	8.12	29.44	94.2	7.58	5.5	10.2
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR10B	07:15:29	4.2	Bottom	3	1	17.26	8.12	29.41	94.7	7.63	5.4	12.0
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	SR10B	07:15:51	4.2	Bottom	3	2	17.26	8.12	29.43	94.1	7.57	5.6	12.4
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	CS2	09:17:32	1.0	Surface	1	1	16.96	8.19	33.08	93.6	7.42	8.3	8.1
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	CS2	09:17:03	1.0	Surface	1	2	16.97	8.17	33.08	94.9	7.52	8.2	8.8
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	CS2	09:17:23	3.9	Middle	2	1	16.95	8.18	33.09	93.1	7.37	8.6	12.4
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	CS2	09:16:53	3.9	Middle	2	2	16.96	8.16	33.08	94.1	7.45	8.4	12.3
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	CS2	09:16:43	6.7	Bottom	3	1	16.96	8.15	33.09	94.9	7.52	9.3	11.7
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	CS2	09:17:14	6.7	Bottom	3	2	16.95	8.18	33.09	93.7	7.43	9.0	11.7
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	CS(Mf)5	07:47:50	1.0	Surface	1	1	17.25	8.13	29.59	92.9	7.47	5.6	12.2
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	CS(Mf)5	07:48:38	1.0	Surface	1	2	17.25	8.13	29.62	93.1	7.49	5.6	11.7
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	CS(Mf)5	07:48:14	6.6	Middle	2	1	17.25	8.13	29.60	92.5	7.44	5.7	13.8
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	CS(Mf)5	07:47:35	6.6	Middle	2	2	17.25	8.13	29.59	92.5	7.44	5.6	12.3
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	CS(Mf)5	07:48:04	12.1	Bottom	3	1	17.25	8.13	29.60	92.4	7.44	5.8	17.3
HKLR	HY/2011/03	2017-02-27	Mid-Flood	Fine	CS(Mf)5	07:47:25	12.1	Bottom	3	2	17.25	8.13	29.58	92.4	7.44	5.7	16.8



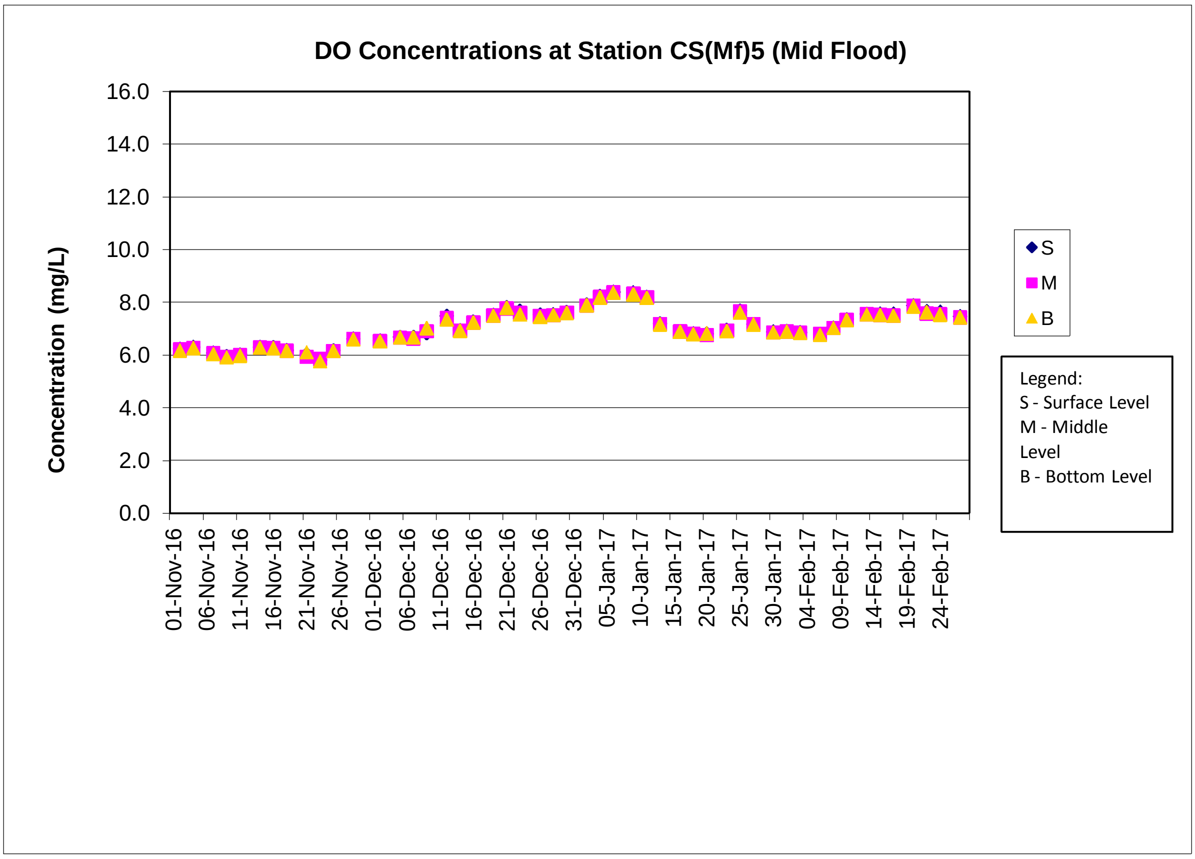
DO Concentrations at Station CS2 (Mid Ebb)



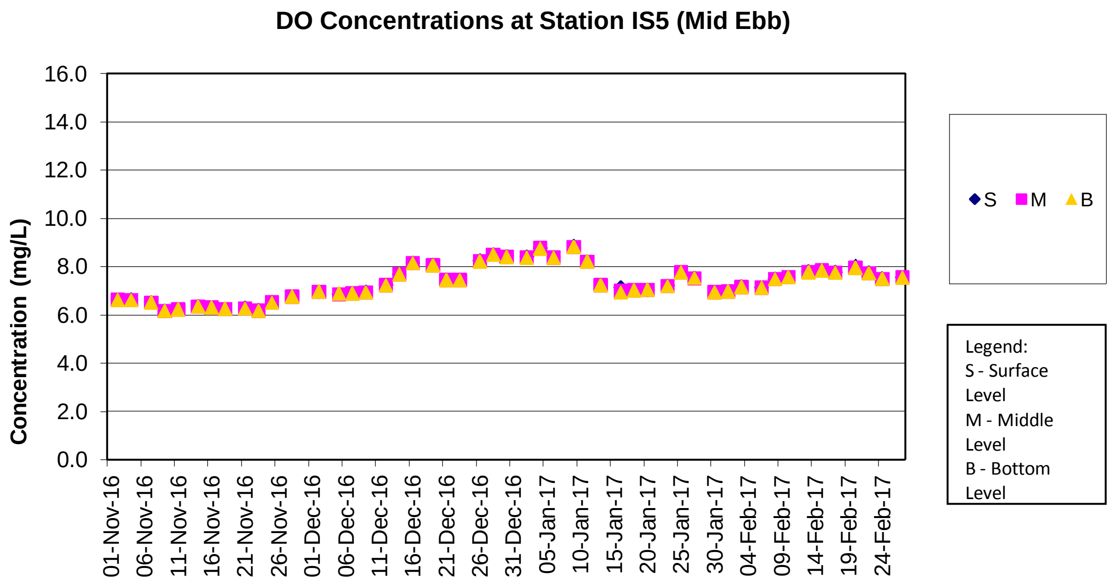
DO Concentrations at Station CS2 (Mid Flood)

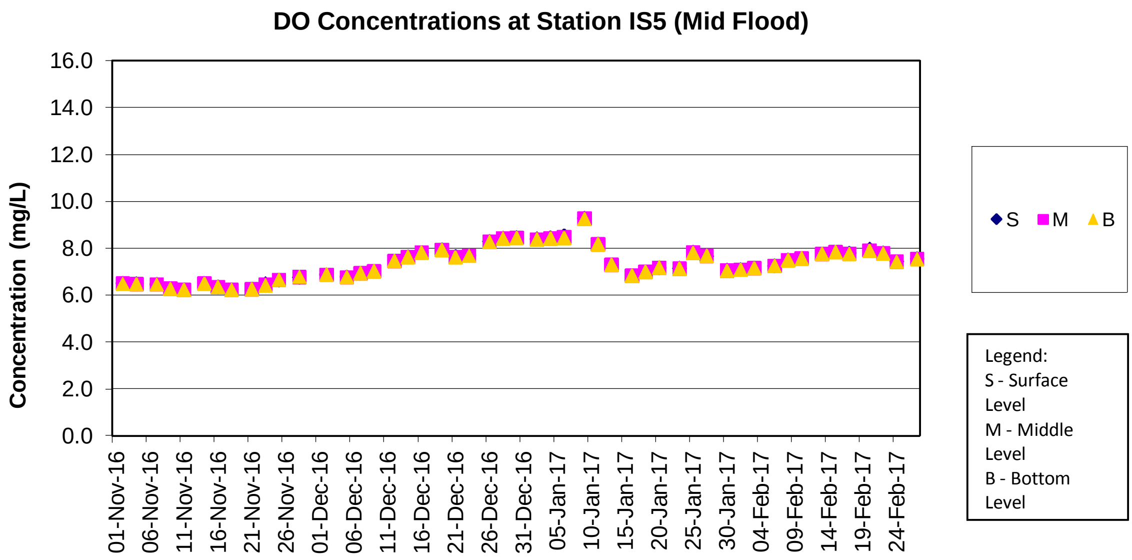


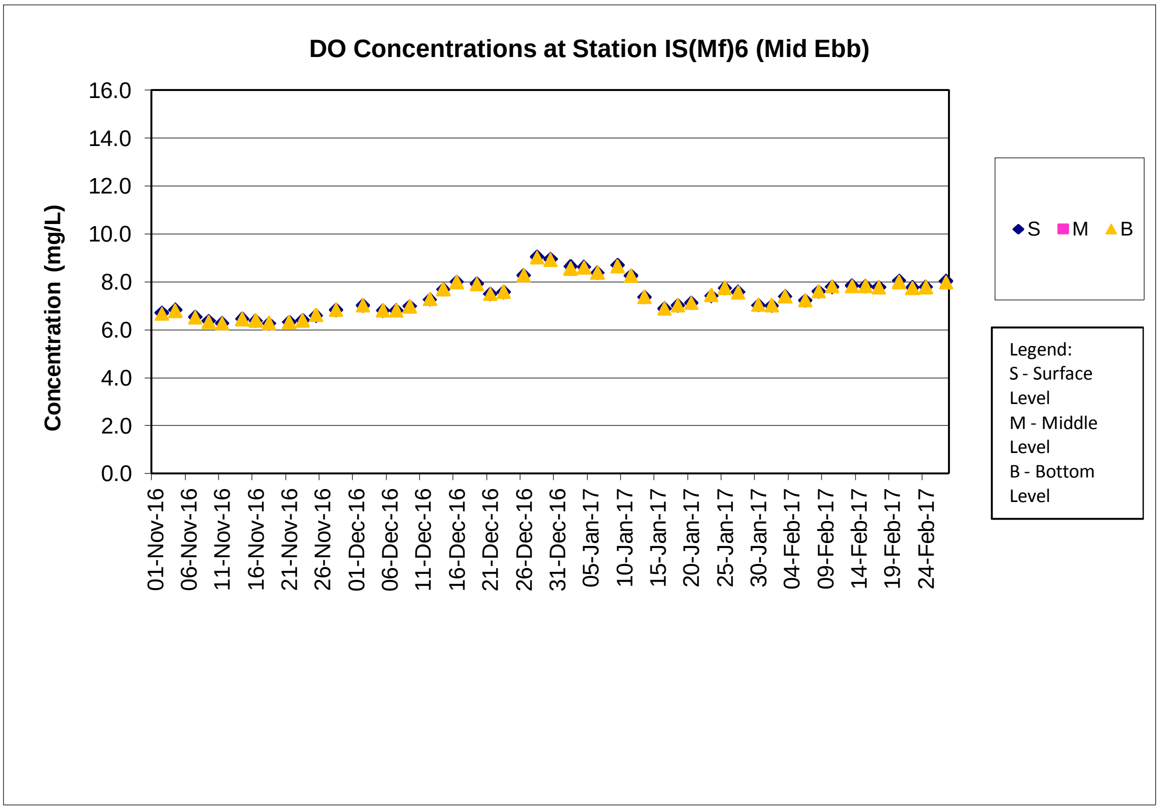
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level



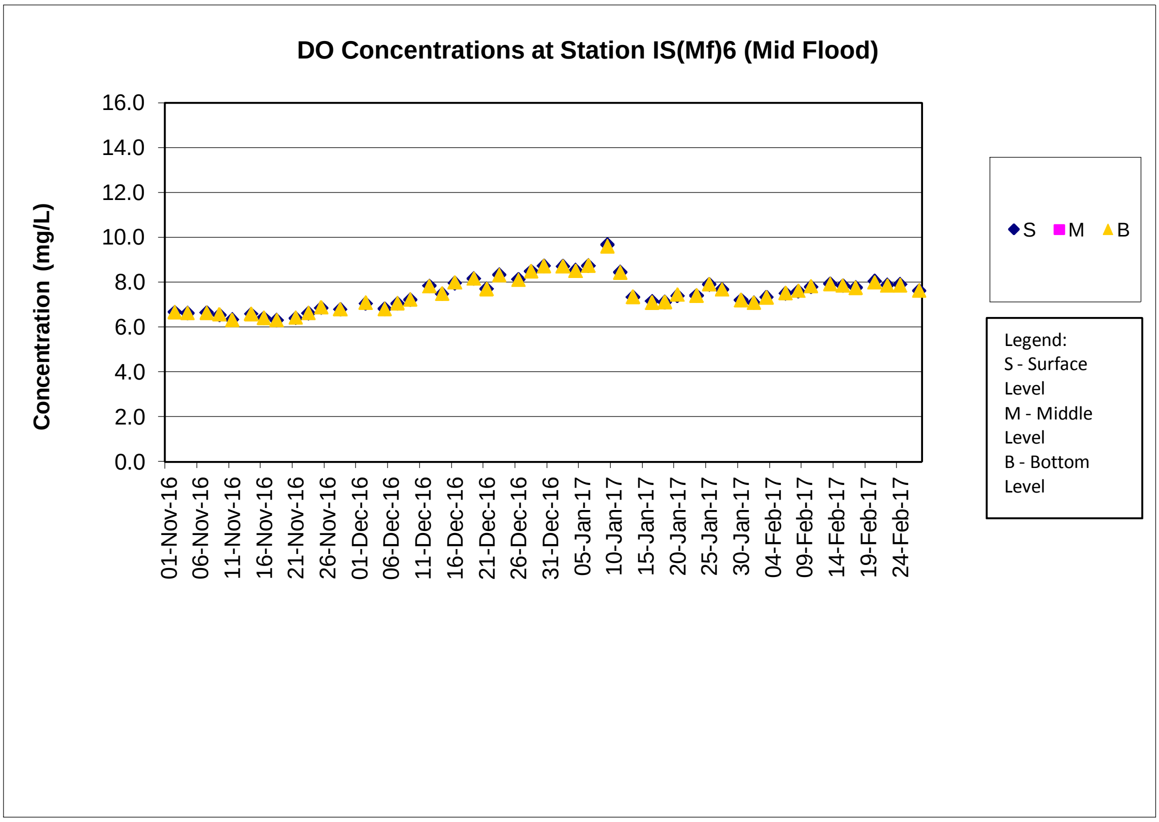
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level


DO Concentrations at Station IS5 (Mid Ebb)
Concentration (mg/L)
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

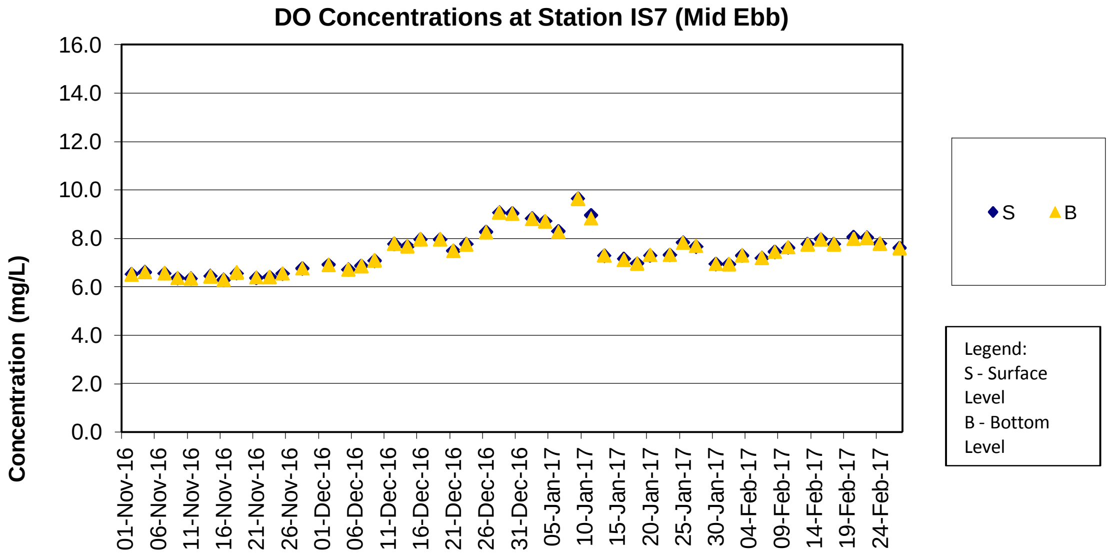

DO Concentrations at Station IS5 (Mid Flood)
Concentration (mg/L)
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level


DO Concentrations at Station IS(Mf)6 (Mid Ebb)

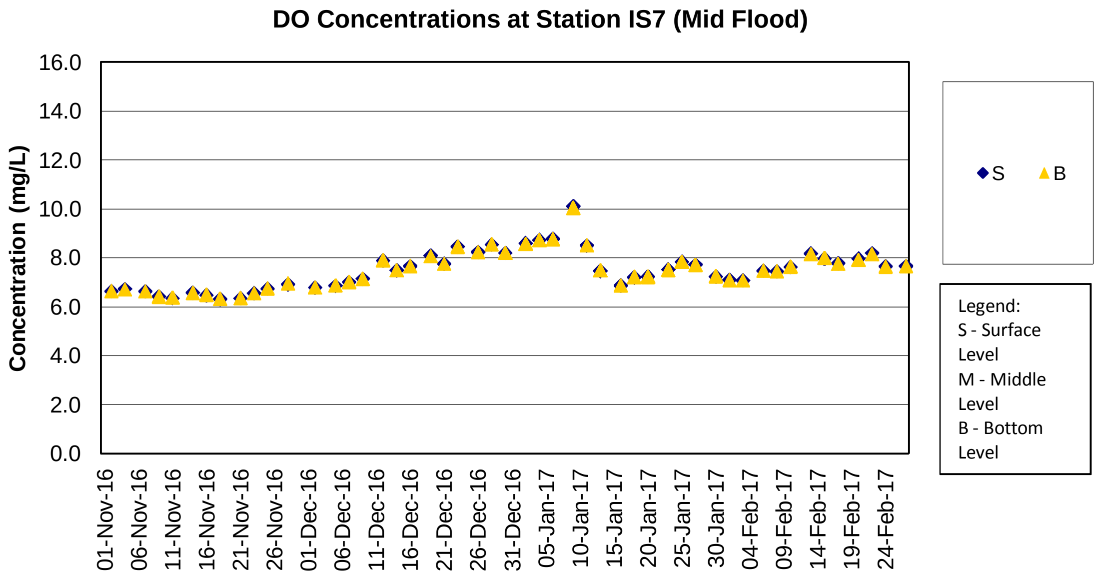
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level


DO Concentrations at Station IS(Mf)6 (Mid Flood)

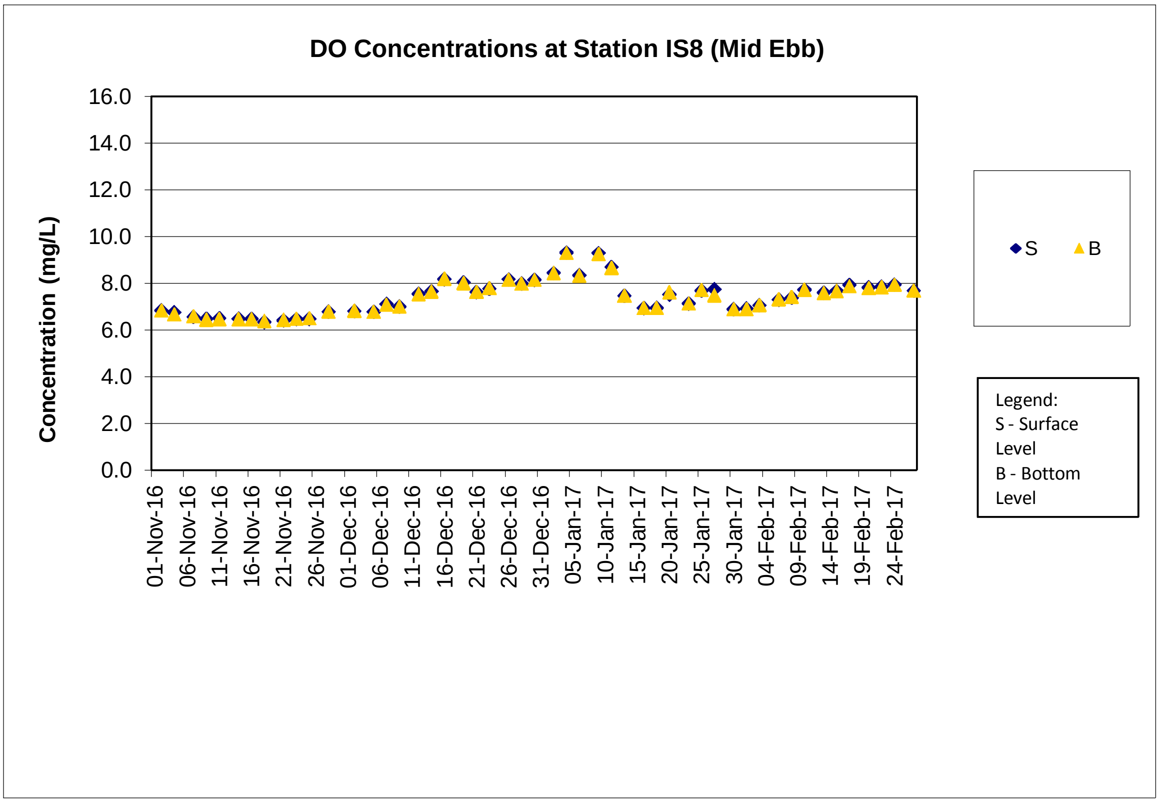
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

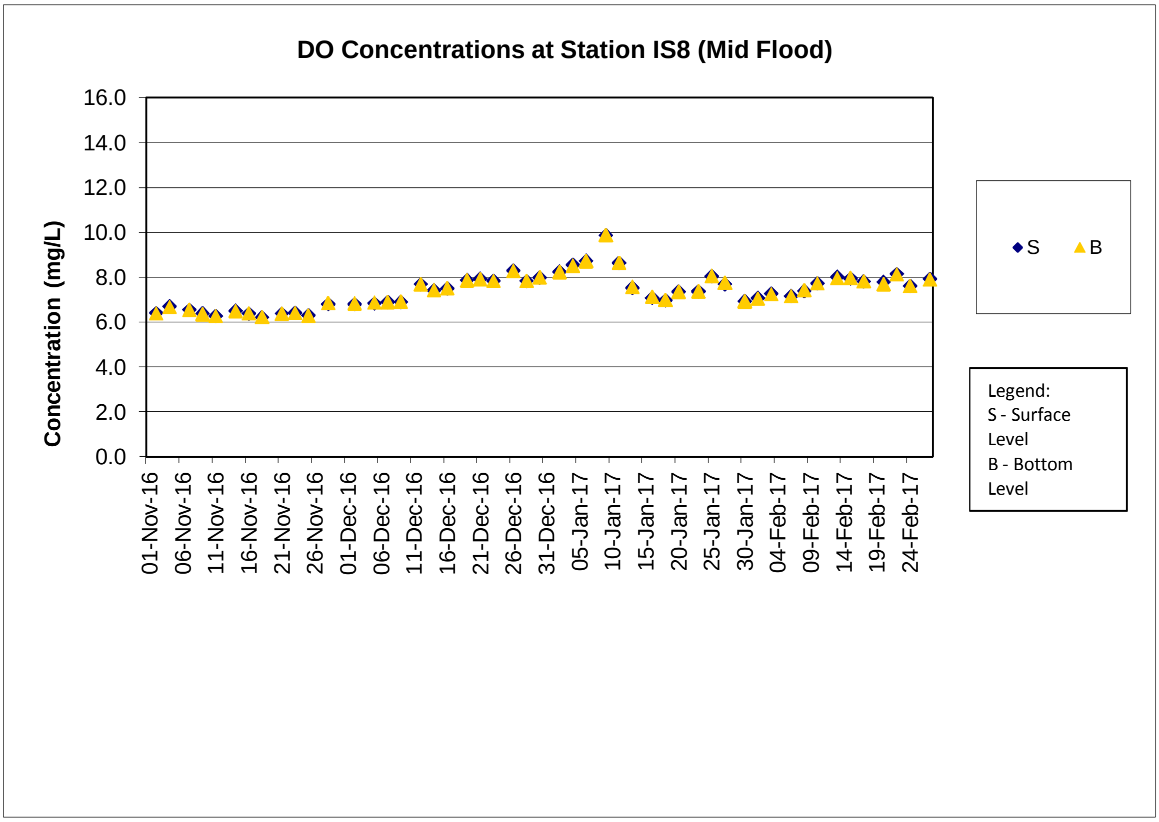


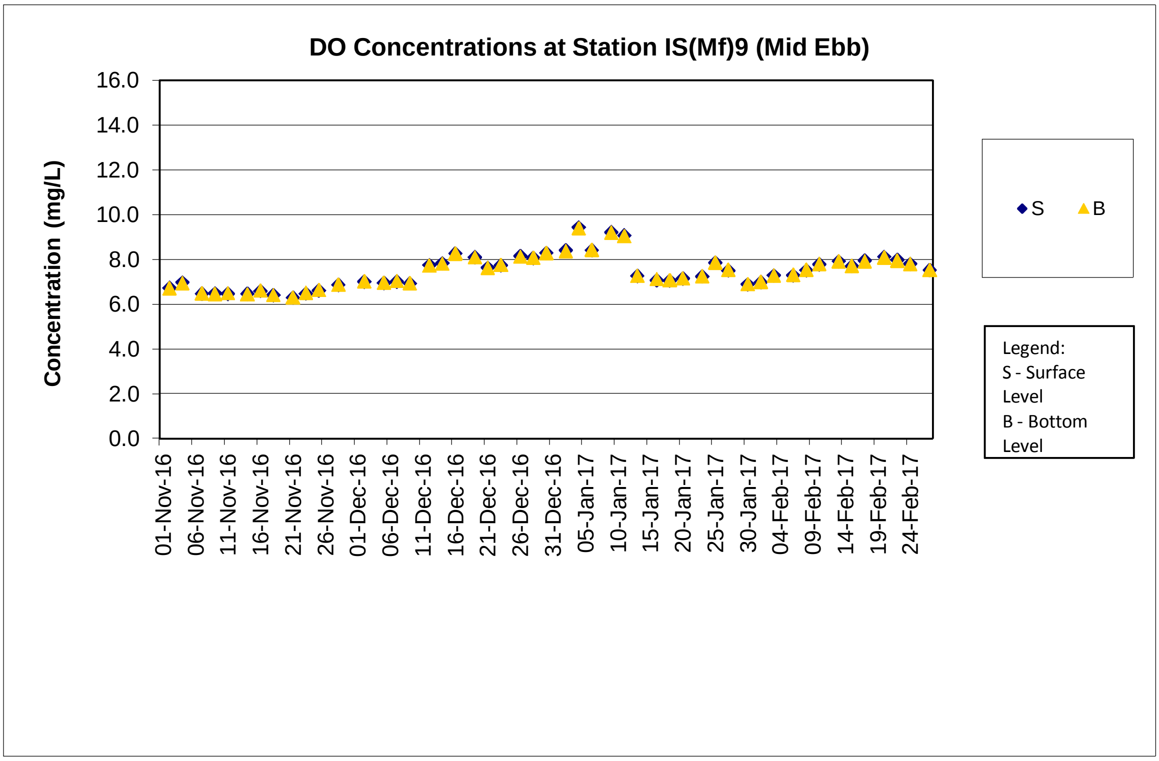
Legend:
S - Surface Level
B - Bottom Level

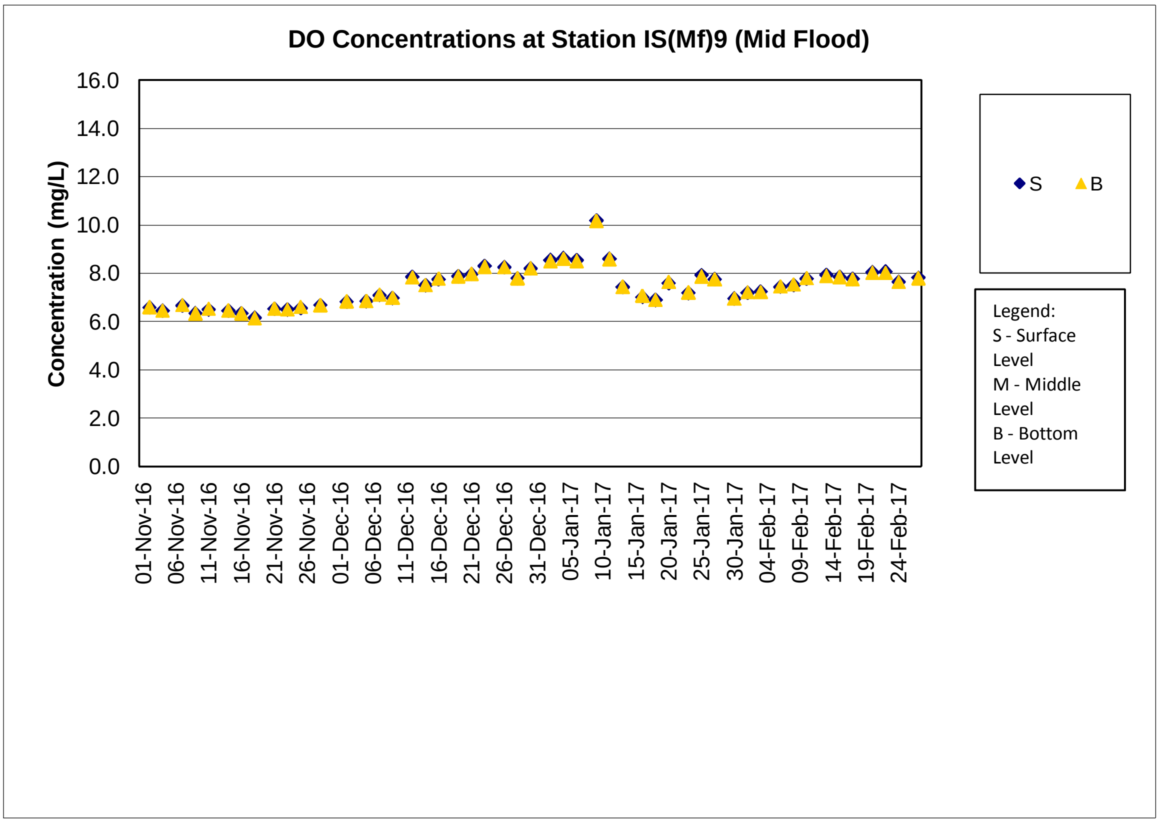


Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

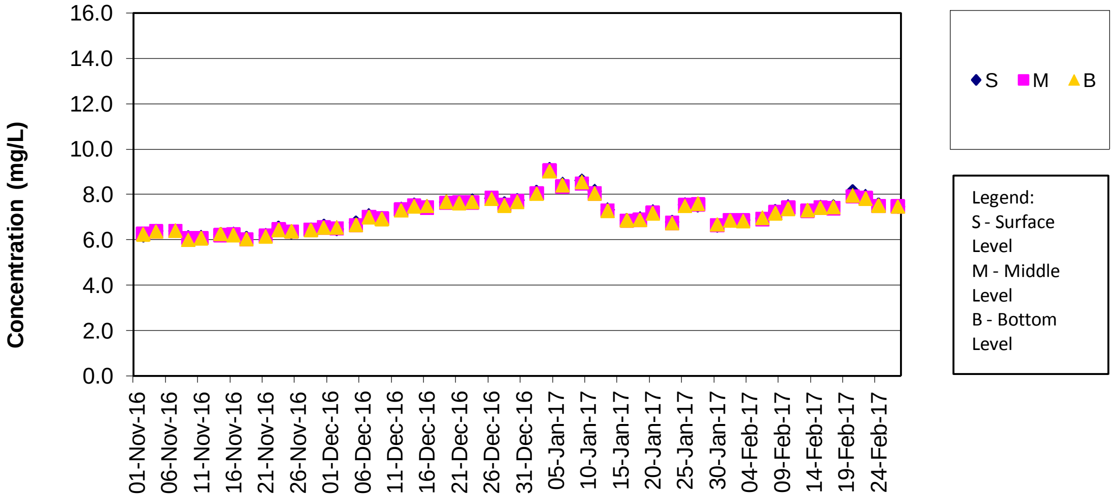

DO Concentrations at Station IS8 (Mid Ebb)
Concentration (mg/L)
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ▲B
Legend:
S - Surface Level
B - Bottom Level


DO Concentrations at Station IS8 (Mid Flood)
Concentration (mg/L)
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ▲B
Legend:
S - Surface Level
B - Bottom Level


DO Concentrations at Station IS(Mf)9 (Mid Ebb)
Concentration (mg/L)
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆ S
▲ B
Legend:
S - Surface Level
B - Bottom Level

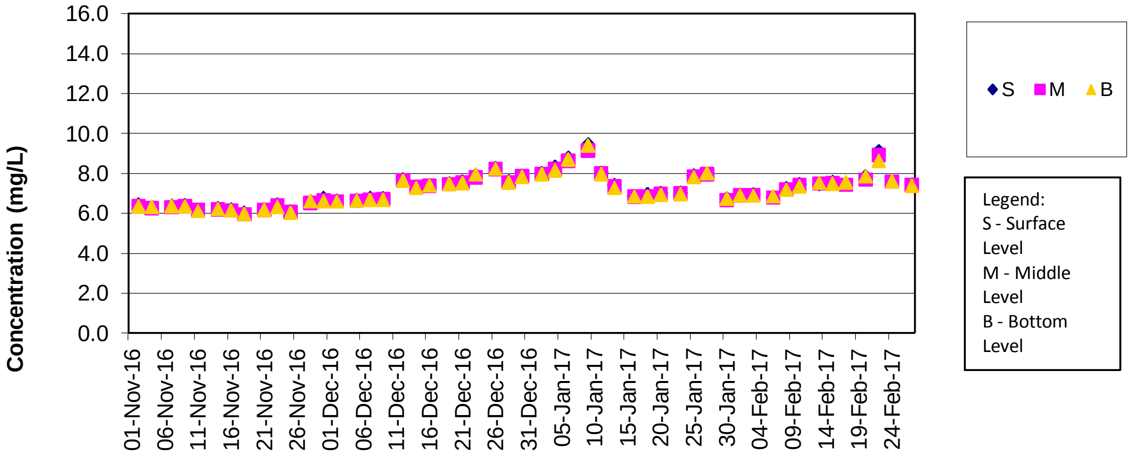

DO Concentrations at Station IS(Mf)9 (Mid Flood)
Concentration (mg/L)
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆ S
▲ B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

DO Concentrations at StationIS10 / IS10(N) (Mid Ebb)



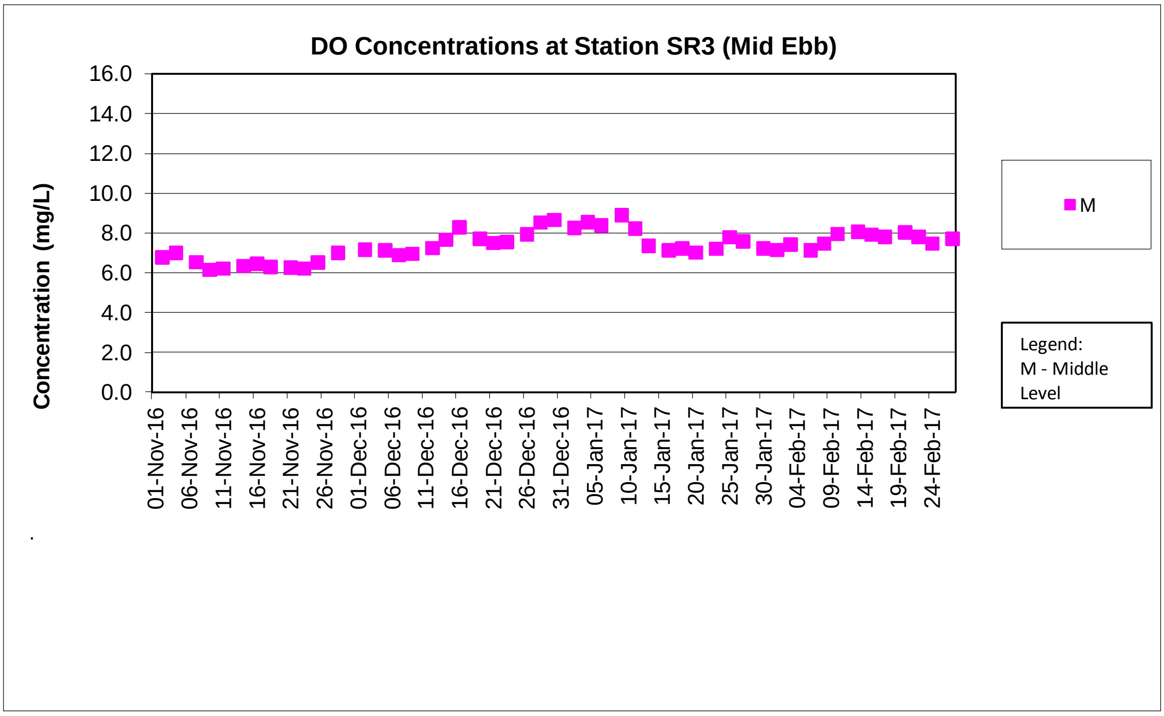
1) The previously granted Vessel's Entry Permit for accessing station IS10 (Coordinate: 812577E, 820670N) were expired on 31 December 2016. During the permit renewing process, the water quality monitoring location was shifted to IS10(N) (Coordinate: 813060E, 820540N) on 2, 4 and 6 Jan 2017 temporarily. The permit has been granted by Marine Department on 6 Jan 2017. Thus, the impact water quality monitoring works at original monitoring location of IS10 has been resumed since 9 Jan 2017.

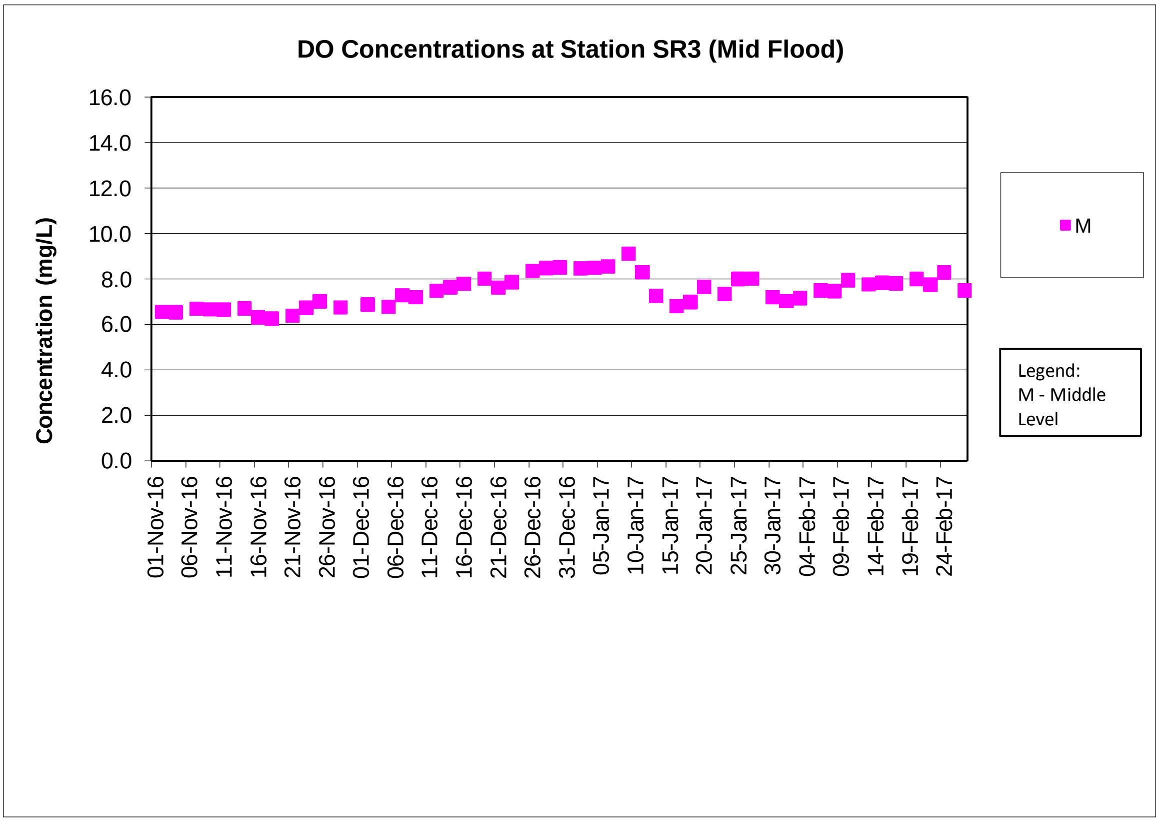
DO Concentrations at Station IS10 / IS10(N) (Mid Flood)

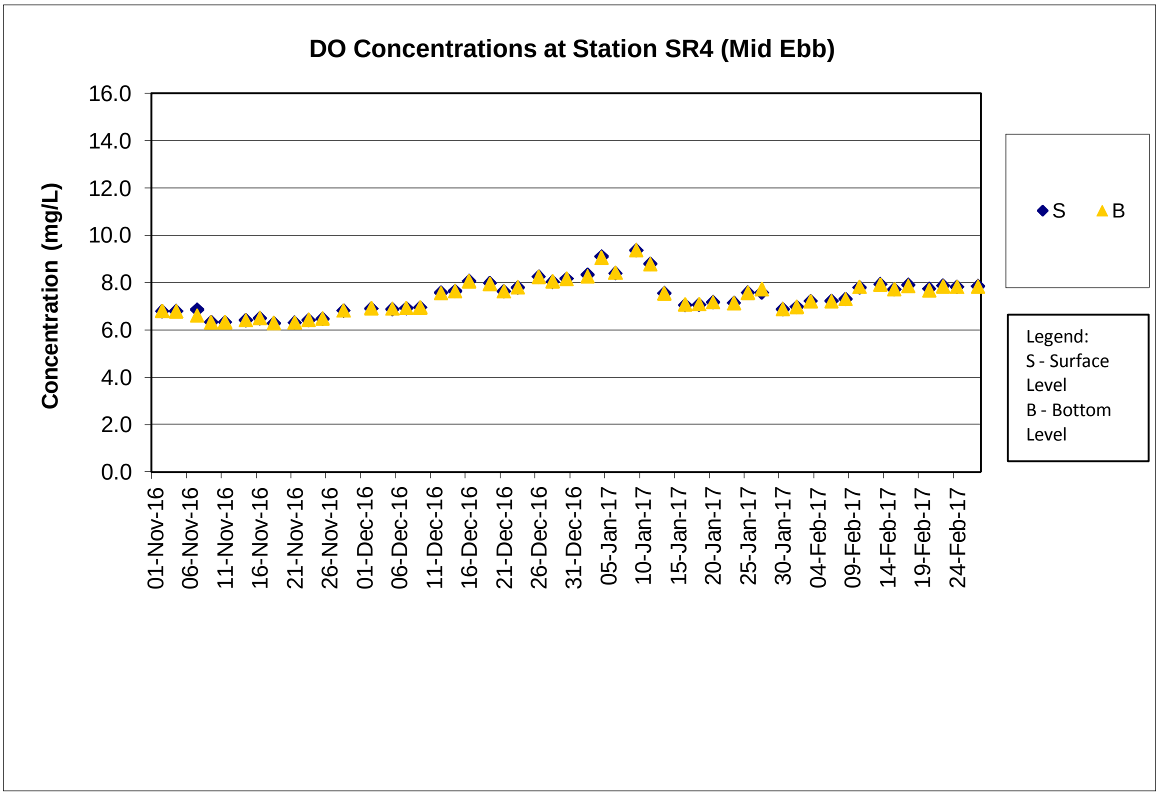


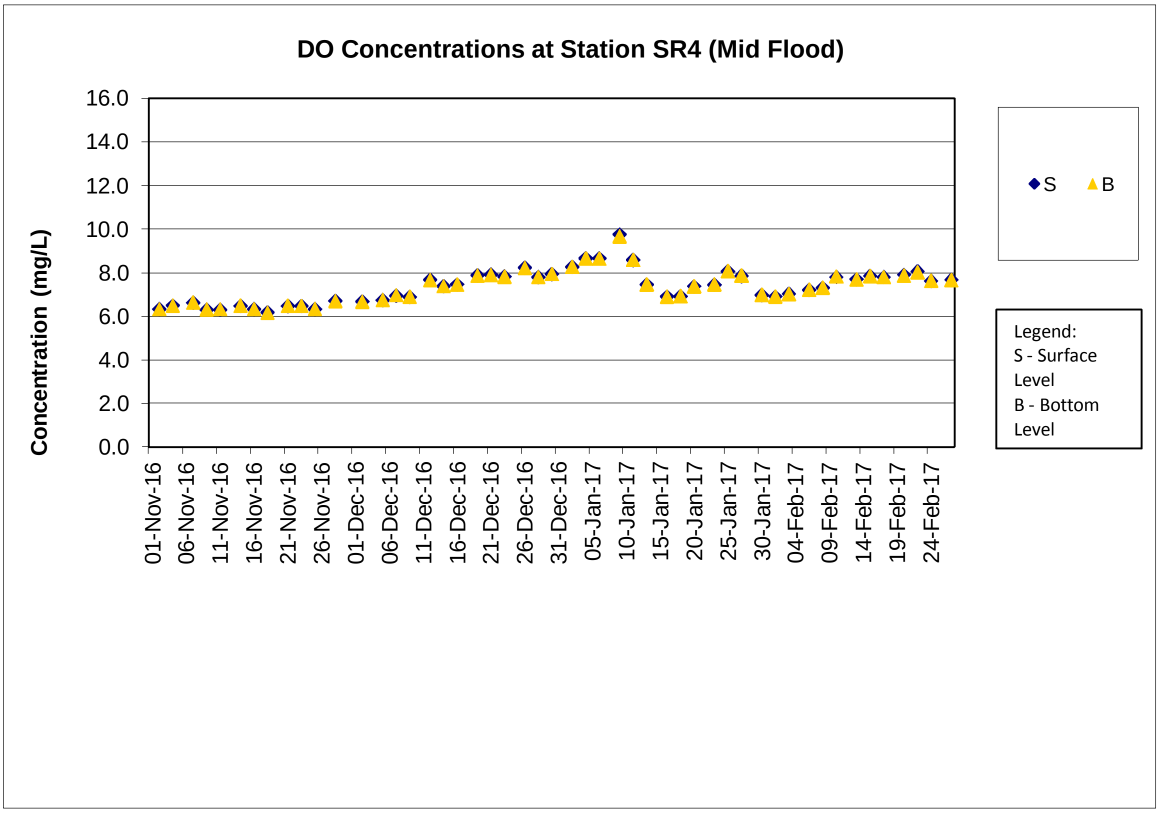
Remark:

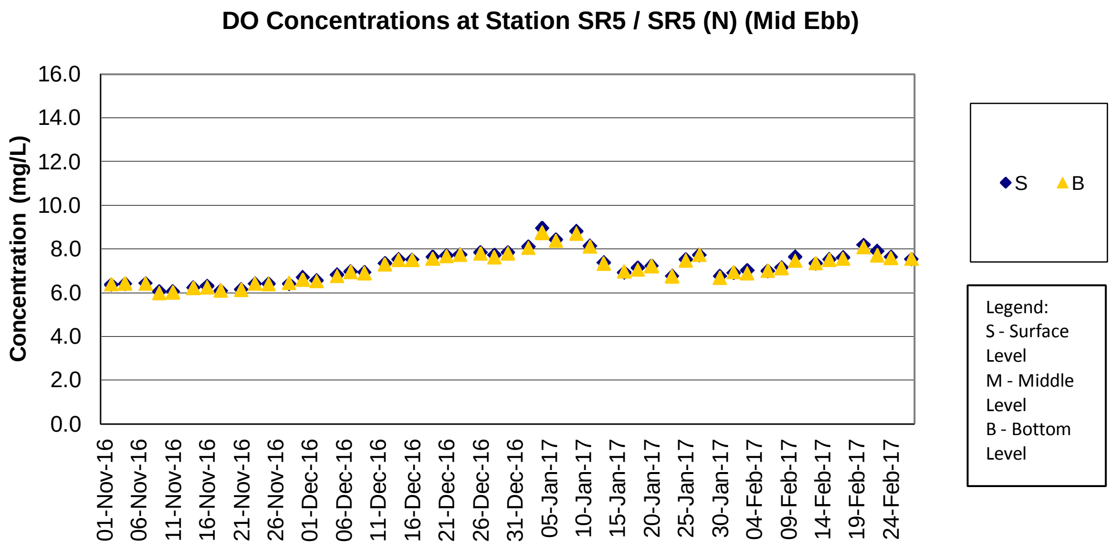
1) The previously granted Vessel's Entry Permit for accessing station IS10 (Coordinate: 812577E, 820670N) were expired on 31 December 2016. During the permit renewing process, the water quality monitoring location was shifted to IS10(N) (Coordinate: 813060E, 820540N) on 2, 4 and 6 Jan 2017 temporarily. The permit has been granted by Marine Department on 6 Jan 2017. Thus, the impact water quality monitoring works at original monitoring location of IS10 has been resumed since 9 Jan 2017.


DO Concentrations at Station SR3 (Mid Ebb)

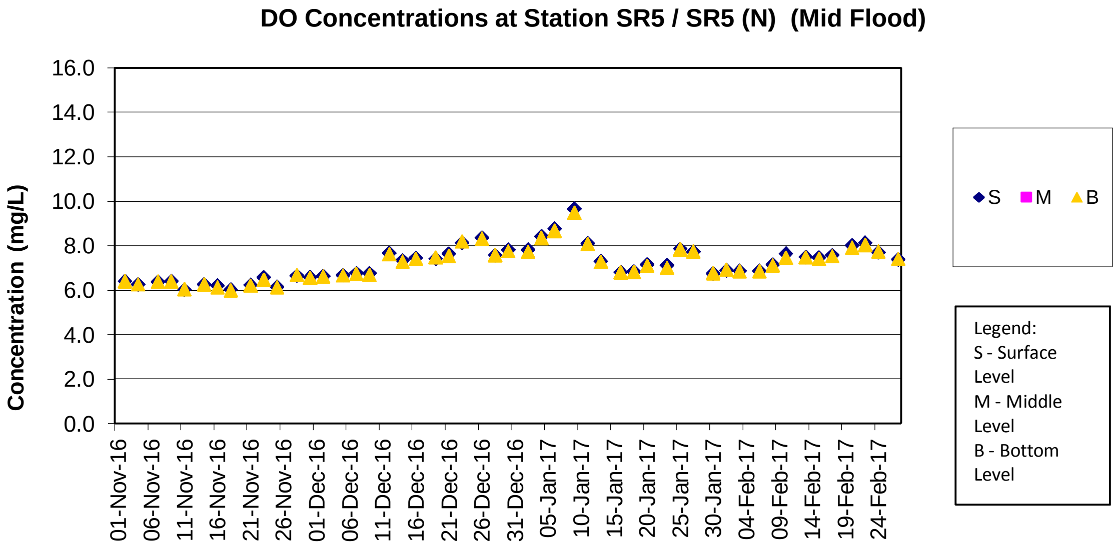

DO Concentrations at Station SR3 (Mid Flood)


DO Concentrations at Station SR4 (Mid Ebb)

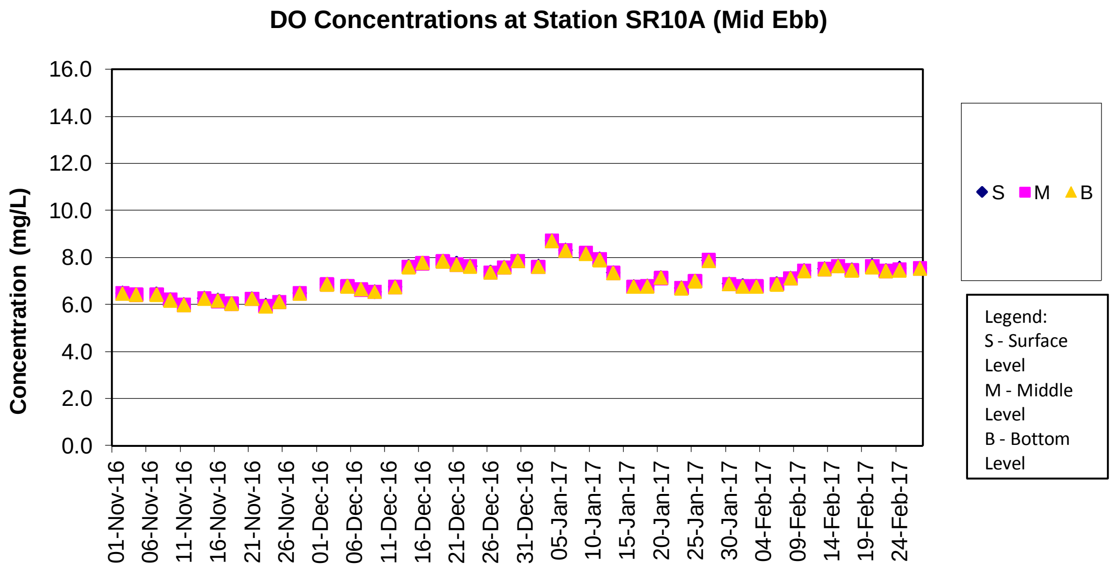

DO Concentrations at Station SR4 (Mid Flood)



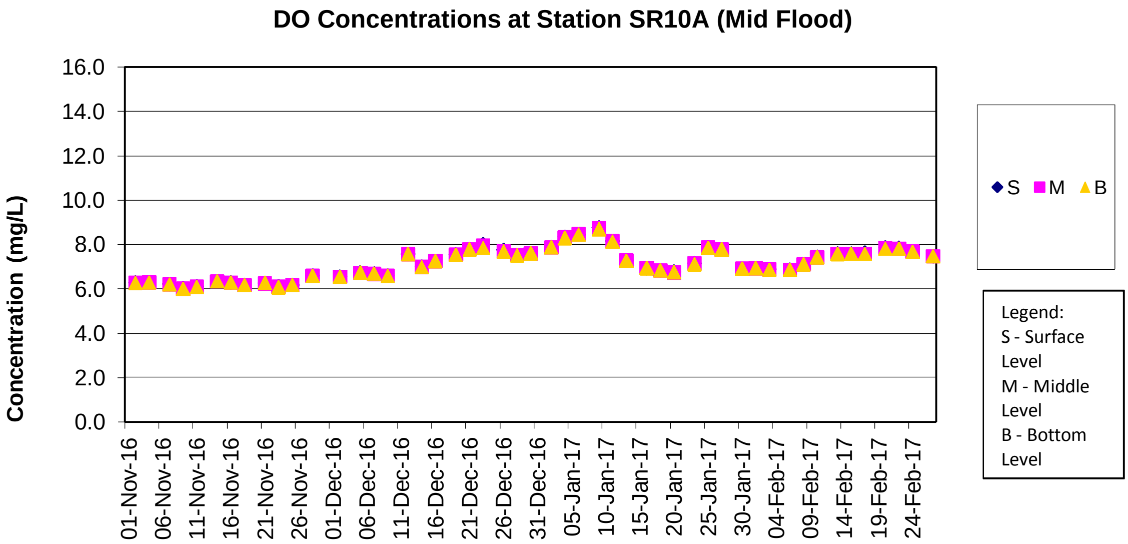
Remark:
1) The previously granted Vessel's Entry Permit for accessing station SR5 (811489E, 820455N) were expired on 31 Dec 2016. During the permit renewing process, the water quality monitoring location was shifted to SR5(N) (Coordinate: 811430E, 820978N) on 2, 4 and 6 January 2017 temporarily. The permit has been granted by Marine Department on 6 Jan 2017. Thus, the impact water quality monitoring works at original monitoring location of SR5 has been resumed since 9 Jan 2017.



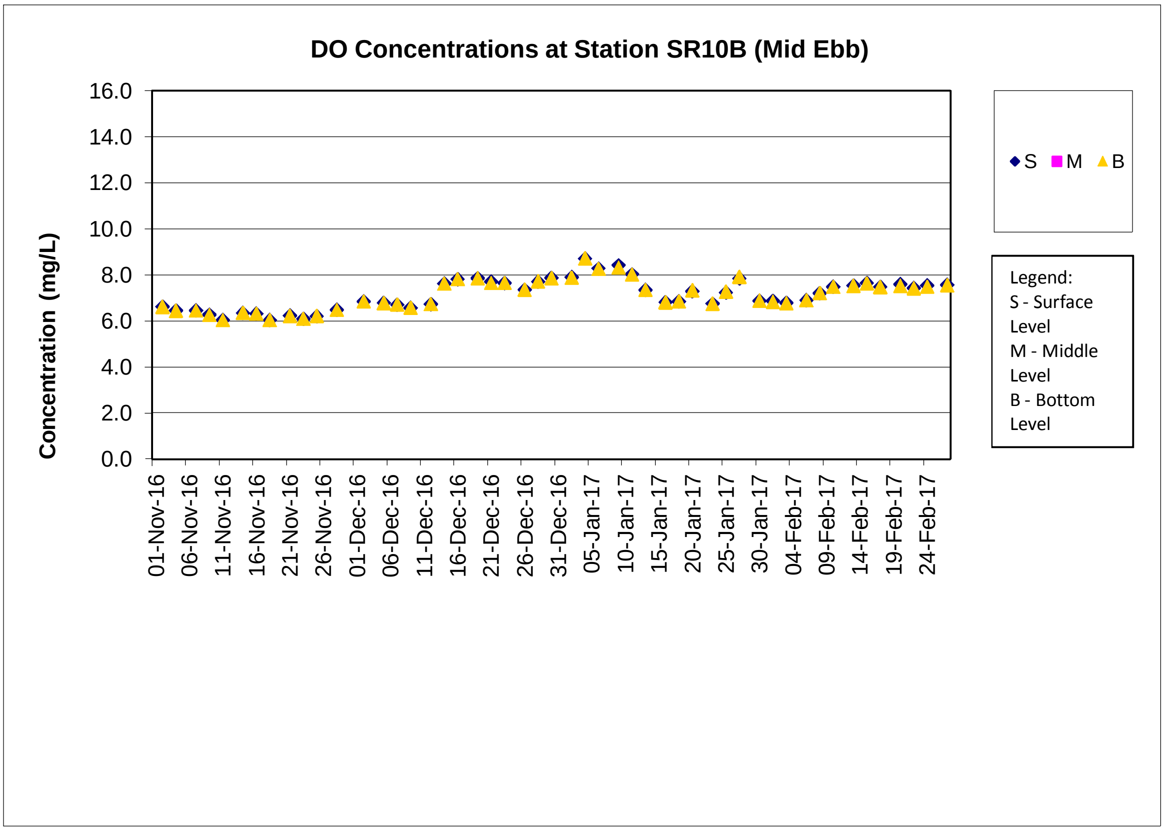
Remark:
1) The previously granted Vessel's Entry Permit for accessing station SR5 (811489E, 820455N) were expired on 31 Dec 2016. During the permit renewing process, the water quality monitoring location was shifted to SR5(N) (Coordinate: 811430E, 820978N) on 2, 4 and 6 January 2017 temporarily. The permit has been granted by Marine Department on 6 Jan 2017. Thus, the impact water quality monitoring works at original monitoring location of SR5 has been resumed since 9 Jan 2017.



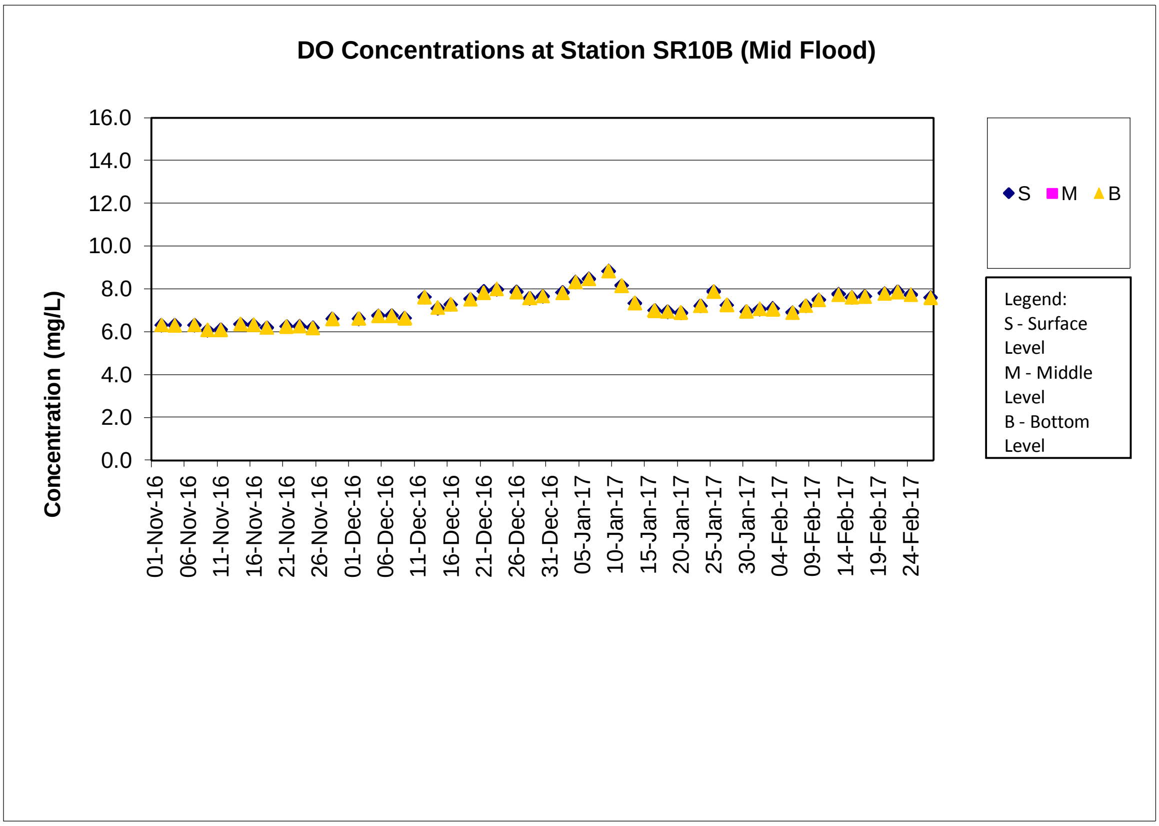
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level



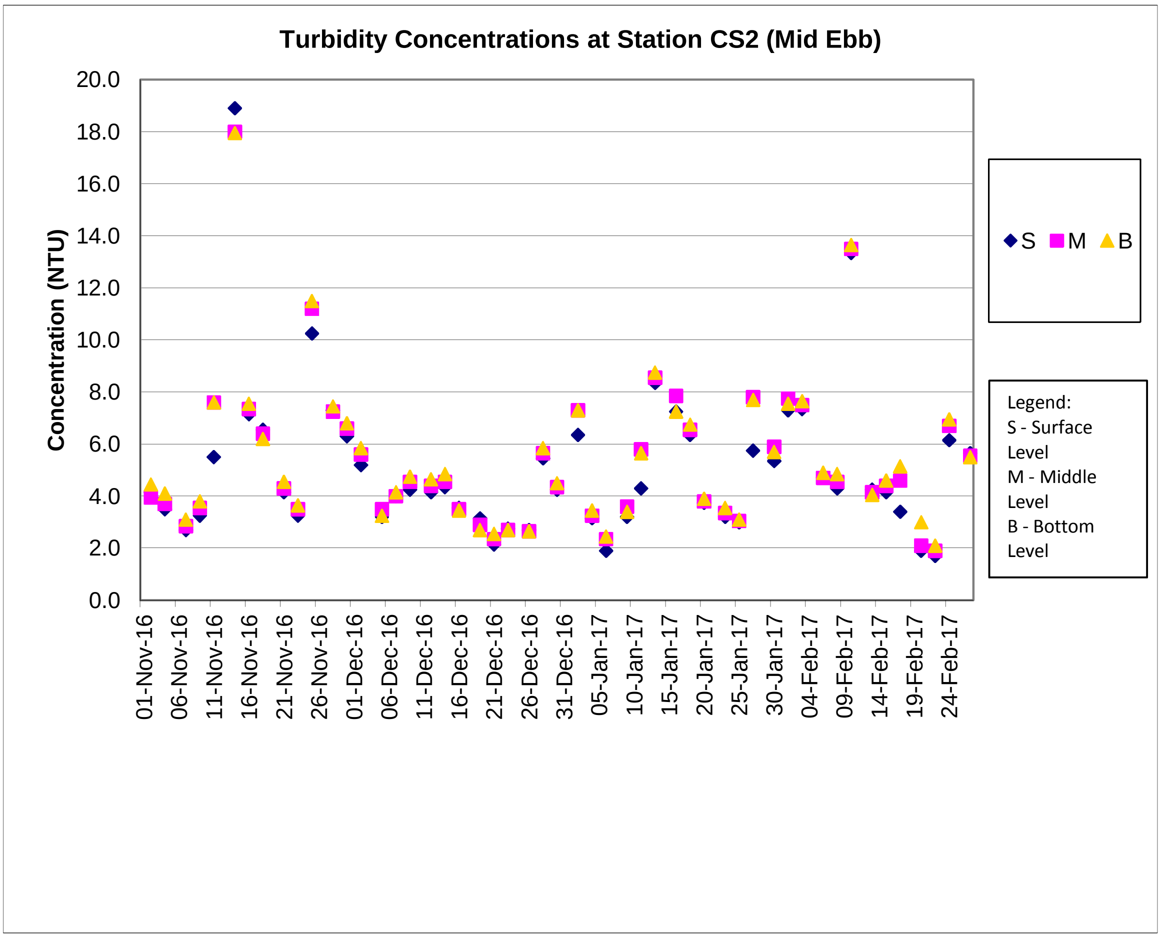
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

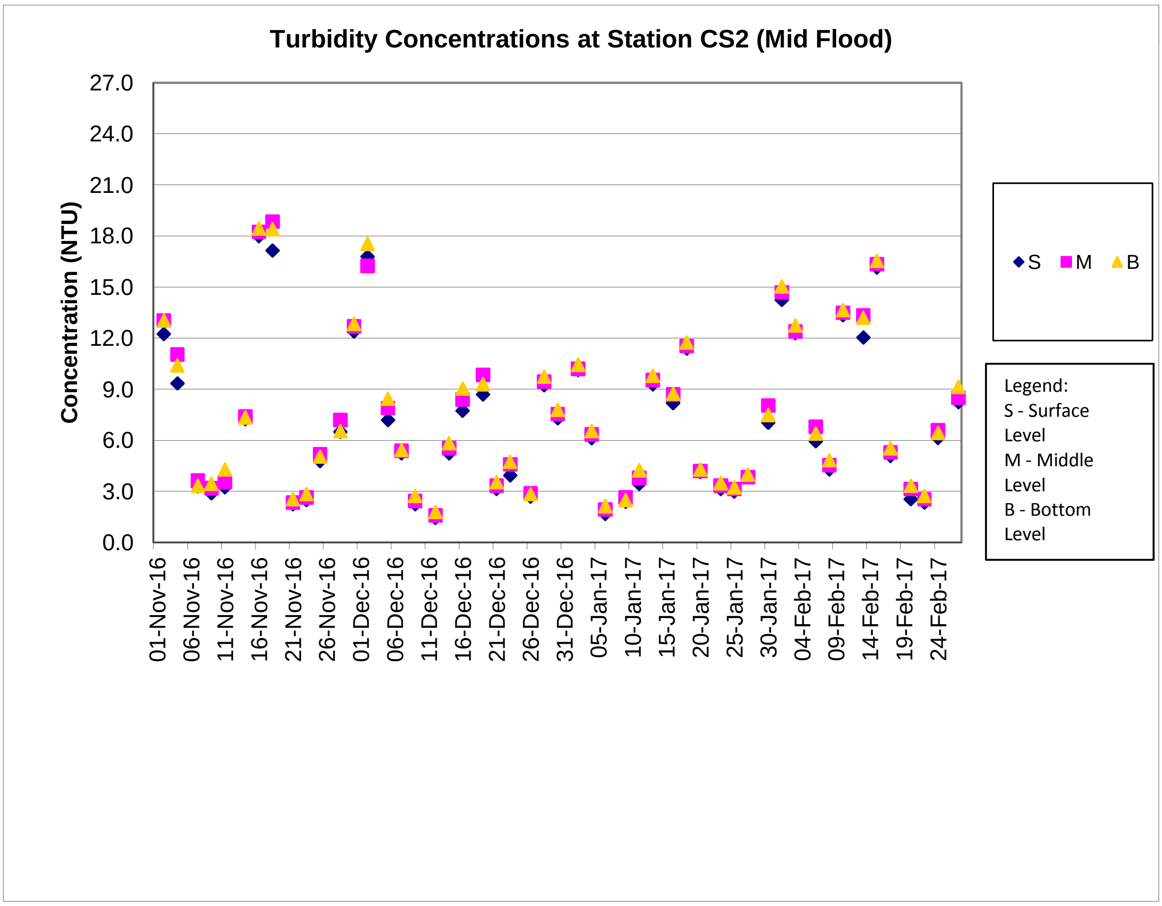


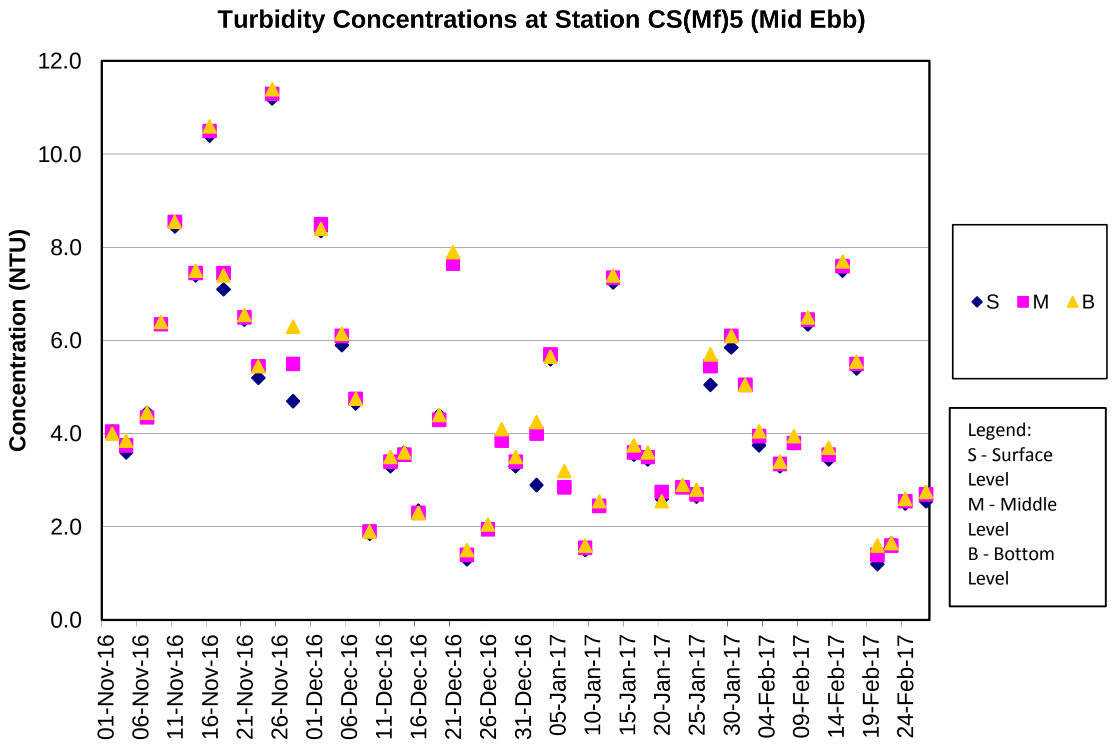
DO Concentrations at Station SR10B (Mid Ebb)



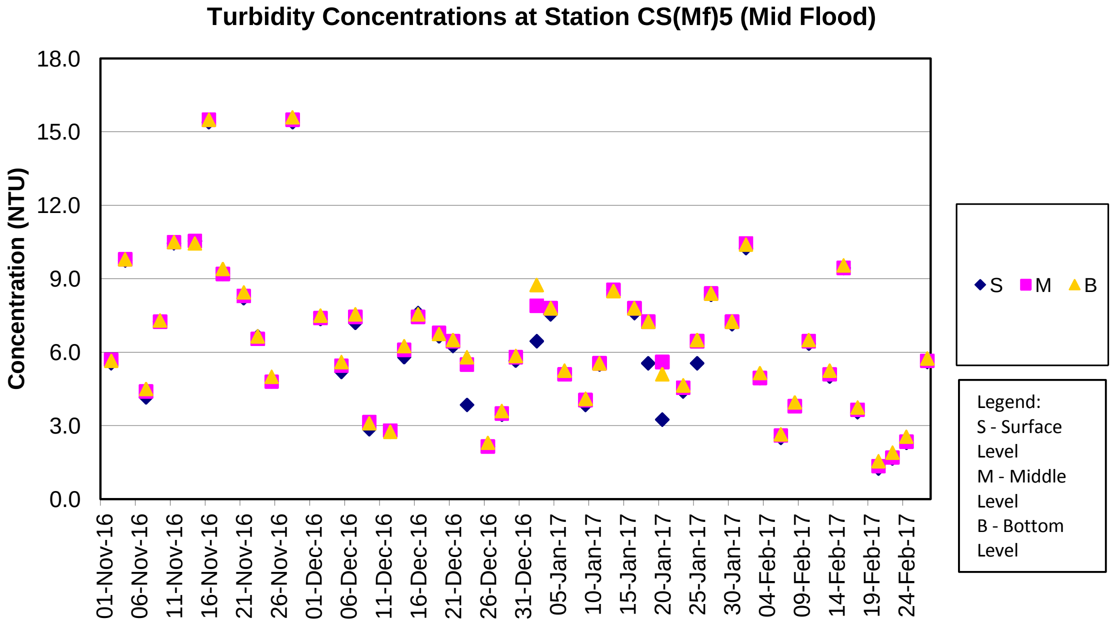
DO Concentrations at Station SR10B (Mid Flood)


Turbidity Concentrations at Station CS2 (Mid Ebb)
Concentration (NTU)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

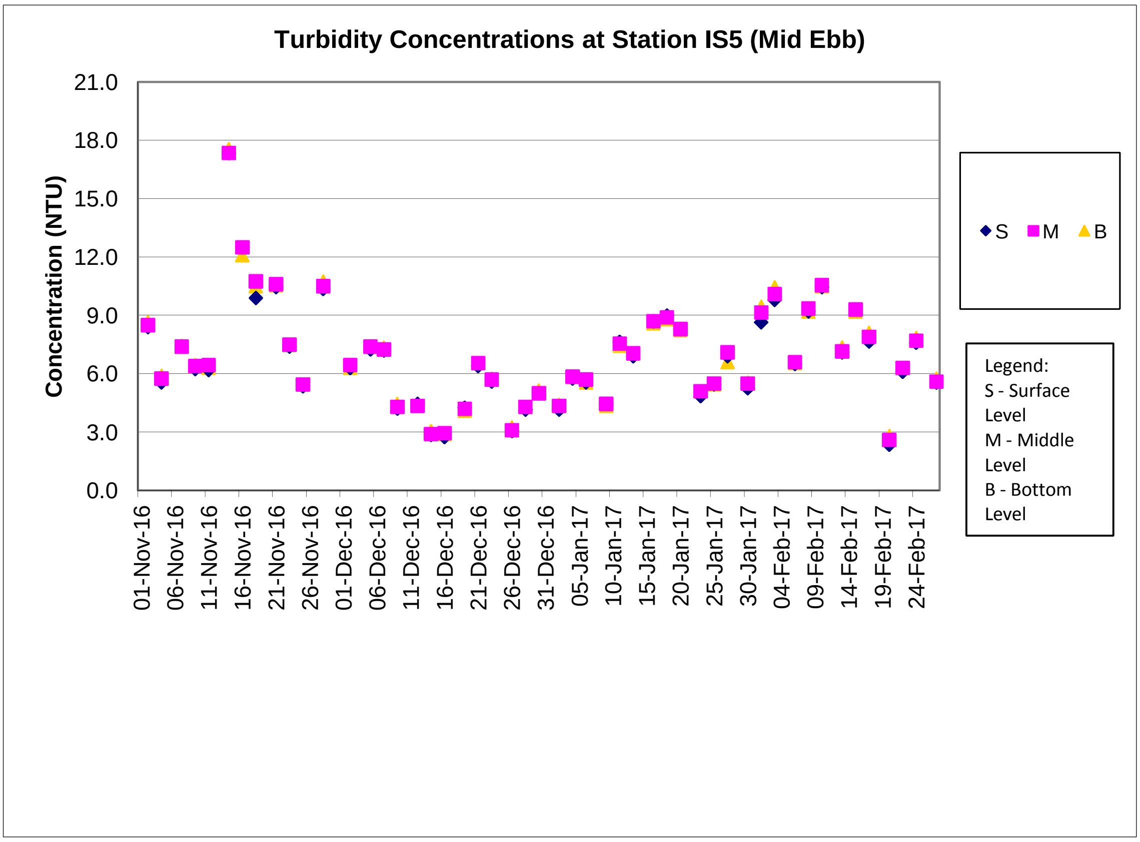

Turbidity Concentrations at Station CS2 (Mid Flood)
Concentration (NTU)
27.0
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

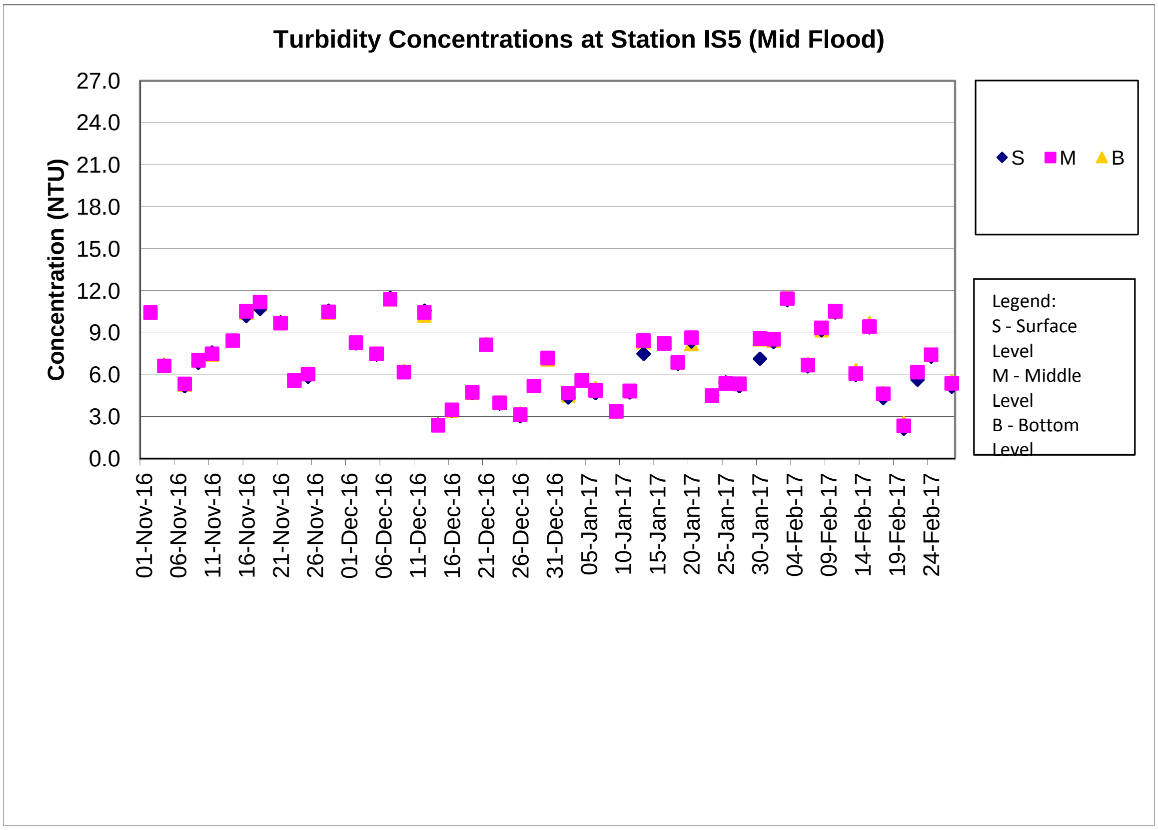


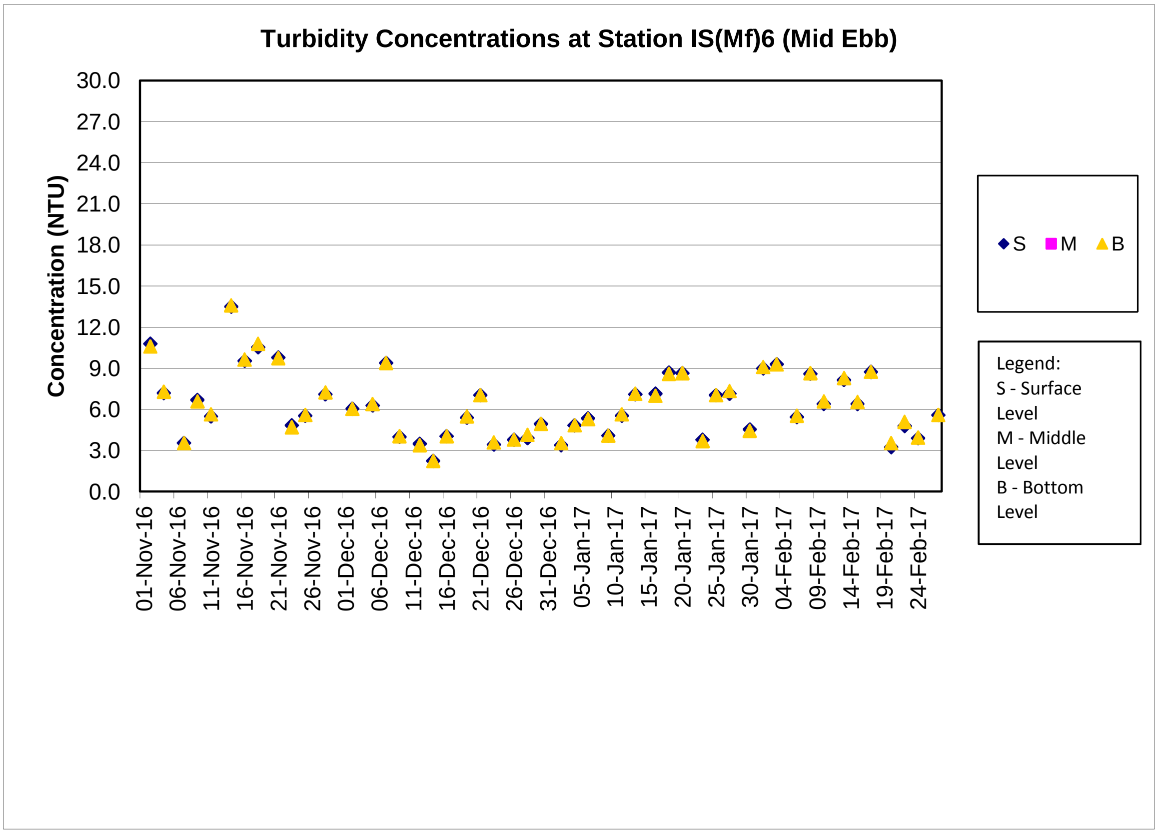
Turbidity Concentrations at Station CS(Mf)5 (Mid Ebb)

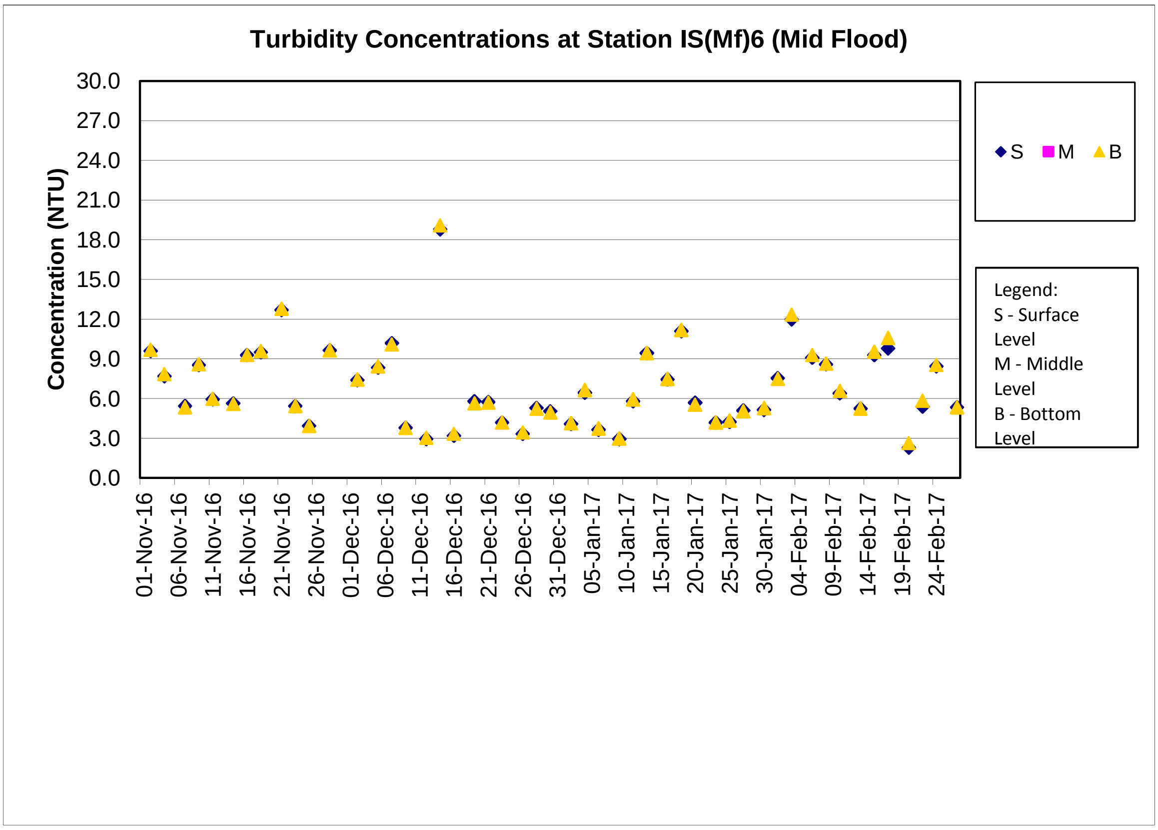


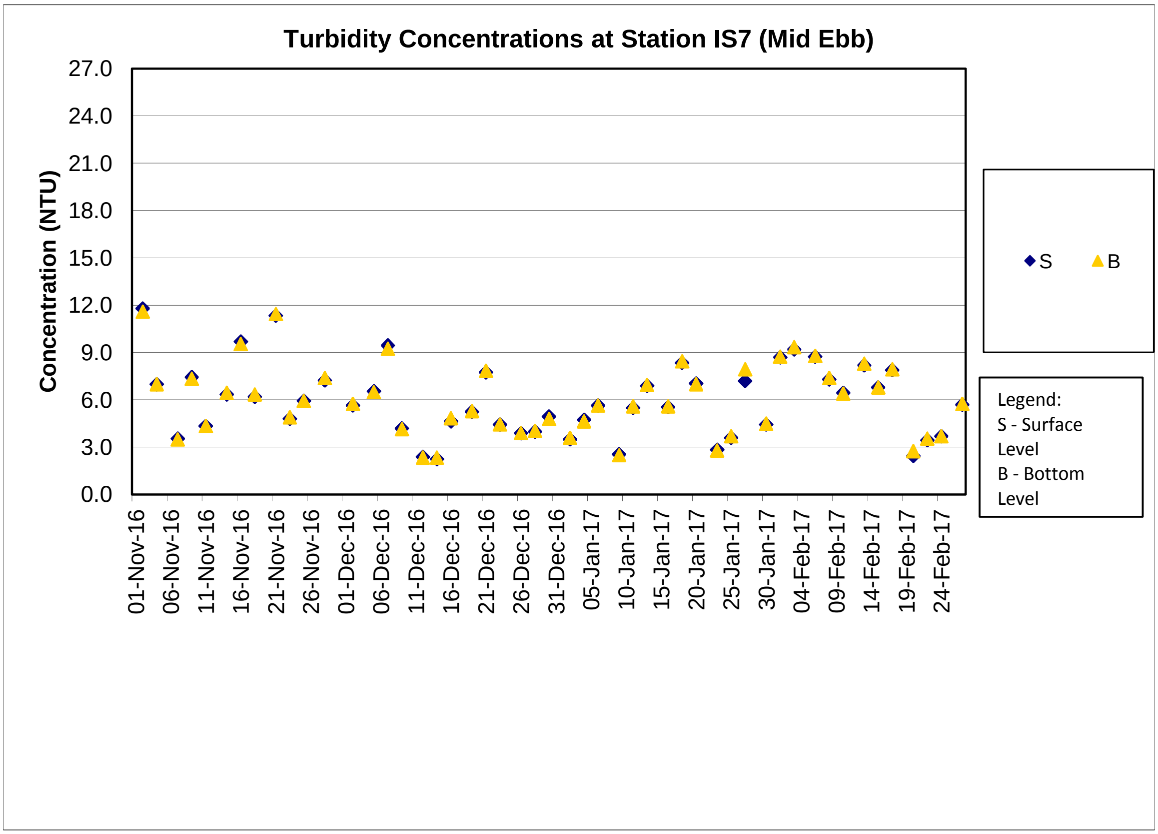
Turbidity Concentrations at Station CS(Mf)5 (Mid Flood)

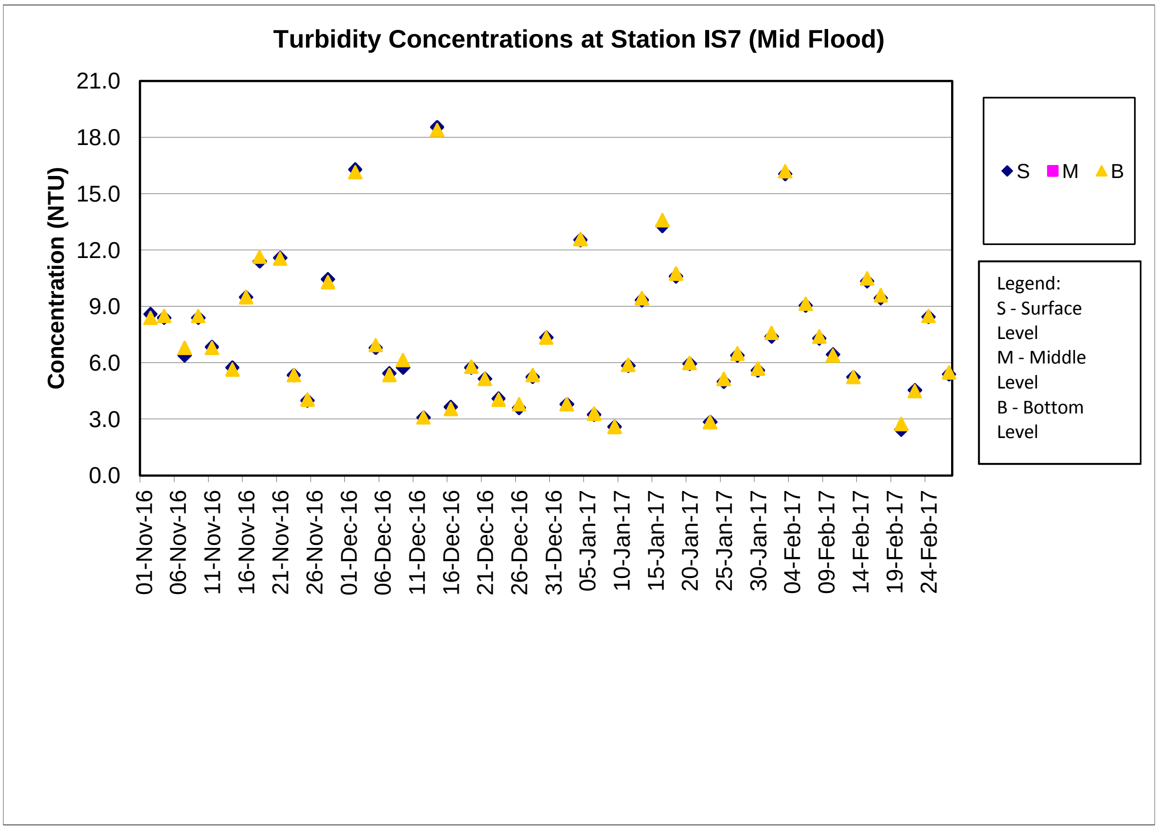

Turbidity Concentrations at Station IS5 (Mid Ebb)

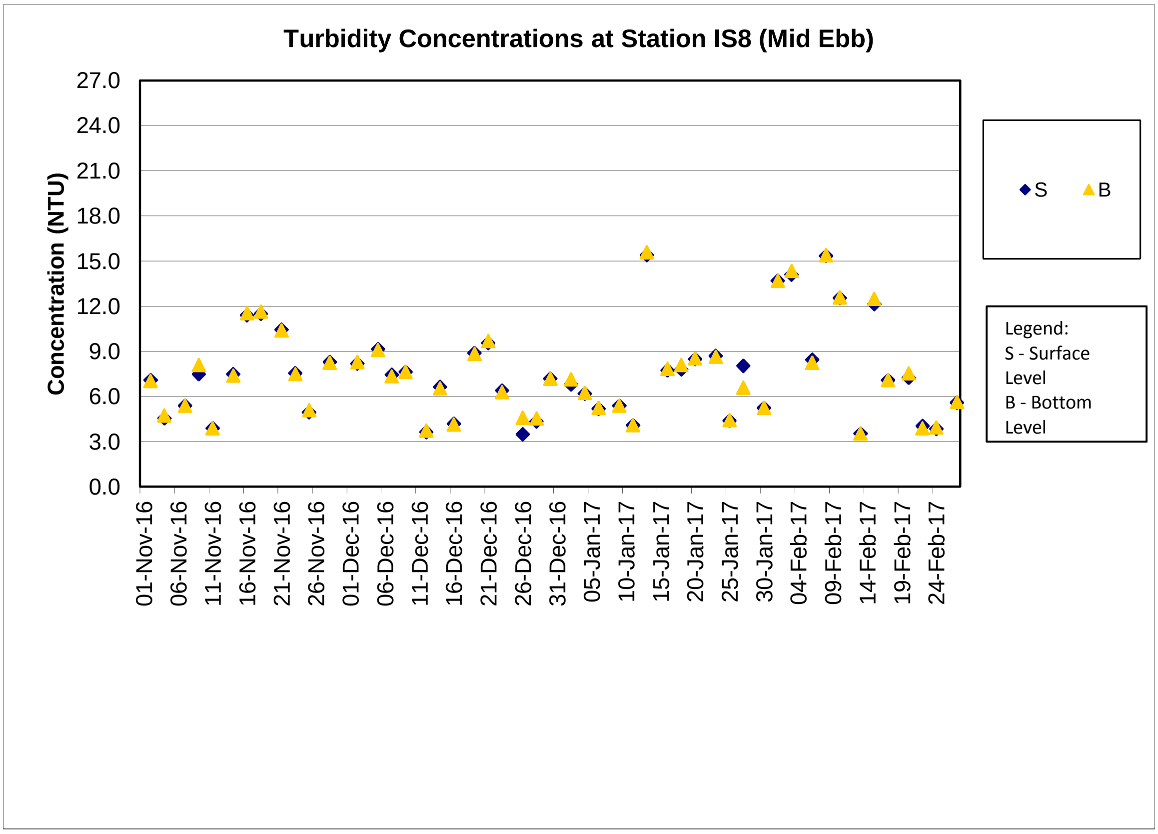

Turbidity Concentrations at Station IS5 (Mid Flood)

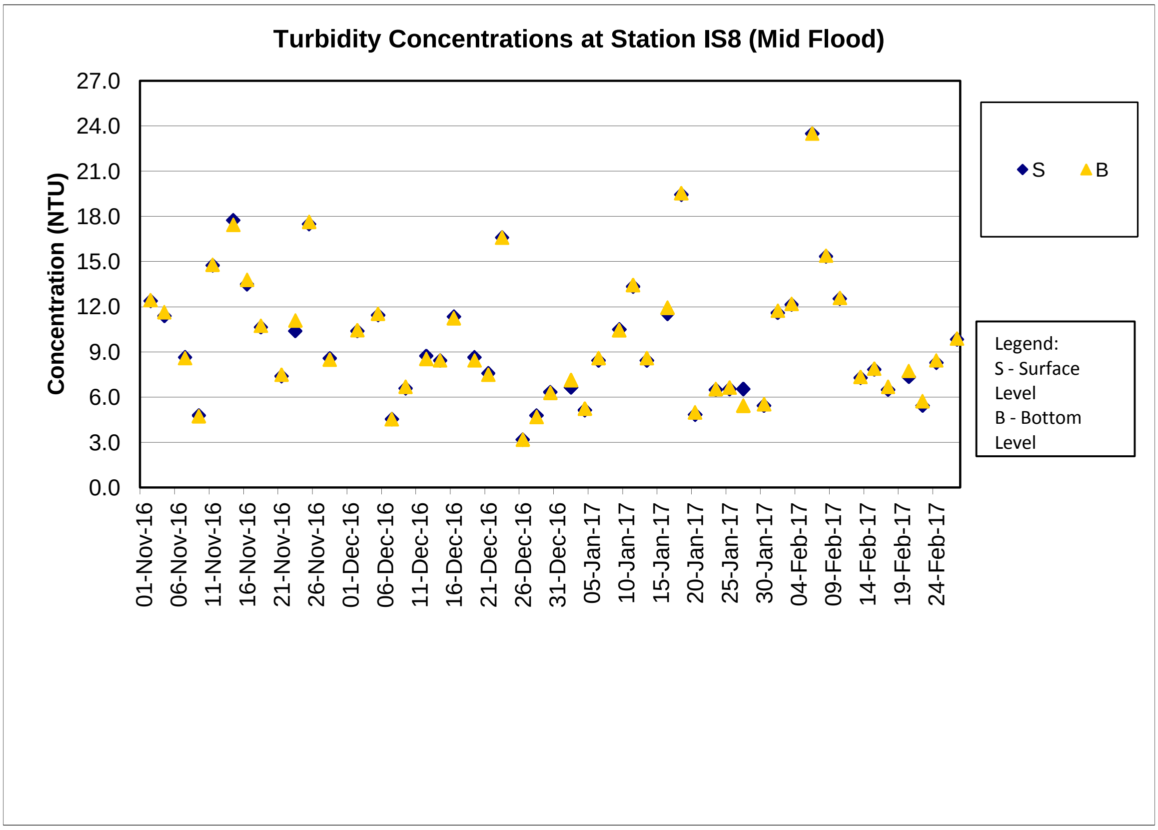

Turbidity Concentrations at Station IS(Mf)6 (Mid Ebb)

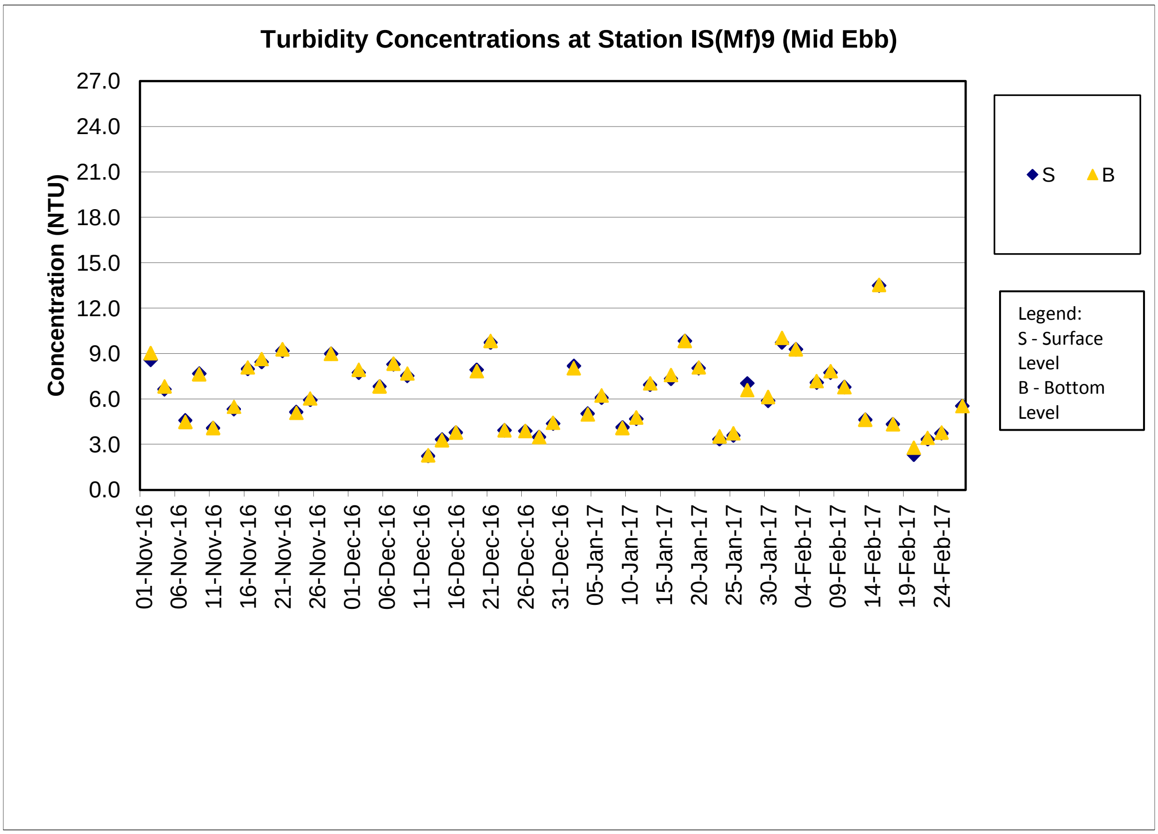

Turbidity Concentrations at Station IS(Mf)6 (Mid Flood)

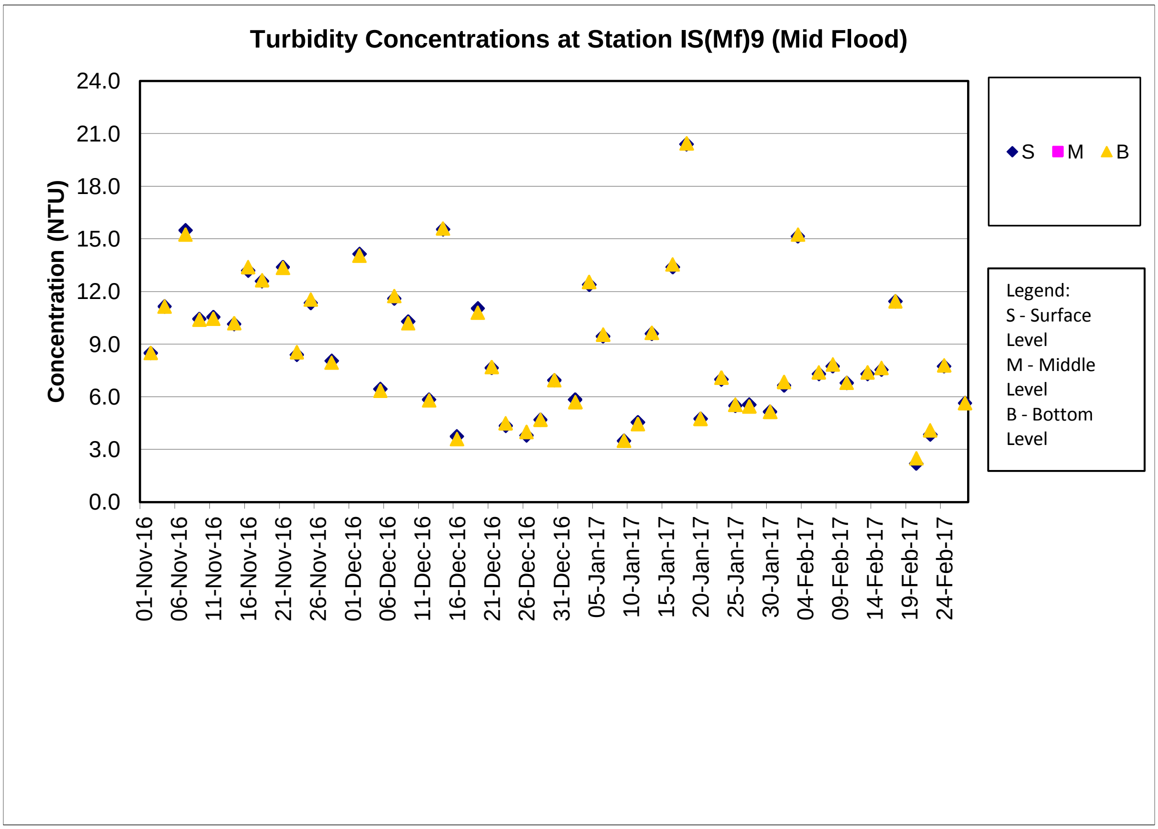

Turbidity Concentrations at Station IS7 (Mid Ebb)
Concentration (NTU)
27.0
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆ S
▲ B
Legend:
S - Surface Level
B - Bottom Level


Turbidity Concentrations at Station IS7 (Mid Flood)
Concentration (NTU)
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆ S
■ M
▲ B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

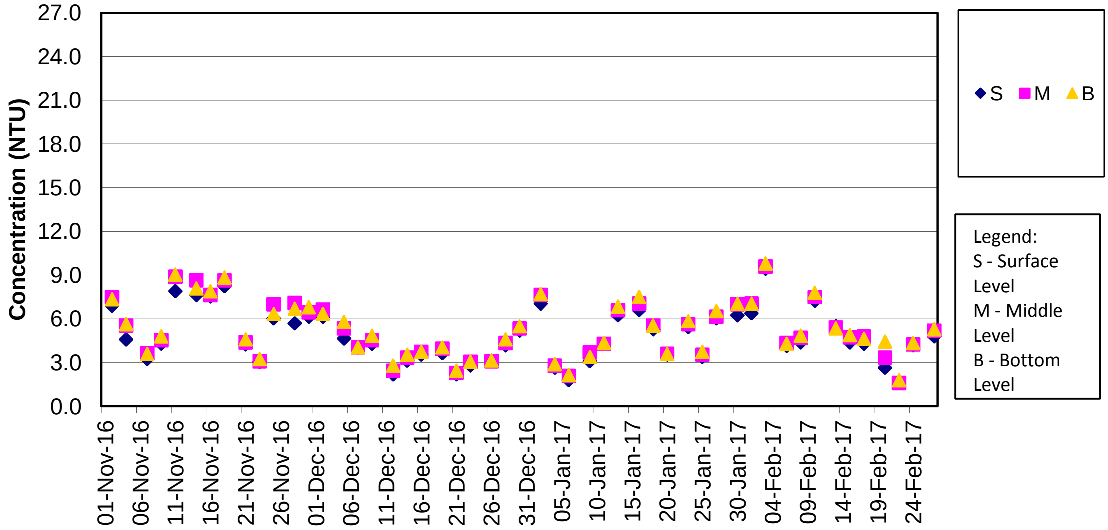

Turbidity Concentrations at Station IS8 (Mid Ebb)


Turbidity Concentrations at Station IS8 (Mid Flood)


Turbidity Concentrations at Station IS(Mf)9 (Mid Ebb)
Concentration (NTU)
27.0
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S
▲B
Legend:
S - Surface Level
B - Bottom Level

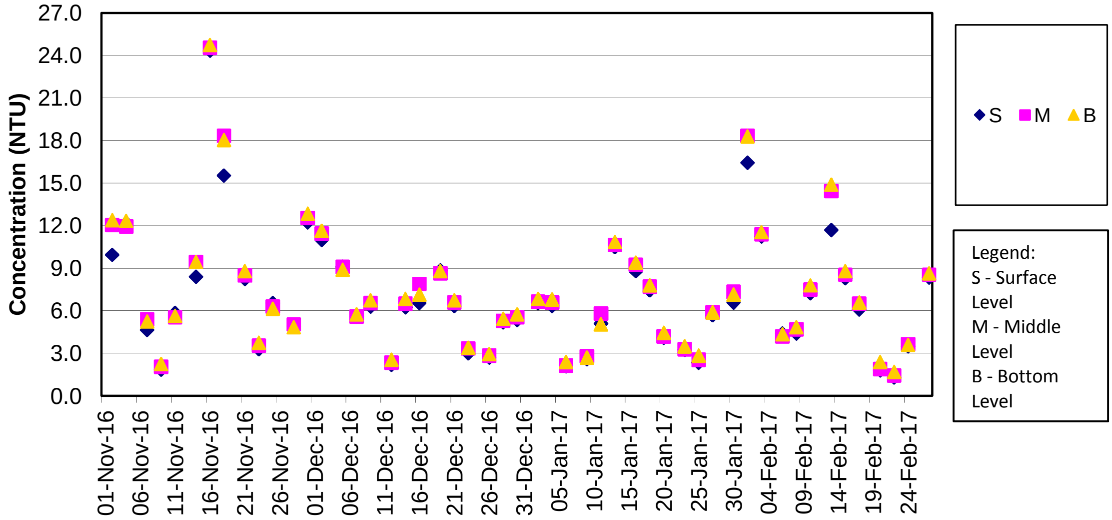

Turbidity Concentrations at Station IS(Mf)9 (Mid Flood)
Concentration (NTU)
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S
■M
▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

Turbidity Concentrations at Station IS10 / IS10(N) (Mid Ebb)

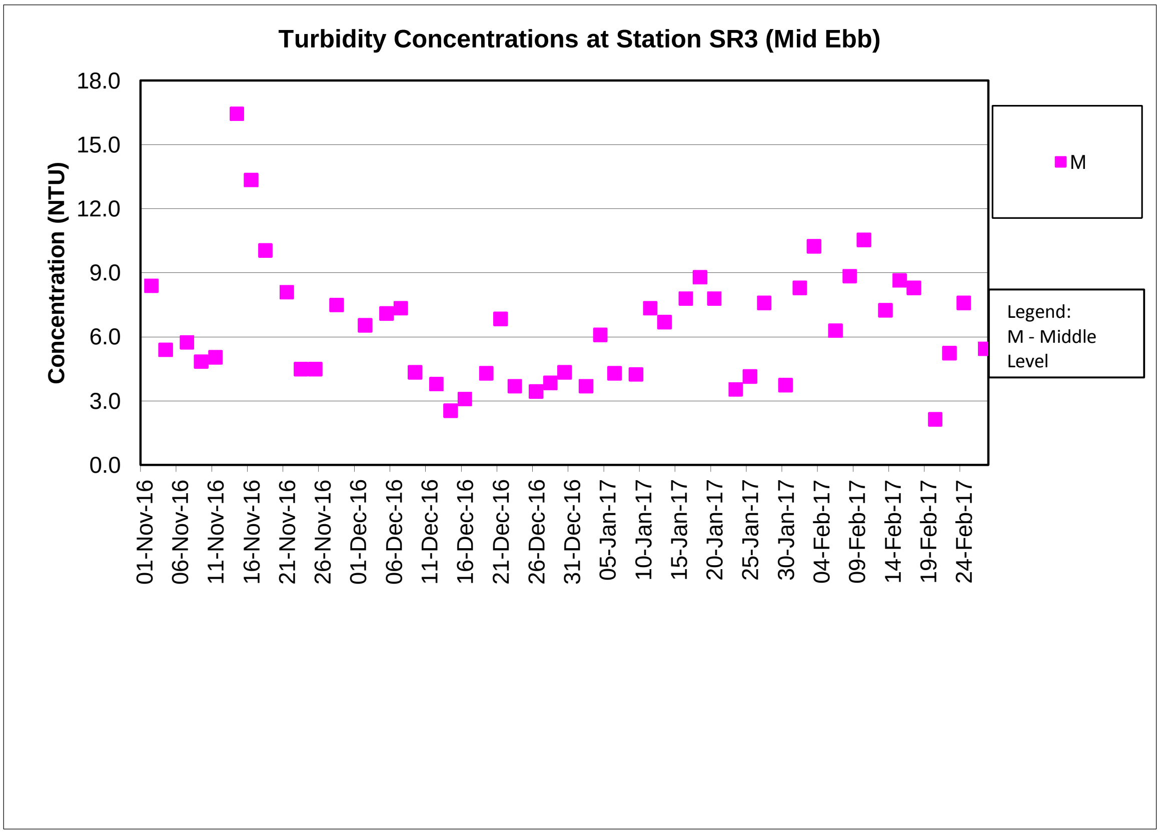


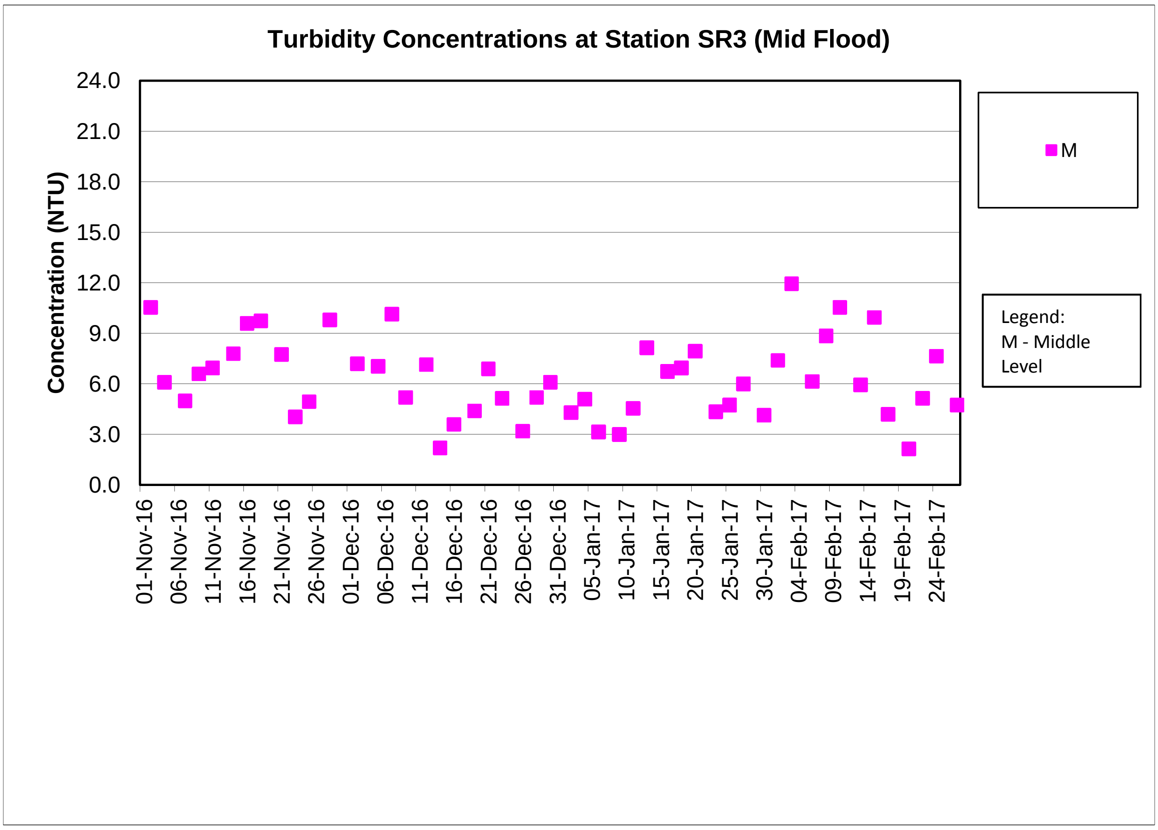
Remark:
1) The previously granted Vessel's Entry Permit for accessing station IS10 (Coordinate: 812577E, 820670N) were expired on 31 December 2016. During the permit renewing process, the water quality monitoring location was shifted to IS10(N) (Coordinate: 813060E, 820540N) on 2, 4 and 6 Jan 2017 temporarily. The permit has been granted by Marine Department on 6 Jan 2017. Thus, the impact water quality monitoring works at original monitoring location of IS10 has been resumed since 9 Jan 2017.

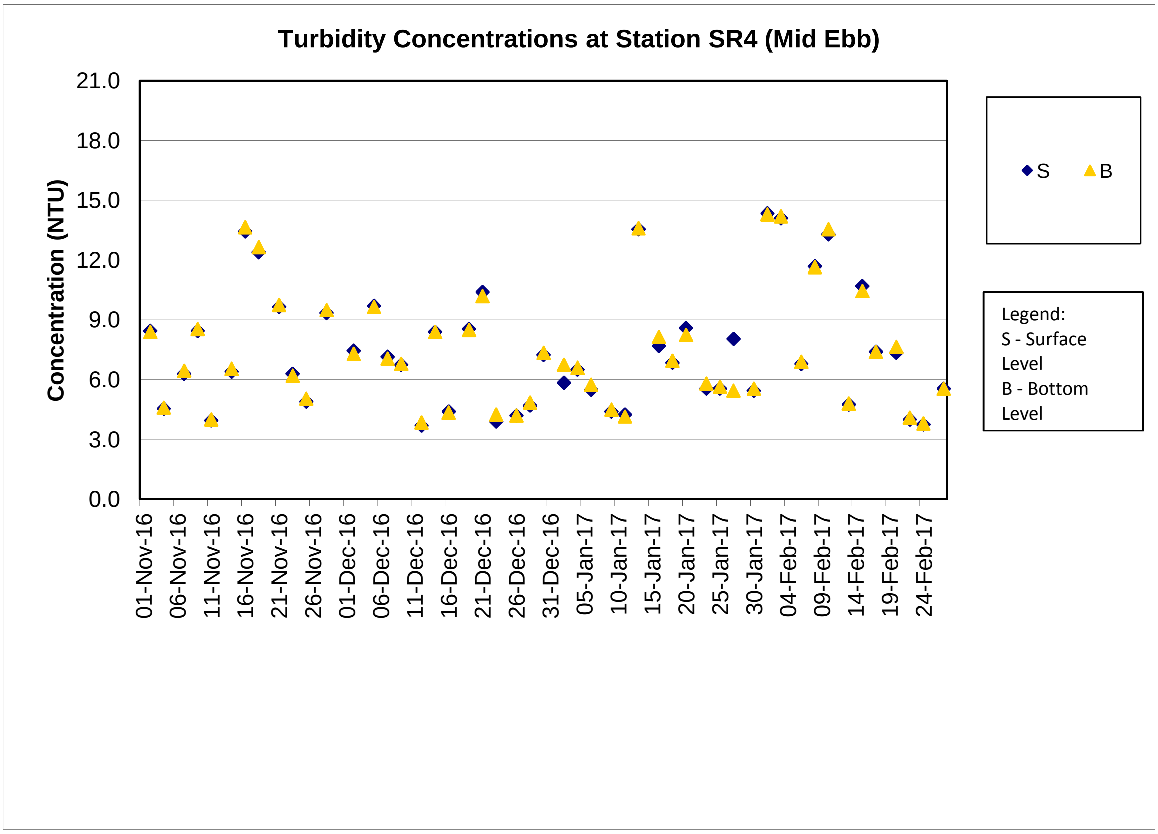
Turbidity Concentrations at Station IS10 / IS10(N) (Mid Flood)

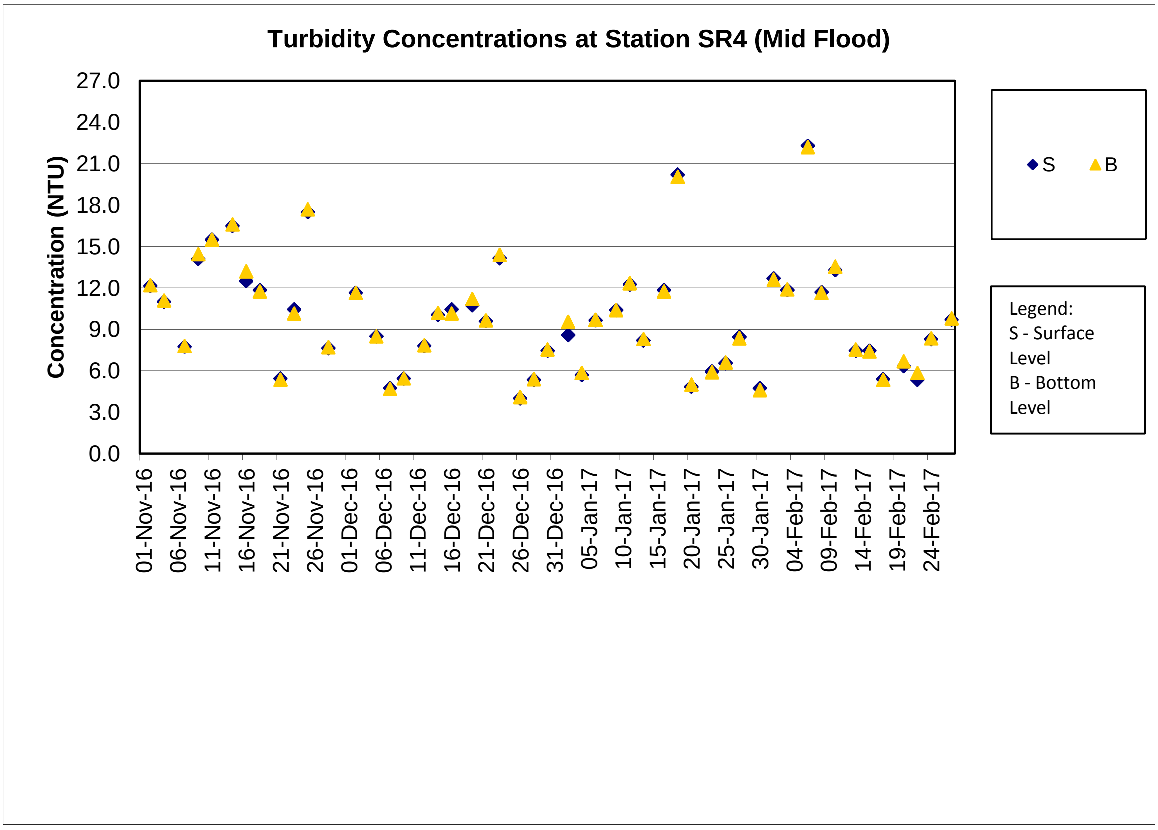


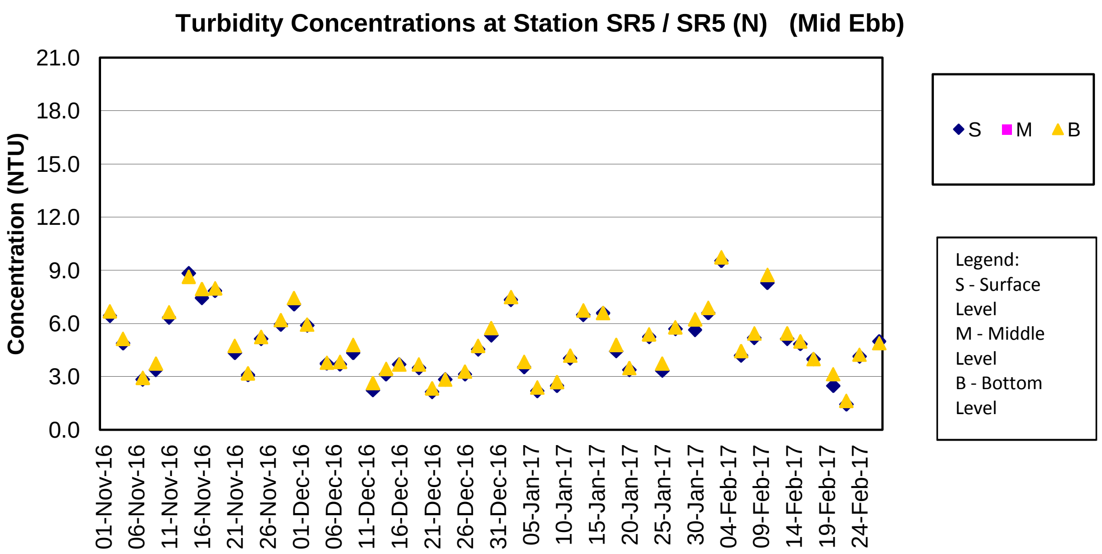
Remark:
1) The previously granted Vessel's Entry Permit for accessing stationsIS10 (Coordinate: 812577E, 820670N) were expired on 31 December 2016. During the permit renewing process, the water quality monitoring location was shifted to IS10(N) (Coordinate: 813060E, 820540N) on 2, 4 and 6 Jan 2017 temporarily. The permit has been granted by Marine Department on 6 Jan 2017. Thus, the impact water quality monitoring works at original monitoring location of IS10 has been resumed since 9 Jan 2017.


Turbidity Concentrations at Station SR3 (Mid Ebb)
Concentration (NTU)
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
■ M
Legend:
M - Middle Level

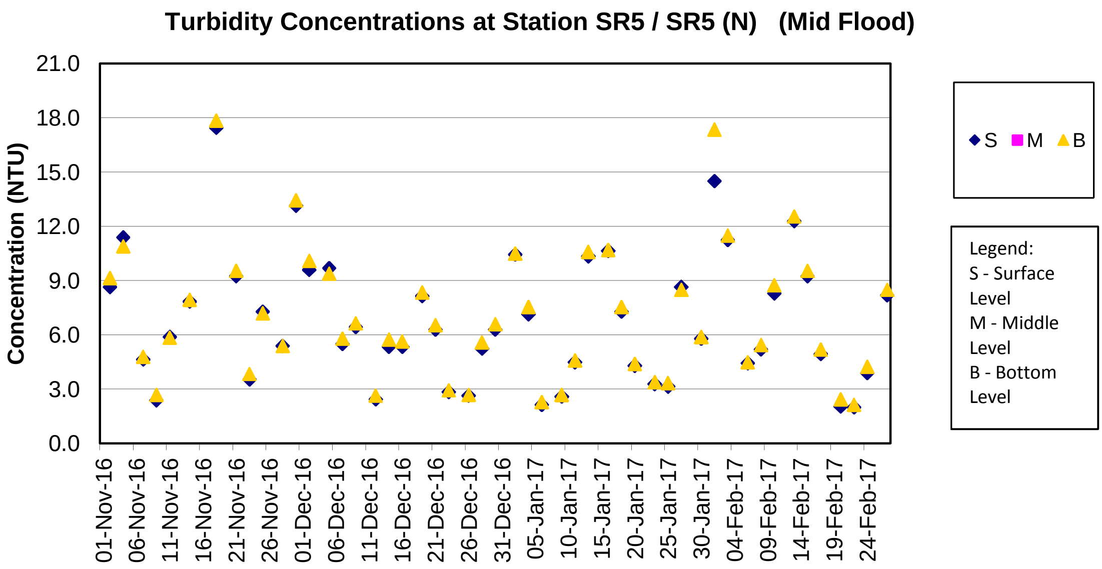

Turbidity Concentrations at Station SR3 (Mid Flood)
Concentration (NTU)
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
■ M
Legend:
M - Middle Level


Turbidity Concentrations at Station SR4 (Mid Ebb)
Concentration (NTU)
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆ S
▲ B
Legend:
S - Surface Level
B - Bottom Level

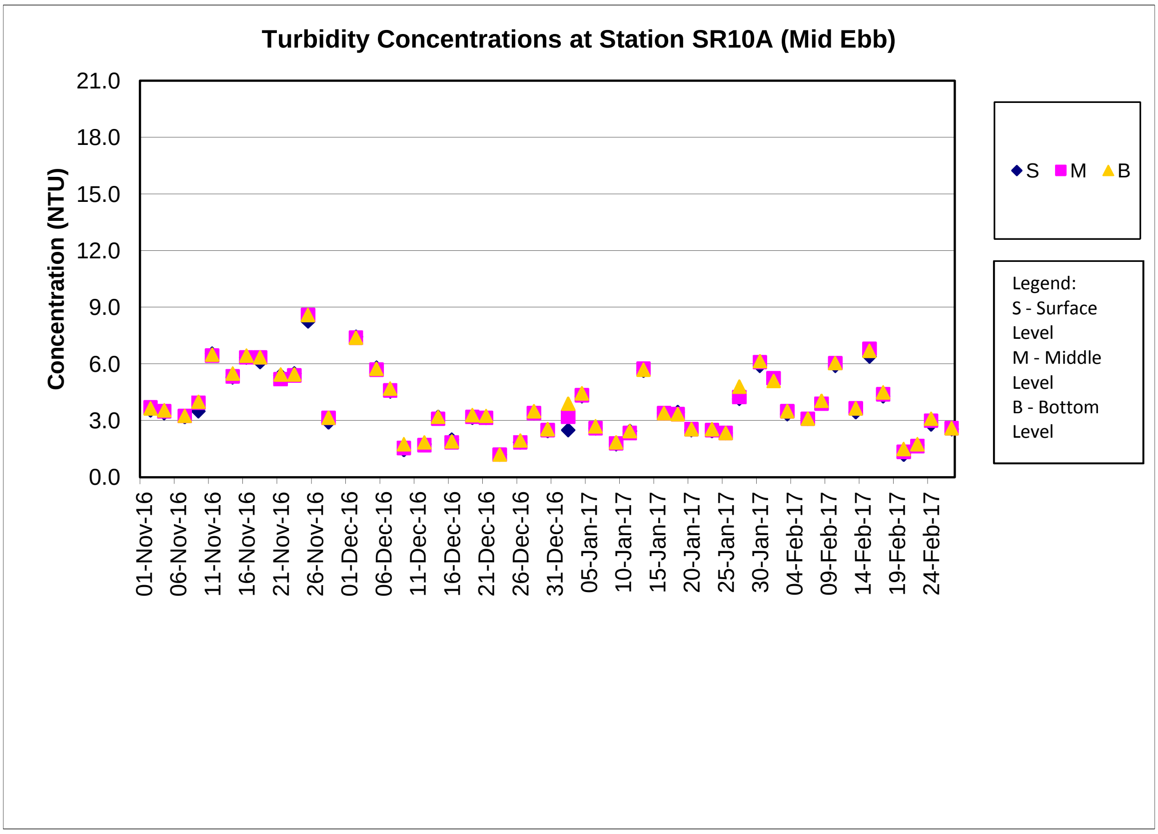

Turbidity Concentrations at Station SR4 (Mid Flood)
Concentration (NTU)
27.0
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆ S
▲ B
Legend:
S - Surface Level
B - Bottom Level

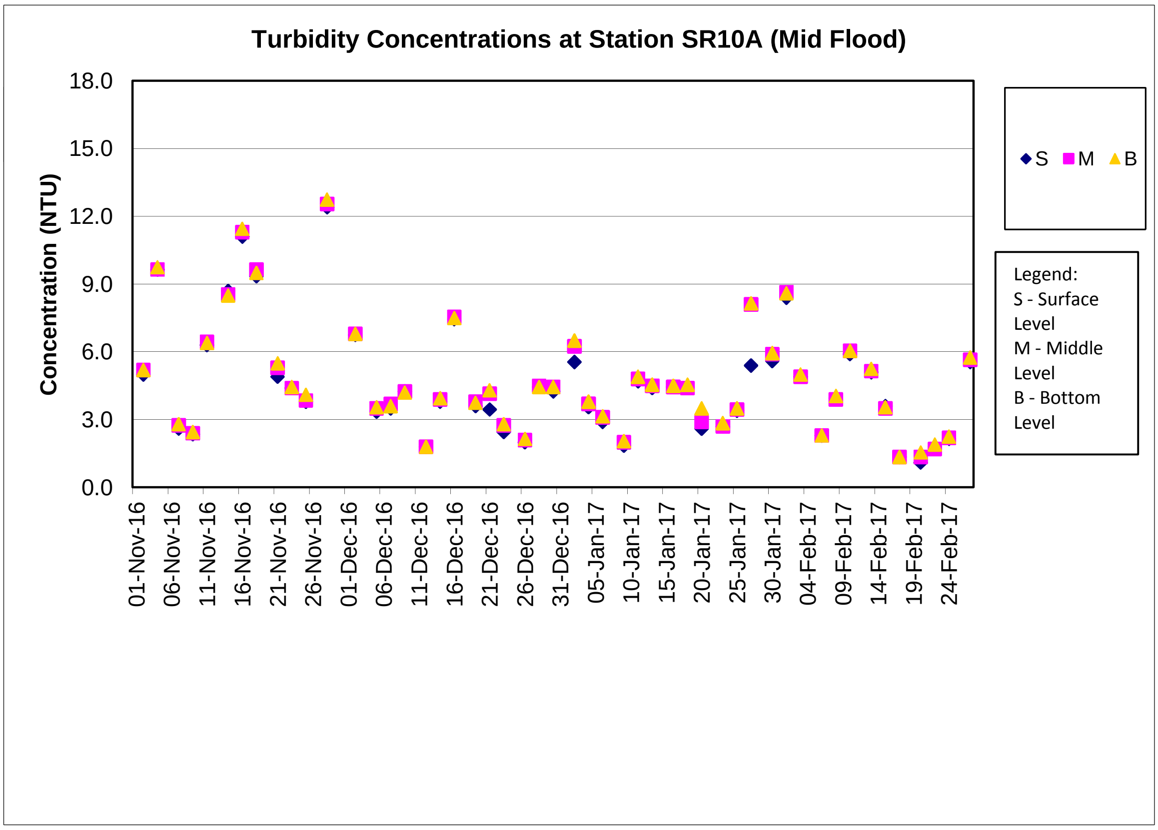

Turbidity Concentrations at Station SR5 / SR5 (N) (Mid Ebb)

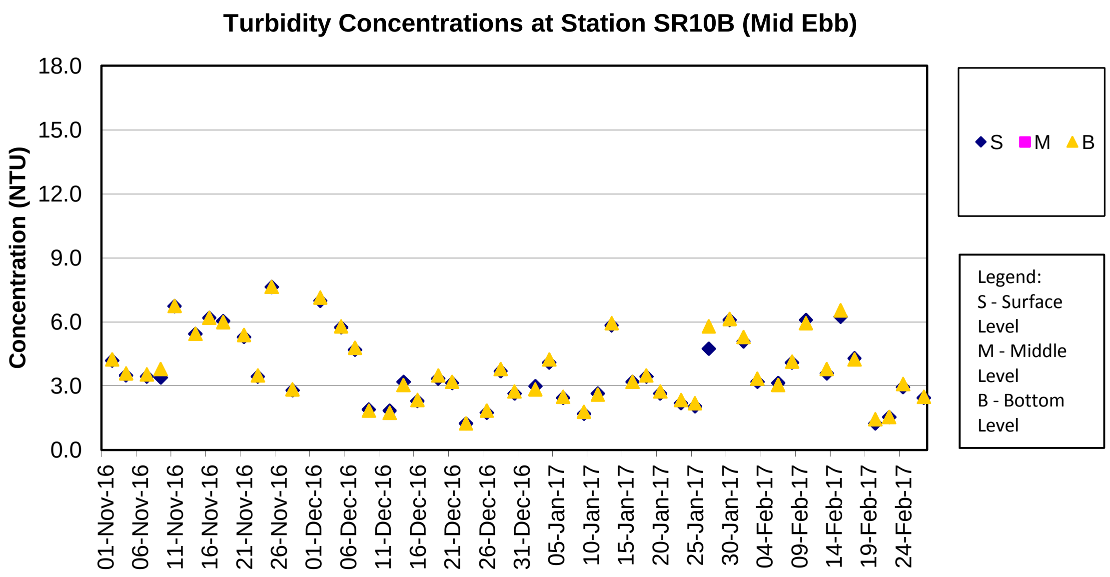
Remark:
1) The previously granted Vessel's Entry Permit for accessing station SR5 (811489E, 820455N) were expired on 31 Dec 2016. During the permit renewing process, the water quality monitoring location was shifted to SR5(N) (Coordinate: 811430E, 820978N) on 2, 4 and 6 January 2017 temporarily. The permit has been granted by Marine Department on 6 Jan 2017. Thus, the impact water quality monitoring works at original monitoring location of SR5 has been resumed since 9 Jan 2017.

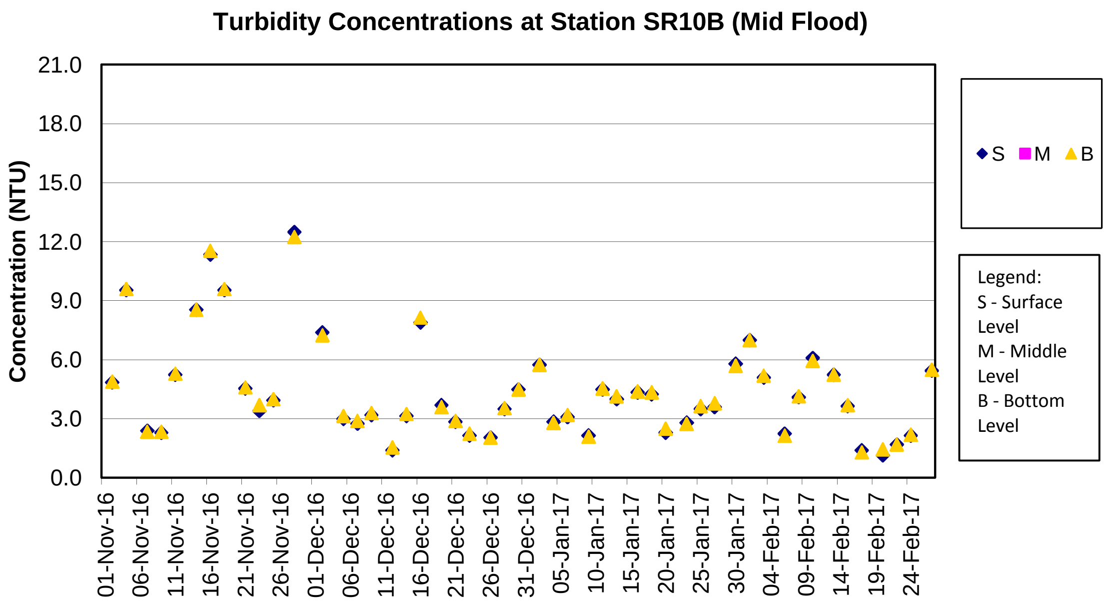

Turbidity Concentrations at Station SR5 / SR5 (N) (Mid Flood)

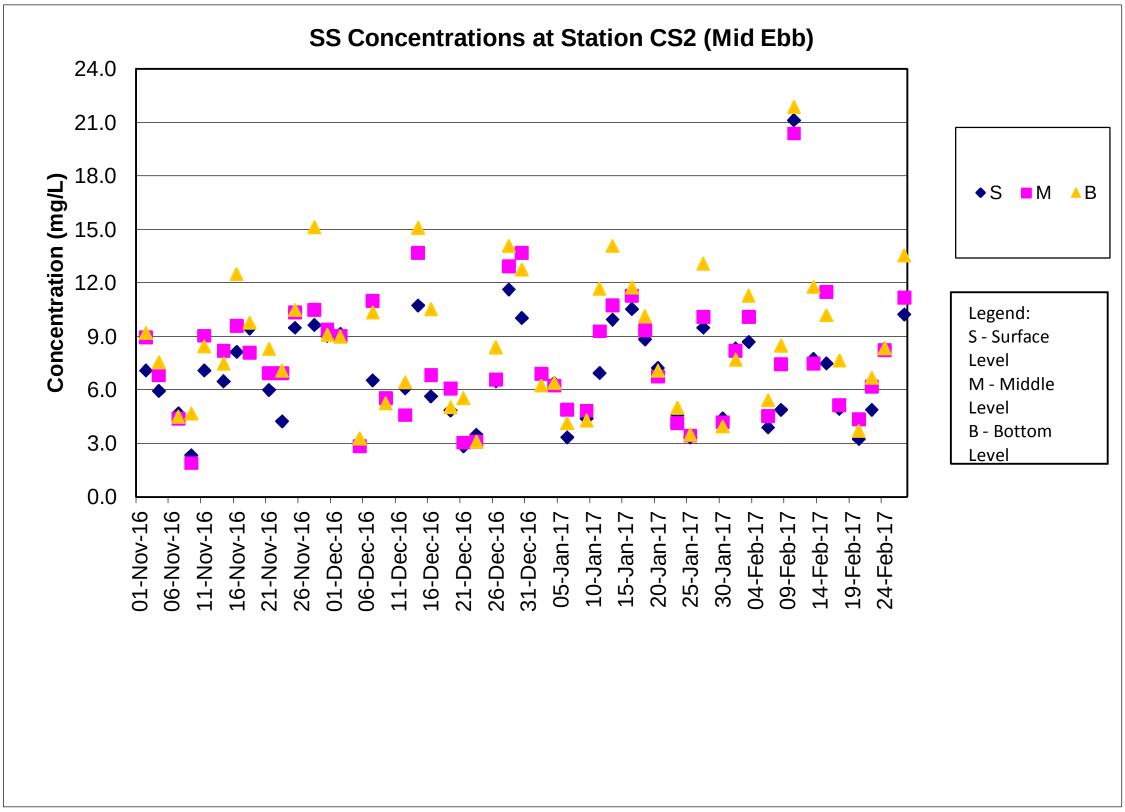
Remark:
1) The previously granted Vessel's Entry Permit for accessing station SR5 (811489E, 820455N) were expired on 31 Dec 2016. During the permit renewing process, the water quality monitoring location was shifted to SR5(N) (Coordinate: 811430E, 820978N) on 2, 4 and 6 January 2017 temporarily. The permit has been granted by Marine Department on 6 Jan 2017. Thus, the impact water quality monitoring works at original monitoring location of SR5 has been resumed since 9 Jan 2017.

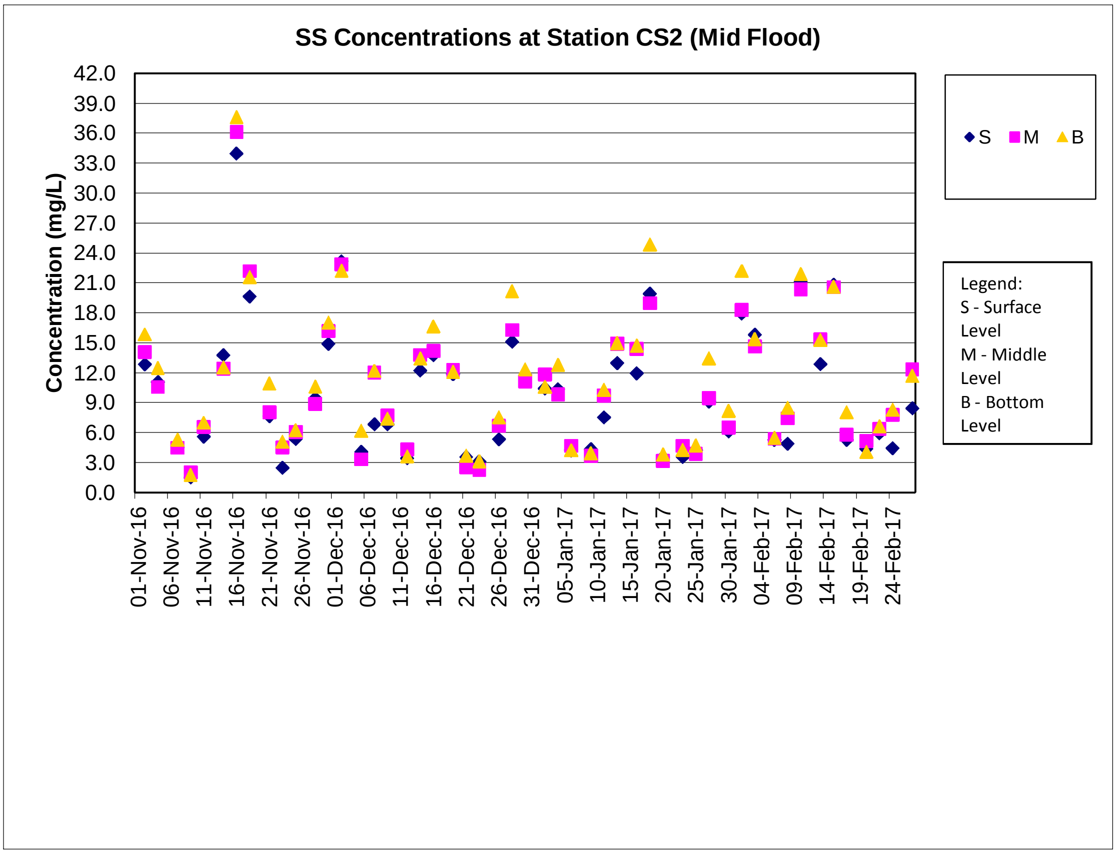

Turbidity Concentrations at Station SR10A (Mid Ebb)
Concentration (NTU)
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

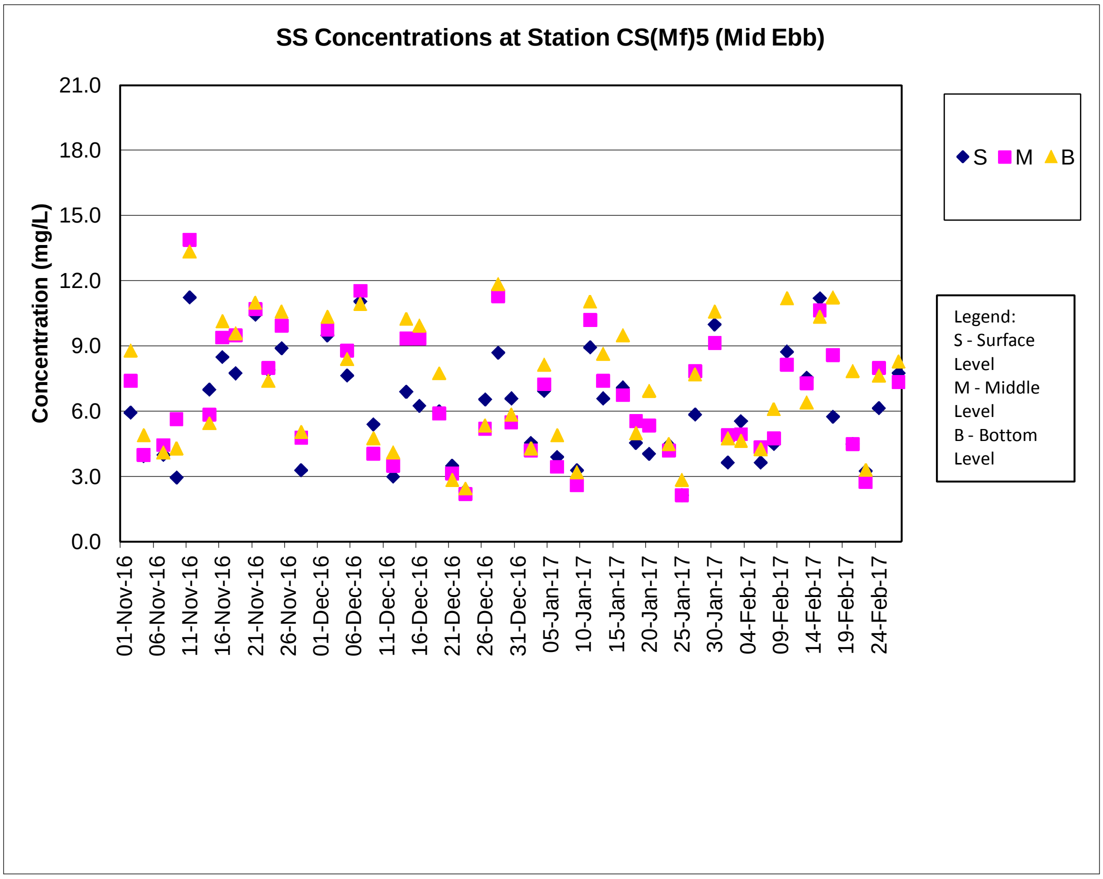

Turbidity Concentrations at Station SR10A (Mid Flood)
Concentration (NTU)
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

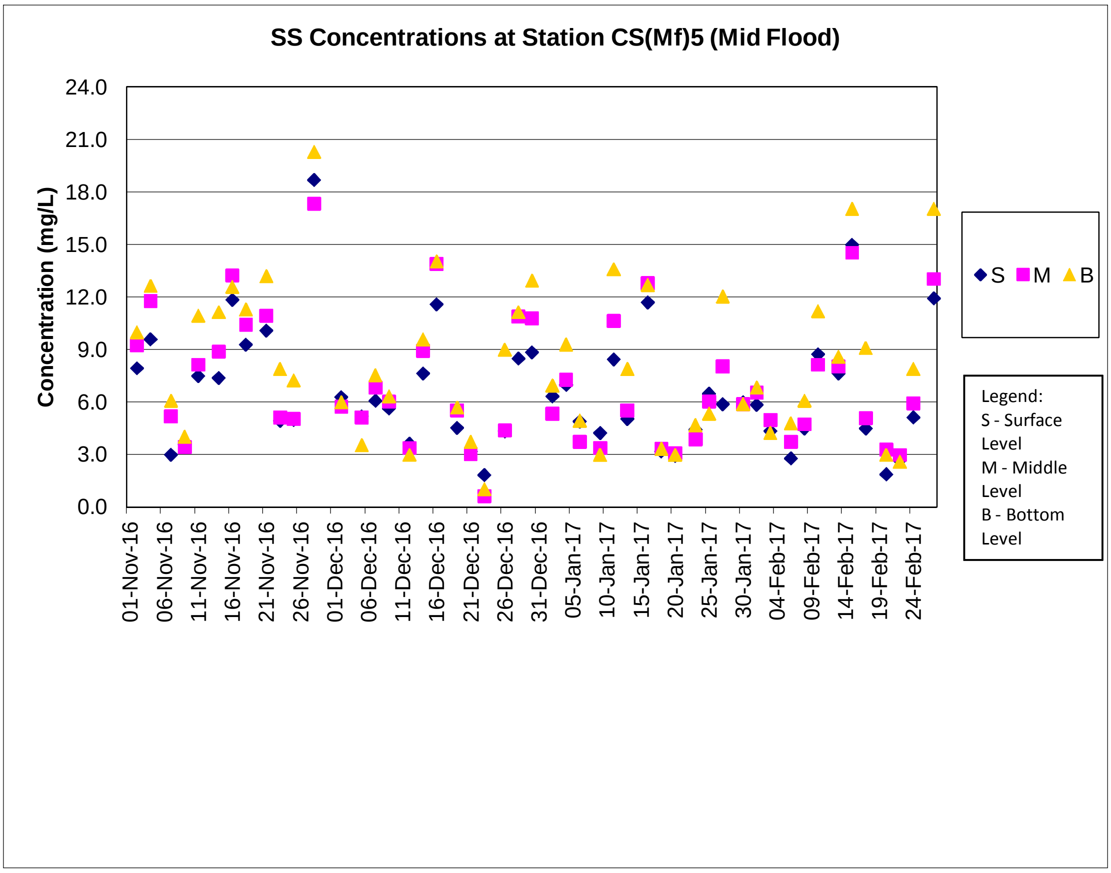

Turbidity Concentrations at Station SR10B (Mid Ebb)

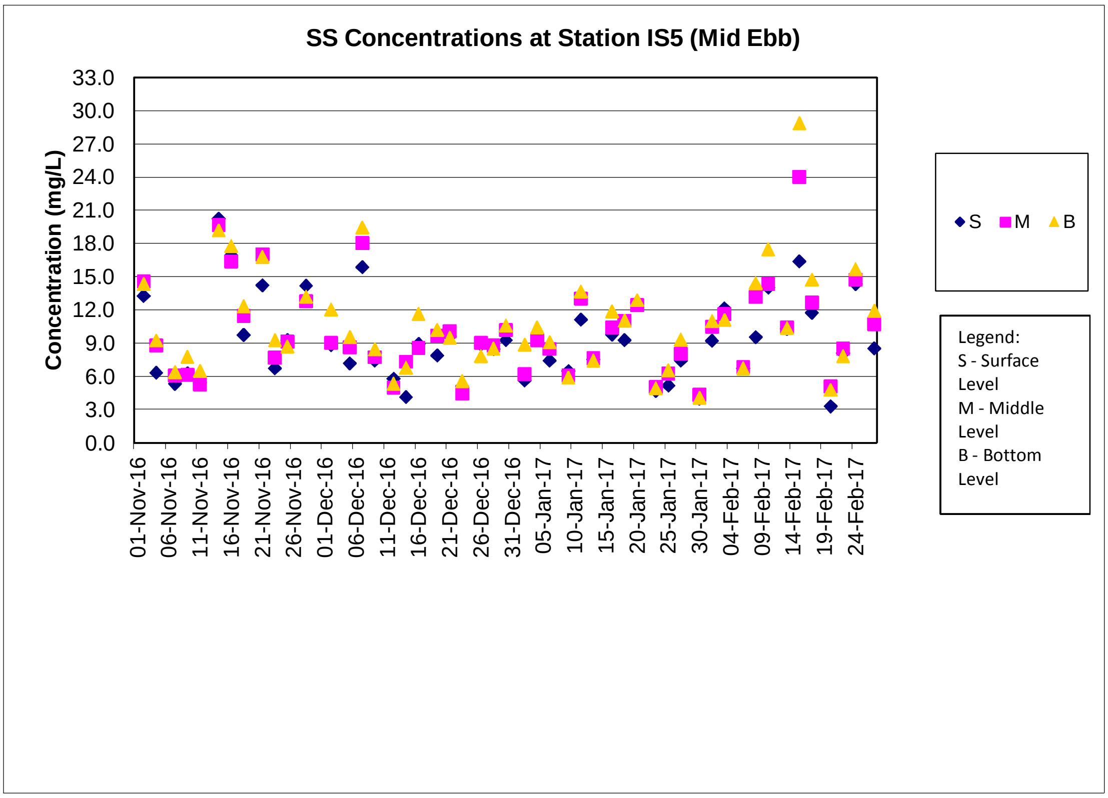

Turbidity Concentrations at Station SR10B (Mid Flood)

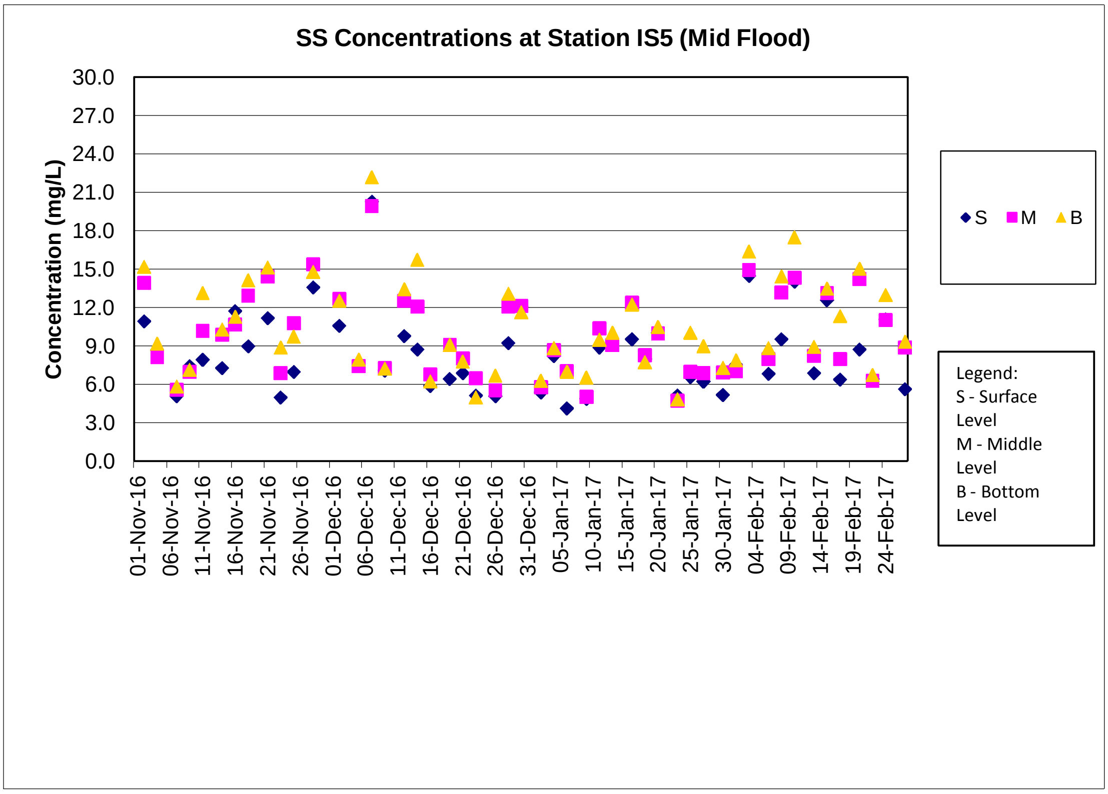

SS Concentrations at Station CS2 (Mid Ebb)
Concentration (mg/L)
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

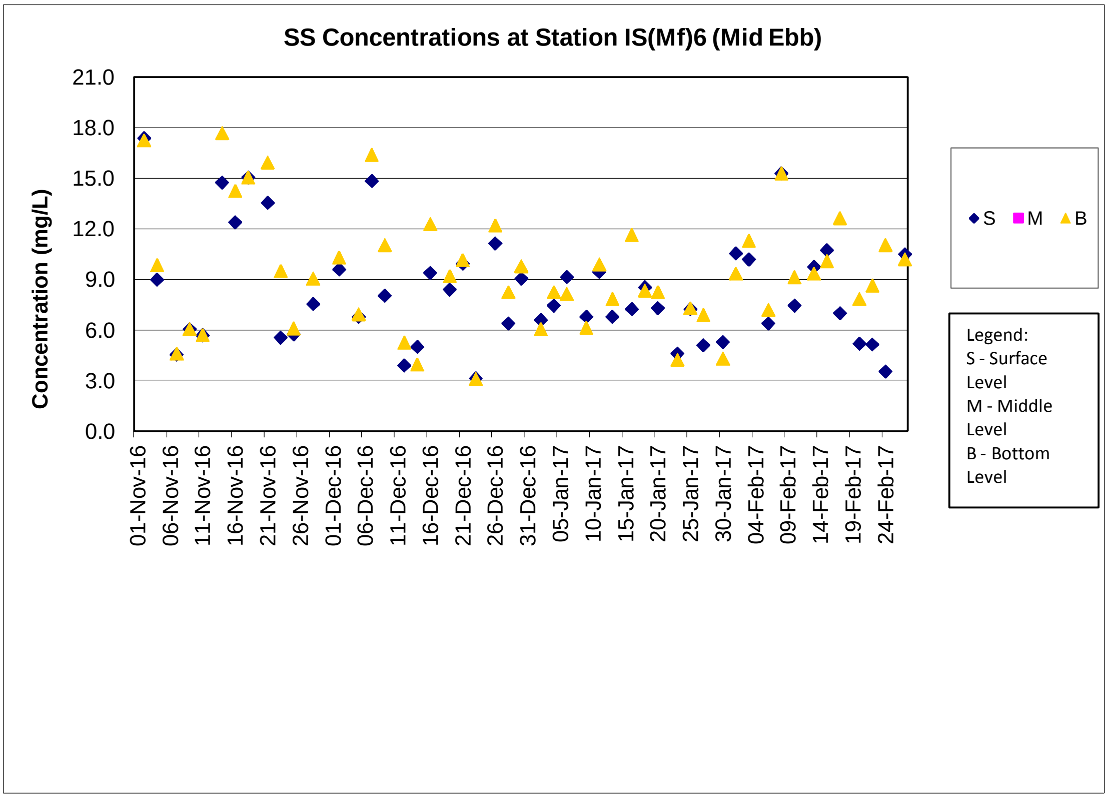

SS Concentrations at Station CS2 (Mid Flood)
Concentration (mg/L)
42.0
39.0
36.0
33.0
30.0
27.0
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

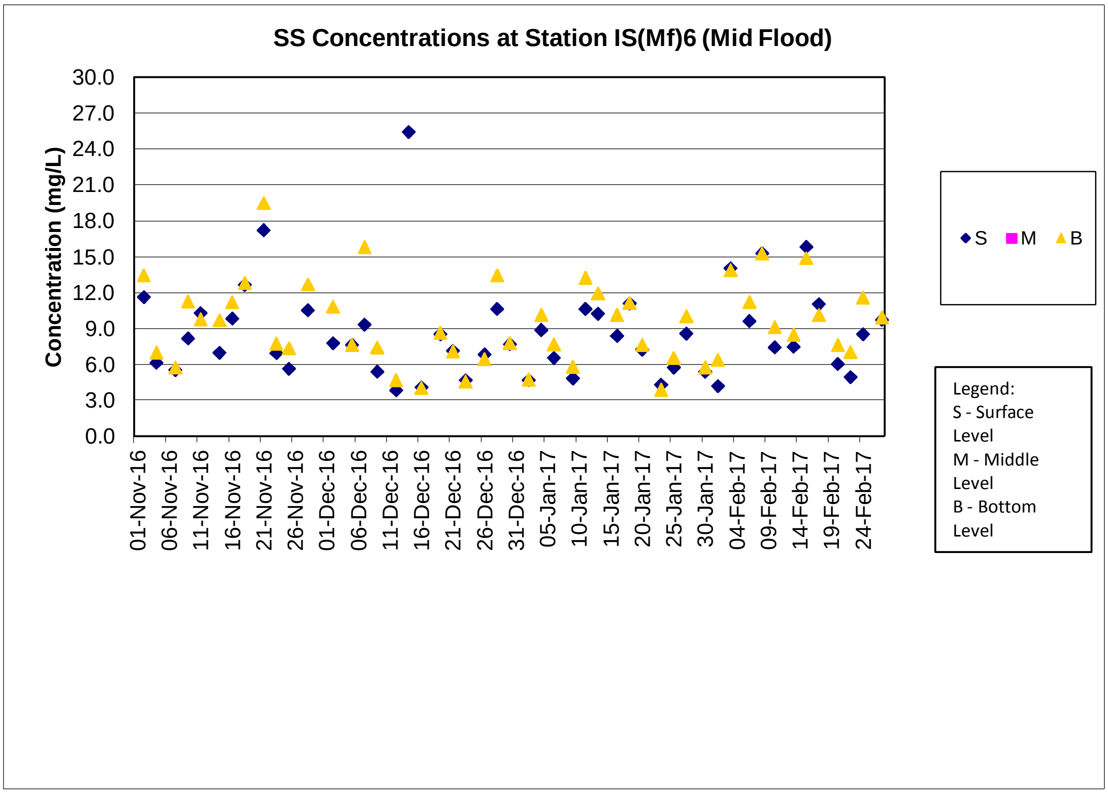

SS Concentrations at Station CS(Mf)5 (Mid Ebb)
Concentration (mg/L)
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

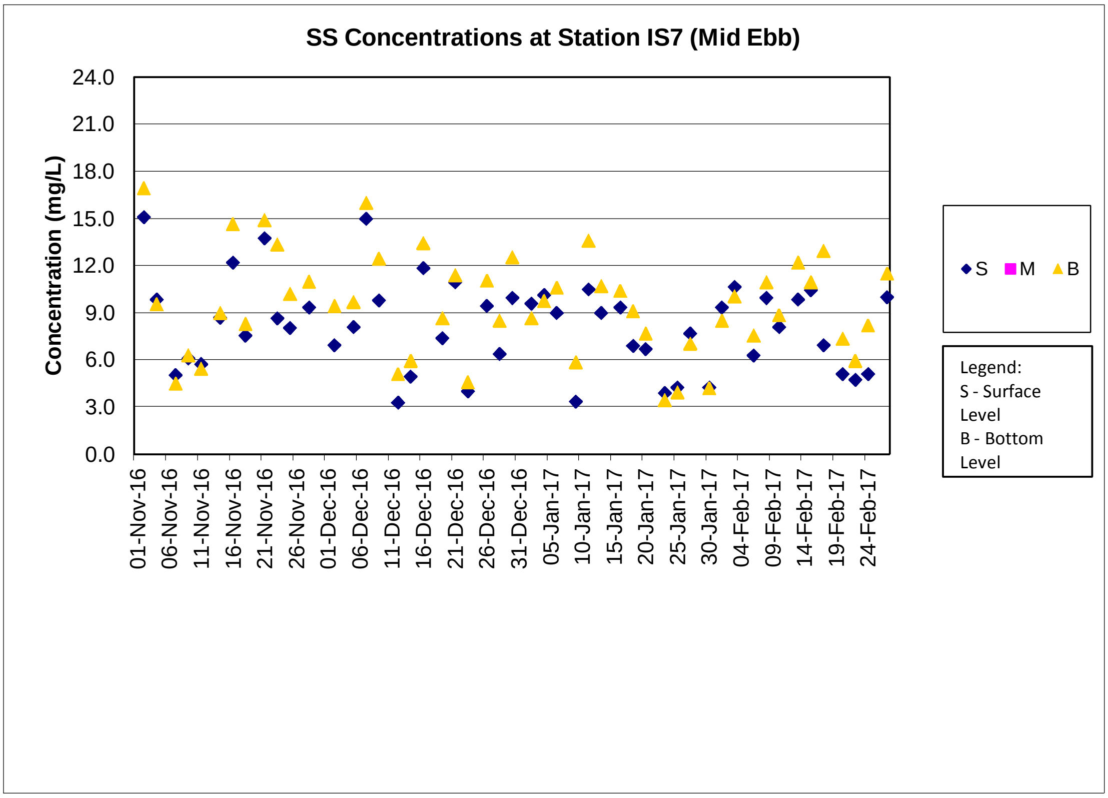

SS Concentrations at Station CS(Mf)5 (Mid Flood)
Concentration (mg/L)
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

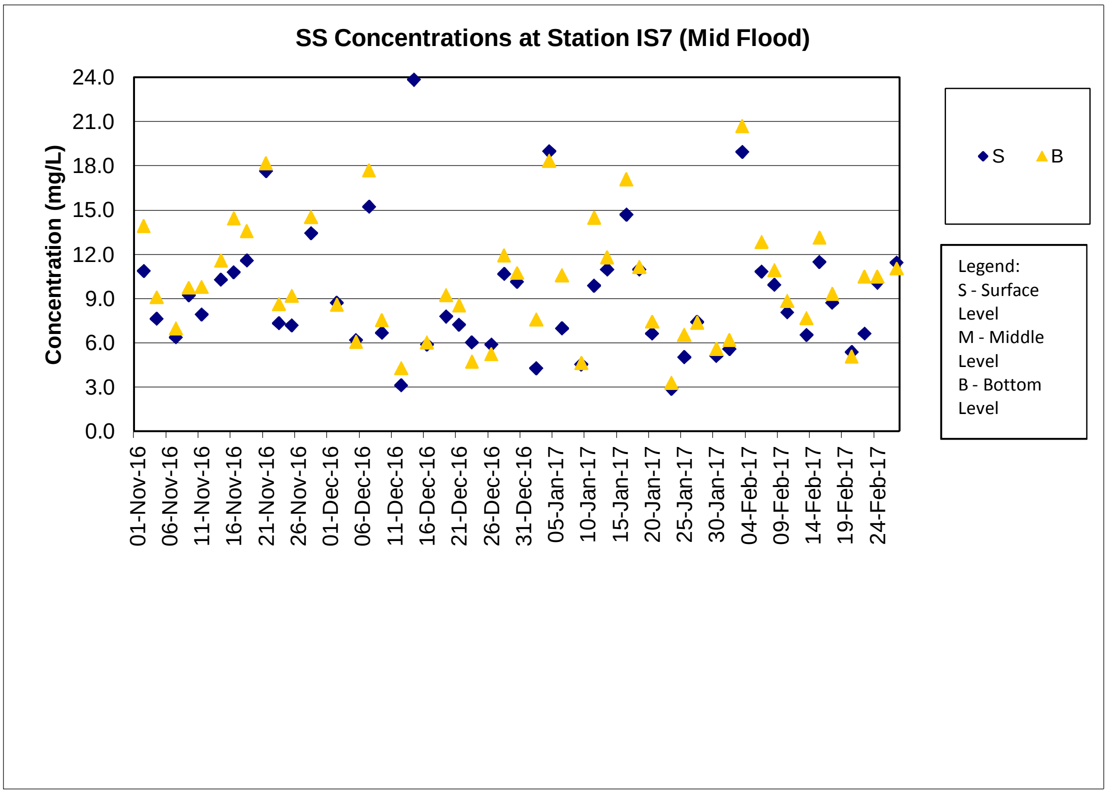

SS Concentrations at Station IS5 (Mid Ebb)
Concentration (mg/L)
33.0
30.0
27.0
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

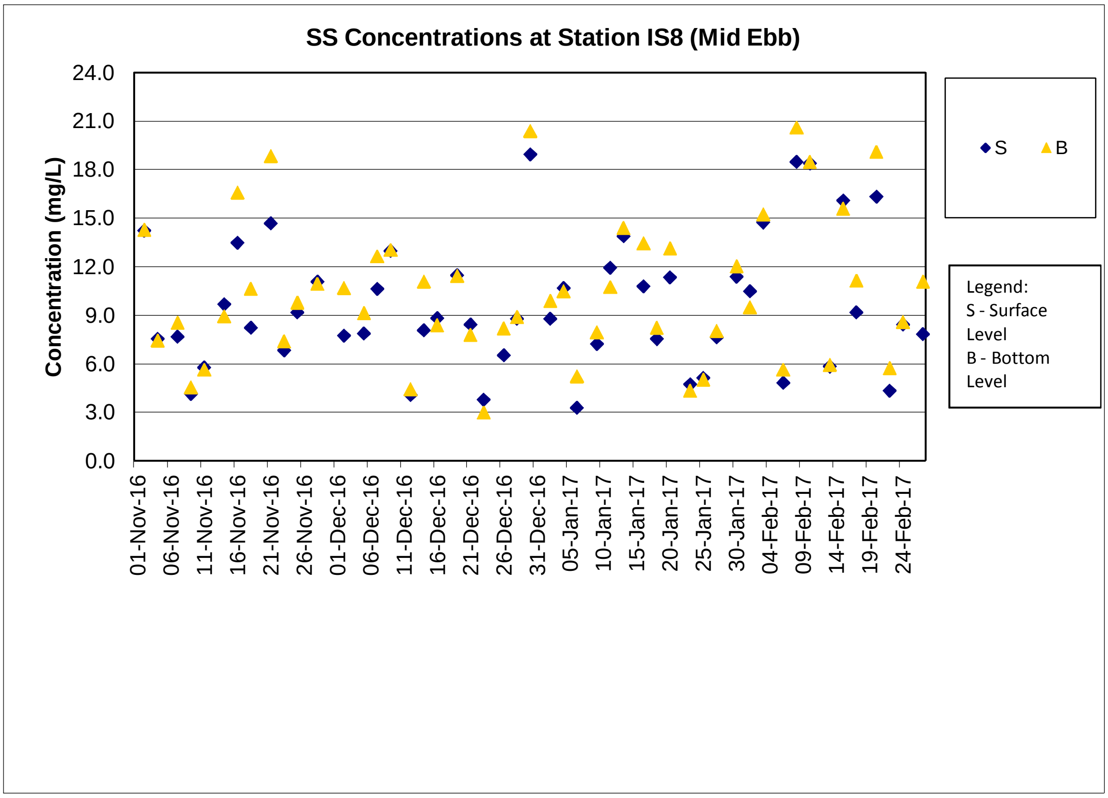

SS Concentrations at Station IS5 (Mid Flood)
Concentration (mg/L)
30.0
27.0
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

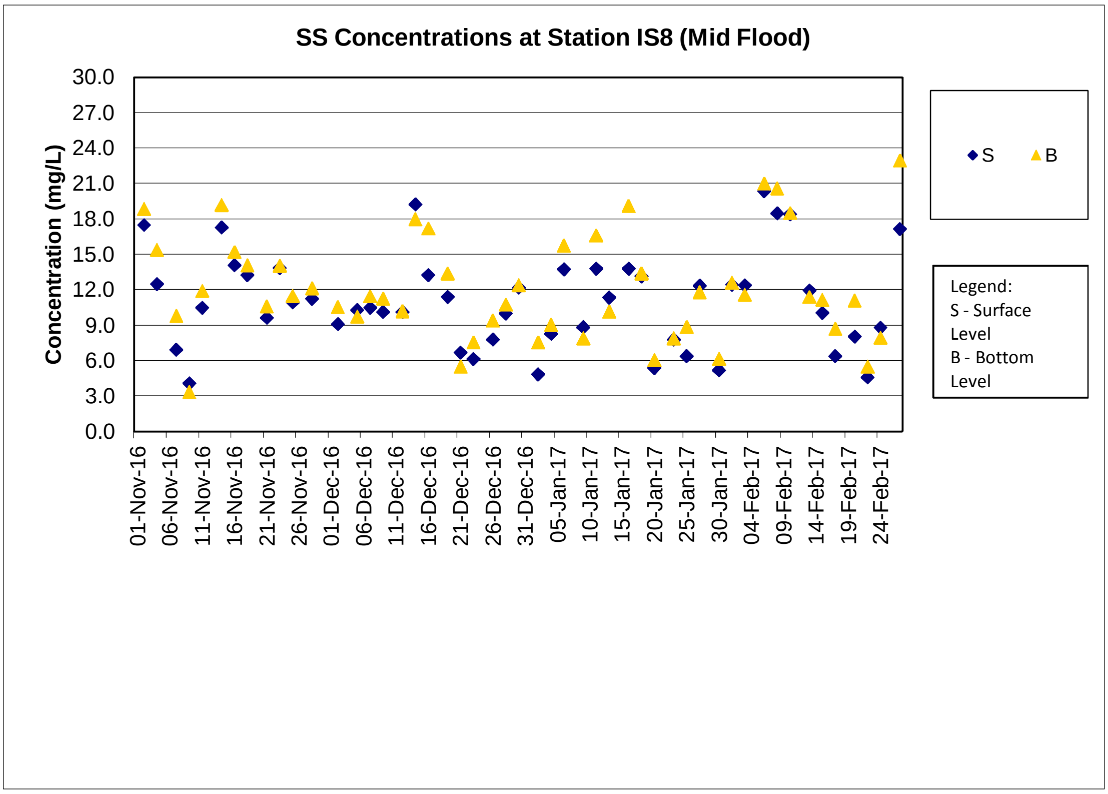

SS Concentrations at Station IS(Mf)6 (Mid Ebb)

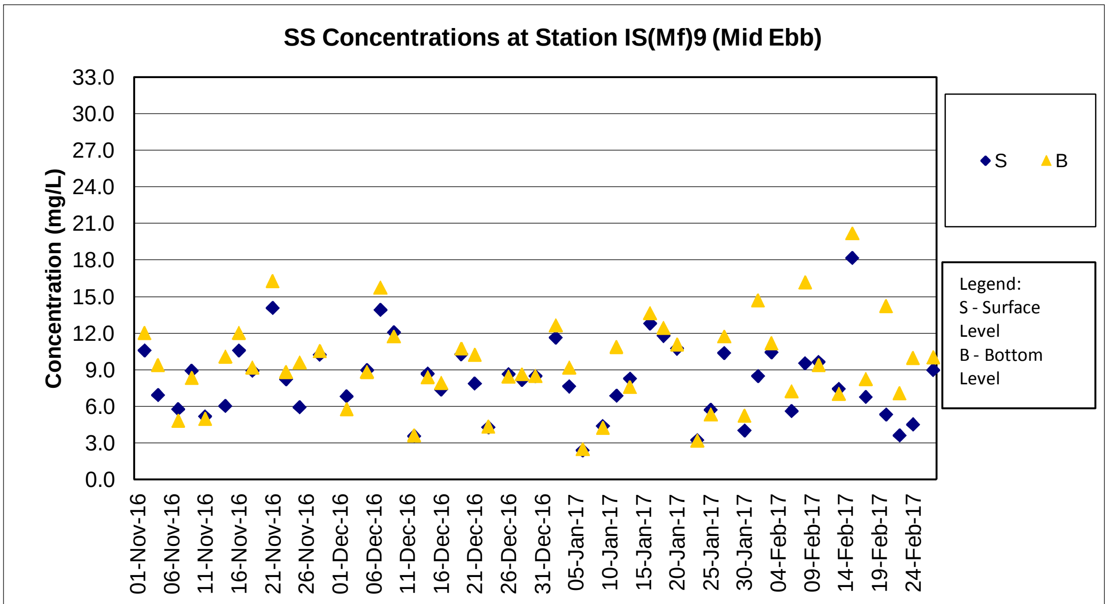

SS Concentrations at Station IS(Mf)6 (Mid Flood)


SS Concentrations at Station IS7 (Mid Ebb)
Concentration (mg/L)
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
B - Bottom Level

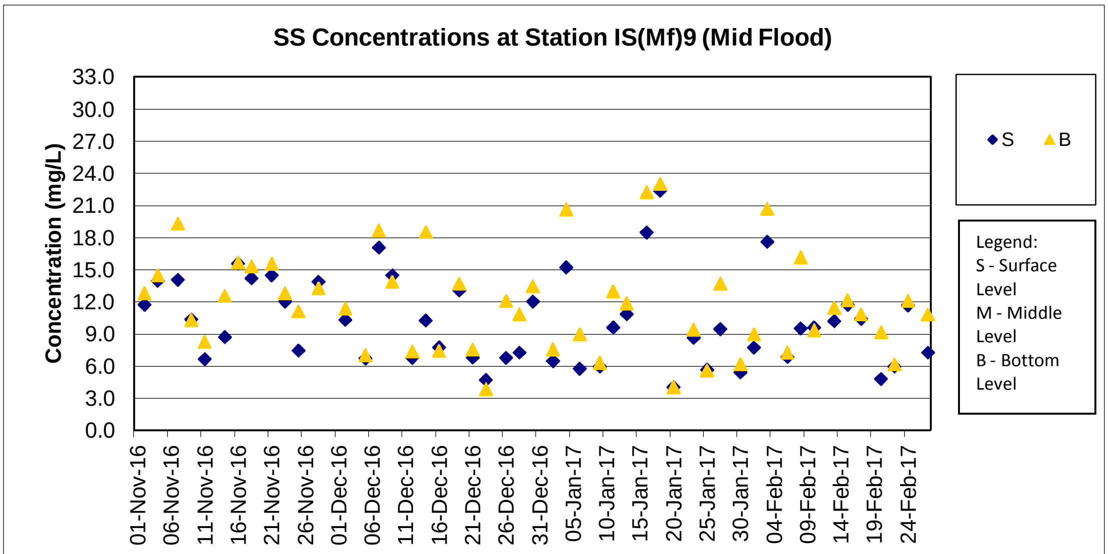

SS Concentrations at Station IS7 (Mid Flood)
Concentration (mg/L)
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level


SS Concentrations at Station IS8 (Mid Ebb)
Concentration (mg/L)
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S
▲B
Legend:
S - Surface Level
B - Bottom Level

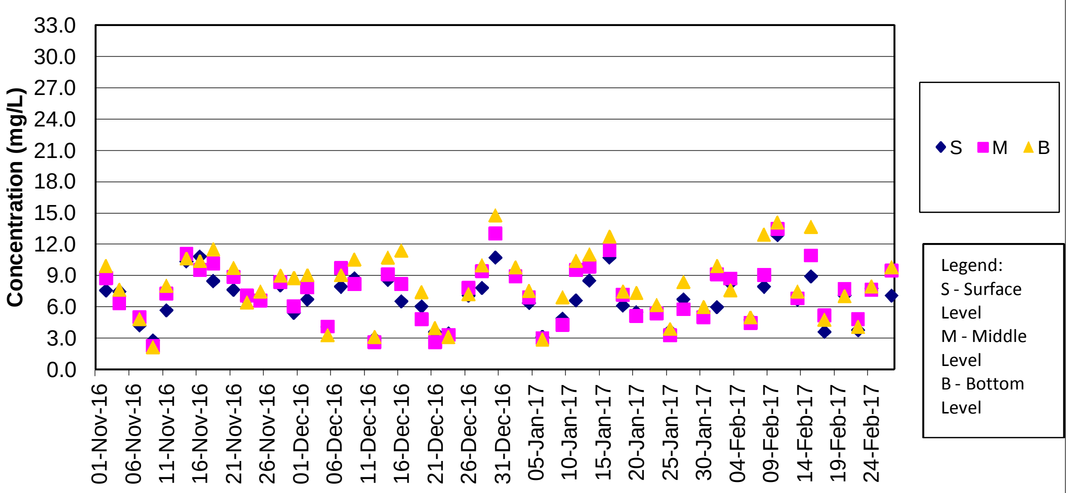

SS Concentrations at Station IS8 (Mid Flood)
Concentration (mg/L)
30.0
27.0
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S
▲B
Legend:
S - Surface Level
B - Bottom Level



Legend:
S - Surface Level
B - Bottom Level

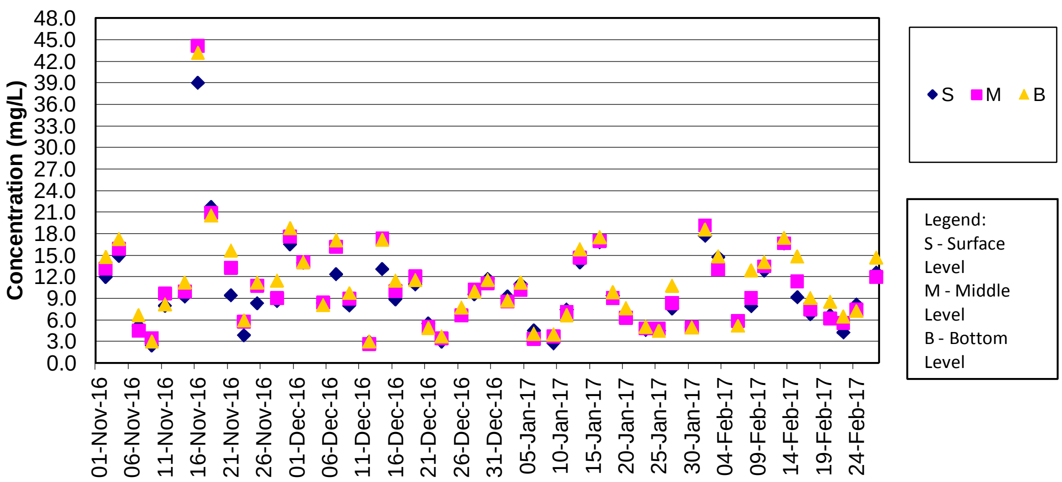


Legend:
S - Surface Level
M - Middle Level
B - Bottom Level



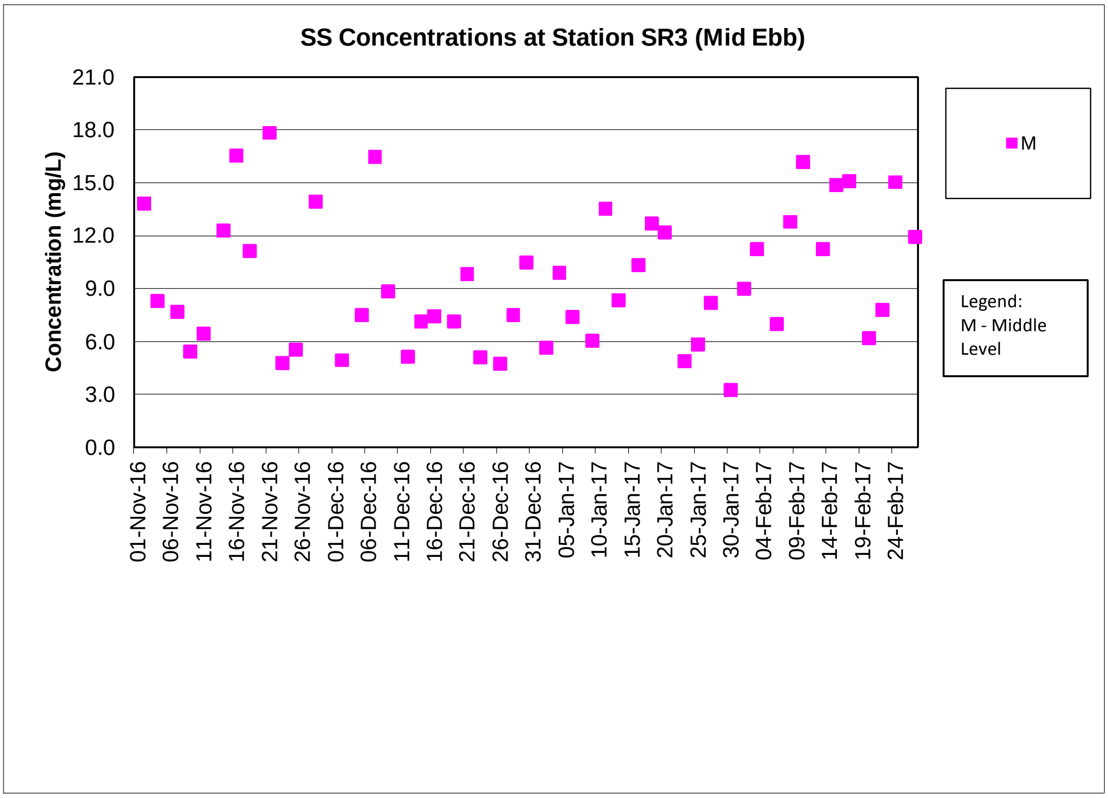
SS Concentrations at Station IS10 / IS10(N) (Mid Ebb)

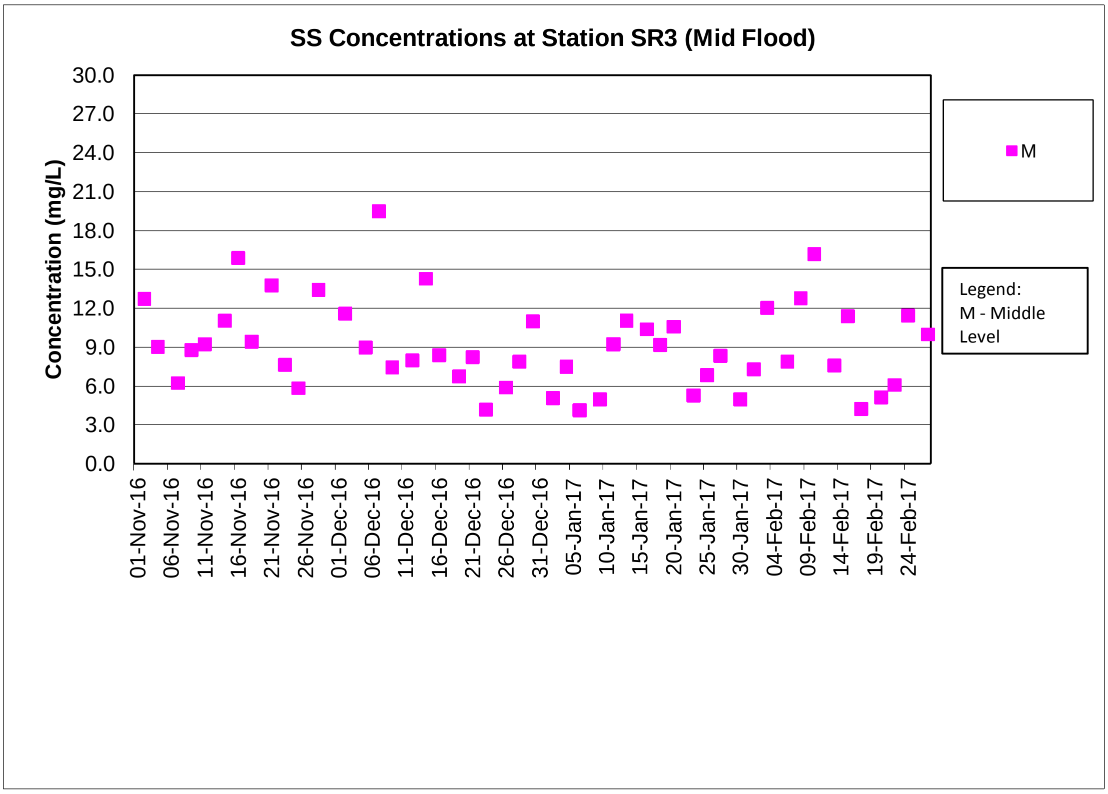
Remark:
1) The previously granted Vessel's Entry Permit for accessing station IS10 (Coordinate: 812577E, 820670N) were expired on 31 December 2016. During the permit renewing process, the water quality monitoring location was shifted to IS10(N) (Coordinate: 813060E, 820540N) on 2, 4 and 6 Jan 2017 temporarily. The permit has been granted by Marine Department on 6 Jan 2017. Thus, the impact water quality monitoring works at original monitoring location of IS10 has been resumed since 9 Jan 2017.

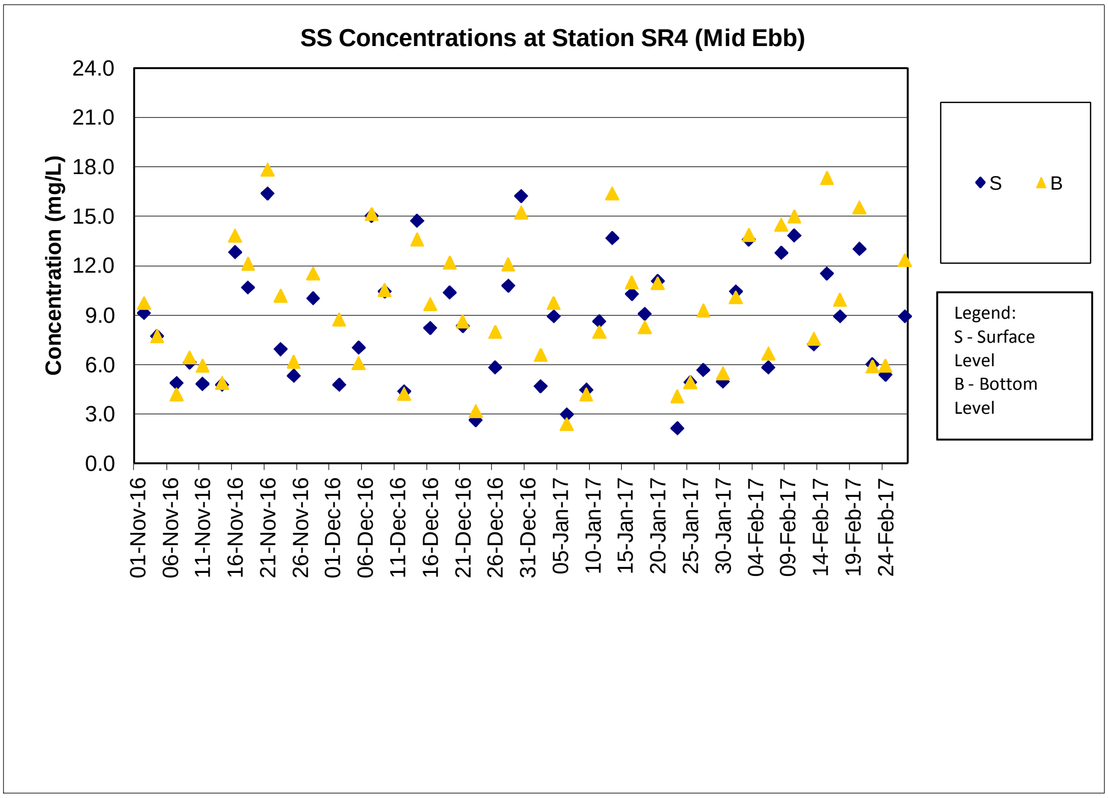


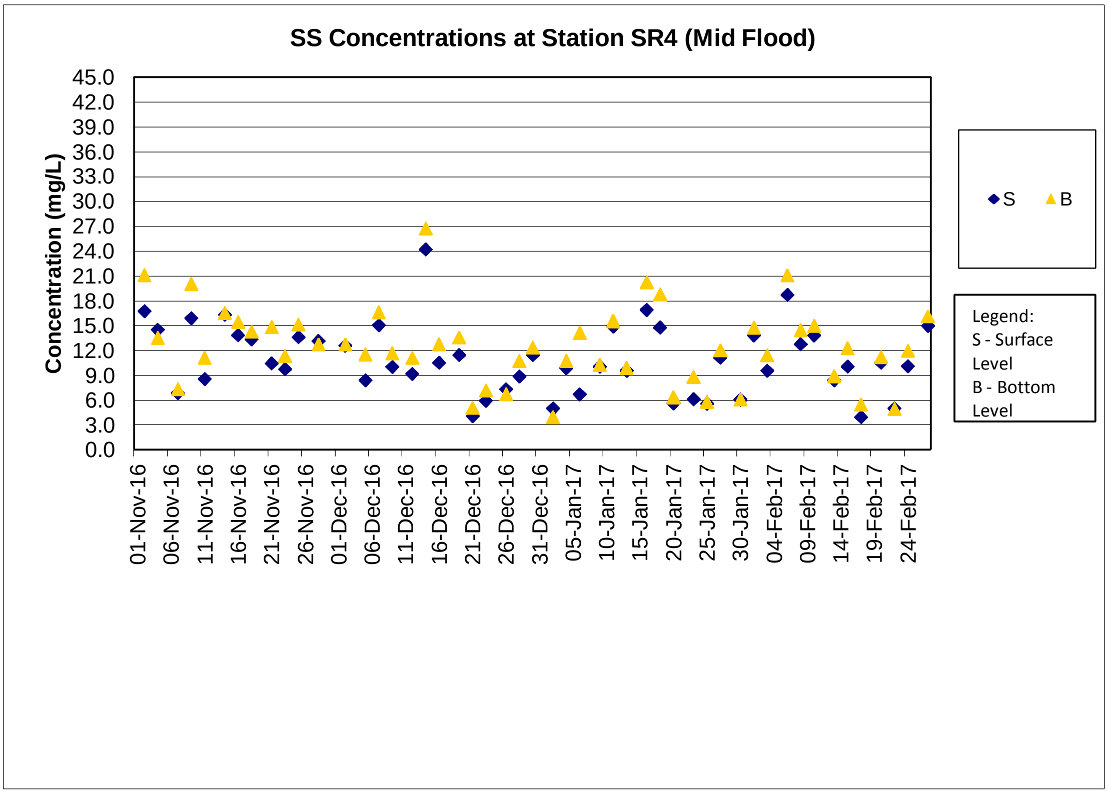
SS Concentrations at Station IS10 / IS10(N) (Mid Flood)

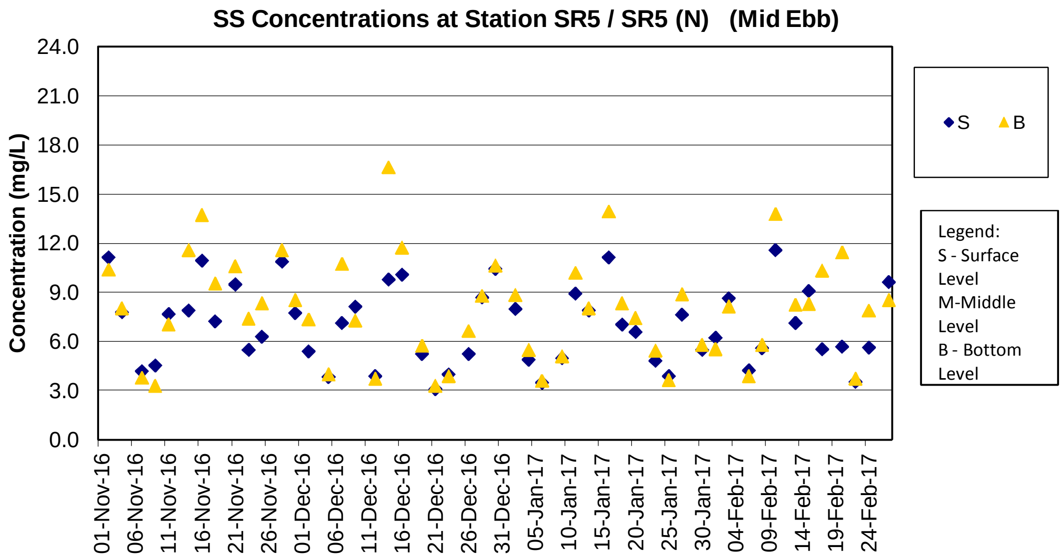
Remark:
1) The previously granted Vessel's Entry Permit for accessing station IS10 (Coordinate: 812577E, 820670N) were expired on 31 December 2016. During the permit renewing process, the water quality monitoring location was shifted to IS10(N) (Coordinate: 813060E, 820540N) on 2, 4 and 6 Jan 2017 temporarily. The permit has been granted by Marine Department on 6 Jan 2017. Thus, the impact water quality monitoring works at original monitoring location of IS10 has been resumed since 9 Jan 2017.


SS Concentrations at Station SR3 (Mid Ebb)
Concentration (mg/L)
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
■ M
Legend:
M - Middle Level


SS Concentrations at Station SR3 (Mid Flood)
Concentration (mg/L)
30.0
27.0
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
■ M
Legend:
M - Middle Level

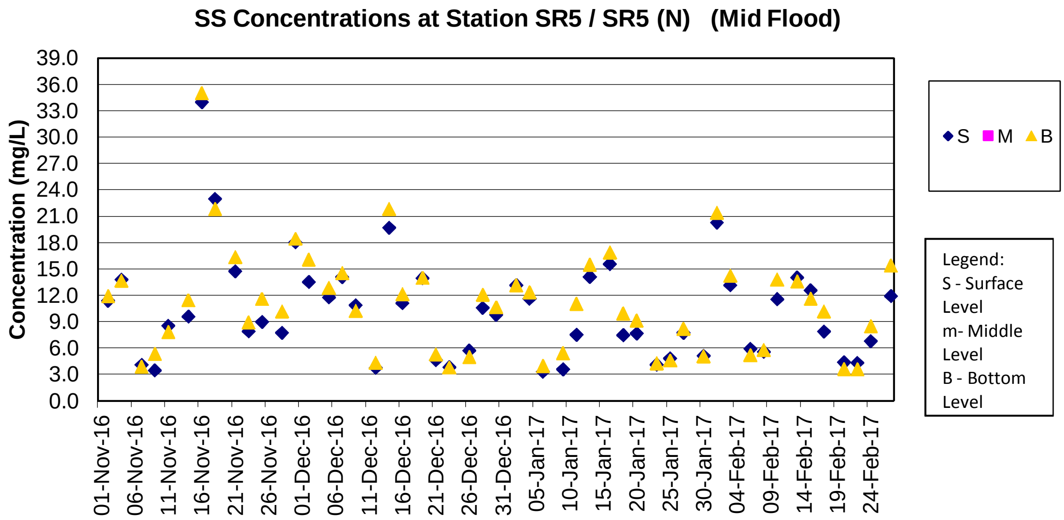

SS Concentrations at Station SR4 (Mid Ebb)
Concentration (mg/L)
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆ S
▲ B
Legend:
S - Surface Level
B - Bottom Level


SS Concentrations at Station SR4 (Mid Flood)
Concentration (mg/L)
45.0
42.0
39.0
36.0
33.0
30.0
27.0
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆ S
▲ B
Legend:
S - Surface Level
B - Bottom Level



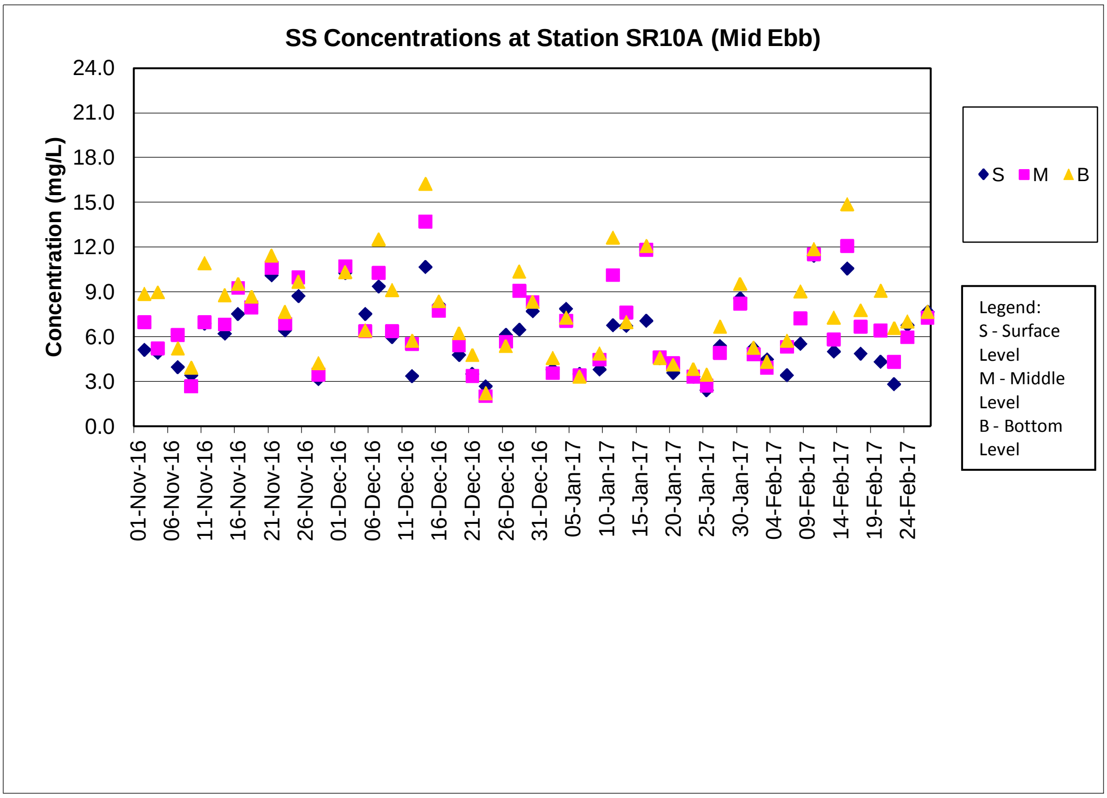
Remark:

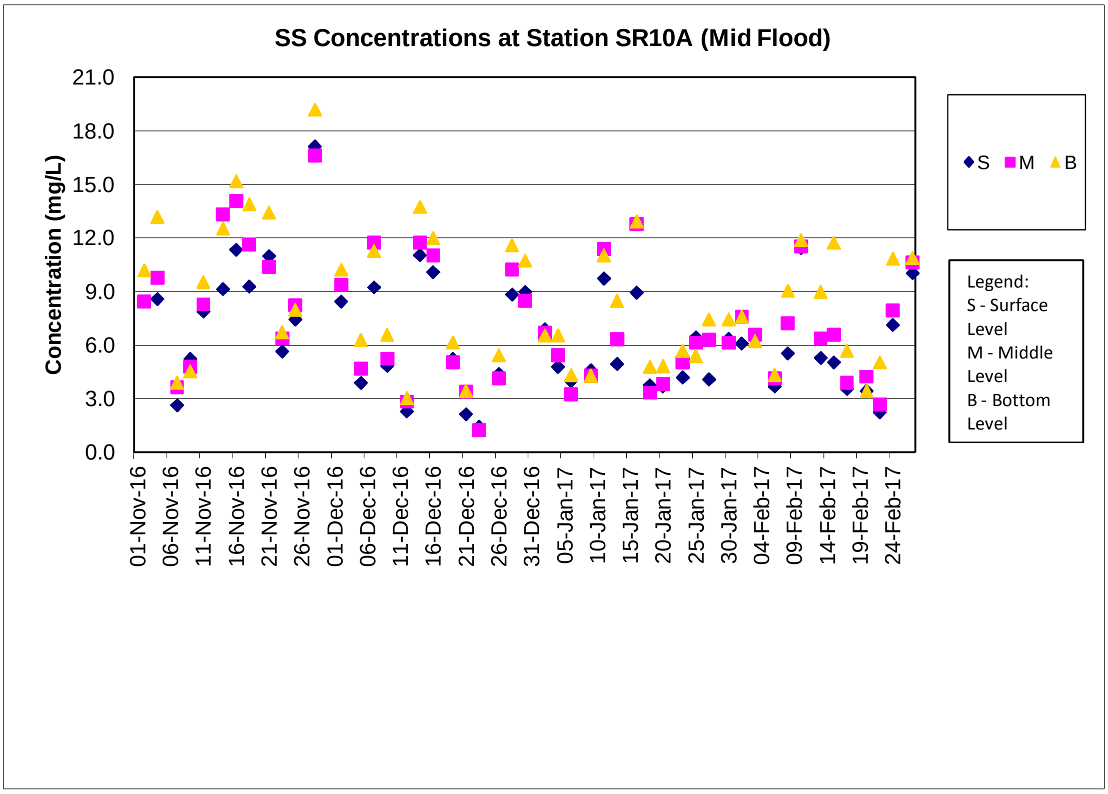
1) The previously granted Vessel's Entry Permit for accessing station SR5 (811489E, 820455N) were expired on 31 Dec 2016. During the permit renewing process, the water quality monitoring location was shifted to SR5(N) (Coordinate: 811430E, 820978N) on 2, 4 and 6 January 2017 temporarily. The permit has been granted by Marine Department on 6 Jan 2017. Thus, the impact water quality monitoring works at original monitoring location of SR5 has been resumed since 9 Jan 2017.

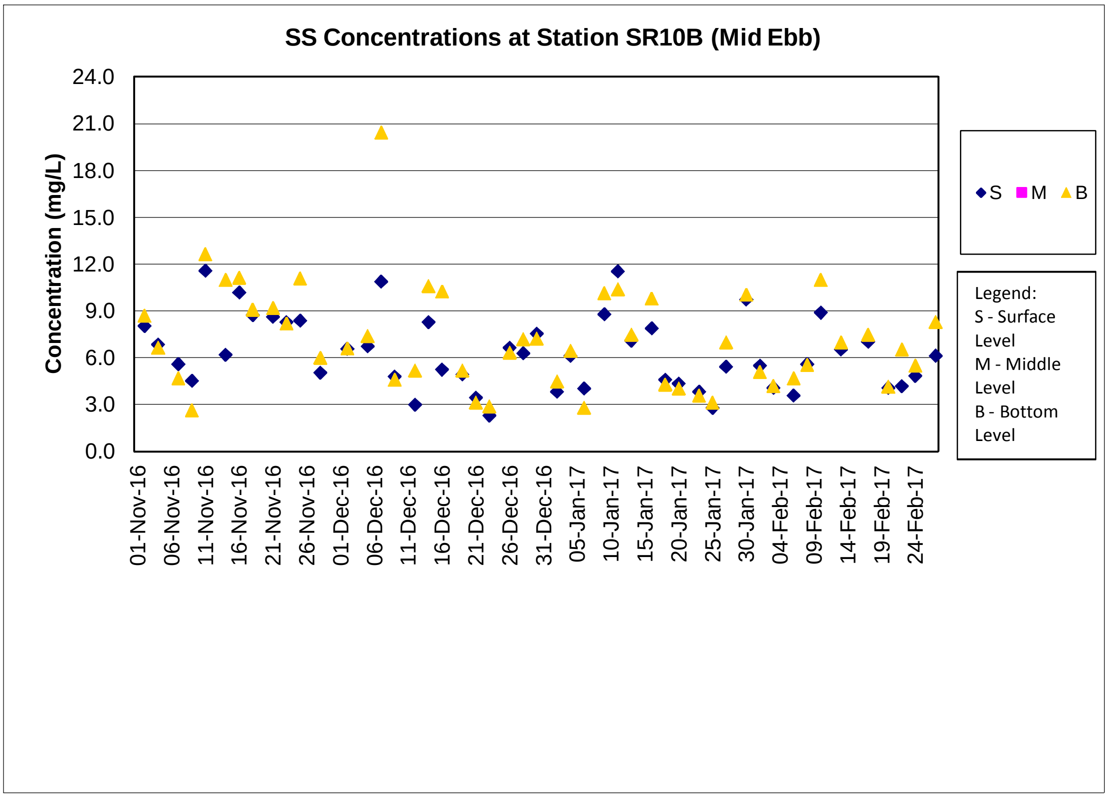


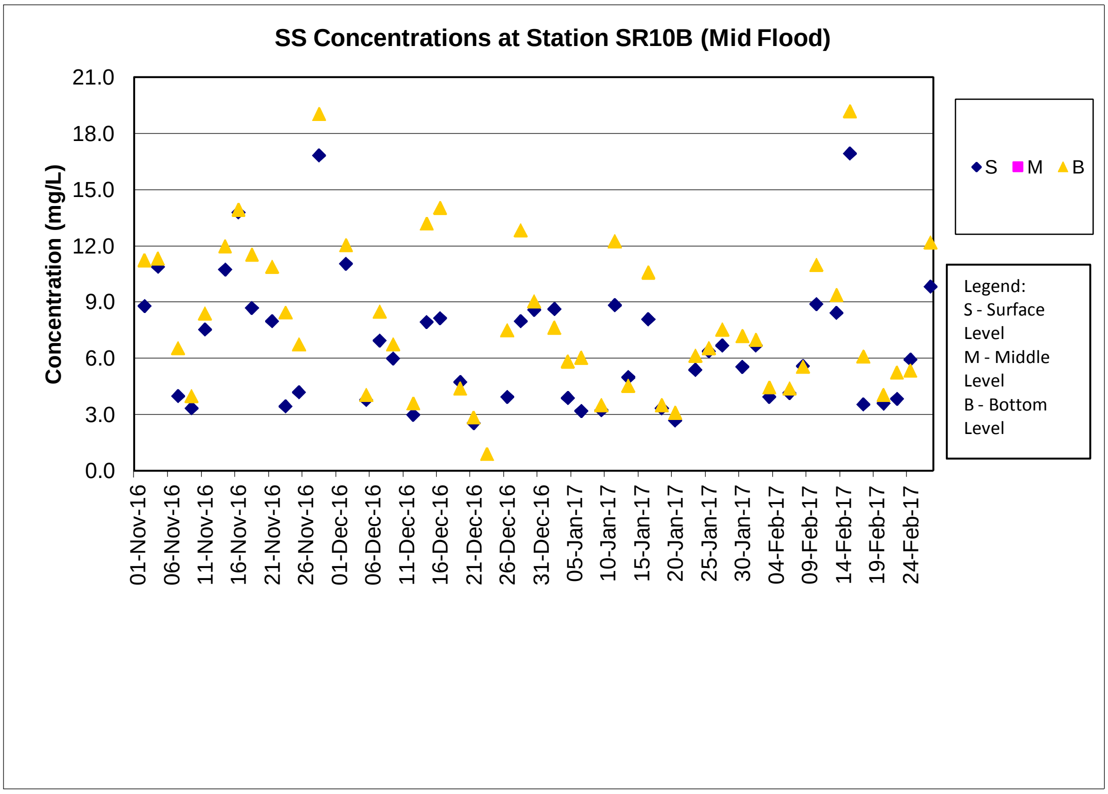
Remark:

1) The previously granted Vessel's Entry Permit for accessing station SR5 (811489E, 820455N) were expired on 31 Dec 2016. During the permit renewing process, the water quality monitoring location was shifted to SR5(N) (Coordinate: 811430E, 820978N) on 2, 4 and 6 January 2017 temporarily. The permit has been granted by Marine Department on 6 Jan 2017. Thus, the impact water quality monitoring works at original monitoring location of SR5 has been resumed since 9 Jan 2017.


SS Concentrations at Station SR10A (Mid Ebb)
Concentration (mg/L)
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level


SS Concentrations at Station SR10A (Mid Flood)
Concentration (mg/L)
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level


SS Concentrations at Station SR10B (Mid Ebb)
Concentration (mg/L)
24.0
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level


SS Concentrations at Station SR10B (Mid Flood)
Concentration (mg/L)
21.0
18.0
15.0
12.0
9.0
6.0
3.0
0.0
01-Nov-16
06-Nov-16
11-Nov-16
16-Nov-16
21-Nov-16
26-Nov-16
01-Dec-16
06-Dec-16
11-Dec-16
16-Dec-16
21-Dec-16
26-Dec-16
31-Dec-16
05-Jan-17
10-Jan-17
15-Jan-17
20-Jan-17
25-Jan-17
30-Jan-17
04-Feb-17
09-Feb-17
14-Feb-17
19-Feb-17
24-Feb-17
◆S ■M ▲B
Legend:
S - Surface Level
M - Middle Level
B - Bottom Level

APPENDIX J

Dolphin Monitoring Results

Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and Hong Kong Boundary Crossing Facilities Dolphin Monitoring

18th Quarterly Progress Report (December 2016-February 2017)
submitted to China State Construction Engineering (HK) Ltd.

Submitted by
Samuel K.Y. Hung, Ph.D., Hong Kong Cetacean Research Project

June 4, 2017

1. Introduction

1.1. The Hong Kong Link Road (HKLR) serves to connect the Hong Kong-Zhuhai-Macao Bridge (HZMB) Main Bridge at the Hong Kong Special Administrative Region (HKSAR) Boundary and the HZMB Hong Kong Boundary Crossing Facilities (HKBCF) located at the northeastern waters of the Hong Kong International Airport. The construction of HKLR is separated into two sections, with the construction for the section between Scenic Hill and Hong Kong Boundary Crossing Facilities being commenced in October 2012.

1.2. According to the updated Environmental Monitoring and Audit (EM&A) Manual (for HKLR), monthly line-transect vessel surveys for Chinese White Dolphin should be conducted to cover the Northwest and Northeast Lantau survey areas as in AFCD annual marine mammal monitoring programme.

1.3. In October 2012, Hong Kong Cetacean Research Project (HKCRP) has been commissioned to conduct this 54-month dolphin monitoring study in order to collect data on Chinese White Dolphins during the construction phase (i.e. impact period) of the HKLR03 project in Northwest Lantau (NWL) and Northeast Lantau (NEL) survey areas, and to analyze the collected survey data to monitor distribution, encounter rate, activities and occurrence of dolphin calves. Photo-identification will also be collected from individual Chinese White Dolphins to examine their individual range patterns.

1.4. From the monitoring results, any changes in dolphin occurrence within the study area will be examined for possible causes, and appropriate actions and additional mitigation measures will be recommended as necessary.

1.5. This report is the 18th quarterly progress report under the HKLR03 construction phase dolphin monitoring programme submitted to the China State Construction Engineering (HK) Limited, summarizing the results of the surveys findings during the period of December 2016 to February 2017.

2. Monitoring Methodology

2.1. Vessel-based Line-transect Survey

2.1.1. According to the requirement of the updated EM&A manual, dolphin monitoring programme should cover all transect lines in NEL and NWL survey areas (see Figure 1) twice per month throughout the entire construction period. The co-ordinates of all transect lines are shown in Table 1.

Table 1. Co-ordinates of transect lines

Line No.		Easting	Northing		Line No.		Easting	Northing
1	Start Point	804671	815456		13	Start Point	816506	819480
1	End Point	804671	831404		13	End Point	816506	824859
2	Start Point	805475	815913		14	Start Point	817537	820220
2	End Point	805477	826654		14	End Point	817537	824613
3	Start Point	806464	819435		15	Start Point	818568	820735
3	End Point	806464	822911		15	End Point	818568	824433
4	Start Point	807518	819771		16	Start Point	819532	821420
4	End Point	807518	829230		16	End Point	819532	824209
5	Start Point	808504	820220		17	Start Point	820451	822125
5	End Point	808504	828602		17	End Point	820451	823671
6	Start Point	809490	820466		18	Start Point	821504	822371
6	End Point	809490	825352		18	End Point	821504	823761

7	Start Point	810499	820880		19	Start Point	822513	823268
7	End Point	810499	824613		19	End Point	822513	824321
8	Start Point	811508	821123		20	Start Point	823477	823402
8	End Point	811508	824254		20	End Point	823477	824613
9	Start Point	812516	821303		21	Start Point	805476	827081
9	End Point	812516	824254		21	End Point	805476	830562
10	Start Point	813525	820872		22	Start Point	806464	824033
10	End Point	813525	824657		22	End Point	806464	829598
11	Start Point	814556	818853		23	Start Point	814559	821739
11	End Point	814556	820992		23	End Point	814559	824768
12	Start Point	815542	818807					
12	End Point	815542	824882					

2.1.2. The survey team used standard line-transect methods (Buckland et al. 2001) to conduct the systematic vessel surveys, and followed the same technique of data collection that has been adopted over the last 19 years of marine mammal monitoring surveys in Hong Kong developed by HKCRP (see Hung 2015, 2016). For each monitoring vessel survey, a 15-m inboard vessel with an open upper deck (about 4.5 m above water surface) was used to make observations from the flying bridge area.

2.1.3. Two experienced observers (a data recorder and a primary observer) made up the on-effort survey team, and the survey vessel transited different transect lines at a constant speed of 13-15 km per hour. The data recorder searched with unaided eyes and filled out the datasheets, while the primary observer searched for dolphins and porpoises continuously through 7 x 50 *Fujinon* marine binoculars. Both observers searched the sea ahead of the vessel, between 270° and 90° (in relation to the bow, which is defined as 0°). One to two additional experienced observers were available on the boat to work in shift (i.e. rotate every 30 minutes) in order to minimize fatigue of the survey team members. All observers were experienced in small cetacean survey techniques and identifying local cetacean species.

2.1.4. During on-effort survey periods, the survey team recorded effort data including time, position (latitude and longitude), weather conditions (Beaufort sea state and visibility), and distance traveled in each series (a continuous period of search effort) with the assistance of a handheld GPS (*Garmin eTrex Legend*).

2.1.5. Data including time, position and vessel speed were also automatically and continuously logged by handheld GPS throughout the entire survey for subsequent review.

2.1.6. When dolphins were sighted, the survey team would end the survey effort, and immediately record the initial sighting distance and angle of the dolphin group from the survey vessel, as well as the sighting time and position. Then the research vessel was diverted from its course to approach the animals for species identification, group size estimation, assessment of group composition, and behavioural observations. The perpendicular distance (PSD) of the dolphin group to the transect line was later calculated from the initial sighting distance and angle.

2.1.7. Survey effort being conducted along the parallel transect lines that were perpendicular to the coastlines (as indicated in Figure 1) was labeled as “primary” survey effort, while the survey effort conducted along the connecting lines between parallel lines was labeled as “secondary” survey effort. According to HKCRP long-term dolphin monitoring data, encounter rates of Chinese white dolphins deduced from effort and sighting data collected along primary and secondary lines were similar in NEL and NWL survey areas (Hung 2013). Therefore, both primary and secondary survey effort were presented as on-effort survey effort in this report.

2.2. Photo-identification Work

2.2.1. When a group of Chinese White Dolphins were sighted during the line-transect survey, the survey team would end effort and approach the group slowly from the side and behind to take photographs of them. Every attempt was made to photograph every dolphin in the group, and even photograph both sides of the dolphins, since the colouration and markings on both sides may not be symmetrical.

2.2.2. One to two professional digital cameras (*Canon* EOS 7D and/or 60D models), each equipped with long telephoto lenses (100-400 mm zoom), were available on board for researchers to take sharp, close-up photographs of dolphins as they surfaced. The images were shot at the highest available resolution and stored on Compact Flash memory cards for downloading onto a computer.

2.2.3. All digital images taken in the field were first examined, and those containing potentially identifiable individuals were sorted out. These photographs would then be examined in greater detail, and were carefully compared to the existing Chinese White Dolphin photo-identification catalogue maintained by HKCRP since 1995.

2.2.4. Chinese White Dolphins can be identified by their natural markings, such as nicks, cuts, scars and deformities on their dorsal fin and body, and their unique spotting patterns were also used as secondary identifying features (Jefferson 2000).

2.2.5. All photographs of each individual were then compiled and arranged in chronological order, with data including the date and location first identified (initial sighting), re-sightings, associated dolphins, distinctive features, and age classes entered into a computer database.

2.3. Data analysis

2.3.1. Distribution Analysis – The line-transect survey data was integrated with the Geographic Information System (GIS) in order to visualize and interpret different spatial and temporal patterns of dolphin distribution using sighting positions. Location data of dolphin groups were plotted on map layers of Hong Kong using a desktop GIS (ArcView© 3.1) to examine their distribution patterns in details. The dataset was also stratified into different subsets to examine distribution patterns of dolphin groups with different categories of group sizes, young calves and activities.

2.3.2. Encounter rate analysis – Encounter rates of Chinese white dolphins (number of on-effort sightings per 100 km of survey effort, and total number of dolphins sighted on-effort per 100 km of survey effort) were calculated in NEL and NWL survey areas in relation to the amount of survey effort conducted during each month of monitoring survey. Dolphin encounter rates were calculated in two ways for comparisons with the HZMB baseline monitoring results as well as to AFCD long-term marine mammal monitoring results.

Firstly, for the comparison with the HZMB baseline monitoring results, the encounter rates were calculated using primary survey effort alone, and only data collected under Beaufort 3 or below condition would be used for encounter rate analysis. The average encounter rate of sightings (STG) and average encounter rate of dolphins (ANI) were deduced based on the encounter rates from six events during the present quarter (i.e. six sets of line-transect surveys in North Lantau), which was also compared with the one deduced from the six events during the baseline period (i.e. six sets of line-transect surveys in North Lantau).

Secondly, the encounter rates were calculated using both primary and secondary survey effort collected under Beaufort 3 or below condition as in AFCD long-term monitoring study. The encounter rate of sightings and dolphins were deduced by dividing the total number of on-effort sightings (STG) and total number of dolphins (ANI) by the amount of survey effort for the present quarterly period.

2.3.3. Quantitative grid analysis on habitat use – To conduct quantitative grid analysis of habitat use, positions of on-effort sightings of Chinese White Dolphins collected during the quarterly impact phase monitoring period were plotted onto 1-km^2 grids among NWL and NEL survey areas on GIS. Sighting densities (number of on-effort sightings per km^2) and dolphin densities (total number of dolphins from on-effort sightings per km^2) were then calculated for each 1 km by 1 km grid with the aid of GIS. Sighting density grids and dolphin density grids were then further normalized with the amount of survey effort conducted within each grid. The total amount of survey effort spent on each grid was calculated by examining the survey coverage on each line-transect survey to determine how many times the grid was surveyed during the study period. For example, when the survey boat traversed through a specific grid 50 times, 50 units of survey effort were counted for that grid. With the amount of survey effort calculated for each grid, the sighting density and dolphin density of each grid were then normalized (i.e. divided by the unit of survey effort).

The newly-derived unit for sighting density was termed SPSE, representing the number of on-effort **s**ightings **p**er 100 units of **s**urvey **e**ffort. In addition, the derived unit for actual dolphin density was termed DPSE, representing the number of **d**olphins **p**er 100 units of **s**urvey **e**ffort. Among the 1-km^2 grids that were partially covered by land, the percentage of sea area was calculated using GIS tools, and their SPSE and DPSE values were adjusted accordingly.

The following formulae were used to estimate SPSE and DPSE in each 1-km^2 grid within the study area:

$$SPSE = ((S / E) \times 100) / SA\%$$
$$DPSE = ((D / E) \times 100) / SA\%$$

where S = total number of on-effort sightings
D = total number of dolphins from on-effort sightings
E = total number of units of survey effort
SA% = percentage of sea area

2.3.4. Behavioural analysis – When dolphins were sighted during vessel surveys, their behaviour was observed. Different activities were categorized (i.e. feeding, milling/resting, traveling, socializing) and recorded on sighting datasheets. This data was then input into a separate database with sighting information, which can be used to determine the distribution of behavioural data with a desktop GIS. Distribution of sightings of dolphins engaged in different activities and behaviours would then be plotted on GIS and carefully examined to identify important areas for different activities of the dolphins.

2.3.5. Ranging pattern analysis – Location data of individual dolphins that occurred during the 3-month impact phase monitoring period were obtained from the dolphin sighting database and photo-identification catalogue. To deduce home ranges for individual dolphins using the fixed kernel methods, the program Animal Movement Analyst Extension, was loaded as an extension with ArcView© 3.1 along with another extension Spatial Analyst 2.0. Using the fixed kernel method, the program calculated kernel density estimates based on all sighting positions, and provided an active interface to display kernel density plots. The kernel estimator then calculated and displayed the overall ranging area at 95% UD level.

3. Monitoring Results

3.1. Summary of survey effort and dolphin sightings

3.1.1. During the period of December 2016 to February 2017, six sets of systematic line-transect vessel surveys were conducted to cover all transect lines in NWL and NEL survey areas twice per month.

3.1.2. From these surveys, a total of 878.35 km of survey effort was collected, with 86.5% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility). Among the two areas, 340.00 km and 538.35 km of survey effort were conducted in NEL and NWL survey areas respectively.

3.1.3. The total survey effort conducted on primary lines was 632.39 km, while the effort on secondary lines was 245.96 km. Survey effort conducted on both primary and secondary lines were considered as on-effort survey data. A summary table of the survey effort is shown in Appendix I.

3.1.4. During the six sets of monitoring surveys in December 2016 to February 2017, a total of 17 groups of 62 Chinese White Dolphins were sighted. A summary table of the dolphin sightings is shown in Appendix II.

3.1.5. For the present quarterly period, 14 of the 17 dolphin sightings were made during on-effort search, while all except one on-effort dolphin sightings were made on primary lines. In addition, all dolphin groups were sighted in NWL, and no dolphin was sighted at all in NEL. In fact, since August 2014, only two sightings of two lone dolphins were made respectively in NEL during HKLR03 monitoring surveys.

3.2. Distribution

3.2.1. Distribution of dolphin sightings made during monitoring surveys in December 2016 to February 2017 is shown in Figure 1.

3.2.2. Dolphin sightings made in the present quarter were mainly located to the north of Lung Kwu Chau and at the northwestern end of NWL survey area (Figure 1). A few sightings were also made to the west of airport platform adjacent to the western territorial boundary (Figure 1). On the other hand, the dolphins were completely absent from the central and western portions of North Lantau waters as in previous quarters (Figure 1).

3.2.3. All dolphin sightings were located far away from the HKBCF and HKLR03 reclamation sites as well as along the alignment of Tuen Mun-Chek Lap Kok Link (TMCLKL). However, two dolphin groups were sighted adjacent to the HKLR09 alignment near Sham Wat (Figure 1).

3.2.4. Sighting distribution of dolphins during the present impact phase monitoring period (December 2016 to February 2017) was drastically different from the one during the baseline monitoring period (September to November 2011) (Figure 1). In the present quarter, dolphins have disappeared from the NEL region, which was in stark contrast to their frequent occurrence around the Brothers Islands, near Shum Shui Kok and in the vicinity of HKBCF reclamation site during the baseline period (Figure 1). The nearly complete abandonment of NEL region by the dolphins has been consistently recorded in the past 16 quarters of HKLR03 monitoring, which has resulted in zero to extremely low dolphin encounter rates in this area.

3.2.5. In NWL survey area, dolphin occurrence was also significantly different between the baseline and impact phase periods. During the present impact monitoring period, much fewer dolphins occurred in this survey area (mostly to the north of Lung Kwu Chau at the northwestern corner of the survey area) than during the baseline period, when many dolphin groups were frequently sighted between Lung Kwu Chau and Black Point, around Sha Chau, near Pillar Point and to the west of the Chek Lap Kok Airport (Figure 1).

3.2.6. Another comparison in dolphin distribution was made between the five quarterly periods of winter months in 2012-17 (Figure 2). Among the five winter periods, dolphins were regularly sighted in NWL waters in 2012-13 and 2013-14, but their usage there has gradually diminished in the three subsequent winter periods, with the only occurrences mostly concentrated within and around the Sha Chau and Lung Kwu Chau Marine Park (Figure 2).

3.3. *Encounter rate*

3.3.1. During the present three-month study period, the encounter rates of Chinese White Dolphins deduced from the survey effort and on-effort sighting data from the primary transect lines under favourable conditions (Beaufort 3 or below) for each set of the surveys in NEL and NWL are shown in Table 2. The average encounter rates deduced from the six sets of surveys were also compared with the ones deduced from the baseline monitoring period (September – November 2011) (Table 3).

3.3.2. To facilitate the comparison with the AFCD long-term monitoring results, the encounter rates were also calculated for the present quarter using both primary and secondary survey effort. The encounter rates of sightings (STG) and dolphins (ANI) in NWL were 2.91 sightings and 10.73 dolphins per 100 km of survey effort respectively, while the encounter rates of sightings (STG) and dolphins (ANI) in NEL were both nil for this quarter.

Table 2. Dolphin encounter rates (sightings per 100 km of survey effort) during December 2016 – February 2017

SURVEY AREA	DOLPHIN MONITORING DATES	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
Northeast Lantau	Set 1 (1 & 6 Dec 2016)	0.00	0.00
	Set 2 (16 & 19 Dec 2016)	0.00	0.00
	Set 3 (10 & 12 Jan 2017)	0.00	0.00
	Set 4 (16 & 20 Jan 2017)	0.00	0.00
	Set 5 (7 & 9 Feb 2017)	0.00	0.00
	Set 6 (16 & 21 Feb 2017)	0.00	0.00
Northwest Lantau	Set 1 (1 & 6 Dec 2016)	1.58	1.58
	Set 2 (16 & 19 Dec 2016)	5.99	22.45
	Set 3 (10 & 12 Jan 2017)	0.00	0.00
	Set 4 (16 & 20 Jan 2017)	6.27	20.38
	Set 5 (7 & 9 Feb 2017)	0.00	0.00
	Set 6 (16 & 21 Feb 2017)	8.99	42.71

Table 3. Comparison of average dolphin encounter rates from impact monitoring period (December 2016 – February 2017) and baseline monitoring period (September – November 2011) (Note: encounter rates deduced from the baseline monitoring period have been recalculated based only on survey effort and on-effort sighting data made along the primary transect lines under favourable conditions; ± denotes the standard deviation of the average encounter rates)

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)		Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)	
	December 2016 – February 2017	September – November 2011	December 2016 – February 2017	September – November 2011
Northeast Lantau	0.0	6.00 ± 5.05	0.0	22.19 ± 26.81
Northwest Lantau	3.80 ± 3.79	9.85 ± 5.85	14.52 ± 17.21	44.66 ± 29.85

3.3.3. In NEL, the average dolphin encounter rates (both STG and ANI) in the present three-month impact monitoring period were both zero with no on-effort sighting being made, and such extremely low occurrence of dolphins in NEL have been consistently recorded in the past 16 quarters of HKLR03 monitoring (Table 4). This is a serious concern as the dolphin occurrence in NEL in the past few years (0.0-1.0 for ER(STG) and 0.0-3.9 for ER(ANI)) have remained exceptionally low when compared to the baseline period (Table 4). Dolphins have been virtually absent from NEL waters since January 2014, with only three groups of six dolphins sighted there since then despite consistent and intensive survey effort being conducted in this survey area.

Table 4. Comparison of average dolphin encounter rates in Northeast Lantau survey area from all quarters of impact monitoring period and baseline monitoring period (September-November 2011) (Note: encounter rates deduced from the baseline monitoring period have been recalculated based only on survey effort and on-effort sighting data made along the primary transect lines under favourable conditions; the encounter rates in winter months were highlighted in **blue**; ± denotes the standard deviation of the average encounter rates)

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	**Encounter rate (ANI)** (no. of dolphins from all on-effort sightings per 100 km of survey effort)
September-November 2011 (Baseline)	6.00 ± 5.05	22.19 ± 26.81
December 2012-February 2013 (Impact)	3.14 ± 3.21	6.33 ± 8.64
March-May 2013 (Impact)	0.42 ± 1.03	0.42 ± 1.03
June-August 2013 (Impact)	0.88 ± 1.36	3.91 ± 8.36
September-November 2013 (Impact)	1.01 ± 1.59	3.77 ± 6.49
December 2013-February 2014 (Impact)	0.45 ± 1.10	1.34 ± 3.29
March-May 2014 (Impact)	0.00	0.00
June-August 2014 (Impact)	0.42 ± 1.04	1.69 ± 4.15
September-November 2014 (Impact)	0.00	0.00
December 2014-February 2015 (Impact)	0.00	0.00
March-May 2015 (Impact)	0.00	0.00
June-August 2015 (Impact)	0.44 ± 1.08	0.44 ± 1.08
September-November 2015 (Impact)	0.00	0.00
December 2015-February 2016 (Impact)	0.00	0.00
March-May 2016 (Impact)	0.00	0.00
June-August 2016 (Impact)	0.00	0.00
September-November 2016 (Impact)	0.00	0.00
December 2016-February 2017 (Impact)	0.00	0.00

3.3.4. On the other hand, the average dolphin encounter rates (STG and ANI) in NWL during the present impact phase monitoring period (reductions of 61.4% and 67.5% respectively) were only small fractions of the ones recorded during the three-month baseline period, indicating a dramatic decline in dolphin usage of this survey area as well during the present impact phase period (Table 5).

3.3.5. During the same winter quarters, dolphin encounter rates in NWL during 2016-17 was slightly higher than the previous two winter periods, but was still much lower than the ones in the winter periods of 2012-13 and 2013-14 (Table

5). Such temporal trend should be closely monitored in the upcoming monitoring quarters whether the dolphin occurrence would continue to increase as the construction activities of HZMB works have been mostly completed in coming months.

Table 5. Comparison of average dolphin encounter rates in Northwest Lantau survey area from all quarters of impact monitoring period and baseline monitoring period (September-November 2011) (Note: encounter rates deduced from the baseline monitoring period have been recalculated based only on survey effort and on-effort sighting data made along the primary transect lines under favourable conditions; the encounter rates in winter months were highlighted in **blue**; ± denotes the standard deviation of the average encounter rates)

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	**Encounter rate (ANI)** (no. of dolphins from all on-effort sightings per 100 km of survey effort)
September-November 2011 (Baseline)	9.85 ± 5.85	44.66 ± 29.85
December 2012-February 2013 (Impact)	8.36 ± 5.03	35.90 ± 23.10
March-May 2013 (Impact)	7.75 ± 3.96	24.23 ± 18.05
June-August 2013 (Impact)	6.56 ± 3.68	27.00 ± 18.71
September-November 2013 (Impact)	8.04 ± 1.10	32.48 ± 26.51
December 2013-February 2014 (Impact)	8.21 ± 2.21	32.58 ± 11.21
March-May 2014 (Impact)	6.51 ± 3.34	19.14 ± 7.19
June-August 2014 (Impact)	4.74 ± 3.84	17.52 ± 15.12
September-November 2014 (Impact)	5.10 ± 4.40	20.52 ± 15.10
December 2014-February 2015 (Impact)	2.91 ± 2.69	11.27 ± 15.19
March-May 2015 (Impact)	0.47 ± 0.73	2.36 ± 4.07
June-August 2015 (Impact)	2.53 ± 3.20	9.21 ± 11.57
September-November 2015 (Impact)	3.94 ± 1.57	21.05 ± 17.19
December 2015-February 2016 (Impact)	2.64 ± 1.52	10.98 ± 3.81
March-May 2016 (Impact)	0.98 ± 1.10	4.78 ± 6.85
June-August 2016 (Impact)	1.72 ± 2.17	7.48 ± 10.98
September-November 2016 (Impact)	2.86 ± 1.98	10.89 ± 10.98
December 2016-February 2017 (Impact)	3.80 ± 3.79	14.52 ± 17.21

3.3.6. As recently discussed in Hung (2016), the dramatic decline in dolphin usage of NEL waters in the past few years (including the declines in abundance, encounter rate and habitat use in NEL, as well as shifts of individual core areas and ranges away from NEL waters) was possibly related to the HZMB construction works that were commenced since 2012. It appeared that such noticeable decline has already extended to NWL waters progressively in the past few years, and with no sign of recovery even the HZMB-related construction activities has well past the peak.

3.3.7. A two-way ANOVA with repeated measures and unequal sample size was conducted to examine whether there were any significant differences in the average encounter rates between the baseline and impact monitoring periods. The two variables that were examined included the two periods (baseline and impact phases) and two locations (NEL and NWL).

3.3.8. For the comparison between the baseline period and the present quarter (17th quarter of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.0110 and 0.0440 respectively. If the alpha value is set at 0.05, significant differences were detected between the baseline and present quarters in both the average dolphin encounter rates of STG and ANI.

3.3.9. For the comparison between the baseline period and the cumulative quarters in impact phase (i.e. the first 17 quarters of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.000003 and 0.000001 respectively. Even if the alpha value is set at 0.00001, significant differences were still detected in both the average dolphin encounter rates of STG and ANI (i.e. between the two periods and the locations).

3.3.10. As indicated in both dolphin distribution patterns and encounter rates, dolphin usage has been significantly reduced in both NEL and NWL survey areas during the present quarterly period, and such low occurrence of dolphins has also been consistently documented in previous quarters. This raises serious concern, as the timing of the decline in dolphin usage in North Lantau waters coincided well with the construction schedule of the HZMB-related projects (Hung 2016).

3.3.11. To ensure the continuous usage of North Lantau waters by the dolphins, every possible measure should be implemented by the contractors and relevant authorities of HZMB-related works to minimize all disturbances to the dolphins.

3.4. Group size

3.4.1. Group size of Chinese White Dolphins ranged from one to eight individuals per group in North Lantau region during December 2016 to February 2017. The average dolphin group sizes from these three months were compared with the ones deduced from the baseline period in September to November 2011, as shown in Table 6.

Table 6. Comparison of average dolphin group sizes from impact monitoring period (December 2016 – February 2017) and baseline monitoring period (September – November 2011) (Note: ± denotes the standard deviation of the average group size)

	Average Dolphin Group Size	
	December 2016 – February 2017	**September – November 2011**
Overall	3.65 ± 2.37 (n = 17)	3.72 ± 3.13 (n = 66)
Northeast Lantau	---	3.18 ± 2.16 (n = 17)
Northwest Lantau	3.65 ± 2.37 (n = 17)	3.92 ± 3.40 (n = 49)

3.4.2. The average dolphin group size in NWL waters during December 2016 to February 2017 was slightly lower than the one recorded during the three-month baseline period (Table 6). Most of these dolphin groups were composed of 1-4 individuals only, while there were five medium-sized groups of 5-8 individuals.

3.4.3. Distribution of the larger dolphin groups (i.e. five individuals or more per group) during the present quarter is shown in Figure 3, with comparison to the one in baseline period. During the winter months of 2016-17, the five medium-sized groups were sighted to the north of Lung Kwu Chau, near Sha Chau, and to the west of the airport platform (Figure 3). Such distribution pattern was very different from the baseline period, when the larger dolphin groups were more frequently sighted and more evenly distributed in NWL waters, with a few more sighted in NEL waters (Figure 3).

3.5. *Habitat use*

3.5.1. From December 2016 to February 2017, the more important habitats utilized by Chinese White Dolphins were mostly concentrated around Lung Kwu Chau and to the north of the island (Figures 4a and 4b). Two grids located to the west of the airport platform and adjacent to HKLR09 alignment also recorded moderate to high densities of dolphins. On the contrary, all grids near HKLR03/ HKBCF reclamation sites as well as TMCLKL alignment did not record any presence of dolphins at all during on-effort search in the present quarterly period (Figures 4a and 4b).

3.5.2. However, it should be emphasized that the amount of survey effort collected in each grid during the three-month period was fairly low (6-12 units of survey effort for most grids), and therefore the habitat use pattern derived from the three-month dataset should be treated with caution. A more complete picture of dolphin habitat use pattern should be examined when more survey effort for each grid will be collected throughout the impact phase monitoring programme.

3.5.3. When compared with the habitat use patterns during the baseline period, dolphin usage in NEL and NWL has drastically diminished in both areas during the present impact monitoring period (Figure 5). During the baseline period, many grids between Siu Mo To and Shum Shui Kok in NEL recorded moderately high to high dolphin densities, which was in stark contrast to the complete absence of dolphins there during the present impact phase period (Figure 5).

3.5.4. The density patterns were also very different in NWL between the baseline and impact phase monitoring periods, with higher dolphin usage throughout the area, especially around Sha Chau, near Black Point, to the west of the airport, as well as between Pillar Point and airport platform during the baseline period. In contrast, the only areas with moderate to high dolphin densities were restricted to the waters near Lung Kwu Chau during the present impact phase period (Figure 5).

3.6. Mother-calf pairs

3.6.1. During the present quarterly period, three unspotted juveniles were sighted with their mothers in the North Lantau region. These sightings of young calves were located near Sha Chau and to the west of the airport platform (Figure 6).

3.6.2. The infrequent occurrence of young calves in the present quarter was very different from their regular occurrence in North Lantau waters during the baseline period (Figure 6). This should be of a serious concern, and the occurrence of young calves in North Lantau waters should be closely monitored in the upcoming quarters.

3.7. Activities and associations with fishing boats

3.7.1. Four of the 17 dolphin groups were engaged in feeding activities, while none of them was engaged in socializing, traveling or milling/resting activity during the three-month study period.

3.7.2. The percentage of sightings associated with feeding activities (23.5%) was much higher than the one recorded during the baseline period (11.6%). However, it should be noted the sample size on total numbers of dolphin sightings during the present quarter (17 dolphin groups) was much lower than the baseline period (66 dolphin groups).

3.7.3. Distribution of dolphins engaged in various activities during the present impact phase period and the baseline period is shown in Figure 6. The four dolphin groups engaged in feeding activities were sighted around Lung Kwu Chau, Sha Chau as well as to the west of Shum Wat adjacent to the HKLR09 alignment during the present quarterly period, which was very different from the baseline period when various dolphin activities occurred throughout the North Lantau region (Figure 6).

3.7.4. Notably, none of the 17 dolphin groups was found to be associated with any operating fishing vessel during the present impact phase period.

3.8. Summary of photo-identification works

3.8.1. From December 2016 to February 2017, over 2,100 digital photographs of Chinese White Dolphins were taken during the impact phase monitoring surveys for the photo-identification work.

3.8.2. In total, 26 individuals sighted 43 times altogether were identified (see summary table in Appendix III and photographs of identified individuals in Appendix IV). All of these re-sightings were made in NWL. Nine individuals (NL46, NL98, NL104, NL136, NL182, NL210, NL321 WL145 and WL275) were re-sighted twice, while two individuals (NL202 and NL286) were both re-sighted five times during the three-month period (Appendix III).

3.8.3. Notably, six of these 26 individuals (CH105, NL98, NL120, NL123, NL182 and NL226) were also sighted in West Lantau waters during the HKLR09 monitoring surveys from December 2016 to February 2017, showing their extensive individual movements across different survey areas.

3.9. Individual range use

3.9.1. Ranging patterns of the 26 individuals identified during the three-month study period were determined by fixed kernel method, and are shown in Appendix V.

3.9.2. All identified dolphins sighted in the present quarter were utilizing NWL waters only, but have completely avoided NEL waters where many of them have utilized as their core areas in the past (Appendix V). This is in contrary to the extensive movements between NEL and NWL survey areas observed in the earlier impact monitoring quarters as well as the baseline period.

3.9.3. On the other hand, several individuals (NL98, NL120, NL123, NL182 and NL226) consistently utilized North Lantau waters in the past have extended their range use to WL during the present quarter. In the upcoming quarters, individual range use and movements should be continuously monitored to examine whether there has been any consistent shifts of individual home ranges from North Lantau to West or Southwest Lantau, as such shift could possibly be related to the HZMB-related construction works (see Hung 2015, 2016).

4. Conclusion

4.1. During the present quarter of dolphin monitoring, no adverse impact from the activities of this construction project on Chinese White Dolphins was noticeable from general observations.

4.2. Although dolphins rarely occurred in the area of HKLR03 construction in the past and during the baseline monitoring period, it is apparent that dolphin usage has been dramatically reduced in NEL since 2012, and many individuals have shifted away completely from the important habitat around the Brothers Islands.

4.3. It is critical to continuously monitor the dolphin usage in North Lantau region in the upcoming quarters, to determine whether the dolphins are continuously affected by the various construction activities in relation to the HZMB-related works, and whether suitable mitigation measure can be applied to revert the situation.

5. References

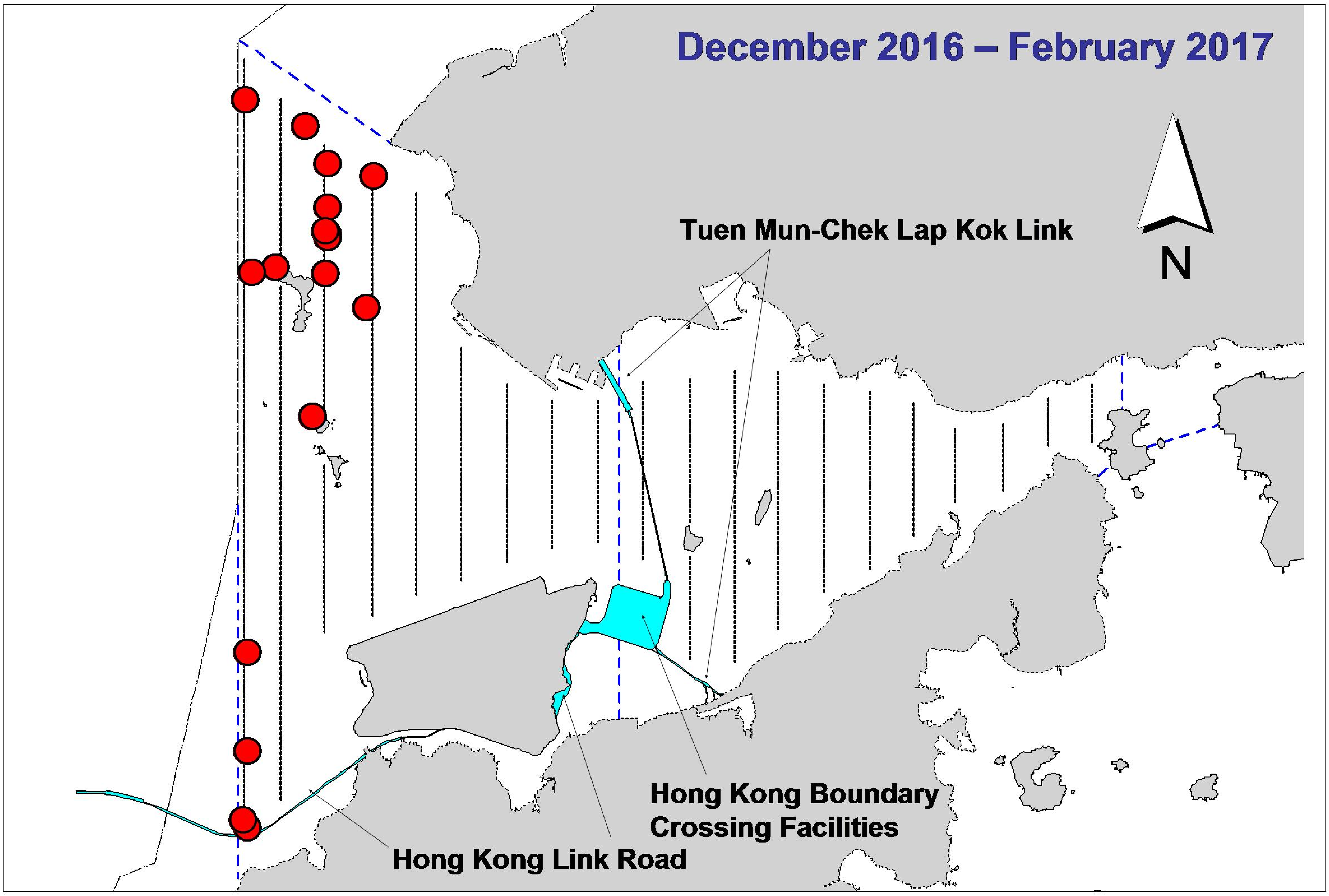
Buckland, S. T., Anderson, D. R., Burnham, K. P., Laake, J. L., Borchers, D. L., and Thomas, L. 2001. Introduction to distance sampling: estimating abundance of biological populations. Oxford University Press, London.

Hung, S. K. 2008. Habitat use of Indo-Pacific humpback dolphins (*Sousa chinensis*) in Hong Kong. Ph.D. dissertation. University of Hong Kong, Hong Kong, 266 p.

Hung, S. K. 2015. Monitoring of marine mammals in Hong Kong waters – data collection: final report (2014-15). An unpublished report submitted to the Agriculture, Fisheries and Conservation Department of Hong Kong SAR Government, 198 pp.

Hung, S. K. 2016. Monitoring of marine mammals in Hong Kong waters – data collection: final report (2015-16). An unpublished report submitted to the Agriculture, Fisheries and Conservation Department of Hong Kong SAR Government, 163 pp.

Jefferson, T. A. 2000. Population biology of the Indo-Pacific hump-backed dolphin in Hong Kong waters. Wildlife Monographs 144:1-65.



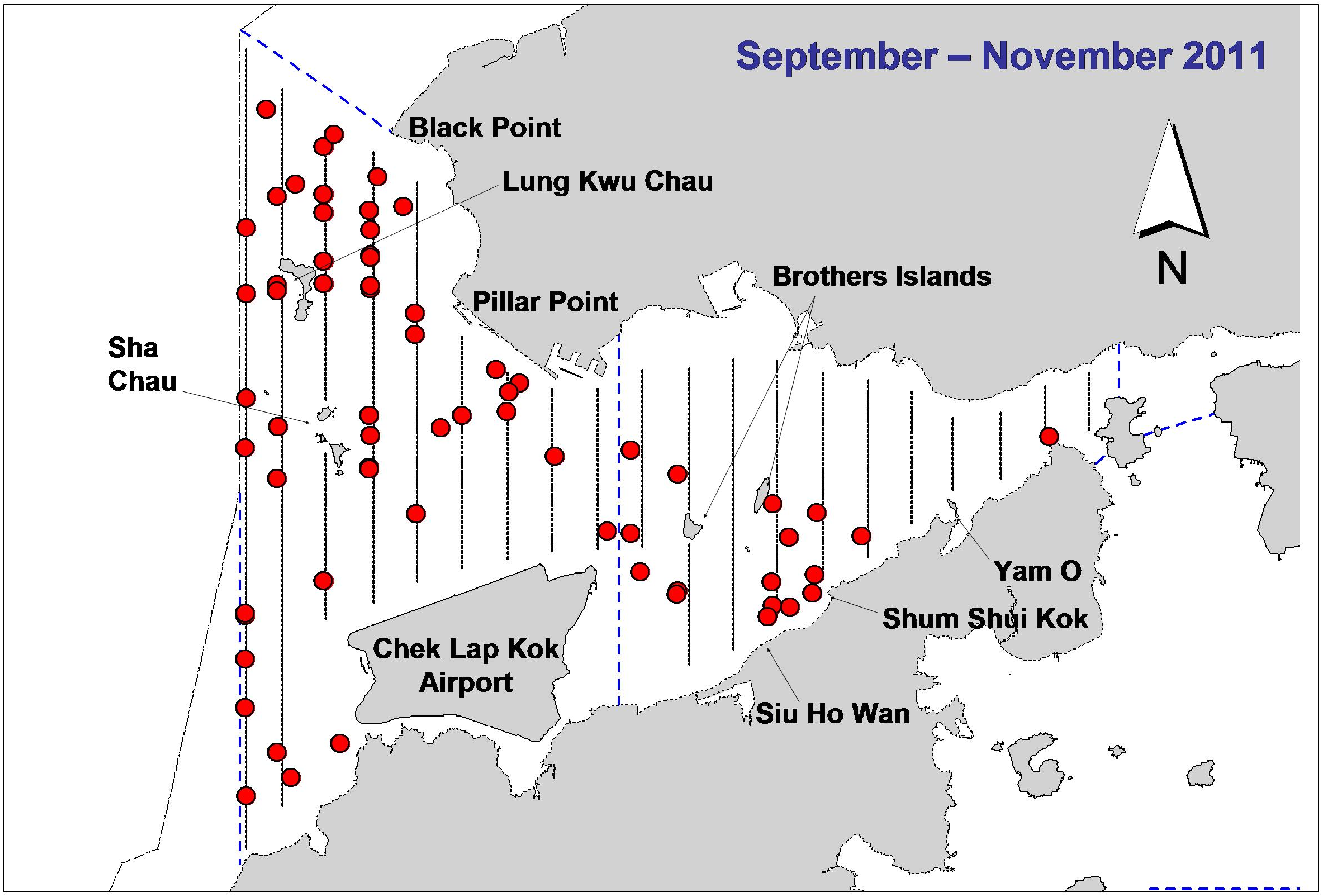
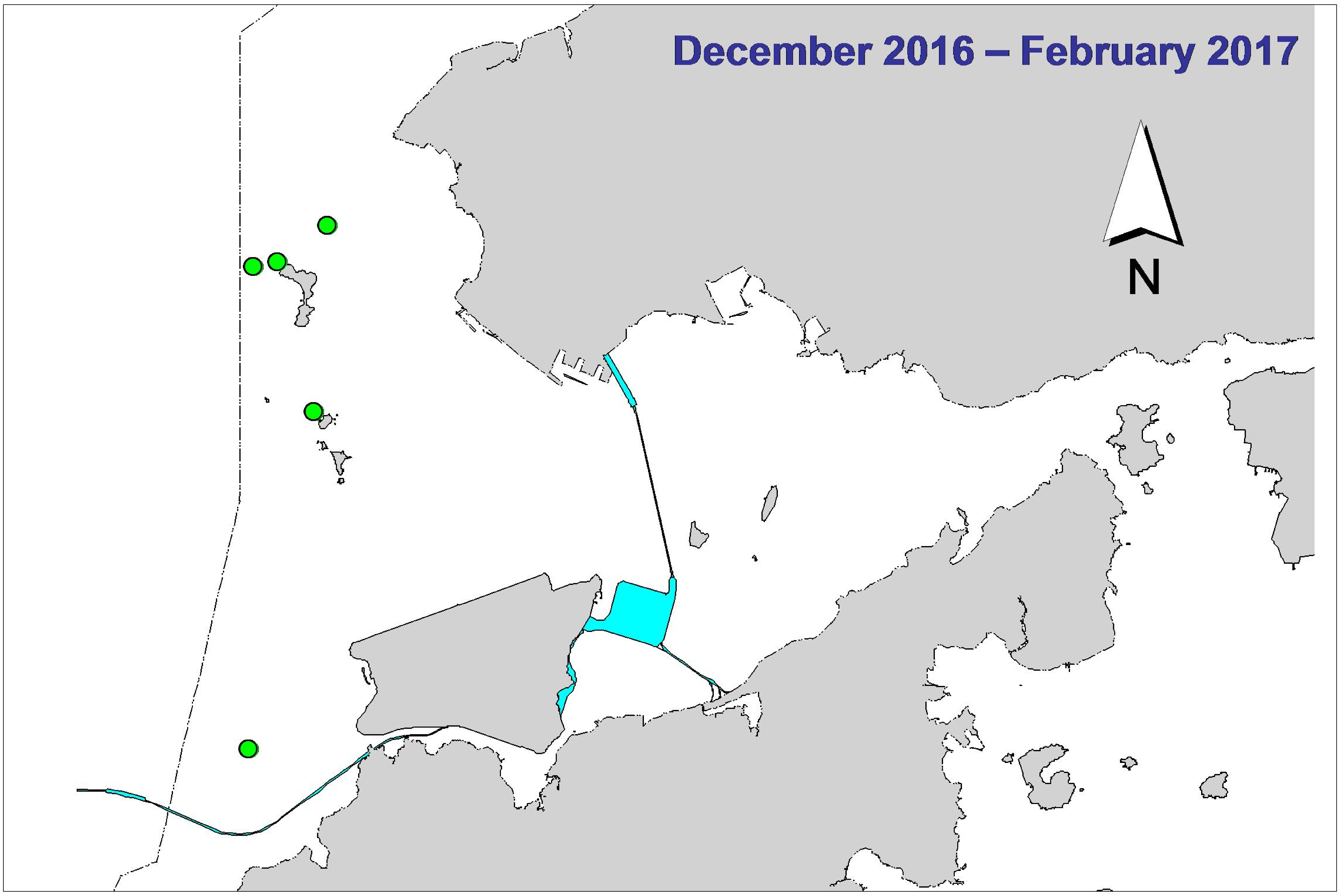


Figure 1. Distribution of Chinese white dolphin sighting in Northwest and Northeast Lantau during HKLR03 impact phase (top) and baseline monitoring surveys (bottom)

Figure 2. Distribution of Chinese white dolphin sightings in Northwest and Northeast Lantau during the past five winter quarters (December-February) of HKLR03 impact phase in 2012-17



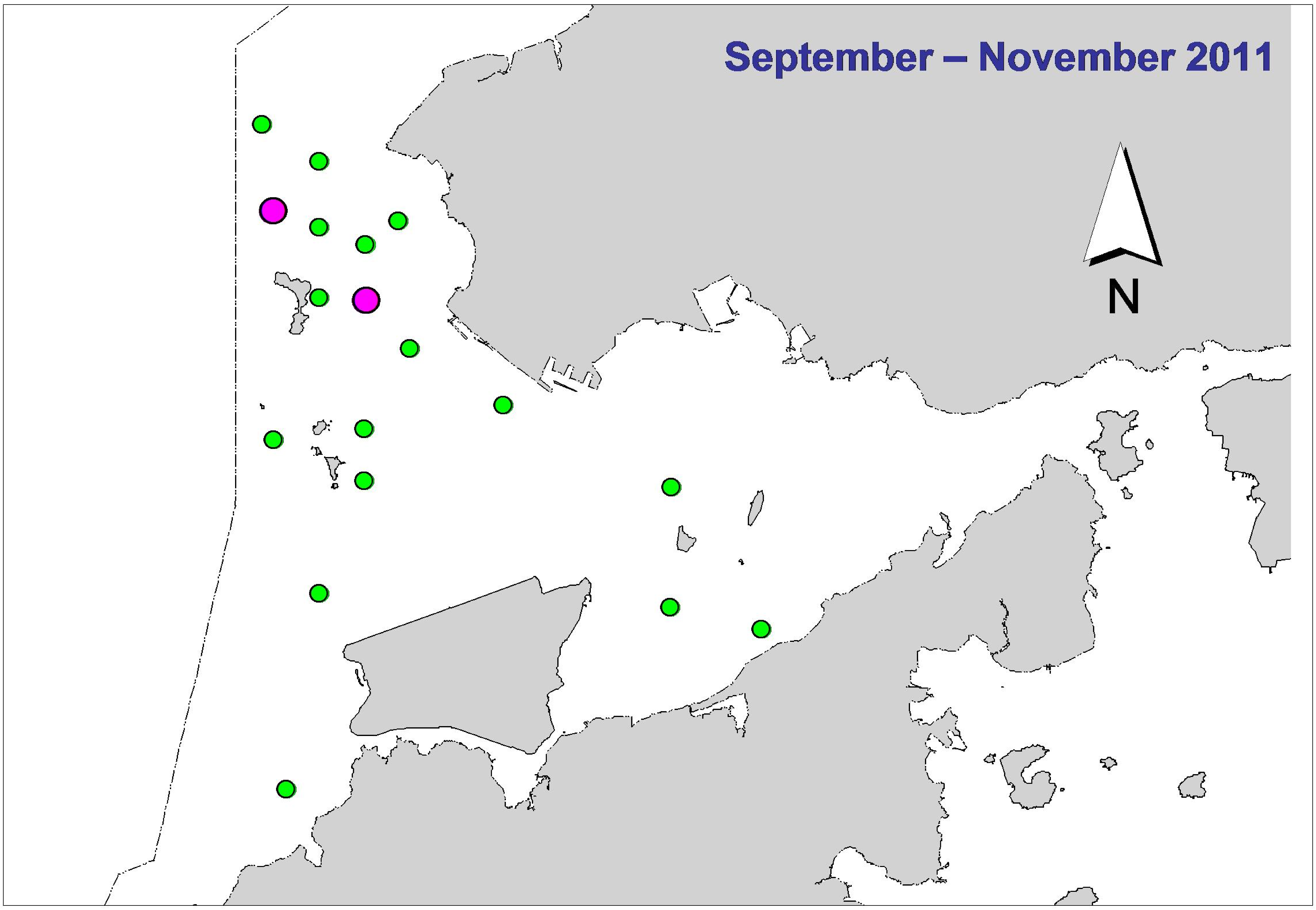


Figure 3. Distribution of Chinese white dolphins with larger group sizes during HKLR03 impact phase (top) and baseline monitoring surveys (bottom) (green dots: group sizes of 5 or more; purple dots: group sizes of 10 or more)

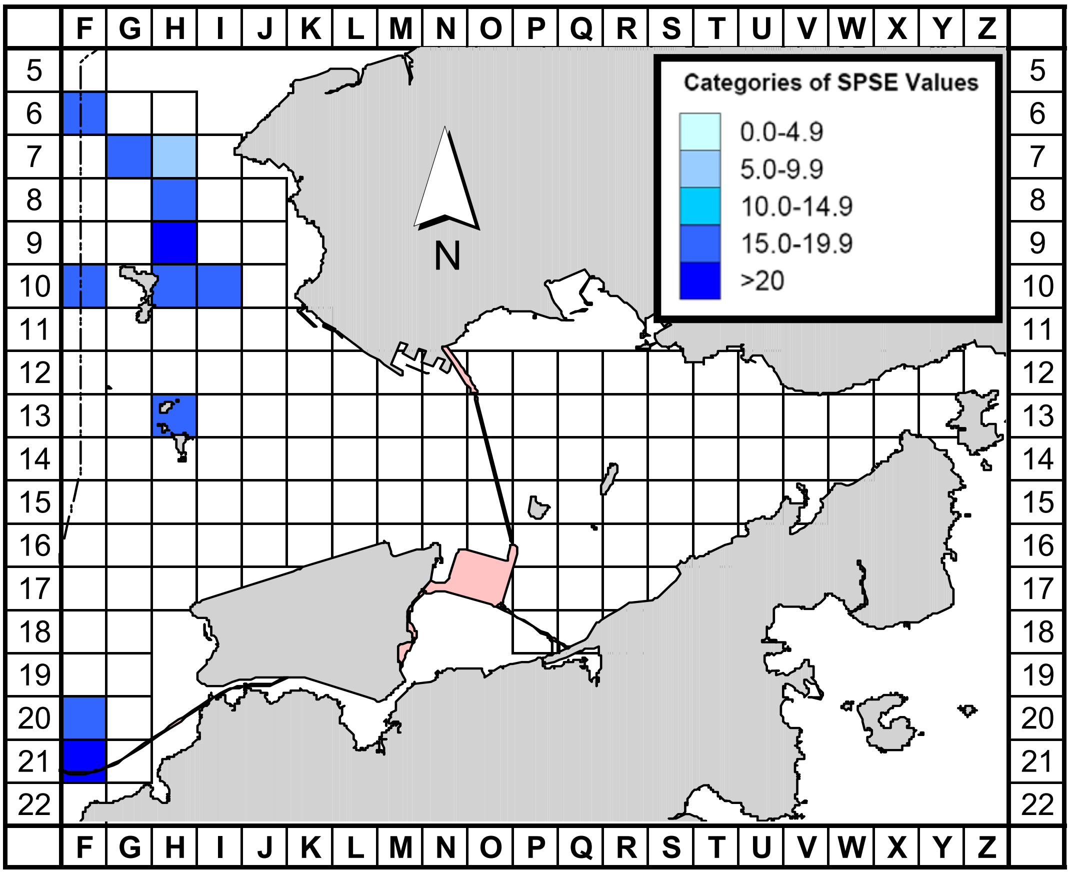


Figure 4a. Sighting density of Chinese white dolphins with corrected survey effort per km^2 in Northeast and Northwest Lantau survey areas, using data collected during HKLR03 impact monitoring period monitoring period (Dec16-Feb17) (SPSE = no. of on-effort sightings per 100 units of survey effort)

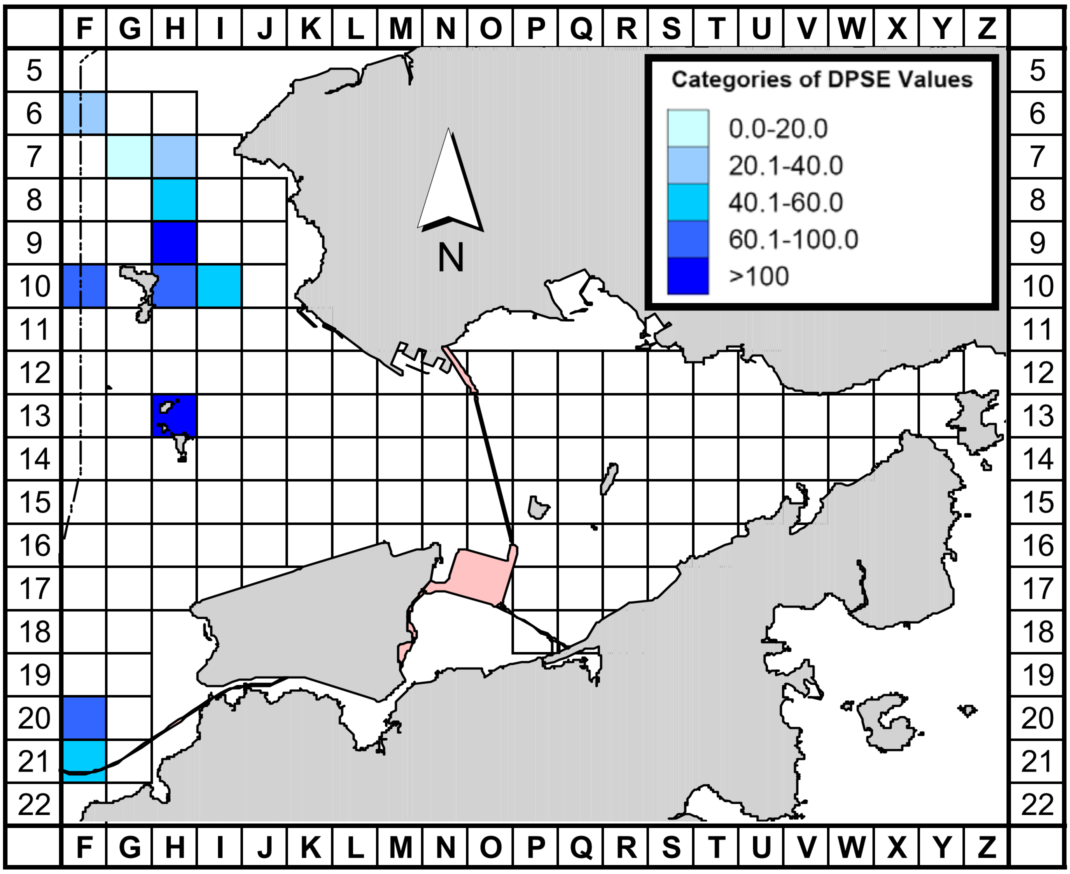


Figure 4b. Density of Chinese white dolphins with corrected survey effort per km^2 in Northeast and Northwest Lantau survey areas, using data collected during HKLR03 impact monitoring period (Dec16-Feb17) (DPSE = no. of dolphins per 100 units of survey effort)

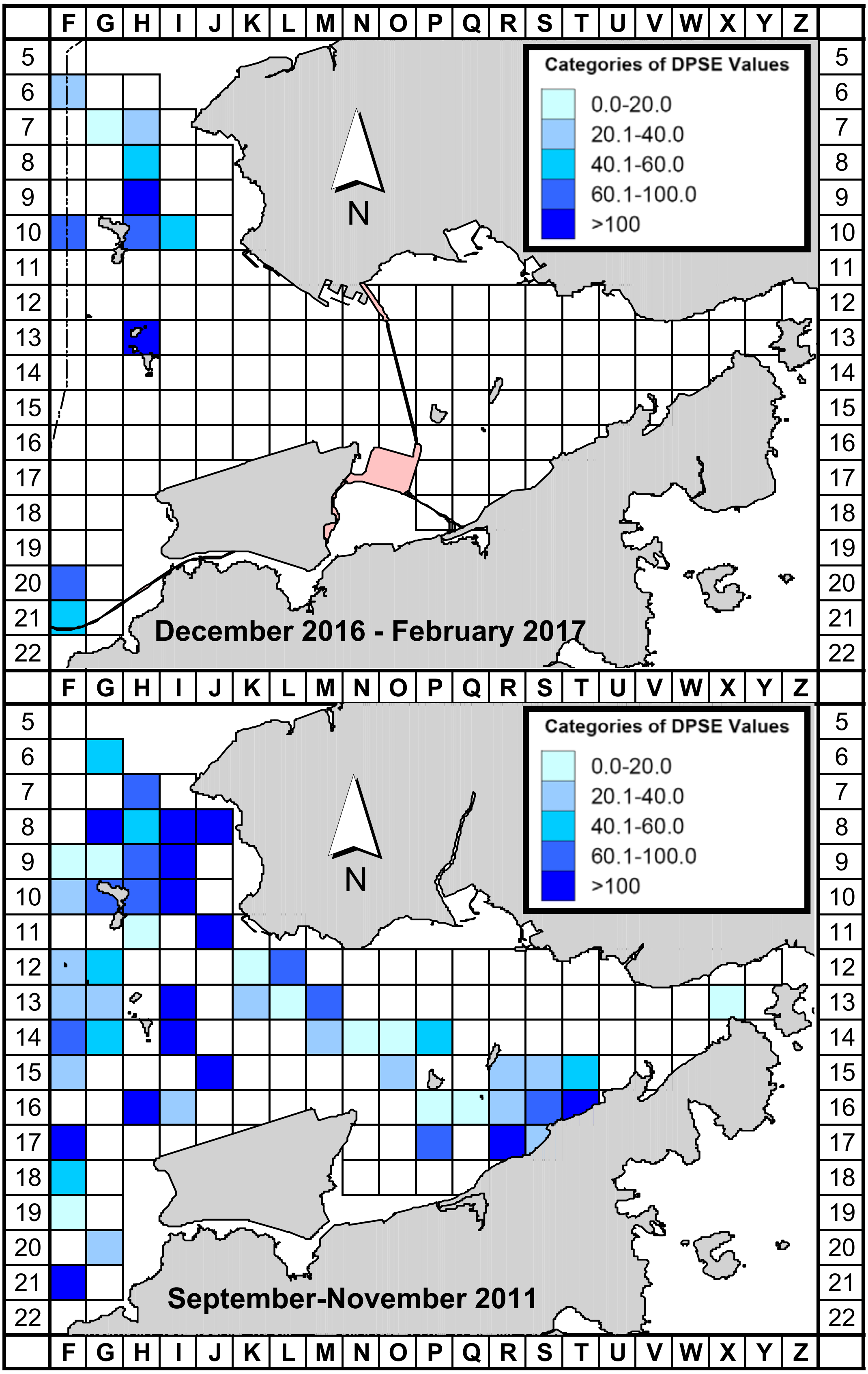
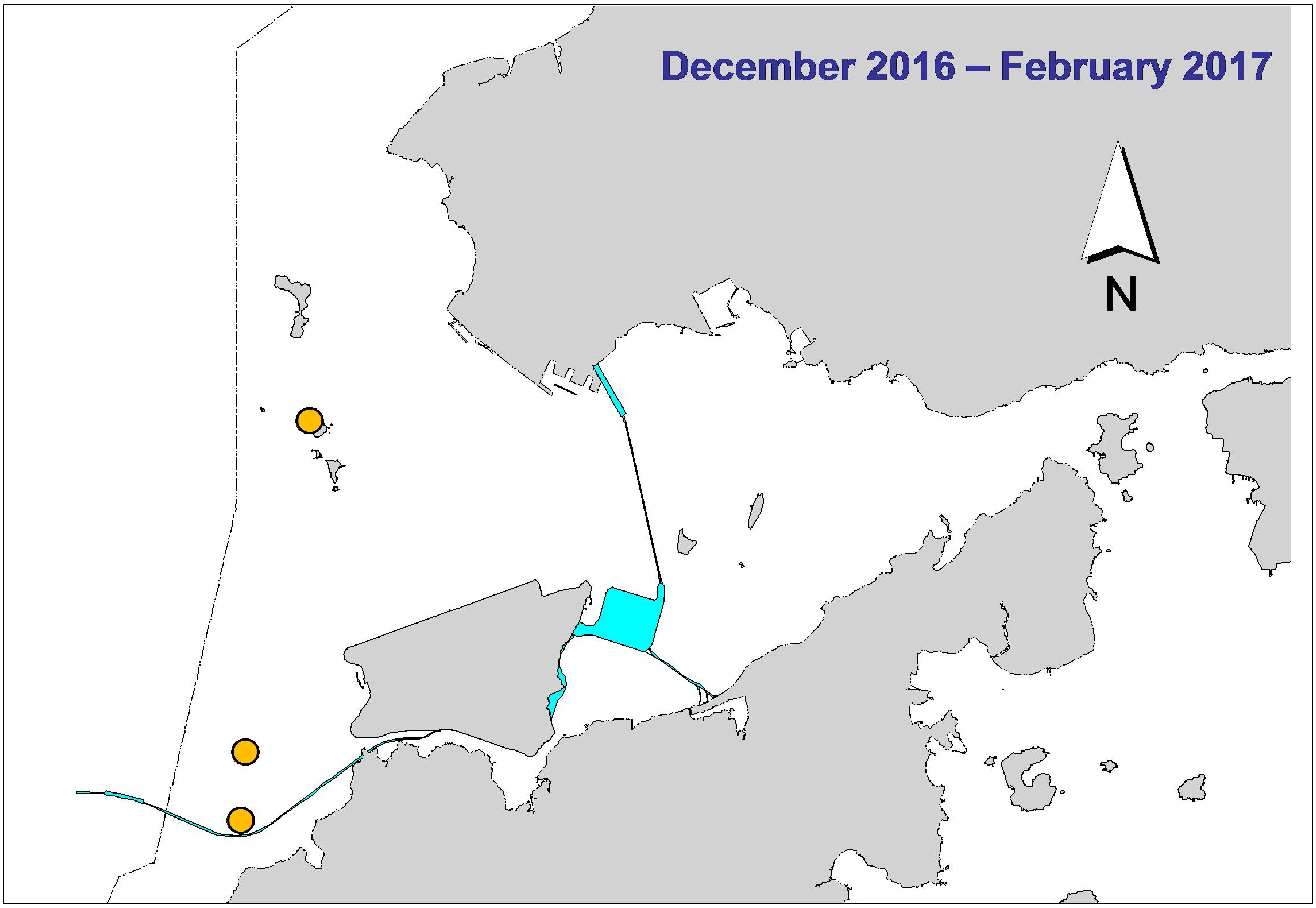


Figure 5. Comparison of density of Chinese white dolphins with corrected survey effort per km^2 in Northwest and Northeast Lantau survey area between the impact monitoring period (December 2016 - February 2017) and baseline monitoring period (September-November 2011)
(DPSE = no. of dolphins per 100 units of survey effort)



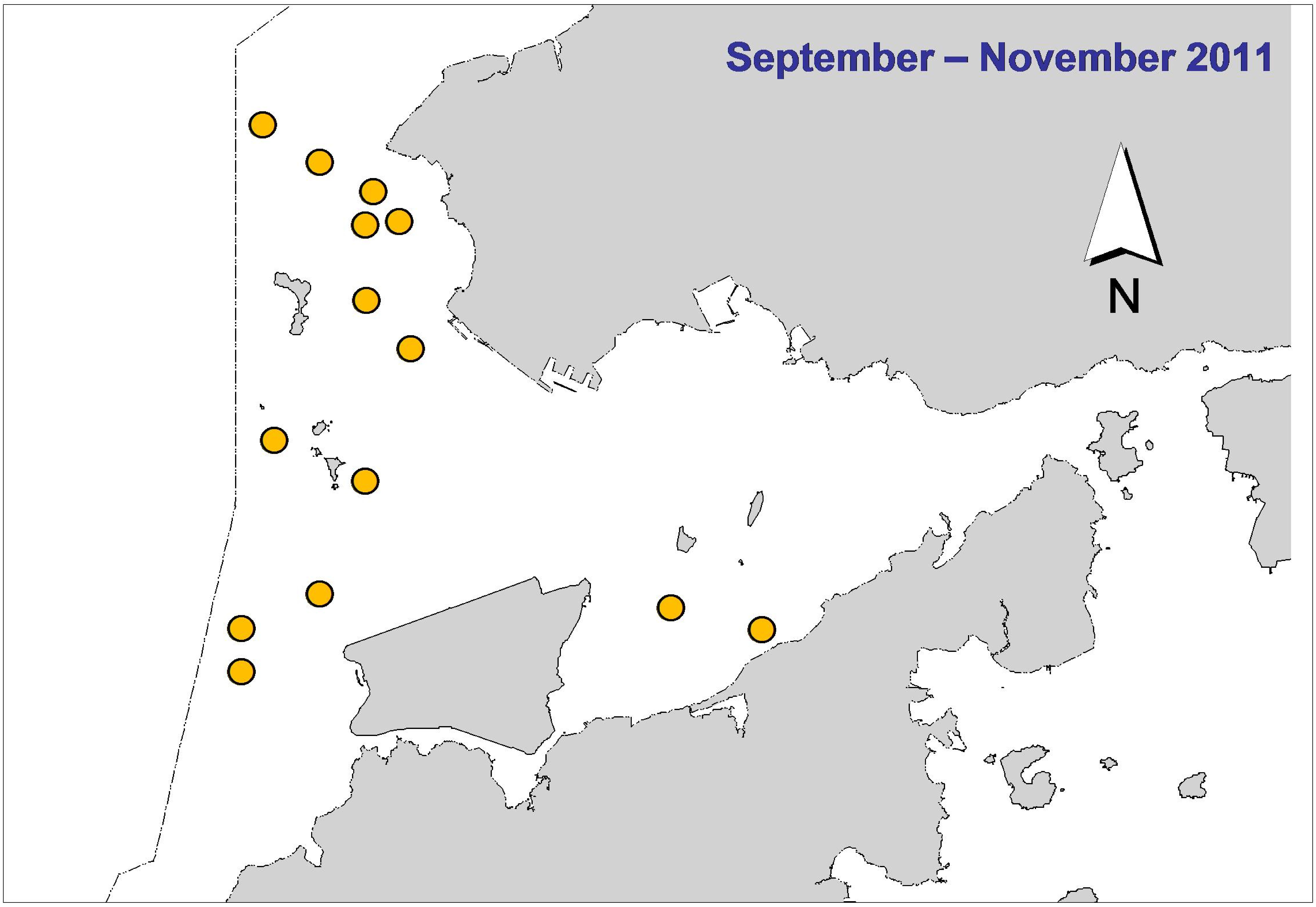


Figure 6. Distribution of young calves of Chinese white dolphins during HKLR03 impact phase (top) and baseline monitoring surveys (bottom)

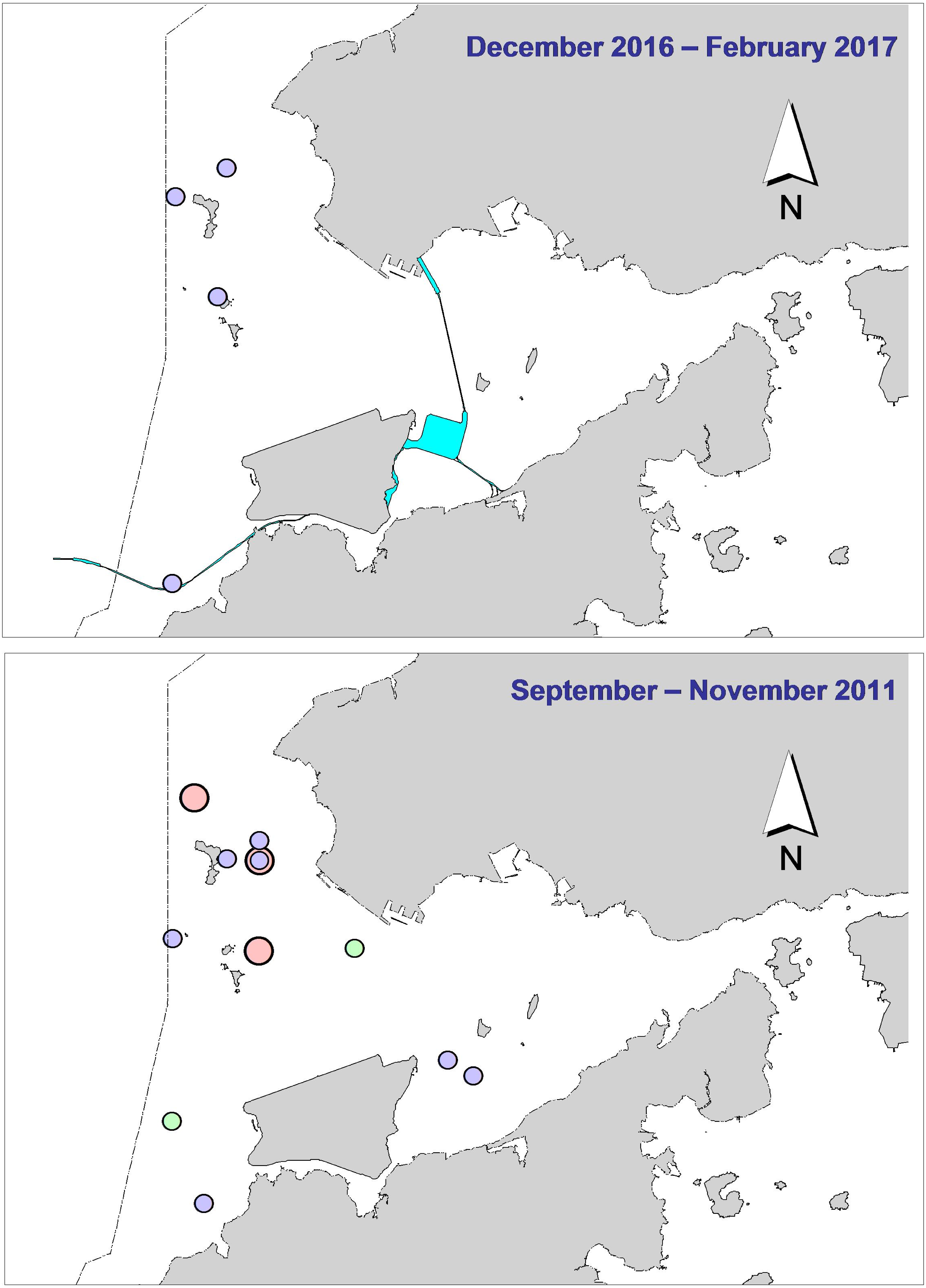


Figure 7. Distribution of Chinese white dolphins engaged in feeding (purple dots), socializing (pink dots) and traveling (green dots) activities during HKLR03 impact phase (top) and baseline monitoring surveys (bottom)

Annex I. HKLR03 Survey Effort Database (Dec 2016 - Feb 2017)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
1-Dec-16	NE LANTAU	1	1.10	WINTER	STANDARD36826	HKLR	P
1-Dec-16	NE LANTAU	2	14.04	WINTER	STANDARD36826	HKLR	P
1-Dec-16	NE LANTAU	3	2.70	WINTER	STANDARD36826	HKLR	P
1-Dec-16	NE LANTAU	2	6.99	WINTER	STANDARD36826	HKLR	S
1-Dec-16	NE LANTAU	3	2.87	WINTER	STANDARD36826	HKLR	S
1-Dec-16	NW LANTAU	2	7.78	WINTER	STANDARD36826	HKLR	P
1-Dec-16	NW LANTAU	3	30.29	WINTER	STANDARD36826	HKLR	P
1-Dec-16	NW LANTAU	4	2.10	WINTER	STANDARD36826	HKLR	P
1-Dec-16	NW LANTAU	2	0.10	WINTER	STANDARD36826	HKLR	S
1-Dec-16	NW LANTAU	3	12.43	WINTER	STANDARD36826	HKLR	S
6-Dec-16	NE LANTAU	2	8.24	WINTER	STANDARD36826	HKLR	P
6-Dec-16	NE LANTAU	3	12.45	WINTER	STANDARD36826	HKLR	P
6-Dec-16	NE LANTAU	2	5.56	WINTER	STANDARD36826	HKLR	S
6-Dec-16	NE LANTAU	3	5.85	WINTER	STANDARD36826	HKLR	S
6-Dec-16	NW LANTAU	2	3.30	WINTER	STANDARD36826	HKLR	P
6-Dec-16	NW LANTAU	3	21.96	WINTER	STANDARD36826	HKLR	P
6-Dec-16	NW LANTAU	4	6.80	WINTER	STANDARD36826	HKLR	P
6-Dec-16	NW LANTAU	2	2.34	WINTER	STANDARD36826	HKLR	S
6-Dec-16	NW LANTAU	3	5.60	WINTER	STANDARD36826	HKLR	S
16-Dec-16	NE LANTAU	2	1.84	WINTER	STANDARD36826	HKLR	P
16-Dec-16	NE LANTAU	3	15.94	WINTER	STANDARD36826	HKLR	P
16-Dec-16	NE LANTAU	4	2.10	WINTER	STANDARD36826	HKLR	P
16-Dec-16	NE LANTAU	2	2.56	WINTER	STANDARD36826	HKLR	S
16-Dec-16	NE LANTAU	3	8.66	WINTER	STANDARD36826	HKLR	S
16-Dec-16	NW LANTAU	2	8.49	WINTER	STANDARD36826	HKLR	P
16-Dec-16	NW LANTAU	3	22.63	WINTER	STANDARD36826	HKLR	P
16-Dec-16	NW LANTAU	2	3.41	WINTER	STANDARD36826	HKLR	S
16-Dec-16	NW LANTAU	3	4.41	WINTER	STANDARD36826	HKLR	S
19-Dec-16	NW LANTAU	2	25.43	WINTER	STANDARD36826	HKLR	P
19-Dec-16	NW LANTAU	3	10.26	WINTER	STANDARD36826	HKLR	P
19-Dec-16	NW LANTAU	2	6.14	WINTER	STANDARD36826	HKLR	S
19-Dec-16	NW LANTAU	3	5.93	WINTER	STANDARD36826	HKLR	S
19-Dec-16	NE LANTAU	2	2.66	WINTER	STANDARD36826	HKLR	P
19-Dec-16	NE LANTAU	3	12.82	WINTER	STANDARD36826	HKLR	P
19-Dec-16	NE LANTAU	2	4.15	WINTER	STANDARD36826	HKLR	S
19-Dec-16	NE LANTAU	3	5.57	WINTER	STANDARD36826	HKLR	S
10-Jan-17	NE LANTAU	2	4.00	WINTER	STANDARD36826	HKLR	P
10-Jan-17	NE LANTAU	3	14.60	WINTER	STANDARD36826	HKLR	P
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	P
10-Jan-17	NW LANTAU	3	28.52	WINTER	STANDARD36826	HKLR	P
10-Jan-17	NW LANTAU	4	2.10	WINTER	STANDARD36826	HKLR	P
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	P
12-Jan-17	NW LANTAU	3	28.60	WINTER	STANDARD31516	HKLR	P
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	P
12-Jan-17	NE LANTAU	2	8.97	WINTER	STANDARD31516	HKLR	S
12-Jan-17	NE LANTAU	3	1.00	WINTER	STANDARD31516	HKLR	S

Annex I. (cont'd)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
16-Jan-17	NW LANTAU	2	17.83	WINTER	STANDARD36826	HKLR	P
16-Jan-17	NW LANTAU	3	19.51	WINTER	STANDARD36826	HKLR	P
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	P
16-Jan-17	NE LANTAU	3	6.40	WINTER	STANDARD36826	HKLR	P
16-Jan-17	NE LANTAU	2	9.60	WINTER	STANDARD36826	HKLR	S
20-Jan-17	NW LANTAU	2	0.70	WINTER	STANDARD31516	HKLR	P
20-Jan-17	NW LANTAU	3	25.76	WINTER	STANDARD31516	HKLR	P
20-Jan-17	NW LANTAU	4	4.64	WINTER	STANDARD31516	HKLR	P
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	P
20-Jan-17	NE LANTAU	3	5.69	WINTER	STANDARD31516	HKLR	P
20-Jan-17	NE LANTAU	2	10.46	WINTER	STANDARD31516	HKLR	S
7-Feb-17	NE LANTAU	2	0.61	WINTER	STANDARD36826	HKLR	P
7-Feb-17	NE LANTAU	3	8.22	WINTER	STANDARD36826	HKLR	P
7-Feb-17	NE LANTAU	4	10.00	WINTER	STANDARD36826	HKLR	P
7-Feb-17	NE LANTAU	2	0.96	WINTER	STANDARD36826	HKLR	S
7-Feb-17	NE LANTAU	3	5.61	WINTER	STANDARD36826	HKLR	S
7-Feb-17	NE LANTAU	4	4.60	WINTER	STANDARD36826	HKLR	S
7-Feb-17	NW LANTAU	2	1.58	WINTER	STANDARD36826	HKLR	P
7-Feb-17	NW LANTAU	3	16.98	WINTER	STANDARD36826	HKLR	P
7-Feb-17	NW LANTAU	4	12.66	WINTER	STANDARD36826	HKLR	P
7-Feb-17	NW LANTAU	3	5.78	WINTER	STANDARD36826	HKLR	S
7-Feb-17	NW LANTAU	4	1.80	WINTER	STANDARD36826	HKLR	S
9-Feb-17	NE LANTAU	2	4.59	WINTER	STANDARD31516	HKLR	P
9-Feb-17	NE LANTAU	3	12.25	WINTER	STANDARD31516	HKLR	P
9-Feb-17	NE LANTAU	2	5.54	WINTER	STANDARD31516	HKLR	S
9-Feb-17	NE LANTAU	3	4.53	WINTER	STANDARD31516	HKLR	S
9-Feb-17	NW LANTAU	2	2.18	WINTER	STANDARD31516	HKLR	P
9-Feb-17	NW LANTAU	3	8.68	WINTER	STANDARD31516	HKLR	P
9-Feb-17	NW LANTAU	4	28.37	WINTER	STANDARD31516	HKLR	P
9-Feb-17	NW LANTAU	3	7.37	WINTER	STANDARD31516	HKLR	S
9-Feb-17	NW LANTAU	4	6.00	WINTER	STANDARD31516	HKLR	S
16-Feb-17	NW LANTAU	2	36.29	WINTER	STANDARD36826	HKLR	P
16-Feb-17	NW LANTAU	2	10.85	WINTER	STANDARD36826	HKLR	S
16-Feb-17	NE LANTAU	1	0.70	WINTER	STANDARD36826	HKLR	P
16-Feb-17	NE LANTAU	2	14.21	WINTER	STANDARD36826	HKLR	P
16-Feb-17	NE LANTAU	2	7.08	WINTER	STANDARD36826	HKLR	S
16-Feb-17	NE LANTAU	3	1.81	WINTER	STANDARD36826	HKLR	S
21-Feb-17	NW LANTAU	3	8.20	WINTER	STANDARD36826	HKLR	P
21-Feb-17	NW LANTAU	4	18.51	WINTER	STANDARD36826	HKLR	P
21-Feb-17	NW LANTAU	5	3.99	WINTER	STANDARD36826	HKLR	P
21-Feb-17	NW LANTAU	2	1.00	WINTER	STANDARD36826	HKLR	S
21-Feb-17	NW LANTAU	3	2.40	WINTER	STANDARD36826	HKLR	S
21-Feb-17	NW LANTAU	4	1.40	WINTER	STANDARD36826	HKLR	S
21-Feb-17	NW LANTAU	5	2.80	WINTER	STANDARD36826	HKLR	S
21-Feb-17	NE LANTAU	2	1.20	WINTER	STANDARD36826	HKLR	P
21-Feb-17	NE LANTAU	3	13.40	WINTER	STANDARD36826	HKLR	P
21-Feb-17	NE LANTAU	4	5.12	WINTER	STANDARD36826	HKLR	P
21-Feb-17	NE LANTAU	2	0.70	WINTER	STANDARD36826	HKLR	S
21-Feb-17	NE LANTAU	3	4.70	WINTER	STANDARD36826	HKLR	S
21-Feb-17	NE LANTAU	4	5.58	WINTER	STANDARD36826	HKLR	S

Annex II. HKLR03 Chinese White Dolphin Sighting Database (December 2016 - February 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
1-Dec-16	1	1337	1	NW LANTAU	3	233	ON	HKLR	827758	806489	WINTER	NONE	P
16-Dec-16	1	1308	3	NW LANTAU	3	74	ON	HKLR	826206	807351	WINTER	NONE	P
16-Dec-16	2	1359	8	NW LANTAU	3	ND	OFF	HKLR	827051	805334	WINTER	NONE	
19-Dec-16	1	1105	6	NW LANTAU	2	17	ON	HKLR	826942	804829	WINTER	NONE	P
19-Dec-16	2	1204	4	NW LANTAU	2	272	ON	HKLR	829219	806502	WINTER	NONE	P
19-Dec-16	3	1222	2	NW LANTAU	2	26	ON	HKLR	827680	806489	WINTER	NONE	P
16-Jan-17	1	1027	1	NW LANTAU	2	84	ON	HKLR	815336	804713	WINTER	NONE	P
16-Jan-17	2	1041	5	NW LANTAU	3	22	ON	HKLR	816920	804716	WINTER	NONE	P
16-Jan-17	3	1211	3	NW LANTAU	3	121	ON	HKLR	828289	806500	WINTER	NONE	P
16-Jan-17	4	1226	4	NW LANTAU	2	200	ON	HKLR	826916	806446	WINTER	NONE	P
7-Feb-17	1	1259	3	NW LANTAU	3	ND	OFF	HKLR	828941	807511	WINTER	NONE	
9-Feb-17	1	1510	1	NW LANTAU	4	515	ON	HKLR	829996	805999	WINTER	NONE	S
16-Feb-17	1	1006	2	NW LANTAU	2	325	ON	HKLR	815481	804610	WINTER	NONE	P
16-Feb-17	2	1027	2	NW LANTAU	2	ND	OFF	HKLR	818991	804710	WINTER	NONE	
16-Feb-17	3	1115	2	NW LANTAU	2	1311	ON	HKLR	830541	804672	WINTER	NONE	P
16-Feb-17	4	1139	7	NW LANTAU	2	98	ON	HKLR	827813	806448	WINTER	NONE	P
16-Feb-17	5	1210	8	NW LANTAU	2	4	ON	HKLR	823927	806152	WINTER	NONE	P

Annex III. Individual dolphins identified during HKLR03 monitoring surveys in December 2016 - February 2017

ID#	DATE	STG#	AREA
CH34	19/12/16	1	NW LANTAU
CH105	16/02/17	5	NW LANTAU
NL46	16/12/16	2	NW LANTAU
	16/01/17	3	NW LANTAU
NL98	16/12/16	2	NW LANTAU
	16/02/17	5	NW LANTAU
NL104	19/12/16	1	NW LANTAU
	16/02/17	4	NW LANTAU
NL120	16/12/16	1	NW LANTAU
NL123	16/02/17	5	NW LANTAU
NL136	16/12/16	2	NW LANTAU
	16/01/17	3	NW LANTAU
NL182	01/12/16	1	NW LANTAU
	16/12/16	2	NW LANTAU
NL202	16/12/16	2	NW LANTAU
	19/12/16	1	NW LANTAU
	19/12/16	3	NW LANTAU
	16/01/17	4	NW LANTAU
	16/02/17	4	NW LANTAU
NL203	19/12/16	2	NW LANTAU
NL210	16/01/17	4	NW LANTAU
	09/02/17	1	NW LANTAU
NL226	16/12/16	1	NW LANTAU
NL260	16/02/17	5	NW LANTAU
NL269	16/01/17	2	NW LANTAU
NL286	16/12/16	2	NW LANTAU
	19/12/16	1	NW LANTAU
	19/12/16	3	NW LANTAU
	16/01/17	4	NW LANTAU
	16/02/17	4	NW LANTAU
NL296	16/12/16	1	NW LANTAU
NL320	16/02/17	4	NW LANTAU
NL321	19/12/16	1	NW LANTAU
	16/02/17	4	NW LANTAU

ID#	DATE	STG#	AREA
WL17	19/12/16	2	NW LANTAU
WL28	16/01/17	2	NW LANTAU
WL145	16/01/17	2	NW LANTAU
	16/02/17	1	NW LANTAU
WL179	16/02/17	5	NW LANTAU
WL234	16/01/17	3	NW LANTAU
WL261	16/02/17	5	NW LANTAU
WL275	07/02/17	1	NW LANTAU
	16/02/17	4	NW LANTAU

Annex IV. Twenty-six individual dolphins that were identified during December 2016 to February 2017 under HKLR03 impact phase monitoring surveys

Annex IV. (cont'd)


NL104


NL120


NL123


NL136

Annex IV. (cont'd)

NL182

NL202

NL203

NL210

Annex IV. (cont'd)


NL226


NL260


NL269


NL286

Annex IV. (cont'd)


NL296


NL320

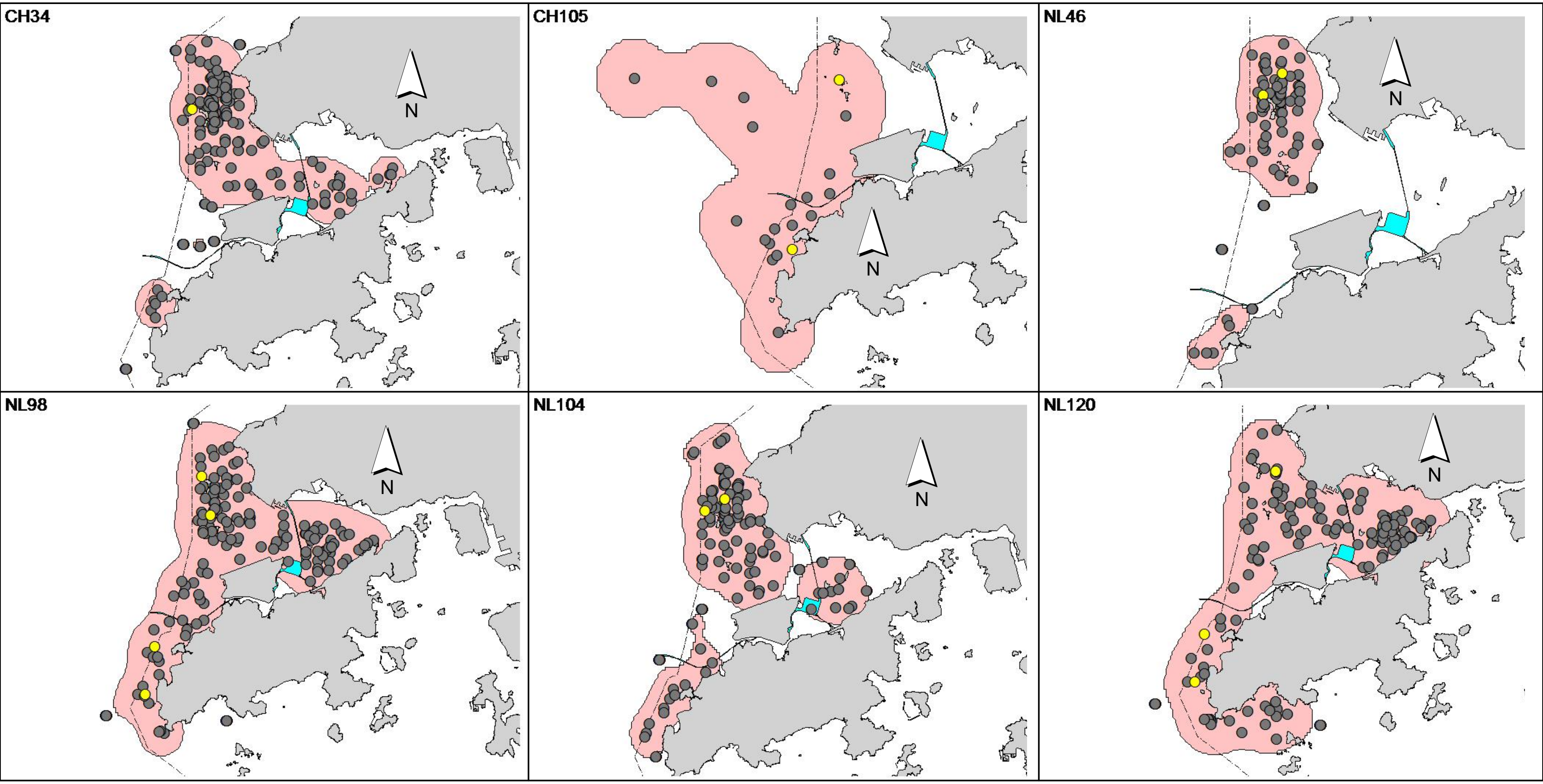

NL321


WL17

Annex IV. (cont'd)

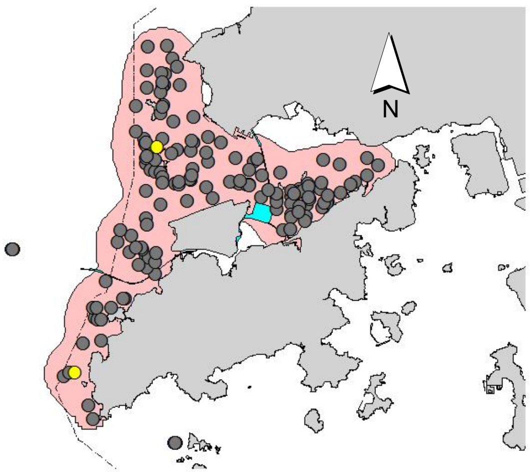
Annex IV. (cont'd)

Annex V. Ranging patterns (95% kernel ranges) of 26 individual dolphins that were sighted during HKLR03 impact phase monitoring period (note: yellow dots indicates sightings made in December 2016 – February 2017 during HZMB-related monitoring surveys)

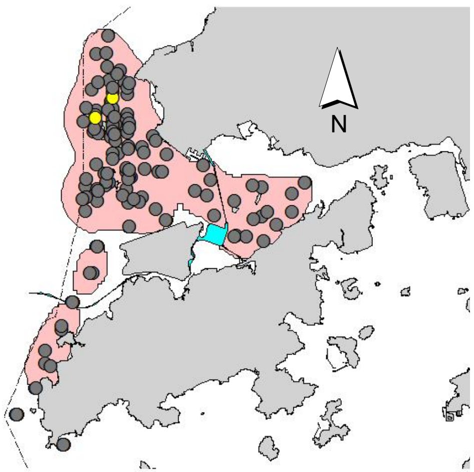


Annex V. (cont'd)

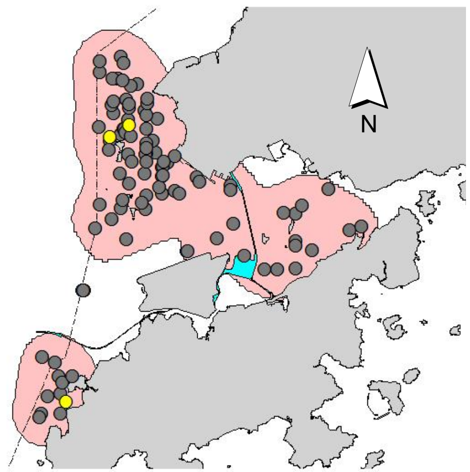
NL123



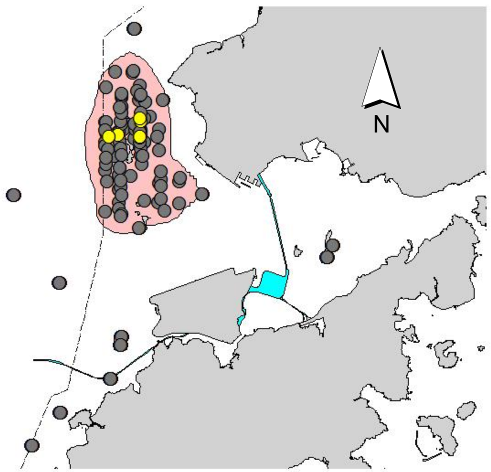
NL136



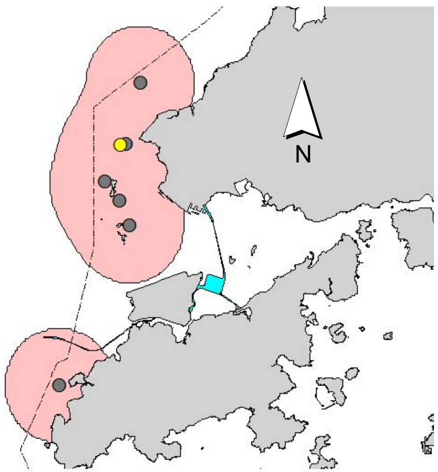
NL182



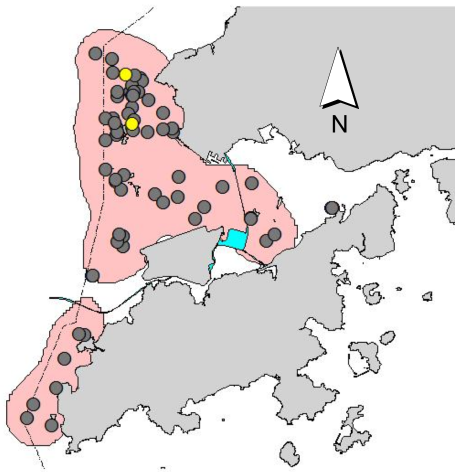
NL202



NL203

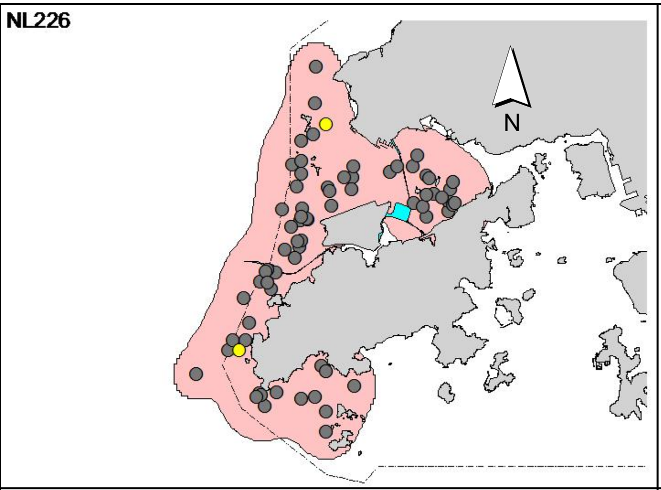


NL210

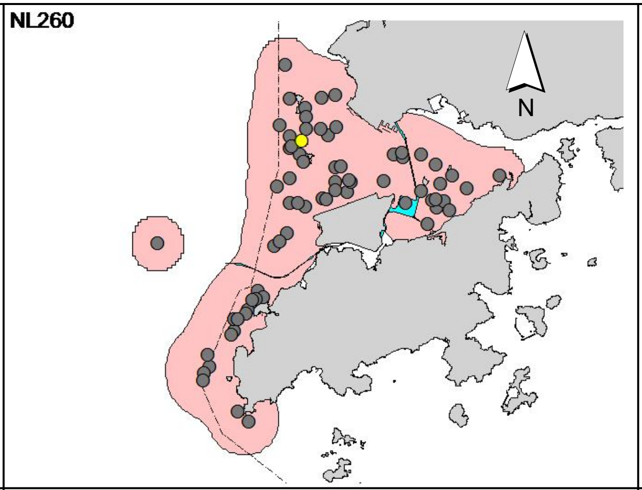


Annex V. (cont'd)

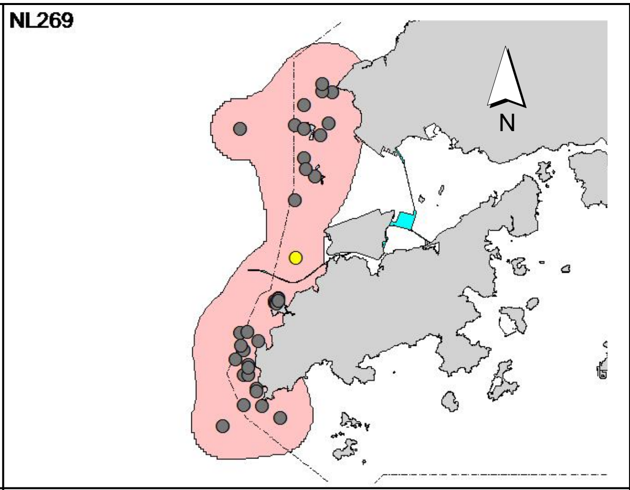
NL226



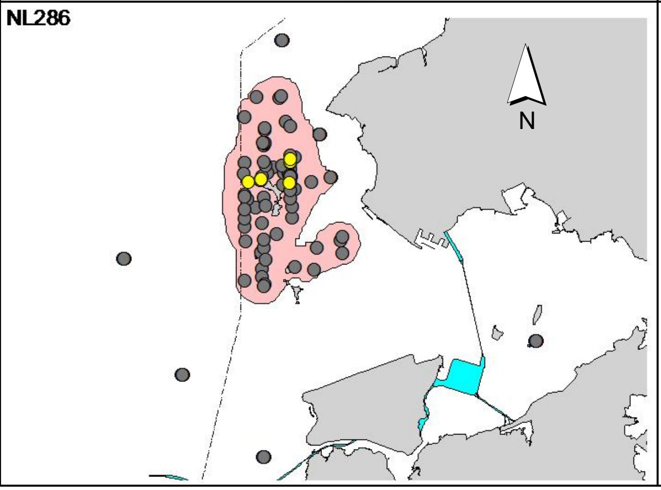
NL260



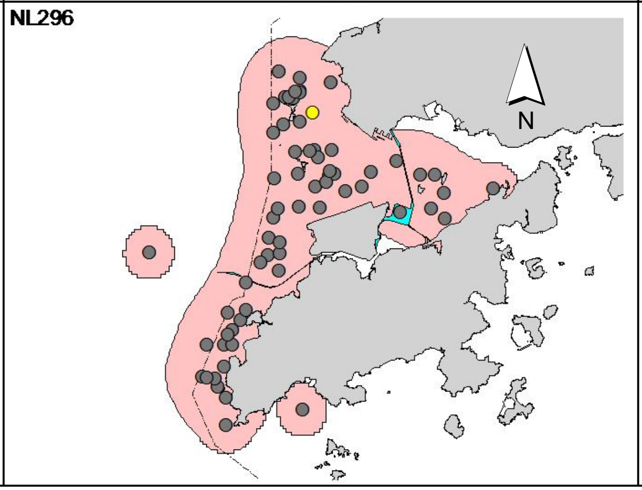
NL269



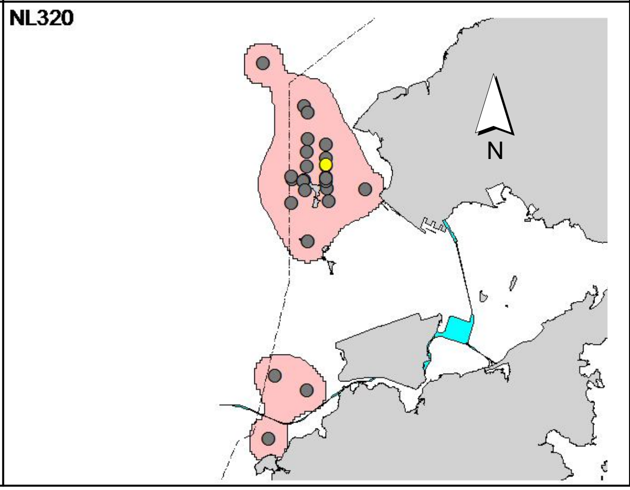
NL286



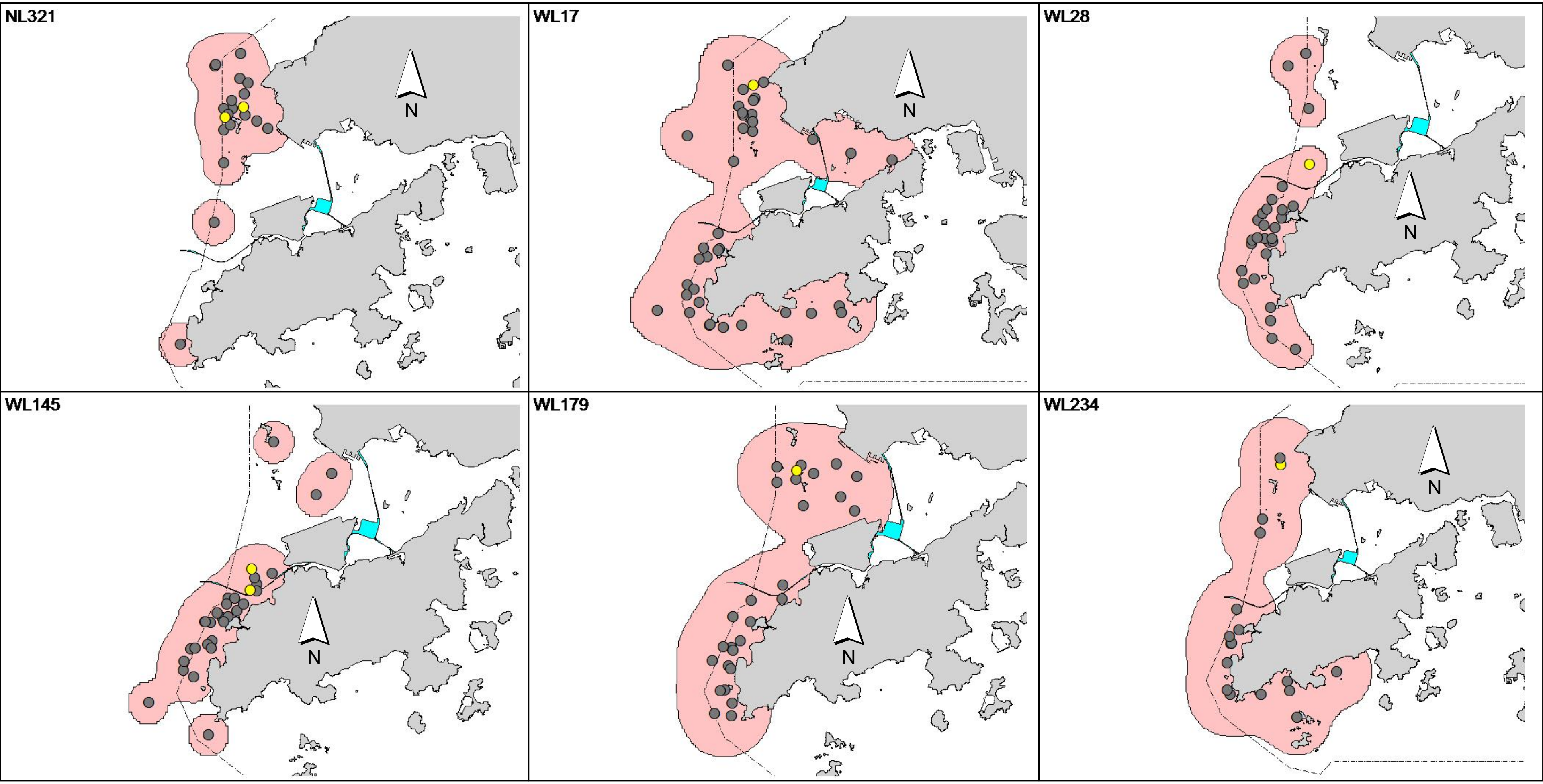
NL296



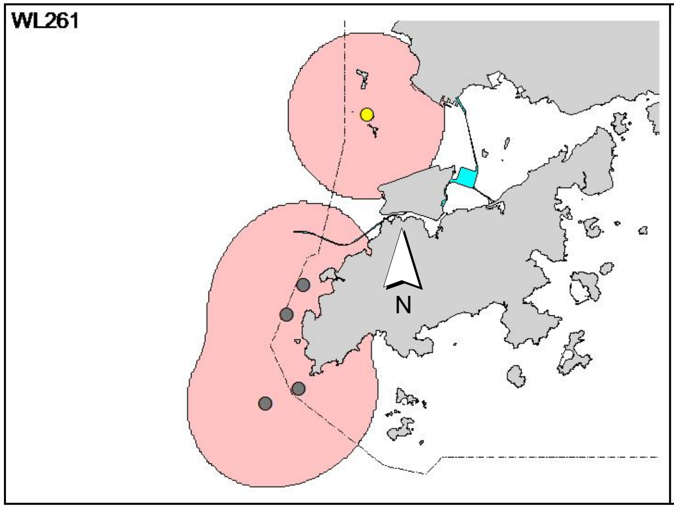
NL320



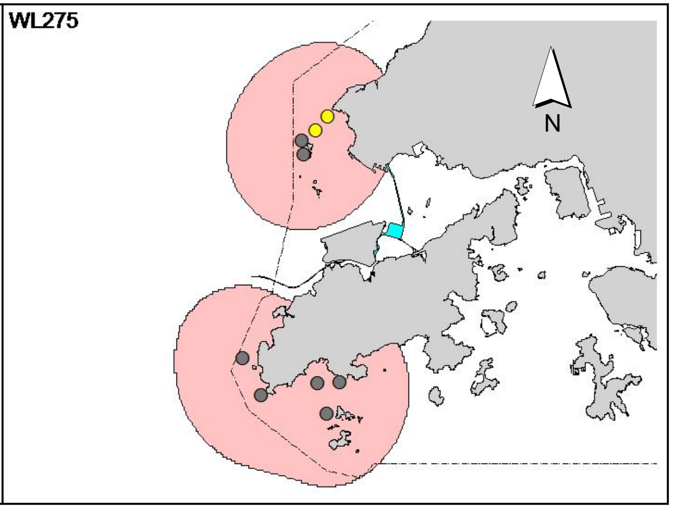
Annex V. (cont'd)



Annex V. (cont'd)



WL261



WL275

APPENDIX K

Waste Flow Table

MONTHLY SUMMARY WASTE FLOW TABLE
Name of Department: HyD

Contract No.: HY/2011/03

Monthly Summary Waste Flow Table for 2016

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	**Hard Rock and Large Broken Concrete**	**Reused in the Contract** *(Note 8)*	**Reused in Other Projects** *(Note 8)*	**Disposed as Public Fill** *(Note 6)*	**Imported Fill** *(Note 6)*	**Metals**	**Paper / Cardboard Packaging**	**Plastics** *(Note 3)*	**Chemical Waste**	**Others, e.g. general refuse** *(Note 8)*
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
Jan	39.443	0.000	6.108	33.336	0.000	0.000	5.203	0.500	0.000	0.000	0.475
Feb	21.122	0.000	2.808	18.314	0.000	0.000	11.764	0.400	0.000	0.000	0.475
Mar	30.254	0.000	1.752	28.374	0.128	0.000	4.956	0.250	0.000	0.000	0.468
Apr	61.096	0.000	2.488	58.440	0.168	0.000	9.168	0.000	0.000	0.800	0.618
May	49.255	0.000	3.448	45.447	0.360	0.000	9.238	0.000	0.000	0.000	0.429
Jun	36.997	0.000	3.184	33.357	0.456	0.000	3.577	0.000	0.000	0.000	0.436
Sub-total	238.167	0.000	19.788	217.267	1.112	0.000	43.906	1.150	0.000	0.800	2.899
Jul	31.205	0.000	3.616	27.397	0.192	0.000	3.264	0.000	0.000	0.000	0.468
Aug	38.615	0.000	3.848	34.199	0.568	0.000	4.832	0.000	0.000	0.510	0.390
Sep	73.499	1.159	4.408	67.212	0.720	0.000	12.142	0.000	0.000	0.000	0.481
Oct	91.194	4.589	3.216	82.365	1.024	0.000	18.958	0.000	0.000	0.000	0.423
Nov	63.524	4.497	2.576	55.659	0.792	0.000	19.671	0.200	0.000	0.000	0.845
Dec	46.564	0.000	2.864	42.220	1.480	0.000	8.178	0.000	0.000	0.000	0.748
Sub- total	344.601	10.245	20.528	309.052	4.776	0.000	67.045	0.200	0.000	0.510	3.354
Total	582.768	10.245	40.316	526.320	5.888	0.000	110.951	1.350	0.000	1.310	6.253

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	**Hard Rock and Large Broken Concrete**	**Reused in the Contract**	**Reused in Other Projects**	**Disposed as Public Fill**	**Imported Fill**	**Metals**	**Paper / Cardboard Packaging**	**Plastics** (see Note 3)	**Chemical Waste**	**Others, e.g. general refuse**
(in '000m^3)	**(in '000m^3)**	**(in '000m^3)**	**(in '000m^3)**	**(in '000m^3)**	**(in '000m^3)**	**(in '000kg)**	**(in '000kg)**	**(in '000kg)**	**(in '000kg)**	**(in '000m^3)**
310.805	21.788	224.130	40.265	24.622	1362.000	10.000	4.600	0.500	3.400	2.350

Notes:
(1) The performance target are given in ER Appendix 8J Clause 14
(2) The waste flow table shall also include C&D materials that are not specified in the Contract to be imported for use at the Site
(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
(4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m^3.
(5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
(6) Conversion factors for reporting purpose:
excavated (bulk): rock = 2.0 tonnes/m^3; soil = 1.8 tonnes/m^3, sand=1.9 tonnes/m^3 Metal=7.85 tonnes/m^3
(7) Numbers are rounded off to the nearest three decimal places
(8) 30T dump truck carries C&D waste of 8.0m^3; 24T dump truck carries C&D waste of 6.5m^3

MONTHLY SUMMARY WASTE FLOW TABLE

Name of Department: HyD

Contract No.: HY/2011/03

Monthly Summary Waste Flow Table for 2017

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract *(Note 8)*	Reused in Other Projects *(Note 8)*	Disposed as Public Fill *(Note 6)*	Imported Fill *(Note 6)*	Metals	Paper / Cardboard Packaging	Plastics *(Note 3)*	Chemical Waste	Others, e.g. general refuse *(Note 8)*
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
Jan	15.114	0.000	2.656	10.522	1.936	0.000	10.614	0.000	0.000	0.000	0.741
Feb	5.494	0.000	3.320	0.910	1.264	0.000	13.291	0.000	0.000	0.000	0.663
Mar											
Apr											
May											
Jun											
Sub-total	20.607	0.000	5.976	11.431	3.200	0.000	23.905	0.000	0.000	0.000	1.404
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Sub- total											
Total											

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*

Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
310.805	21.788	224.130	40.265	24.622	1362.000	10.000	4.600	0.500	3.400	2.350

Notes:
(1) The performance target are given in ER Appendix 8J Clause 14
(2) The waste flow table shall also include C&D materials that are not specified in the Contract to be imported for use at the Site
(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
(4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m^3.
(5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
(6) Conversion factors for reporting purpose:
excavated (bulk): rock = 2.0 tonnes/m^3; soil = 1.8 tonnes/m^3, sand=1.9 tonnes/m^3 Metal=7.85 tonnes/m^3
(7) Numbers are rounded off to the nearest three decimal places
(8) 30T dump truck carries C&D waste of 8.0m^3; 24T dump truck carries C&D waste of 6.5m^3

APPENDIX L

Summary of Environmental Licenses and Permits

Summary of Environmental Licences and Permits Application and Status

Environmental Permit

Date Application Submitted	Status	Date EP Issued	EP No.	EP Holder	Expiry Date
04.12.2014	VEP issued	22.12.2014	EP-352/2009/D	Highways Department	N/A
24.03.2016	VEP Issued	11.04.2016	EP-353/2009/K	Highways Department	N/A

Notification of Carrying Out Notifiable Works under Air Pollution Control (Construction Dust) Regulation

Date Notification Submitted	Notification Ref. No.	Valid Since	Expiry Date
25.05.2012	345690	01.06.2012	N/A

Notification of Carrying Out Notifiable Works under Air Pollution Control (Construction Dust) Regulation Form NB

Date Notification Submitted	Notification Ref. No.	Valid Since	Expiry Date
31.07.2015	391702	31.07.2015	N/A

Billing Account for Disposal of Construction Waste

Date Application Submitted	Account No	Valid Since	Expiry Date
01.06.2012	7015313	27.06.2012	N/A

Dumping at Sea Ordinance

Item No.	Date Application Submitted	Works Area Applied	Description	Status	Permit No.	Validity of Permit	
						From	To
1.	07.10.2016	SHT & HAT Tunnel	Cat. L Dredged / Excavated Sediment Requiring Type 1 – Open Sea Disposal Cross-boundary Disposal	Permit issued on 27.10.2016	EP/MD/17-119 (Superseded by EP/MD/17-137)	03.11.2016	02.12.2016
2.	07.11.2016	SHT & HAT Tunnel	Cat. L Dredged / Excavated Sediment Requiring Type 1 – Open Sea Disposal Cross-boundary Disposal	Permit issued on 07.12.2016	EP/MD/17-137	07.12.2016	06.01.2017
3.	07.12.2016	SHT & HAT Tunnel	Cat. L Dredged / Excavated Sediment Requiring Type 1 – Open Sea Disposal Cross-boundary Disposal	Permit issued on 06.01.2017	EP/MD/17-155	07.01.2017	06.02.2017

Chemical Waste Producer Registration

Date Registration Submitted	Waste Producer No.	Date Registration Issued	Major Waste Type	Expiry Date
20.06.2012	5213-950-C1169-43	12.07.2012	Spent lubricating oil, spent flammable liquid (diesel), surplus paint, spent organic solvent and their containers, spent batteries, soil containing mineral oil	N/A

Wastewater Discharge License

Item No.	Date Application Submitted	Area Applied	Status	Expiry Date
1	22.06.2012	Site Office for Supervising Officer (WA6)	Application Ref. No. 346651 Letter from the EPD (Ref: EP/RS/0000346267) dated 19.07.2012 confirming that license under WPCO is not required.	N/A
2	04.07.2012	Site Office for China States (WA6)	Application Ref. No. 346982	Valid until

			Water Discharge License WT00014182-2012 was granted on 20 Sep 2012	30/09/2017
3.	31.07.2012	Portion B, Portion X & Portion Y	Application Ref. No. 348019 Water Discharge License WT00014118-2012 was granted on 20 Sep 2012	Valid until 30/092017
4.	15.01.2013	WA 3	Application Ref No.356237 Water Discharge License Ref. WT00015423-2013 was granted on 4 Mar 2013	Valid until 31/03/2018
5.	15.01.2013	WA 4	Application Ref No. 356240 Water Discharge License Ref. WT00016158-2013 was granted on 30 Jul 2013	Valid until 31/07/2018
6	02.04.2013	Airport Road (Southern)	Water discharge license Ref. WT00015866-2013 was granted on 29 Apr 2013	Valid until 30/04/2018
7	26.10.2015	Airport Road (Northern)	Water discharge license Ref. WT00023165-2015 was granted on 21 Dec 2015	Valid until 30/04/2018

Construction Noise Permit

Item No.	Date Application Submitted	Works Area Applied	Description	Status	CNP No.	Validity of CNP	
						From	To
1.	11.07.2016	SHT&HAT	Percussive Pilling	CNP issued on 28.07.2016	PP-RS0018-16	29.07.2016 0700	21.01.2017 1900
2.	20.06.2016	Reclamation Area	Marine Works	CNP issued on 04.07.2016	GW-RS0680-16 (Superseded by GW-RS1135-16)	06.07.2016 1900	05.01.2017 2400
3.	30.10.2016	Reclamation Area	Marine Works	CNP issued on 15.11.2016	GW-RS1135-16	15.11.2016 1900	14.05.2017 2400
4.	01.08.2016	Airport Road	Road Works	CNP issued on 15.08.2016	GW-RS0862-16 (Superseded by GW-RS1104-16)	17.08.2016 1900	16.02.2017 2300
5.	20.10.2016	Airport Road	Road Works	CNP issued on 31.10.2016	GW-RS1104-16	31.10.2016 1900	30.04.2017 2400
6.	26.08.2016	Shaft 4	Tunnel Works	CNP issued on 09.09.2016	GW-RS0938-16	14.09.2016 1900	13.03.2017 2400
7.	12.09.2016	WA4	Loading/ Unloading of stockpiles	CNP issued on 23.09.2016	GW-RW0553-16	30.09.2016 0000	29.03.2017 2400
8.	09.09.2016	WA3	Stockpiling/wastewater treatment	CNP issued on 15.09.2016	GW-RS0975-16	28.09.2016 0000	27.03.2017 2400

Item No.	Date Application Submitted	Works Area Applied	Description	Status	CNP No.	Validity of CNP	
						From	To
9.	19.10.2016	West Portal	Tunnel / Building Works	CNP issued on 19.10.2016	GW-RS1112-16	09.11.2016 0000	08.05.2017 2400
10.	26.10.2016	A1 Bridge	Bridge Construction	CNP issued on 09.11.2016	GW-RS1113-16	12.11.2016 1900	11.05.2017 2300
11.	04.05.2016	Shaft 1-3	Tunnel works	CNP issued on 13.05.2016	GW-RS0554-16	03.06.2016 1900	02.12.2016 2400
12.	30.06.2016	Shaft 2-3	Box-Jacking (Special Case)	CNP issued on 14.07.2016	GW-RS0740-16	19.07.2016 0000	18.01.2017 0500
13.	13.09.2016	Airport Road	Road Maintenance Works (Special Case)	CNP issued on 15.09.2016	GW-RS0979-16	01.10.2016 1900	31.12.2016 0700
14.	19.10.2016	Airport Road N13	Road Works (Special Case)	CNP issued on 31.10.2016	GW-RS1097-16	31.10.2016 1900	30.04.2017 2400
15.	26.10.2016	East Coast Rd	Solider Pile Construction (Special Case)	CNP issued on 09.11.2016	GW-RS1110-16	09.11.2016 0100	08.02.2017 0500

APPENDIX M

Record of “Notification of Environmental Quality Limit Exceedances

Contract No. HY/2011/03 -
Hong Kong- Zhuhai- Macao Bridge
Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities
Notifications of Environmental Quality Limits Exceedances Notification No.: 232 ver 0

Date of Notification: 22 December 2016

Works Inspected: Data collected from water sampling works on 14 December 2016 and the results were issued on 21 December 2016

Monitoring Location: Water Quality Monitoring Station

Parameter: ~~Dissolved Oxygen (DO)/~~ Suspended Solid (SS)/ ~~Turbidity (TURB)~~

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	IS(Mf)6	DA	**23.5** and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: 13.18 x 120% = **15.8** for mid ebb AND CS(Mf)5: 8.73 x 120% = **10.5** for mid flood)	**34.4** and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: 13.18x 130% = **17.1** for mid ebb AND CS(Mf)5: 8.73 x 130% = **11.3** for mid flood)	4.5	***31.6***
SS	IS7	DA			5.5	***25.4***
SS	SR4	DA			14.2	***25.5***

Notes:
DA means depth average.
Bold Italic means AL exceedances.
<u>Bold Italic with underline</u> means LL exceedances.

Possible reason for Action and Limit Level Non-compliance:

On 14 December 2016, Action Level exceedances of suspended solid were recorded at stations IS(Mf)6, IS7 and SR4 during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

1. Removal of surcharge, box culvert construction works at Zones 1 and 2, seawall construction works at Zones 1, 2 and 3A, ground investigation works, toe loading works and drilling of pipe pile at Zone 1, transportation of fill material at Zone 3A were carried out within silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at stations IS(Mf)6, IS7 and SR4 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide			Range of Suspended Solid (mg/L) Mid-Flood Tide		
IS(Mf)6	7.1	to	19	8.5	to	35
IS7	6.1	to	21	7.8	to	34
SR4	5.3	to	20	5.6	to	24.5

   The measured values at stations IS(Mf)6 and IS7 were below the range of suspended solid for mid-flood tide during baseline monitoring while the measured values at station SR4 were slightly above the range of suspended solid for mid-flood tide during baseline monitoring.

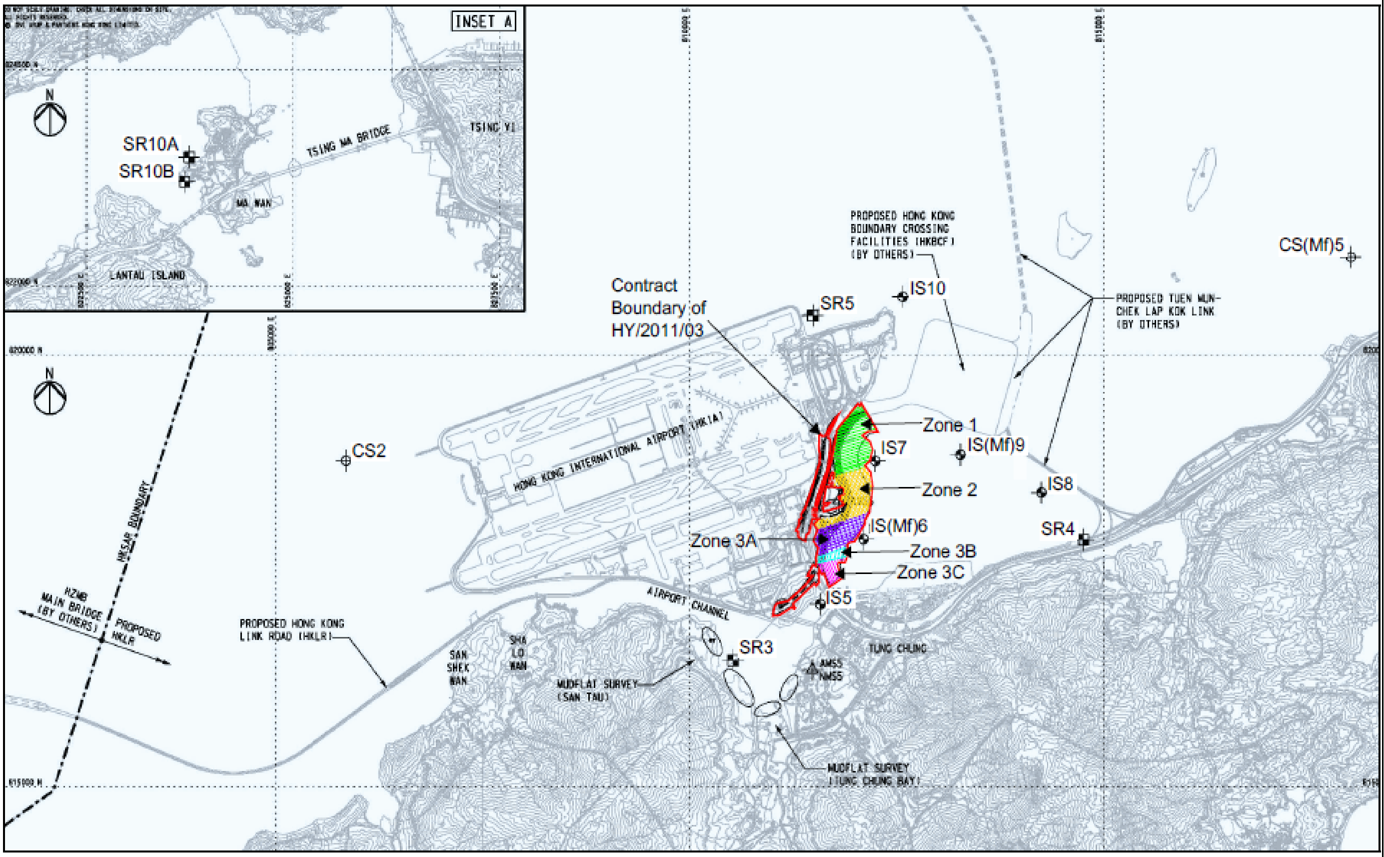
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. No marine works was conducted near monitoring stations SR4 which are located outside the site boundary of HKLR03 Contract. Also, there was no muddy plume observed at stations IS(Mf)6, IS7 and SR4 during sampling exercise.
4. No leakage of turbid water or any abnormity or malpractice for all contract works was observed during the sampling exercise.

As such, the exceedances of suspended solid levels are considered to be attributed to other external factors such as sea condition, rather than the contract works.

Actions taken/ to be taken:

As the suspended solid levels recorded beyond the water quality criteria were not related to the contract works, no immediate actions are considered necessary. However, the Contractor is reminded to ensure that the silt curtain is fully maintained throughout the construction works and construction works are carried out under stringent supervision to prevent any water quality impacts to the seawater.

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 6 January 2017

Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO

Contract No. HY/2011/03 -
Hong Kong- Zhuhai- Macao Bridge
Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities
Notifications of Environmental Quality Limits Exceedances Notification No.: 233 ver 2

Date of Notification: 22 February 2017

Works Inspected: Data collected from water sampling works on 15 February 2017 and the results were issued on 22 February 2017

Monitoring Location: Water Quality Monitoring Station

Parameter: ~~Dissolved Oxygen (DO)/~~ Suspended Solid (SS)/ ~~Turbidity (TURB)~~

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	SR10B	DA	**23.5** and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: 13.18 x 120% = **15.8** for mid ebb AND CS(Mf)5: 8.73 x 120% = **10.5** for mid flood)	**34.4** and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: 13.18x 130% = **17.1** for mid ebb AND CS(Mf)5: 8.73 x 130% = **11.3** for mid flood)	***27.8***	18.1

Notes:
DA means depth average.
Bold Italic means AL exceedances.
Bold Italic with underline means LL exceedances.

Possible reason for Action and Limit Level Non-compliance:

On 15 February 2017, an Action Level exceedance of suspended solid was recorded at station SR10B during mid-ebb tide. The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

1. Removal of surcharge, box culvert construction at Zones 1 and 2, drilling of pipe pile at Zone 1, seawall construction at Zones 2 and 3A, and transportation of fill material on land at Zone 3A were carried out within the properly aligned silt curtain as recommended in the EIA Report.
2. Stockpiling of public fill materials was conducted on land at Work Area 7 (WA7). If there was suspended sediment plume at WA7 during mid-ebb tide, suspended solid will be generally carried to the downstream of work area instead of to the upstream (i.e. station SR10B). On the other hand, no muddy runoff was observed during the sampling exercise and bunding covered with geotextile has been constructed as control measures to prevent site runoff entering into marine water.
3. The ranges of suspended solid at station SR10B during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide			Range of Suspended Solid (mg/L) Mid-Flood Tide		
SR10B	3.1	to	30.8	5.7	to	26.7

The measured value for mid-ebb tide at station SR10B was within the range of suspended solid for mid-ebb tide during baseline monitoring.

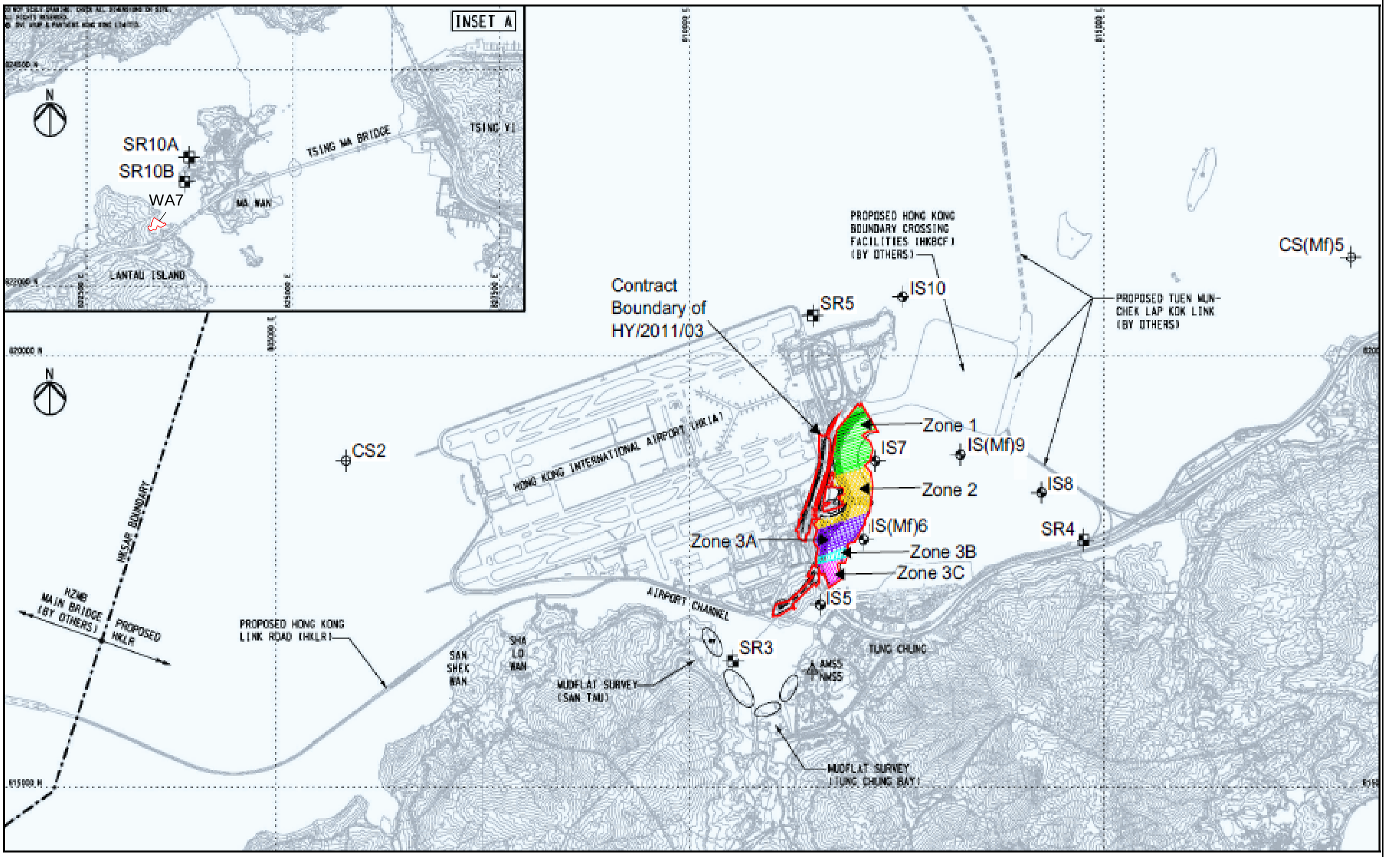
4. No marine transportation of fill material under this contract was conducted on that day.
5. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. No marine works were conducted near monitoring station SR10B.
6. No leakage of turbid water or any abnormity or malpractice for all contract works was observed during the sampling exercise.

As such, the exceedance of suspended solid levels is considered to be attributed to other external factors such as sea condition, rather than the contract works.

Actions taken/ to be taken:

As the suspended solid level recorded beyond the water quality criteria was not related to the contract works, no immediate actions are considered necessary. However, the Contractor is reminded to ensure that the silt curtain is fully maintained throughout the construction works and construction works are carried out under stringent supervision to prevent any water quality impacts to the seawater.

Location Plan:



Reviewed by	: Claudine Lee	Title	:	ET Leader
		Date	:	10 March 2017

Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO

Contract No. HY/2011/03 -
Hong Kong- Zhuhai- Macao Bridge
Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities
Notifications of Environmental Quality Limits Exceedances Notification No.: 234 ver 2

Date of Notification: 24 February 2017

Works Inspected: Not Applicable

Monitoring Location: NEL & NWL

Parameter: Ecology (Chinese White Dolphin Monitoring)

Action & Limit Levels			**Monitoring Results**
	North Lantau Social Cluster		The quarter of December 2016 – February 2017
	Action Level (AL)	Limit Level (LL)	
Northeast Lantau (NEL)	STG < 4.2 & ANI < 15.5	NEL: (STG < 2.4 & ANI < 8.9) and NWL: (STG < 3.9 & ANI < 17.9)	***STG = 0; ANI = 0***
Northwest Lantau (NWL)	STG < 6.9 & ANI < 31.3		***STG = 3.80; ANI =14.52***

Notes:

1. STG means quarterly encounter rate of number of dolphin sightings.
2. ANI means quarterly encounter rate of total number of dolphins.
3. For North Lantau Social Cluster, AL will be triggered if either NEL or NWL falls below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.
4. ***Bold Italic*** means AL exceedances.
5. ***Bold Italic with underline*** means LL exceedances

Possible reason for Limit Level Non-compliance:

There was one Limit Level exceedance of dolphin monitoring for the quarterly monitoring data (between December 2016 – February 2017). According to the contractor's information, the marine activities undertaken for HKLR03 during the quarter of December 2016 – February 2017 included piling works, removal of surcharge materials, road and drainage works, temporary drainage diversion, ground investigation, box culvert diversion, construction of permanent seawall and maintenance of silt curtain.

There is no evidence showing the current LL non-compliance directly related to the construction works of HKLR03 (where the amounts of working vessels for HKLR03 have been decreasing), although the generally increased amount of vessel traffic in NEL during the impact phase has been partly contributed by HKLR03 works since October 2012. It should also be noted that reclamation work under HKLR03 (adjoining the Airport Island) situates in waters which has rarely been used by dolphins in the past, and the working vessels under HKLR03 have been travelling from source to destination in accordance with the Marine Travel Route to minimize impacts on Chinese White Dolphin (CWD). In addition, the contractor will implement proactive mitigation measures such as avoiding anchoring at Marine Department's designated anchorage site – Sham Shui Kok Anchorage (near Brothers Island) as far as practicable.

According to Monitoring of Chinese White Dolphins in Southwest Lantau Waters – Fourth Quarterly Report (December 2015 to February 2016) which is available on ENPO's website, with their primary ranges centered in North and West Lantau waters, some individuals showed apparent range shifts or extensions to Southwest Lantau waters in 2015-16. For example, three individual dolphins (NL120, WL46 and WL221) indicated obvious shifts in their range use from NWL to West Lantau (WL) and Southwest Lantau (SWL) waters. Moreover, many individuals (e.g. NL212, NL260, WL200, SL55, WL232, WL237 and WL265) have extended their ranges from WL waters to SWL waters. It remains to be seen whether some of these individuals have permanently shifted their ranges away from their primary ranges in North Lantau, or begin to spend more times in SWL waters as part of their ranges.

ENPO updated that the Hong Kong-Zhuhai-Macao Bridge Authority (HZMBA) for the Mainland section of Hong Kong-Zhuhai-Macao Bridge (HZMB) has commenced an interim survey on fisheries resources and CWD in the Mainland waters. ENPO presented the preliminary findings of the HZMBA interim survey on CWD sighting and photo-identification works which provide solid evidence that some CWD that were previously more often sighted in HK waters have expanded their ranges into the Mainland waters, and some with reduced usage in HK waters. These preliminary data were mentioned in Monitoring of Chinese White Dolphins in Southwest Lantau Waters – Fourth Quarterly Report (December 2015 to February 2016) which is available on ENPO's website.

Inform the IEC, ENPO, ER/SOR and Contractor

The ETL informed IEC, ENPO, SOR and Contractor via email on 24 February 2017.

Repeat statistical data analysis to confirm findings and check monitoring data:

A two-way ANOVA with repeated measures and unequal sample size was conducted to examine whether there were any significant differences in the average encounter rates between the baseline and impact monitoring periods. The two variables that were examined included the two periods (baseline and impact phases) and two locations (NEL and NWL).

For the comparison between the baseline period and the present quarter (seventeenth quarter of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.0110 and 0.0440 respectively. If the alpha value is set at 0.05, significant differences were detected between the baseline and present quarters in both the average dolphin encounter rates of STG and ANI.

For comparison between the baseline period and the cumulative quarters in impact phase (i.e. first seventeen quarters of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.000003 and 0.000001 respectively. Even if the alpha value is set at 0.00001, significant differences were still detected in both the average dolphin encounter rates of STG and ANI (i.e. between the two periods and the locations).

Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences:

The AFCD monitoring data during December 2016 to February 2017 has been reviewed by the dolphin specialist. During the same quarter, no dolphin was sighted from 169.50 km of survey effort on primary lines in NEL, while five groups of 24 dolphins were sighted from 231.50 km of survey effort on primary lines in NWL. This review has confirmed that the low occurrence of dolphins reported by the HKLR03 monitoring surveys in winter 2016-17 in NEL and NWL survey area is accurate.

Recommendations/ mitigation measures/ actions if necessary:

Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary:

All dolphin protective measures are fully and properly implemented in accordance with the EM&A Manual. According to the Regular Marine Travel Route Plan, the travelling speed of vessels must not exceed 5 knots when crossing the edge of the marine park. The Contractor will continue to provide training for skippers to ensure that their working vessels travel from source to destination to minimize impacts on Chinese White Dolphin and avoid anchoring at Marine Department's designated anchorage site - Sham Shui Kok Anchorage (near Brothers Island) as far as practicable. Also, it is recommended to complete the marine works of the Contract as soon as possible so as to reduce the overall duration of impacts and allow the dolphins population to recover as early as possible.

A meeting was held on 29 May 2017 with attendance of representative of ENPO, Resident Site Staff (RSS), Environmental Team (ET) and dolphin specialist for Contract Nos. HY/2010/02, HY/2011/03, HY/2012/07, HY/2012/08. The discussion/recommendation as recorded in the minutes of the meeting, which might be relevant to HKLR03 Contract are summarized below.

It was concluded that the HZMB works is one of the contributing factors affecting the dolphins. It was also concluded the contribution of impacts due to the HZMB works as a whole (or individual marine contracts) cannot be quantified nor separate from the other stress factors.

The dolphin specialists of the projects confirmed that the CWD sighting around the North of Sha Chau and Lung Kwu Chau Marine Park (SCLKCMP) has significantly decreased, and it was likely related to the re-routing of high speed ferry (HSF) from Skypier.

It was reminded that the ETs shall keep reviewing the implementation status of the dolphin related mitigation measures and remind the contractor to ensure the relevant measures were fully implemented.

It was recommended that the marine works of HZMB projects should be completed as soon as possible so as to reduce the overall duration of impacts and allow the dolphins population to recover as early as possible.

It was also recommended that the marine works footprint (e.g., reduce the size of peripheral silt curtain) and vessels for the marine works should be reduced as much as possible, and vessels idling / mooring in other part of the North Lantau shall be avoided whenever possible.

HyD updated that the draft map of the proposed Brothers Marine Park (BMP) was gazetted in February 2016. ENPO updated that the BMP was approved by the Chief Executive in the Executive Council in August 2016. The ETs were reminded to update the BMP boundary in the Regular Marine Travel Route (RMTR) Plan. The BMP was designated on 30 December 2016. It was suggested that the protection measures (e.g. speed limit control) for the approved BMP shall be brought forward so as to provide a better habitat for dolphin recovery. It was noted that under the latest RMTR Plan, the contractors have committed to reduce the vessel speed in BMP.

The marine travel route will shift along the edge of Brother Marine Park as much as practical under the RMTR Plan. It was noted that even though marine vessels may moor within the mooring site of BMP, commercial activities including loading / unloading / transshipment are not allowed except a permit is obtained. The HZMB works vessels were recommended to avoid the BMP.

It was remined that starting from January 2016, HSF from the SkyPier will be re-routed north to the northern edged of the Sha Chau and Lung Kwu Chau Marine Park which currently has the highest density of CWD in the NWL. While the HSF will reduce speed to 15 knots, the associated disturbance may still affect CWD in the area. It was implied that the CWDs in the area shall be closely followed.

There was a discussion on exploring possible further mitigation measures, for example, controlling the underwater noise. It was noted that the EIA reports for the projects suggested several mitigation measures, all of which have been implemented.

Reviewed by: Willie Wong

Title : Deputy ET Leader

Date : 26 September 2017

Copied to: Supervising Officer, ENPO, IEC, EPD, Contractor

Summary of Notifications of Summons and Prosecutions

Total No. of Notifications of Summons / Prosecutions Received	No. of Notifications of Summons / Prosecutions Received during Reporting Period	Status of Notifications of Summons / Prosecutions
0	0	N/A

APPENDIX N

Cumulative Statistic on Complaints

HyD Contract No.HY/2011/03
Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2012-008	22-Oct-2012	16:41	EPD	Environmental (Water Pollution)	X先生投訴東涌機場對出港珠澳大橋地盤，有污水排到海中（懷疑是油污），污染環境，要求跟進及回覆。 (Photos attached). The "phenomenon"was observed over the past week. The photos attached were taken on 19.10.2012, 22.10.2012 and 23.10.2012	Portion X	The pelican barge as shown in the photos provided on 24 October 2012 did not belong to the Contractor.	Closed	–
COM-2012-009	05-Nov-2012	–	1823 CASE: 1-391341859	Environmental (Noise and light)	The citizen complained about noise and light pollution from the barges working on the Zhuhai Macau Bridge project. Barge machinery working to about 10pm at night and sometimes can be heard intermittently through the night. The noise is more audible because the machinery is sited on/over the water.	Portion X	The Contractor has adjusted the emission angle of the lights on working vessels with a view to minimizing the glaring effect to the adjoining residential areas	Closed	–
COM-2012-009(2)	11-Nov-2012	–	1823 CASE: 1-391341859	Environmental (Noise, water quality & air quality)	The complainant noted that the barges are still working on a Sunday, up until 10pm at night, very noisy, causing pollution of the water and at times expelling black smoke from their engines. A photograph taken at 10.40am on Sunday 11 November 2012 was attached.	Portion X	–	Closed	–
COM-2012-009(3)	14-Nov-2012	–	1823 CASE: 1-391341859	Environmental (Noise)	The complainant did not accept the reply. He further said that "All staff has to do is come out either at night or a Sunday to check, so easy. If this continues I will have no choice to call the police out.”	Portion X	The Contractor has taken the following further mitigation measures for the reclamation works: (a) Mitigation Measures for Noise Nuisance: • Improvement of noise covers onto the generators / motors on barges; and • Increase frequency of applying lubricant to all moving parts and gear wheels of the working barges. (b) Mitigation Measures for Smoke Emission: • Increase frequency of maintenance and checking of engines on barges that may emit smoke; and • Installation/ replacement of smoke suppression device such as air filter, at engines where necessary.	Closed	–
COM-2012-010(1)	06-Nov-2012	–	<hzmbenquiry@hyd.gov.hk>	Environmental (Noise)	The complainant stated that lately work has started opposite Le Bleu Deux estate using barges. The work in process is generated high level of noise from powered tools used on those barges. Even if the noise was acceptable on weekdays during daytime, it is definitely creating nuisance to local resident at night (past 7pm) and on Sunday. Basically as 5 November 12 evening, he could not leave his window open as the elevel of noise prevent his baby to sleep and he could not even hear the TV in his flat. the noise coming from the site is higher then the sounds from my TV. He would like to know what measure you are planning to put in place to address this issue. He did not think that the current level of noise are acceptable past 7pm and on Sunday.	Portion X	–	Closed	–
COM-2012-010(2)	15-Nov-2012	–	<hzmbenquiry@hyd.gov.hk>	Environmental (Noise & air quality)	The noise can be very annoying, on days depending of the wind direction, you are making more noise than the plane taking off (I measured it myself), to give you an idea of the disturbance you are creating again. *I would also like to bring an other topic beside the noise. Since the beginning of the filling operation, very strong smell of exhaust pipe gas can be smelt in the residential area and I think this is a huge health concern for the local population. On certain days when the wind is blowing towards the residential areas, I have the feeling that there is a diesel engine running in my living room! I would like to know how you are planning to address this?*	Portion X	–	Closed	–

HyD Contract No.HY/2011/03
Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2012-010(3)	15-Nov-2012	–	EPD	Environmental (Noise, water quality & air quality)	The complainant has copied his reply from HyD dated 15 Nov 2012 to EPD and Health Department and he further complained on the following issues: • Noise nuisance generated by diesel engine; • Smell of exhaust pipe gas in his residence; and • Suspected marine water pollution (see enclosed photo). The complainant also requested EPD to install noise and air quality monitoring at Le Bleu Deux estate.	WA6 Portion X	Noise from blowing horn from vessels and barges and Metallic Parts thrown on Ground • Reminded the Contractor to request the captains of the vessels and barges not blowing the horn except in case of emergency or prevention of ship collisions/serious safety matters; • The supervision teams would enhance their tight control on the vessels and barges working at that location, and monitor the situation and take corresponding actions; and • To enhance the work force of RSS to supervise each step of construction activities and the use of hand tools until the completion of the site office erection. Noise from Engines and Cranes of the Barges during Marine Operation • Installation of noise covers onto the generators / motors on all working barges; • Increase frequency of applying lubricant to all moving parts and gear wheels of the working barges to avoid generation of abnormal sound; and • Review of working hours for the reclamation works and switching off all unnecessary machinery and plants at night time and Sundays. Noise from power generators • All generators shall be either screened or covered by adequate sound reducing materials; • All generators situated in front of Le Bleu Deux estate will be switched off at 19:00 hrs, except two generators will be kept running up to 22:00hrs and one generator will be kept running overnight for maintaining minimum power requirement; and • Arrangement with CLP Power HK Ltd (CLP) for the permanent power supply to the site offices has been chased in a matter of urgency. The use of power generators will be terminated in phase starting from 6 December 2012. Exhaust Fume Emission • Tight control on using the machine and generators in the vicinity of Le Bleu Deux estate; and • Closely monitor the frequency on engine cleansing and replacement of dust filter. Change of Sea Water in Yellow • The Contractor was reminded to move their vessels and barges at areas with adequate water depth as practically as possible.	Closed	–
COM-2012-010(4)	19-Nov-2012	22:25 hrs.	EPD	Environmental (Air quality and Noise)	The complainant filed again a complaint for the strong exhaust pipe fumes smell coming for the construction site in Tung Chung tonight as well as the extremely high level of noise as at at 10:30 pm (19/11/12).	WA6			
COM-2012-010(5)	24-Nov-2012 25-Nov-2012	13:42 hrs. 13:49 hrs 22:02 hrs. 22:08 hrs.	EPD (cc to HyD) EPD (cc to HyD)	Environmental (Air quality and Noise)	The noise is coming for the following sources: - power generator - engines from the barges used for marine operation - noise from the cranes use of the construction barges. - engine from the boat used to transport staff in and out - boats blowing their horn late in the evening and at night Gas emissions: - power generators - marine operation The complainant file again a complaint against the strong exhaust pipe emission flowing towards le Bleu Deux estate this afternoon 24/11/10 at 13:47. I can assure you that is it not "not that bad" whatever that means for you. And again strong noise of metallic parts being thrown on the ground. *I thought you have already sorted out that problem according to your multiple replies to my complaints since July???"* A pictures taken this morning (25/11/12) around 9:30am-10am showing the water pollution in different area outside the floating barriers. At 21:56 hrs., boat used by the Highway Department against blew their horn repetitively at close proximity from the residential estate.	WA6 Portion X			
COM-2012-012(1)	13-Nov-2012	22:27 hrs.	HyD	Environmental (Noise)	Once again your site continues to work late. The attached photo was taken at 10.15pm on Tuesday 13 Nov. The machinery used on the barges is very noisy. Why do you continue to work till 10pm and why do you work on a Sunday. Surely this is classified as a construction site for which you are in breach of various ordinances. An early reply is appreciated.	Portion X	The following further mitigation measures during the course of the reclamation works will be taken: • Installation of noise covers onto the generators / motors on all working barges; • Increase frequency of applying lubricant to all moving parts and gear wheels of the working barges to avoid generation of abnormal sound; and • Review of working hours for the reclamation works and switching off all unnecessary machinery and plants at nighttime and Sundays.	Closed	–
COM-2013-015	17-Jan-2013	–	EPD	Environmental (Air)	The complainant raised that construction dust was arising from construction site of China State Contruction Engineering (Hong Kong) Ltd near Siu Ho Wan Sewage Treatment Works due to insufficient dust suppression and inadequate wheel washing.	WA3	The Contractor of HY/2011/03 would take the following actions with immediate effect • To ensure no loosed earth material exposed at the edges of eth stockpiled earth materials i.e. to prevent erosion by wind and water ; • To cover the stockpiled earth material by adequate tarpaulin; • To enhance the frequency of watering (3 times per day) onto existing haul road and other area as appropriate; and • To install a water sprinkler system to enhance the existing dust suppression measures once the water point is ready for water supply by WSD.	Closed	

HyD Contract No.HY/2011/03
Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2013-016	18-Jan-2013	–	EPD	Environmental (Water)	The complainant advised that turbid water and concrete/cement has been arising from the Hong Kong-Zhuhai-Macao Bridge Hong Kong Projects to marine water. The complainant did not specify the soure of the turbid water and concrete/cement.	N/A	–	Closed	–
COM-2013-018	02-Mar-2013	–	HyD	Environmental (Noise)	The complainant advised that "It seems that the Contractor's cranes operating on the barges are again in need of bit of lubricant, as this evening i.e. 2 March 2013, the cranes are again polluting the neighborhood with intolerable noise." The complainant requested Mr. Ng from EPD to take note of this complaint and expected a detailed report.	Portion X	The Contractor has been reminded to continue the process of applying lubricant/ grease to all barges which are to be worked in the site area near Le Bleu Deux.	Closed	–
COM-2013-018 (2)	04-Mar-2013	–	EPD	Environmental (Noise)	The complainant complained that the cranes operating on the barges for the HZMB HK project generating squeak noise in the evening of 1 March 2013 causing an annoyance to him/her.	Portion X	The Contractor implemented the following measures : - Briefing given to the operator for the proper operation of marine vessels; - Keep adequate routine maintenance ; - Minimize the quantities of plant after 7pm; & - Review the working hours of night time works and switch off all unnecessary machinery and plants at night time.	Closed	–
COM-2013-018 (3)	13-Mar-2013	–	HyD	Environmental (Noise)	The complainant asked what noise mitigation the Contractor was taking. The complainant pointed out that the noise in question was so strong that it woke up his baby girl.	Portion X	–	Closed	–
COM-2013-018 (4)	22-Mar-2013 24-Mar-2013	14:19 hrs 10:28 hrs	HyD	Environmental (Noise)	The complainant complained that "the lifting appliance was operated gently and softly to keep the noise emission as low as possible" but the noise still woke up his baby. "Lubricant was regularly applied to smoothen all moving parts and gear wheels of the working barges" that did not seem to be the case at all. The complainant pointed that the crane operating at 10:27 hrs on 24 March 2012 needed lubricant.	Portion X	The Contractor will keep on closely monitoring the situation and carry out the necessary noise mitigation measures while barges are working in the site area nearby residential area.	Closed	–
COM-2013-018 (5)	31-Mar-2013 1-Apr-2013	10:25 hrs 10:32 hrs	HyD	Environmental (Noise)	The complainant complained that noise emitted from a crane at 10:19 hrs. The complainant further complained that noise was generated from a barge at 07:30 hrs.	Portion Y	–	Closed	–
COM-2013-018 (6), (7) & (9)	15-Apr-2013	15:41 hrs	EPD	Environmental (Noise)	The complainant complained that machinery noise generated from the construction site near Tung Chung Development Pier operating for the Hong Kong-Zhuhai-Macao Bridge Hong Kong during the normal working hours on 6 April 2013 and 13 April 2013 and the late evening of 10 April 2013 causing nuisance to public.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours and non-restricted hours, the Contractor has implemented the following additional measures: - Briefing given to the operator of the barges for proper operation of marine vessels; - Operating barge by experienced operators only; - Keeping adequate routine maintenance for barges e.g. application of lubricants into moving parts in order to minimize squeak noise; - Install noise covers onto noisy equipment where practicable. - Remind subcontractor only well-maintained plant should be operated on-site. - Minimized the quantities of plant used after 7pm as far as practicable; - Speed up of construction works in order to shorten the duration (days) of potential noise impact/nuisance to the surrounding environment; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	–

HyD Contract No.HY/2011/03
Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2013-018 (11)	28-Apr-2013	15:44	EPD	Environmental (Noise)	The complainant complained that machinery noise generated from the reclamation site near Tung Chung Development Pier at around 22:00 of 28 April 2013 causing nuisance to public.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - Briefing given to the operator of the barges for proper operation of marine vessels; - Operating barge by experienced operators only; - Keeping adequate routine maintenance for barges e.g. application of lubricants into moving parts in order to avoid squeak noise; - Install noise covers onto noisy equipment where practicable. - Remind subcontractor only well-maintained plant should be operated on-site. - Speed up of construction works in order to shorten the duration (days) of potential noise impact/nuisance to the surrounding environment; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	–
COM-2013-022	08-Apr-2013	--	EPD	Environmental (Water)	The complaint alleged that oil was dumped from various vessels operating for HZMB HK projects near Tung Chung Development Pier over the past few months. Photos were provided by the complainant.	Portion X	The Contractor has checked the photos provided by the complainant and confirmed that the vessels and boats shown in the photos do not belong to Contract No. HY/2011/03.As this complaint is not related to this Contract, no follow up action is required. The Contractor has reminded their subcontractors to implement the measures recommended in the Spill Response Plan (SRP) in case of accidental release of oils from vessel.	Closed	–
COM-2013-022(2)	23-May-2013	09:15 hrs	EPD	Environmental (Water)	This complaint was a follow-up of a previous complaint received by EPD on 8 April 2013 regarding oil slicks caused by vessels. It was alleged that oil was still being dumped from various vessels operating for HZMB HK projects near Tung Chung Development Pier over the past few months. On the other hand, the complainant would also like to know whether the owners of the vessels could present engine oil disposal records for the vessels which supported the HZMB project.	Portion X	The Contractor has reminded their subcontractors to implement the measures recommended in the Spill Response Plan in case of accidental release of oils from vessel and handle the chemical waste (waste oil) in accordance with the requirements provided in the EM&A Manual.	Closed	–
COM-2013-023	02-May-2013	--	HyD	Environmental (Noise)	The complainant alleged that there were metal parts dropped on the ground creating noise at 12:58 on 1 May 2013	WA6	If there are metal handling works, the Contractor will not carry out the metal handling works in early morning in order to minimize potential noise disturbance as far as practicable in future.	Closed	–
COM-2013-024	23-May-2013	09:50 hrs	EPD	Environmental (Noise)	A complaint was received on 23 May 2013 regarding noise generated from dropping metal parts on numerous occasion on the pier opposite Le Blau Deux at around 08:45 to 10:00 hrs of 18 May 2013 and loading/unloading activities creating noise disturbance by the contractor of HY/2011/03.	WA6	If there are metal handling works, the Contractor will not carry out the metal handling works in early morning in order to minimize potential noise disturbance as far as practicable in future.	Closed	–
COM-2013-027	29-Jun-2013	10:02 hrs	RSS	Environmental (Noise)	A complaint was received on 29 June 2013 regarding noise generated from the works area near the site office (WA6) around 10:00 hrs on 29 June 2013	WA6	The Contractor was recommended to minimize the potential noise impacts generated from the construction sites as far as practicable in future.	Closed	–
COM-2013-033	13-Sep-2013	Around 22:00 hrs	RSS	Environmental (Noise)	A complaint was received regarding the noise nuisance from barge at about 22:20 hrs on 13 September 2013 and 02:30 hrs on 14 September 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - Minimized the quantities of plant used after 7pm as far as practicable; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	–
COM-2013-034	17-Sep-2013	--	HyD	Environmental (Noise)	A complaint was received on 17 September 2013 regarding the noise nuisance from tree transplanting activities in the morning of 14 September 2013.	Portion Y	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - Minimized the quantities of plant used after 7pm as far as practicable; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	–
COM-2013-037	8-Oct-2013 9-Oct-2013 16-Oct-2013	--	Supervising Officer's Representative	Environmental (Noise)	The complainant complained the noise from barge operation from 21:30 to 22:30 hrs on 4 October 2013. The complainant complained that several loud bangs were heard starting from 21:00 hrs on 7 October 2013. The complainant complained that it was very noisy at the noon of 14 October 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: -minimize the quantities of plant used during restricted hours as far as practicable; and -regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during restricted hours.	Closed	-

HyD Contract No.HY/2011/03
Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2013-041	31-Oct-2013	21:52 hrs	EPD	Environmental (Noise)	A complaint was received on 31 October 2013 regarding the noise generated from a barge being moved by a tug boat in the morning of 31 October 2013 (around 05:55).	N/A	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during the night-time and early morning period (7pm to 7am).	Closed	-
COM-2013-043	11-Nov-2013	--	EPD	Environmental (Noise)	A complaint was received on 11 November 2013 regarding a barge moving through the southern channel of HyD's construction site after 23:00 hrs on 8 November 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during restricted hours.	Closed	-
COM-2013-045	27-Dec-2013	--	HyD	Environmental (Noise)	A complaint was received on 27 December 2013 regarding barges operating at the south channel of Portion X in the afternoon of 26 December 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during restricted hours.	Closed	-
COM-2014-046	16-Jan-2014	17:22 hrs	HyD	Environmental (Air Quality)	A complaint was received on 16 January 2014 regarding heavy exhausts generated at around 8 a.m. and 10 a.m. over past few months and or even midnight.	N/A	The Contractor has implemented the following measure to minimize exhaust fumes generated from machinery: - Maintenance for the all machinery regularly.	Closed	-
COM-2014-048	18-Jan-2014	--	EPD	Environmental (Other: Blackish mud)	A complaint was received on 18 January 2014 regarding blackish mud along the edge of the construction site of Hong Kong-Zhuhai-Macao Bridge Hong Kong Project near the airport in the morning of 18 January 2014.	Portion X	Based on the investigation results, it is considered that the blackish mud raised in the complaint was not related to HKLR03 Contract. In this case, no follow up action is required.	Closed	-
COM-2014-050	24-Mar-2014	--	EPD	Environmental (Other: Dredged Marine Sediment)	A complaint was received by EPD on 24 March 2014. The complainant advised that there was dredged material found being mixed with soil in the construction site of Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road Project in the vicinity of CAD headquarters and transported out of the site. The complainant suspected that there was improper disposal of dredged marine sediment.	Portion X	Based on the investigation results, it is considered that the complaint is invalid. In this case, no follow up action is required.	Closed	-
COM-2014-051	29-Apr-2014	--	SOR	Environmental (Noise)	A complaint was received on 29 April 2014 regarding loud bang coming from the site at 21:37 hrs on 28 April 2014.	Portion X	Based on the Contractor's site dairy and our investigation, no non-compliance was identified.	Closed	-
COM-2014-053	02-May-2014	--	EPD	Environmental (Noise)	A complaint was received by EPD on 1 May 2014. The complainant advised that there was noise nuisance arising during the evening of 1 May 2014.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plant during restricted hours.	Closed	-
COM-2014-063	03-Dec-14	--	Arup	Environmental (Noise)	According to Arup's email to CSCE and DCVJV on 3 December 2014, "A resident living in Le Bleu Duex addressed a complaint to CE of HyD at about 20:04 hrs last night. He complained about the noise nuisance coming from site office since 19:30 hrs last night. epetitively metal parts had been dropped on the ground by people who seem to be loading or unloading a boat at the pier. Noise was still going on right now at 20:04."	WA6	Based on the investigation results, it is found that the noise complaint is not related to Contract No. HY/2011/03. In this case, no follow up action is required.	Closed	-

HyD Contract No.HY/2011/03
Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2014-065	24-Dec-14	Nil	EPD	Environmental (Water Qulity)	A complaint was received on 24 December 2014 regarding the increase of marine refuse (water bottles and debris) along the shore from Yat Tung to Tai O, where the complainant considered might be in relation to the HZMB project(s).	Portion X	Based on the investigation results, it is considered that the complaint is unlikely related to HKLR03 Contract. Nevertheless, the Contractor is reminded to implement all recommended mitigation measures for waste management and avoid dumping rubbish into the sea.	Closed	-
COM-2015-066	08-Apr-15	Nil	EPD (An email forwarded by Arup)	Environmental (Dust)	According to Arup's email to CSCE on 8 April 2015, the ET was informed that a complaint had been received by EPD at about 18:29 hrs on 2 Apr 2015 regarding construction dust from construction site (S15) at Kwo Lo Wan Road, Tung Chung."	S15	Based on the Contractor's information and our investigation, no non-compliance was identified. The Contractor is reminded to continuously implement the dust suppression measures to minimize potential dust impact.	Closed	-
COM-2015-068	10-Apr-15	Nil	EPD (An email forwarded by Arup)	Environmental (Noise)	According to Arup's email to CSCE on 10 April 2015, it is noted that EPD received a noise complaint from a resident of Caribbean Coast. According to the complainant, he was disturbed by noise from construction activities of the HZMB Project during weekends and holidays. The complainant was referring to those activities carried out between Scenic Hill and HKBCF because the complainant mentioned the contractor was China State.	N/A	Based on the information provided and our investigation, the Contractor had complied with the conditions laid down in Construction Noise Permit (CNP) Nos. GW-RS0113-15 and GW-RS0356-15. Hence, no non-compliance was identified. The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours and recommended to implement the following measures to minimize the potential noise impact during restricted hours: minimize the quantities of plant used during restricted hours as far as practicable; and regular review of working duration for restricted hours works and switch off all unnecessary machinery and plant during restricted hours.	Closed	-
COM-2015-074	16-Jul-15	Nil	EPD	Environmental (Wastewater)	According to EPD's email to Highways Department, ET, SOR and ENPO, a complaint was received on 16 July 2015 regarding wastewater splashing from vehicles to pedestrian at Tung Fai Road. The complainant complained that wastewater was splashed to people waiting at the bus stop near Civil Aviation Department Headquarters Office Building when vehicles leaving the HZMB site to Tung Fai Road.	Tung Fai Road	Based on the investigation results, it is considered that the complaint is unlikely related to HKLR03 Contract. The Contractor has been reminded to slow down their vehicles when leaving the concerned construction site.	Closed	-
COM-2015-076	17-Jul-15	Nil	EPD (An email forwarded by ENPO)	Environmental (Noise)	According to EPD's email to ENPO on 17 July 2015, it is noted that EPD received a noise complaint from public. The complainant said that he/she was disturbed by the noise generated from construction sites of the HZMB Project during the daytime period of past few Sundays. Afterwards, EPD contacted the complainant and confirmed that the noise was generated from construction sites along Kwo Lo Wan Road and signs of "China State Construction Engineering (HK) Ltd" were noted.	Kwo Lo Wan Road	Based on the information provided and our investigation, the Contractor complied with the conditions laid down in Construction Noise Permit (CNP) Nos. GW-RS0733-15 and GW-RS0740-15 and no noncompliance was found. The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours and recommended to implement the following measures to minimize the potential noise impact during restricted hours: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plant during restricted hours.	Closed	-
COM-2015-079	07-Dec-15	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Water Quality)	According to ENPO's email to SOR and ET on 7 December 2015, a complaint was received by EPD on 2 December 2015 regarding water quality near HKLR work site. The complainant mentioned that "I moved to Tung Chung since July and it was the second time I saw similar situation polluting the sea. Last time it was even worse in red colour. Please look into this matter and let me know what was being dropped into the sea and whether it was hazardous to the sea.". EPD has contacted the complainant and obtained the additional information from the complainant. EPD suspected that the incident happened in the afternoon on 28 November 2015.	Portion X	According to the information provided by the Contractor, the derrick barge belongs to Contract No. HY/2011/03. The concerned sediment plume was likely to be caused by stirring up of mud in the seabed by the derrick barge sailed at the navigation channel situated at shallow water zone where the water depth ranging from 3.25m – 3.75m. Public fill materials were placed on the derrick barge. The barge was in good conditions with no materials being dumped into the sea. The Contractor has been implementing the mitigation measure as specified in the Implementation Schedule of Environmental Mitigation Measures that is all vessels to 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. The Contractor is recommended to arrange vessels to move out of the site area during high tide to avoid the disturbance to the seabed as far as practicable and deploy marine vessels effectively in order to minimize the number of trips and disturbance to seabed in shallow waters.	Closed	-
COM-2016-087	28-Jun-16	Nil	EPD	Environmental (Water Quality)	According to EPD's email, a complaint was received on 28 June 2016 regarding polluted water discharge incident opposite to Tung Chung Development Pier.	N/A	The Contractor has designated competent persons to operate, check and maintain individual wastewater treatment plant as an existing control measures. In case of breakdown of wastewater treatment plants, no discharge of wastewater will be allowed until repair is completed to resume the normal operation of the treatment plant. Specific toolbox / refreshment training trainings have been providing for the staff and workers for each of the wastewater treatment plants. The Contractor has been reminded to implement the above control measures and ensure no untreated wastewater will be discharged into open channel.	Closed	-
COM-2016-098	11-Nov-16	16:33	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Water Quality)	According to ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 11 November 2016, it is noted that EPD received a complaint lodged by a member of the public regarding sediment plume generated by a vessel named "長盛308 (Chang Sheng 308)" during the vessel travelling from construction site of Hong Kong- Zhuhai- Macao Bridge near Scenic Hill to Tung Chung New Development Ferry Pier.	Portion X	The Contractor has been reminded to schedule the vessel to move in / out of the construction site during higher tide and minimize number of trips to avoid the stirring up of the seabed mud when the vessel travelling in very shallow water areas as much as practicable. Also, the Contractor was reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule (EMIS).	Closed	-

HyD Contract No.HY/2011/03
Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2016-099	02-Dec-16	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Other: Slurry on public road)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 2 December 2016 that EPD received a complaint lodged by a member of the public regarding slurry on East Coast Road. The complainant considered the slurry might relate to the construction site of China Harbour Engineering Company Limited next to a hotel.	East Coast Road	During the weekly site inspection undertaken on 7 December 2016, no slurry was observed at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03. The Contractor has constructed wheel washing facilities at all the site accesses, including the one near the site access of China Harbour Engineering Company Limited next to the Marriott Hotel (which is believed to be the hotel mentioned by the complainant), to wash and clean all vehicles before allowing them to leave the construction site to ensure that no mud or other debris would be brought to the public area. In addition, regular watering is conducted by water truck at least twice per day at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03 to minimize dust emission. Based on the investigation results, it is considered that the complaint unlikely related to Contract No. HY/2011/03. Notwithstanding that, the Contractor has been reminded to clean wheels and body of vehicles as usual before allowing them to leave construction site.	Closed	-
COM-2016-100	14-Dec-16	Nil	ENPO (Contract No. HY/2010/02 project team received an environmental complaint referred by Government's hotline (1823) on 2 December 2016. ENPO forwarded the Complaint to Contract No. HY/2011/03.)	Environmental (Other: mud/ derbris on public road)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 14 December 2016 that EPD received a complaint lodged by a member of the public regarding mud/debris on public road. The complainant complained that "the whole stretch of East Coast Road & Tung Fai Road is truly disgusting. The stone debris big and small and the mud is a nuisance to those who use the road every day. When dry there is a lot of dust and when it rains or when the road washing trucks are out it becomes a muddy mess. Cars and pedestrians are covered in dust or mud, cars are hit by stones is a daily hazard. Washing of construction vehicles is inadequate as the sand and soil is carried out onto the roads. Oversight of road conditions are not carried out by the Airport Authority. An alternative route should be created for the large number of construction vehicles as they drive fast.".	East Coast Road and Tung Fai Road	During the ET's inspection on 7 December 2016 (weekly routine inspection) and 16 December 2016, no mud or debris was observed at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03 as well as the section of Tung Fai Road leading to the site access of Contract No. HY/2011/03. The Contractor provided wheel washing facilities at all the site accesses, including the one accessing East Coast Road and the one accessing Tung Fai Road, to wash and clean all vehicles before allowing them to leave the construction site to ensure that no mud or debris would be brought to the public area. It was observed that the areas of the wheel washing facilities and the respective road section between the wheel washing facilities and the site accesses of East Coastal Road and of Tung Fai Road were paved with concrete. High pressure jets were also provided at the wheel washing facilities for cleaning of vehicles before the vehicles were allowed to leave the construction site. In addition, regular watering at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03 was conducted by water trucks at least twice per day to minimize dust emission. Based on our investigation result, it is considered that the complaint is unlikely related to Contract No. HY/2011/03. Notwithstanding that, the Contractor has been reminded to clean the wheels and body of vehicles as usual before allowing them to leave construction site.	Closed	-
COM-2016-103	14-Dec-16	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Noise)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 14 December 2016 that EPD received a noise complaint lodged by a member of public. The complaint was about hammering noise generated from construction sites at midnight in the past month. The complainant could not identify the source but suspected that the noise was generated from HZMB Project. It was also noted from ENPO's email on 21 December 2016 that EPD supplemented that the complainant lives in Seaview Crescent. The complainant sometimes heard noise created by impacting metals or metal/ground, particularly in December 2016.	N/A	The Contractor confirmed that no hammering works was conducted and no impact noise was generated at midnight in November 2016 and December 2016. The Contractor complied with the conditions laid down CNP No. GW-RS740-16 and no non-compliance was found. Based on our investigation result, it is considered that the complaint is unlikely related to Contract No. HY/2011/03. In this case, no follow up action is required. However, the Contractor has been reminded to comply with the conditions stipulated in the Construction Noise Permit for construction works undertaken during restricted hours and has been recommended to implement the following measures to minimize the potential noise impact during restricted hours: - minimize the number of machinery and plant used during restricted hours as far as practicable; - regularly review the working duration for restricted hours works; and - switch off all unnecessary machinery and plant during restricted hours.	Closed	-
COM-2017-104	09-Jan-17	Nil	IEC (EPD referred the email from Complainant to IEC)	Environmental (Other: Cleanliness problem at East Coast Road and Tung Fai Road)	It was noted from IEC's email to the Environmental Team, Supervising Officer's Representative and Contractor on 9 January 2017 that EPD received a complaint lodged by a member of the public (a bus operator at the HKIA) regarding cleanliness problem at East Coast Road and Tung Fai Road.	East Coast Road and Tung Fai Road	During the ET's inspection on 10 January 2017, it was observed that the Contractor provided wheel washing facilities at all the site accesses, including the one accessing East Coast Road and the one accessing Tung Fai Road, to wash and clean all vehicles before allowing them to leave the construction site to ensure that no mud or debris would be brought to the public area. No mud was observed at the section of Tung Fai Road leading to the site access of Contract No. HY/2011/03. However, some mud was observed at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03. Based on our investigation result, although there is no direct evidence showing that the complaint is related to Contract No. HY/2011/03, the Contractor has been reminded to clean the wheels and body of vehicles as usual before allowing them to leave construction site. Road sweeper will be employed to sweep along the East Coast Road twice per week and remove the deposited mud underneath the water-filled barrier to facilitate the road-washing water to be drained away from the carriageway. It should be of note that the ground level of site boundary of HY/2011/03 adjoining the East Coast Road is lower than that of East Coast Road and the Site of HY/2011/03 receives unidirectional flow of surface runoff from the East Coast Road. In addition, the following measures will be implemented to enhance dust suppression: 1. Stockpile along East Coast Road will be reduced in height and compacted as far as practicable 2. Haul road will be demarcated to prevent vehicles from going into non-wetted surface. 3. Site access S16 will be thoroughly cleaned and all vehicles will be stopped for second washing after being washed in the wheel washing bay. 4. Water sprinklers will be installed and operated at the stockpiles behind the water-filled barriers along East Coast Road.	Closed	-

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2017-108	23 February 2017 and 2 March 2017	Nil	Airport Authority Hong Kong (AAHK) via SOR / Referred to ENPO by HyD	Environmental (Air quality, Water quality and Other: Cleanliness problem at East Coast Road)	AAHK stated in their email to SOR on 23 February 2017 that there was sand/muddy water accumulating along the water barriers at East Coast Road Southbound. AAHK also lodged a complaint to HyD, which HyD referred to ENPO on 1 March 2017 (received by ET on 2 March 2017). AAHK reported that the cleanliness of East Coast Road remained unsatisfactory with dust all over the water barriers/traffic aids, and sands accumulating along the carriageway.	East Coast Road	During ET's observation on 3 and 13 March 2017, properly functioning wheel washing facilities were provided to wash all vehicles prior to leaving the site. The section of road between the wheel washing facilities and the site access (S25) was hard paved and no mud/ silt was observed at the concerned road section and the site access. As the ground level of site boundary of HY/2011/03 adjoining the East Coast Road is lower than that of East Coast Road, the possibility of muddy water seepage from S25 to East Coast Road is low.Based on our investigation result, the complaint is unlikely to be related to Contract No. HY/2011/03. Nevertheless, the Contractor has been reminded to strictly upkeep the proper practice of washing all vehicles leaving the site access (S25). Also, the Contractor has raised the majority of the temporary traffic signs to a higher level to avoid muddy water splashing on them. Also, the temporary traffic signs will be cleaned regularly.	Closed	-

APPENDIX O

Mudflat Monitoring Results

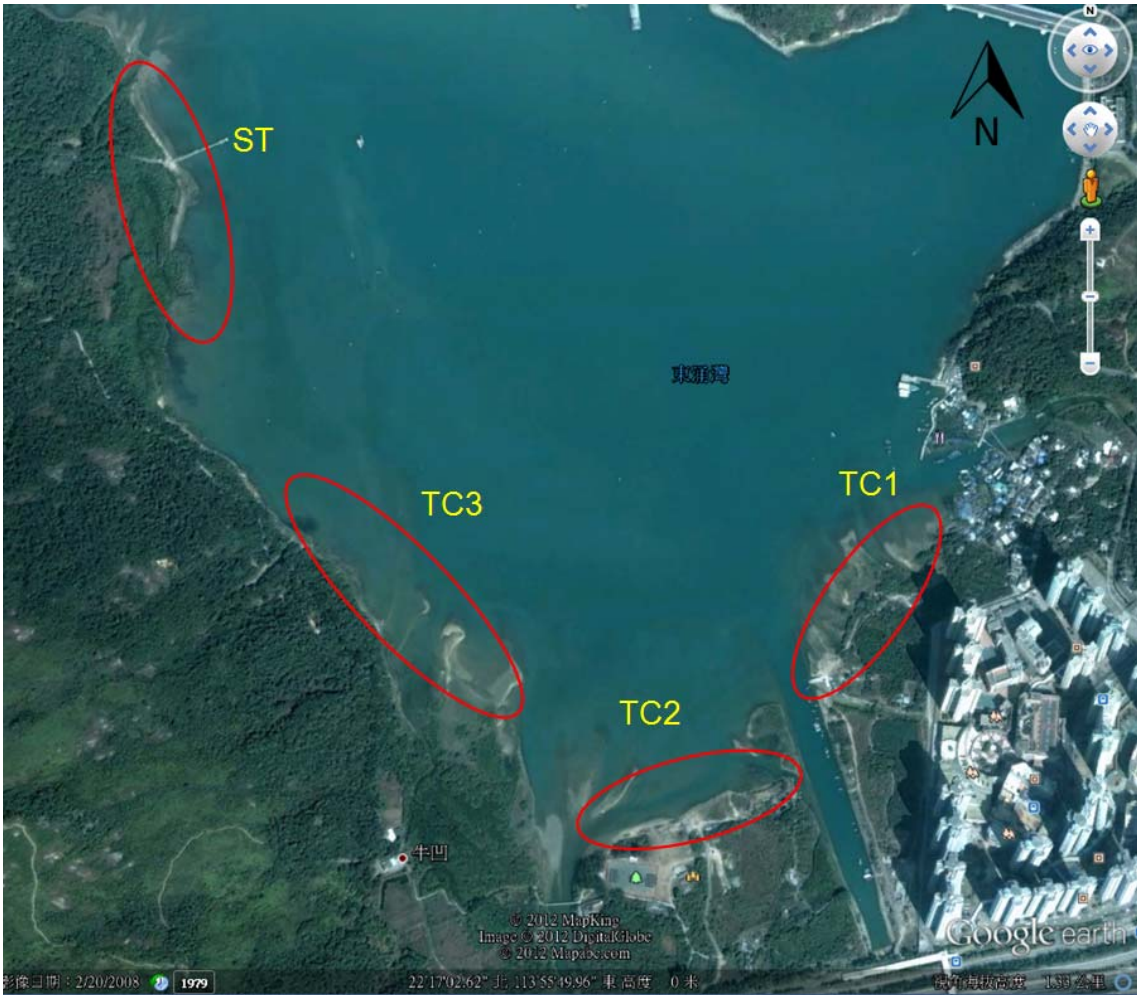


Figure 2.1. *Locations of sampling zones. The study site was divided into three sampling zones (TC1, TC2, TC3) in Tung Chung Bay and one zone in San Tau (ST) (map generated from Google Map).*

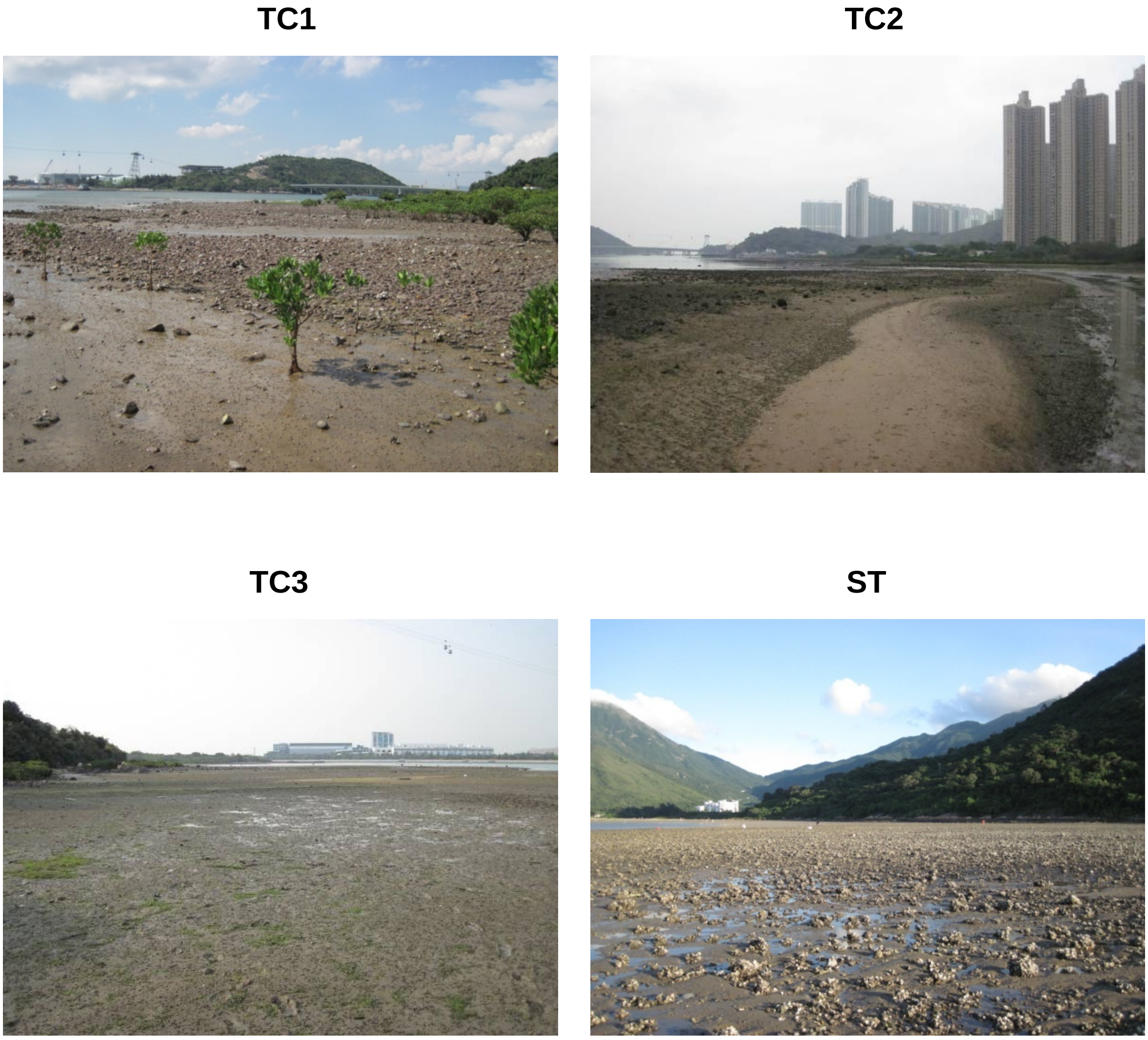
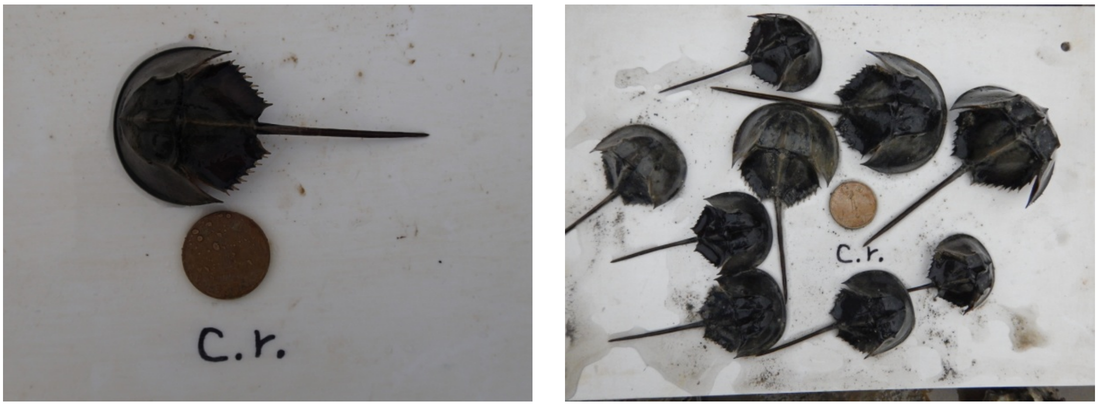


Figure 2.2. *Photographic record of the environment in every sampling zone.*

TC3 *Carcinoscorpius rotundicauda*



TC3 *Tachypleus tridentatus*

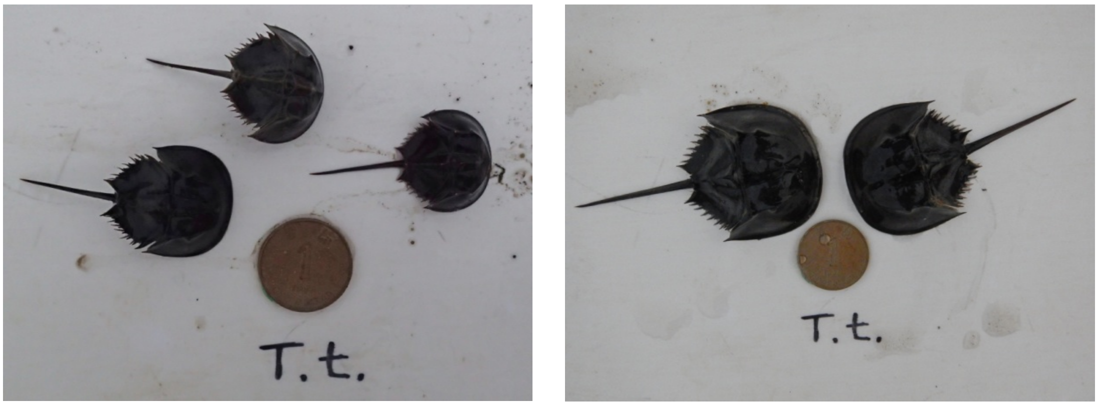
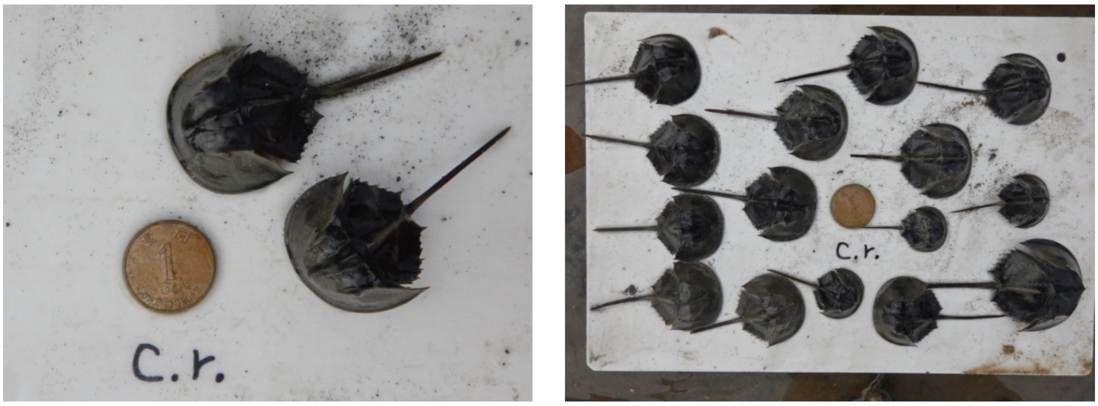


Figure 3.1. *Examples of photographic records of horseshoe crab (Dec. 2016)*

ST *Carcinoscorpius rotundicauda*



ST *Tachypleus tridentatus*

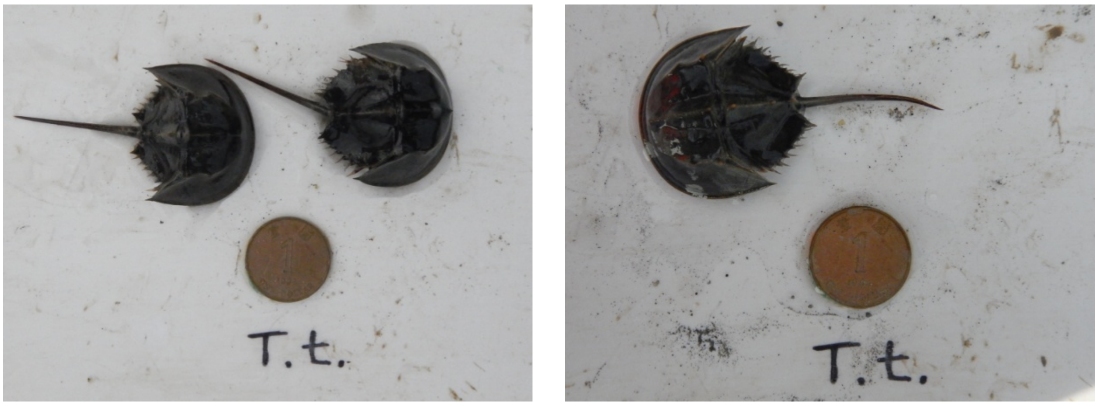


Figure 3.1 (Cont'd). *Examples of photographic records of horseshoe crab (Dec. 2016)*

Table 3.1. *Summary of horseshoe crab survey in every sampling zone*

	TC1	**TC2**	**TC3**	**ST**
Search duration (hr)	2	2	3	3
Carcinoscorpius rotundicauda				
no. of individuals	N.A.	N.A.	27	43
mean prosomal width (mm)			41.68	44.05
max. prosomal width (mm)			65.73	66.22
min. prosomal width (mm)			16.85	25.61
Search record (ind. hr^{-1} $person^{-1}$)			4.5	7.2
Tachypleus tridentatus				
no. of individuals	N.A.	N.A.	17	7
mean prosomal width (mm)			39.13	44.79
max. prosomal width (mm)			64.24	52.57
min. prosomal width (mm)			20.40	41.50
Search record (ind. hr^{-1} $person^{-1}$)			2.8	1.2

Figure 3.2. *Photographic records of mating pair (above) and moult (below) of Carcinoscorpius rotundicauda (Mar.2015)*

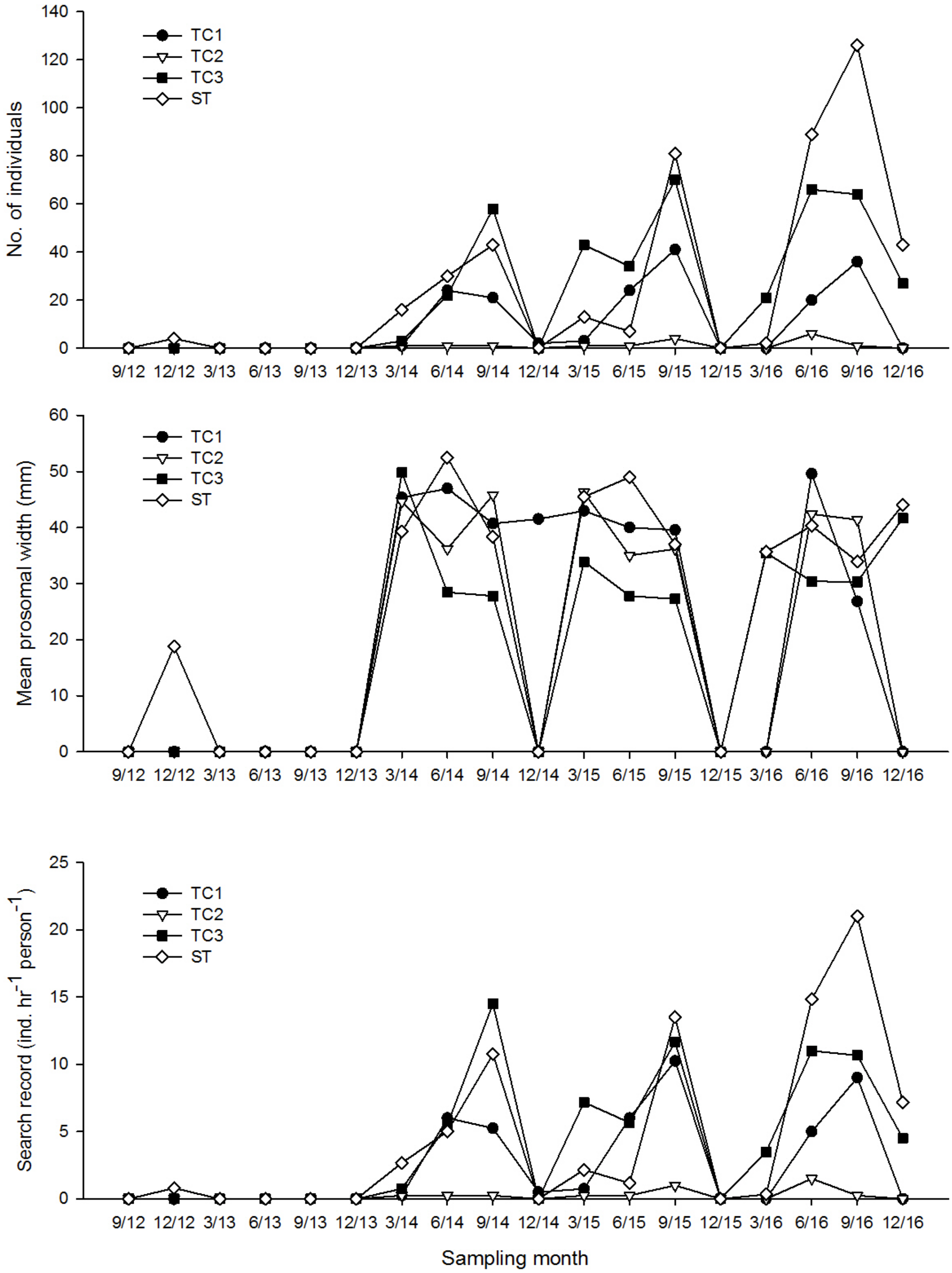


Figure 3.3. *Changes of number of individuals, mean prosomal width and search record of horseshoe crab Carcinoscorpius rotundicauda in every sampling zone along the sampling months*

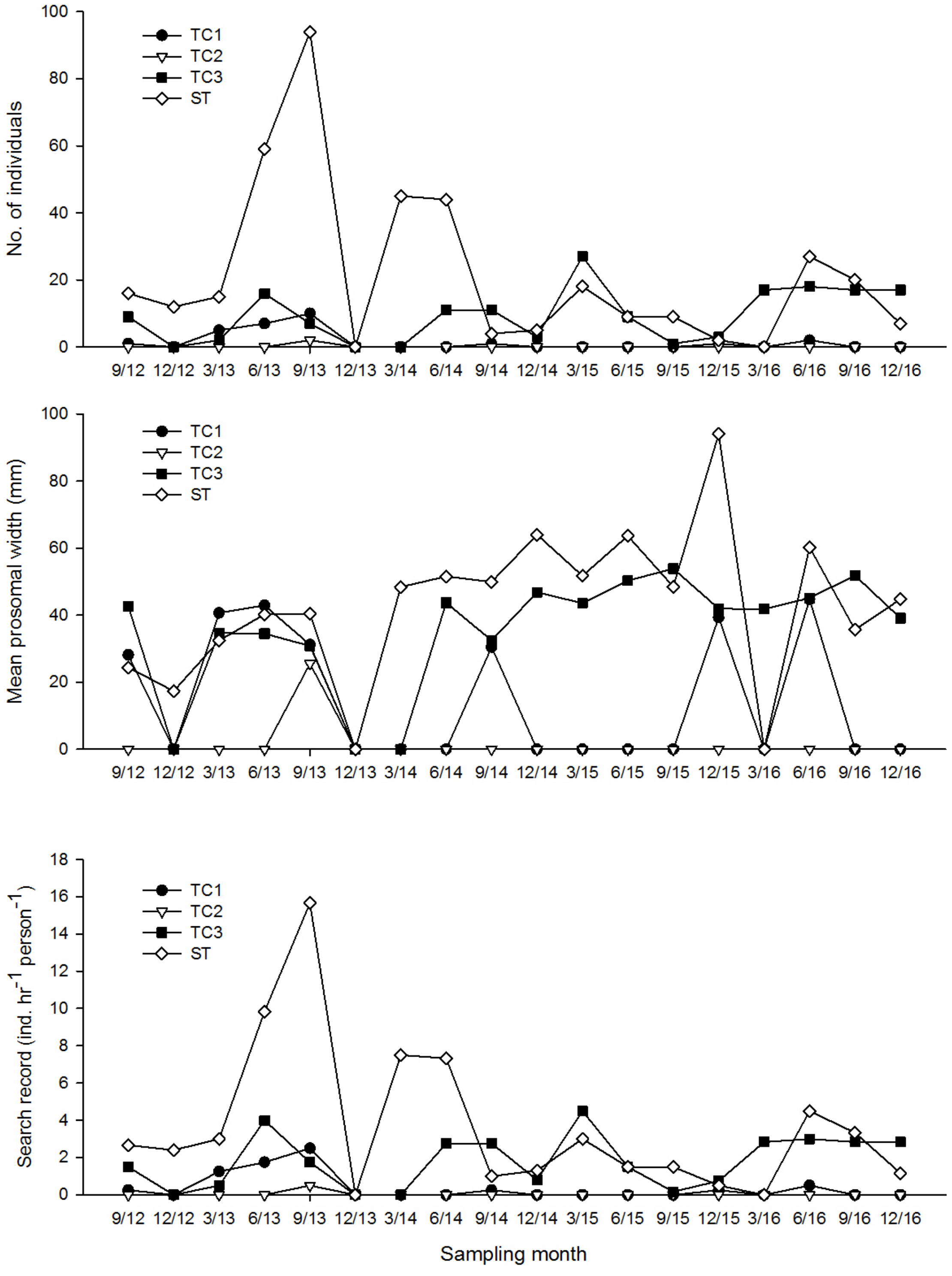
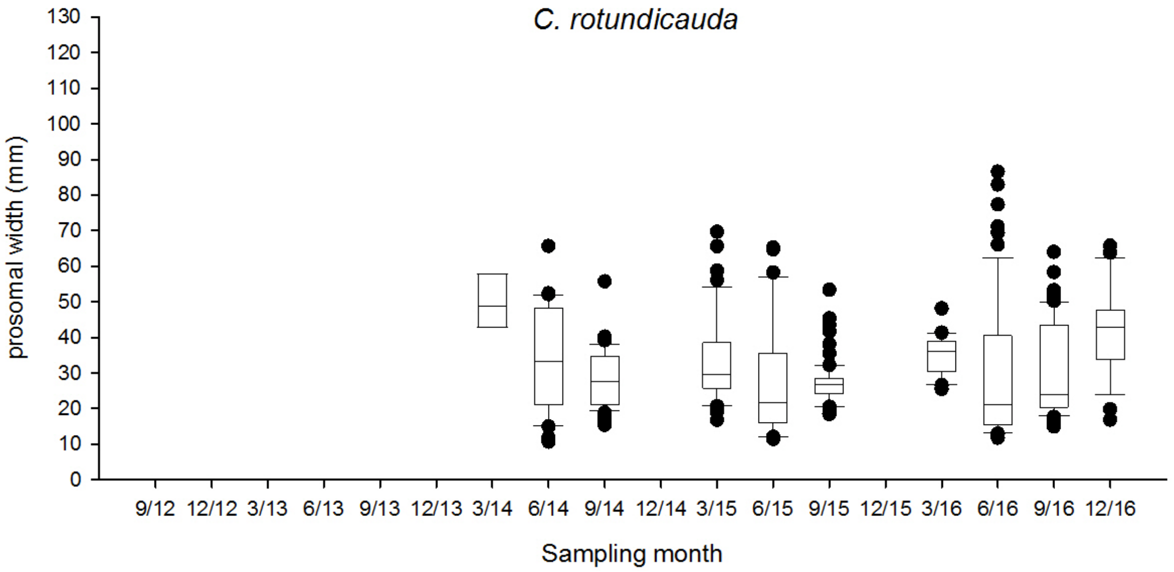


Figure 3.4. *Changes of number of individuals, mean prosomal width and search record of horseshoe crab Tachypleus tridentatus in every sampling zone along the sampling months*



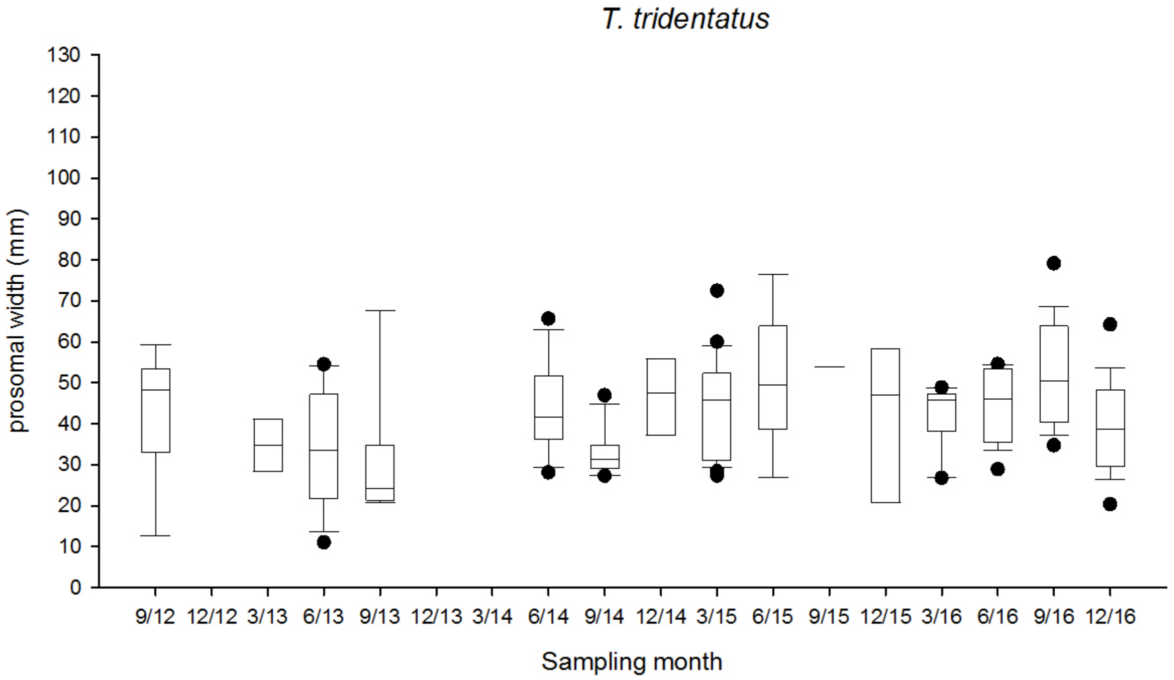


Figure 3.5. *Box plot of prosomal width of horseshoe crab in the sampling zone TC3 along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and below the lower quartile respectively. The black circle dots showed the data of outliner.)*

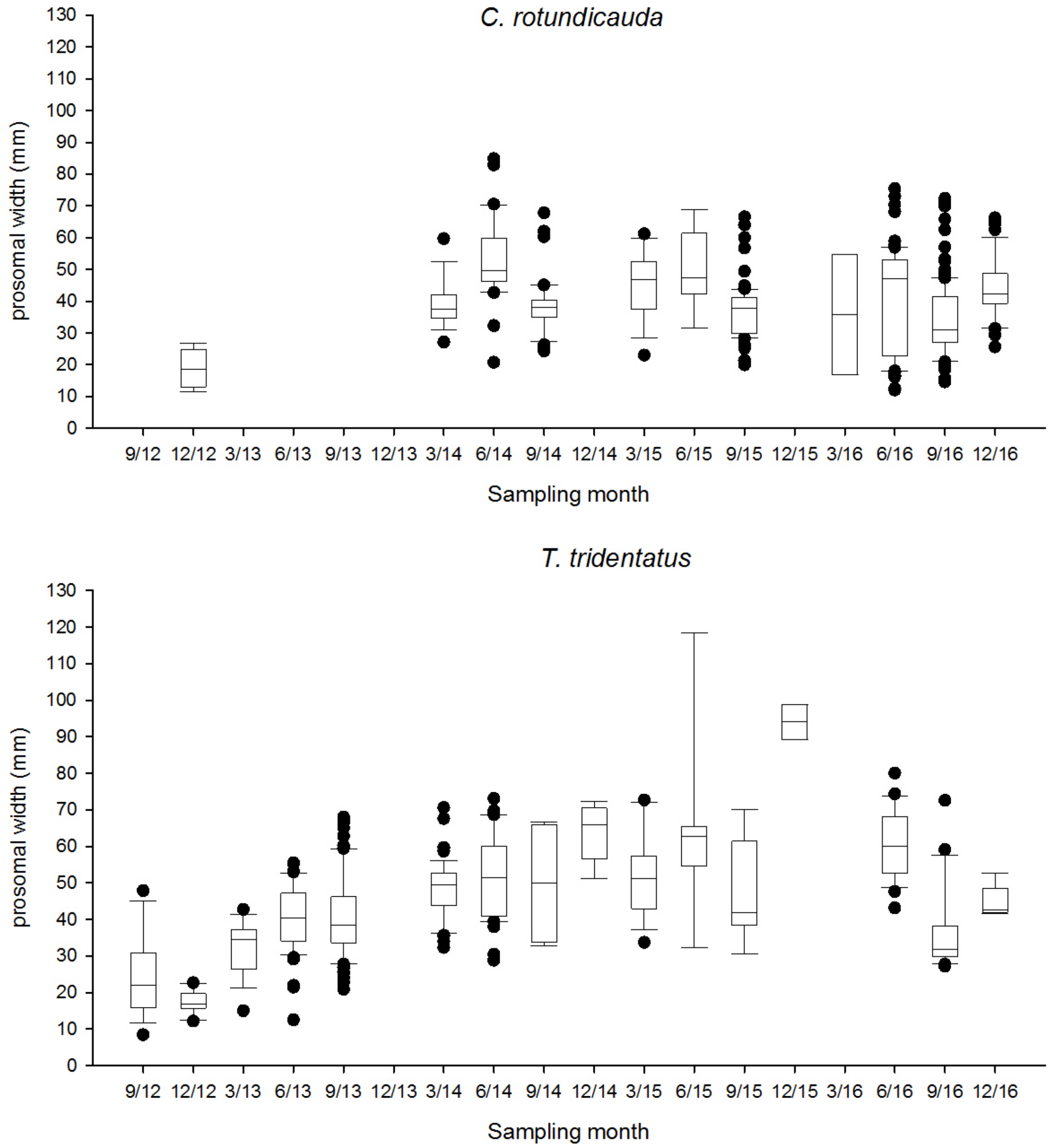


Figure 3.6. *Box plot of prosomal width of horseshoe crab in the sampling zone ST along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and below the lower quartile respectively. The black circle dots showed the data of outliner.)*

TC3 *Halophila ovalis*

ST *Halophila ovalis*

ST *Zostera japonica*

Figure 3.7. *Examples of photographic records of seagrass beds survey (Dec. 2016)*

Table 3.2. *Summary of seagrass beds survey*

Sampling zone	TC3	ST	
	Halophila ovalis	*Halophila ovalis*	*Zostera japonica*
Number of patches	3	11	1
Total area (m^2)	55.1	12550.4	64.5
Average area (m^2)	18.4	1140.9	19.0

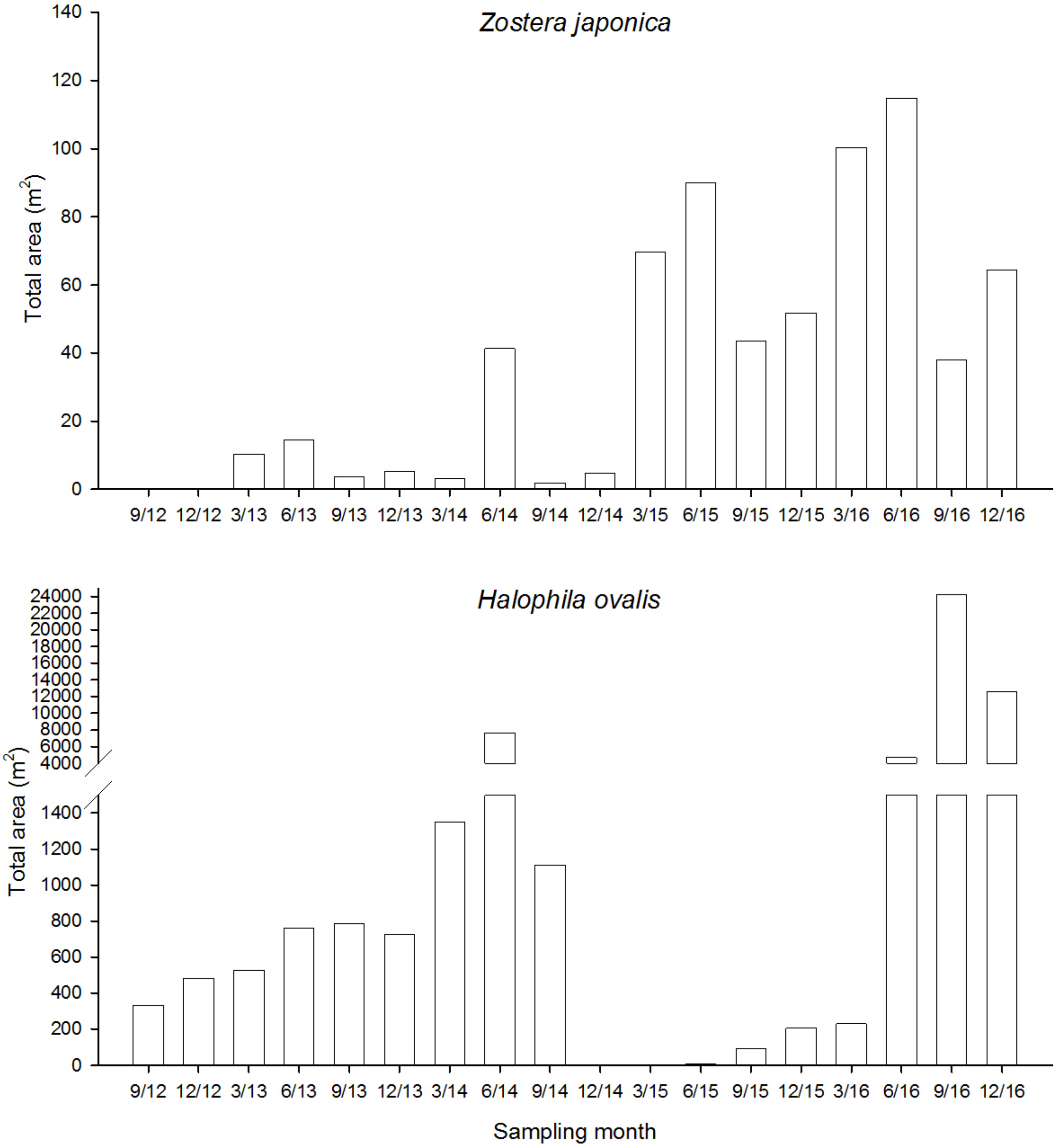


Figure 3.8. *Temporal changes of estimated total area of seagrass beds in ST*

Jun. 2014 **Dec. 2014**

Mar. 2015 **Sep. 2015**

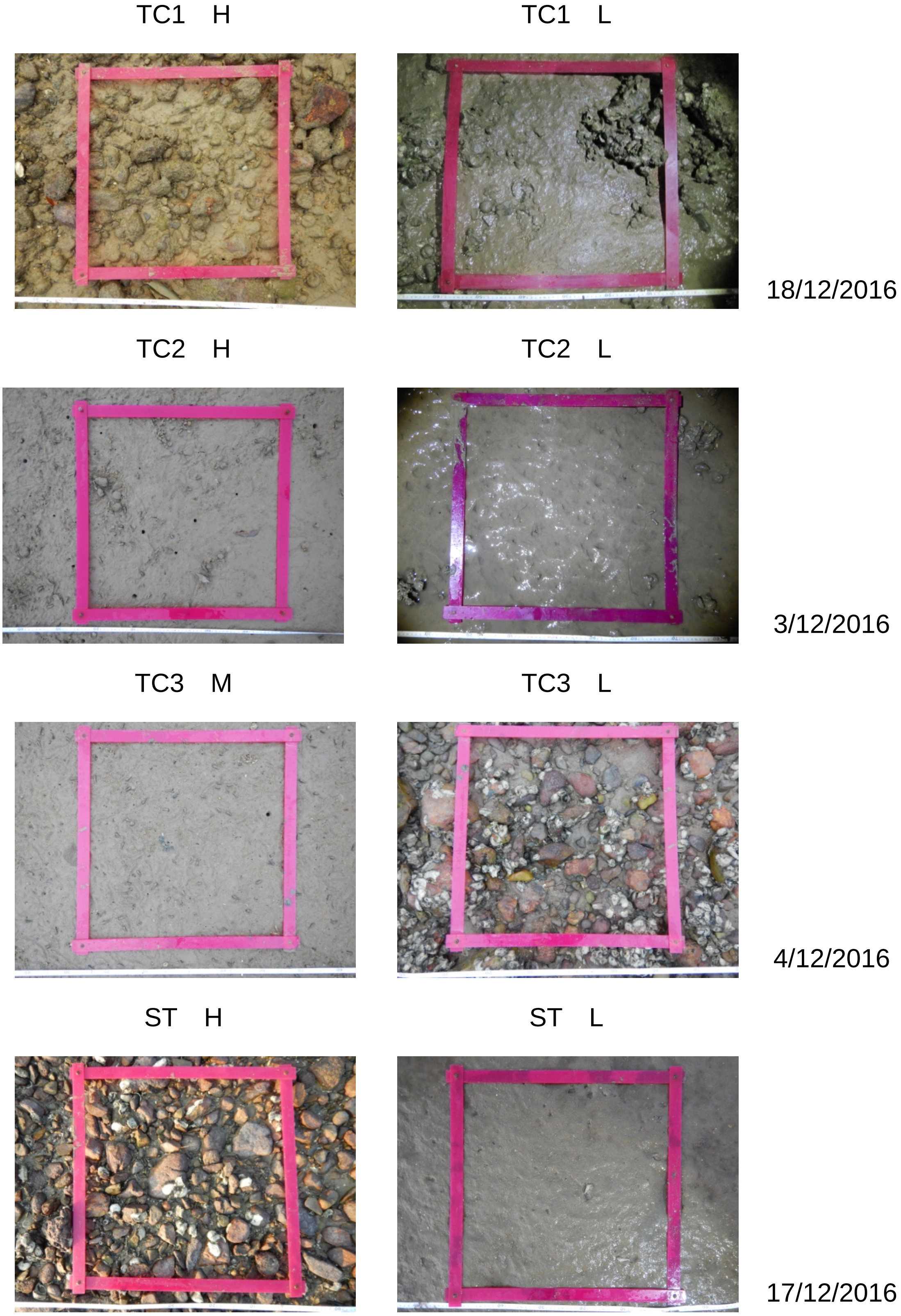
Mar. 2016 **Dec. 2016**

Figure 3.9. *Comparison of pictures taken in different sampling months shows the disappearance and recolonization of seagrass beds.*

Table 3.3. *Relative distribution (%) of types of substratum along the horizontal transect at every tidal level and in every sampling zone.*

		Percentage		
Sampling zone	**Tidal level**	**Gravels and Boulders**	**Sands**	**Soft mud**
TC1	H	90	10	
	M	80	20	
	L	60		40
TC2	H		70	30
	M	10	60	30
	L			100
TC3	H		50	50
	M		70	30
	L	90		10
ST	H	100		
	M	80	20	
	L	20	50	30

H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.



TC1 H

TC1 L

18/12/2016

TC2 H

TC2 L

3/12/2016

TC3 M

TC3 L

4/12/2016

ST H

ST L

17/12/2016

Figure 3.10. *Examples of photographic records of quadrat for intertidal soft shore community survey (H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.)*

Table 3.4. *Total abundance, density and number of taxon of every phylum*

Phylum	Total Abundance	%	Density (ind. m^{-2})	Number of taxon
Dec. 2016				
Mollusca	9231	94.9	308	36
Arthropoda	383	3.9	13	13
Annelida	60	0.6	2	9
Sipuncula	16	0.2	1	1
Echiura	14	0.1	0	1
Nemertea	12	0.1	0	1
Cnidaria	6	0.1	0	1
Platyhelminthes	2	0.0	0	1
Chordata	1	0.0	0	1
Total	9725			

0.0 %: Total abundance of the phylum is less than 0.1% of relative abundance.

0 ind. m^{-2}: Density of the phylum is less than 1 ind. m^{-2}.

Table 3.5. *The number of individuals, relative abundance (percentage) and density of each phylum in every sampling zone*

Phylum	TC1	%	Density (ind. m^{-2})	TC2	%	Density (ind. m^{-2})	TC3	%	Density (ind. m^{-2})	ST	%	Density (ind. m^{-2})
Annelida	6	0.2	1	29	1.8	4	19	0.6	3	6	0.4	1
Arthropoda	102	3.2	14	171	10.4	23	82	2.5	11	28	1.7	4
Chordata							1	0.0	0			
Cnidaria	2	0.1	0							4	0.2	1
Echiura	10	0.3	1				3	0.1	0	1	0.1	0
Mollusca	3034	95.8	405	1446	87.6	193	3129	96.4	417	1622	97.5	216
Nemertea	7	0.2	1	1	0.1	0	2	0.1	0	2	0.1	0
Platyhelminthes	1	0.0	0				1	0.0	0			
Sipuncula	4	0.1	1	3	0.2	0	8	0.2	1	1	0.1	0
Sub-total	3166			1650			3245			1664		

0.0 %: Total abundance of the phylum is less than 0.1% of relative abundance of the sampling zone.

0 ind. m^{-2}: Density of the phylum is less than 1 ind. m^{-2} of the sampling zone.

Table 3.6. *The abundant species (relative abundance >10%) in every sampling zone*

Sampling zone TC1	Group	Species	Mean density (ind. m^{-2})	Relative abundance (%)	Cumulative relative abundance (%)
High	G	*Batillaria multiformis*	524	85	85
Mid	G	*Batillaria multiformis*	136	37	37
	Bi	*Saccostrea cucullata*	95	26	63
	G	*Monodonta labio*	74	20	83
Low	Bi	*Saccostrea cucullata*	110	38	38
	G	*Batillaria multiformis*	29	10	48

Bi = Bivalve, G = Gastropod

Table 3.6 (Cont'd). *The abundant species (relative abundance >10%) in every sampling zone*

Sampling zone TC2	**Group**	**Species**	**Mean density (ind. m^{-2})**	**Relative abundance (%)**	**Cumulative relative abundance (%)**
High	G	*Cerithidea djadjariensis*	144	47	47
	G	*Cerithidea cingulata*	84	28	75
	Bi	*Saccostrea cucullata*	33	11	86
Mid	Bi	*Saccostrea cucullata*	64	27	27
	G	*Batillaria zonalis*	50	21	48
	C	*Uca* sp.	38	16	64
	G	*Cerithidea djadjariensis*	30	13	77
Low	Bi	*Saccostrea cucullata*	64	53	53
	G	*Batillaria zonalis*	18	15	67

Bi = Bivalve, C = Crab, G = Gastropod

Table 3.6 (Cont'd). *The abundant species (relative abundance >10%) in every sampling zone*

Sampling zone TC3	**Group**	**Species**	**Mean density (ind. m^{-2})**	**Relative abundance (%)**	**Cumulative relative abundance (%)**
High	G	*Batillaria multiformis*	216	44	44
	G	*Cerithidea djadjariensis*	183	38	82
	G	*Cerithidea cingulata*	66	13	95
Mid	G	*Cerithidea djadjariensis*	140	56	56
	G	*Batillaria multiformis*	33	13	69
	G	*Cerithidea cingulata*	32	13	82
Low	Bi	*Saccostrea cucullata*	262	47	47
	G	*Monodonta labio*	98	17	64
	G	*Batillaria multiformis*	67	12	76

Bi = Bivalve, G = Gastropod

Table 3.6 (Cont'd). *The abundant species (relative abundance >10%) in every sampling zone*

Sampling zone ST	Group	Species	Mean density (ind. m^{-2})	Relative abundance (%)	Cumulative relative abundance (%)
High	G	*Monodonta labio*	83	31	31
	G	*Batillaria multiformis*	62	23	54
	Bi	*Saccostrea cucullata*	41	15	69
	G	*Lunella coronata*	36	13	82
Mid	Bi	*Saccostrea cucullata*	146	43	43
	G	*Lunella coronata*	44	13	56
	G	*Monodonta labio*	40	12	67
Low	Bi	*Saccostrea cucullata*	30	53	53

Bi = Bivalve, G = Gastropod

Table 3.7. *Mean values of species number, density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) at every tidal level and in every sampling zone*

Sampling zone	**Tidal level**	**Mean species number (spp. 0.25 m^{-2})**	**Mean species number across tidal levels**	**Mean density (ind. m^{-2})**	**Mean density across tidal levels**	**Mean *H'***	**Mean *H'* across tidal levels**	**Mean *J***	**Mean *J* across tidal levels**
TC1	H	7		613		0.7		0.3	
	M	11	10	366	422	1.5	1.3	0.7	0.6
	L	10		288		1.7		0.7	
TC2	H	7		303		1.3		0.7	
	M	8	7	236	220	1.3	1.3	0.7	0.7
	L	6		120		1.3		0.8	
TC3	H	6		488		0.9		0.5	
	M	7	8	251	433	1.2	1.2	0.6	0.6
	L	11		559		1.5		0.7	
ST	H	9		270		1.6		0.7	
	M	13	8	340	222	1.8	1.4	0.7	0.8
	L	3		56		0.8		0.8	

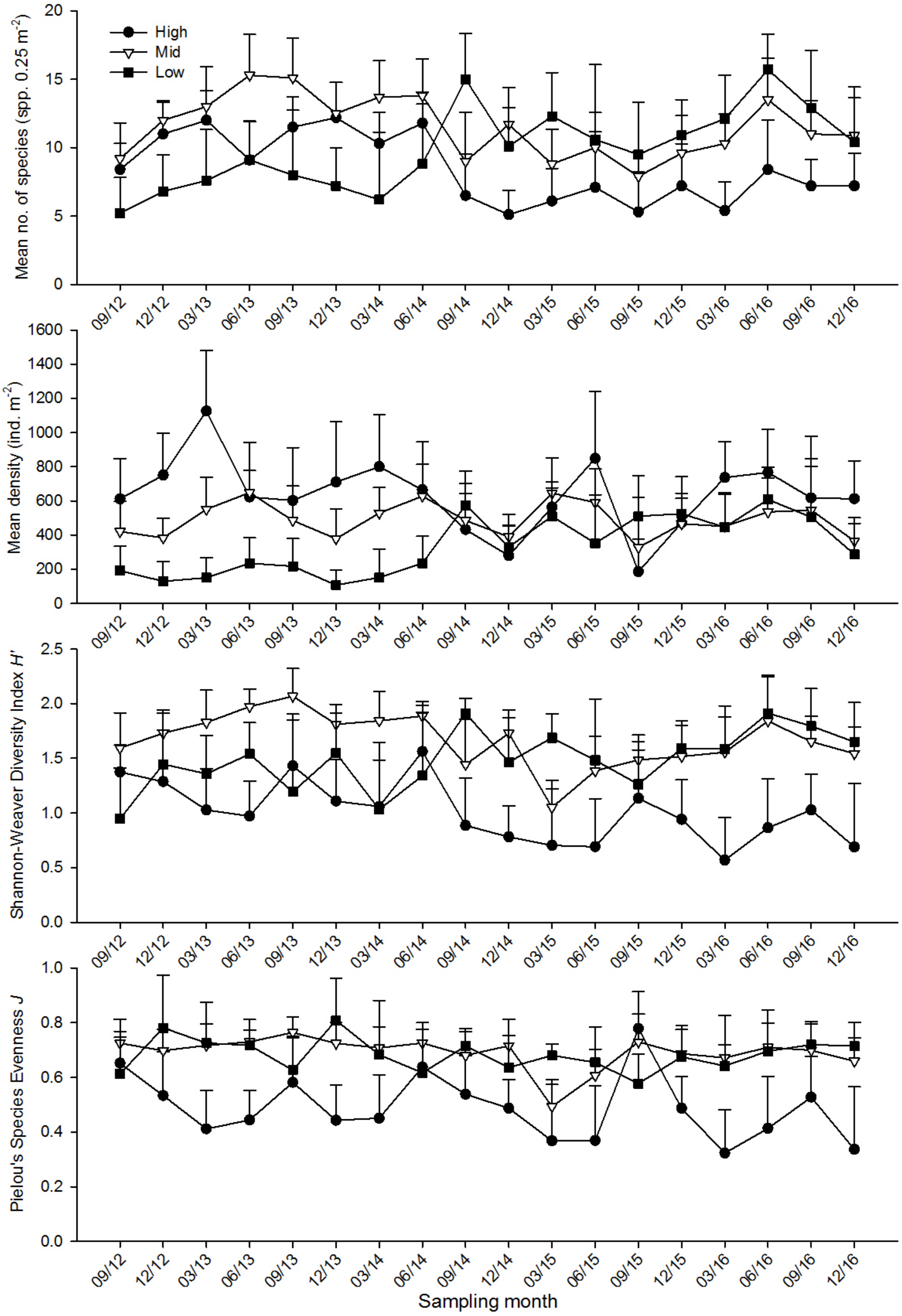


Figure 3.11. *Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC1*

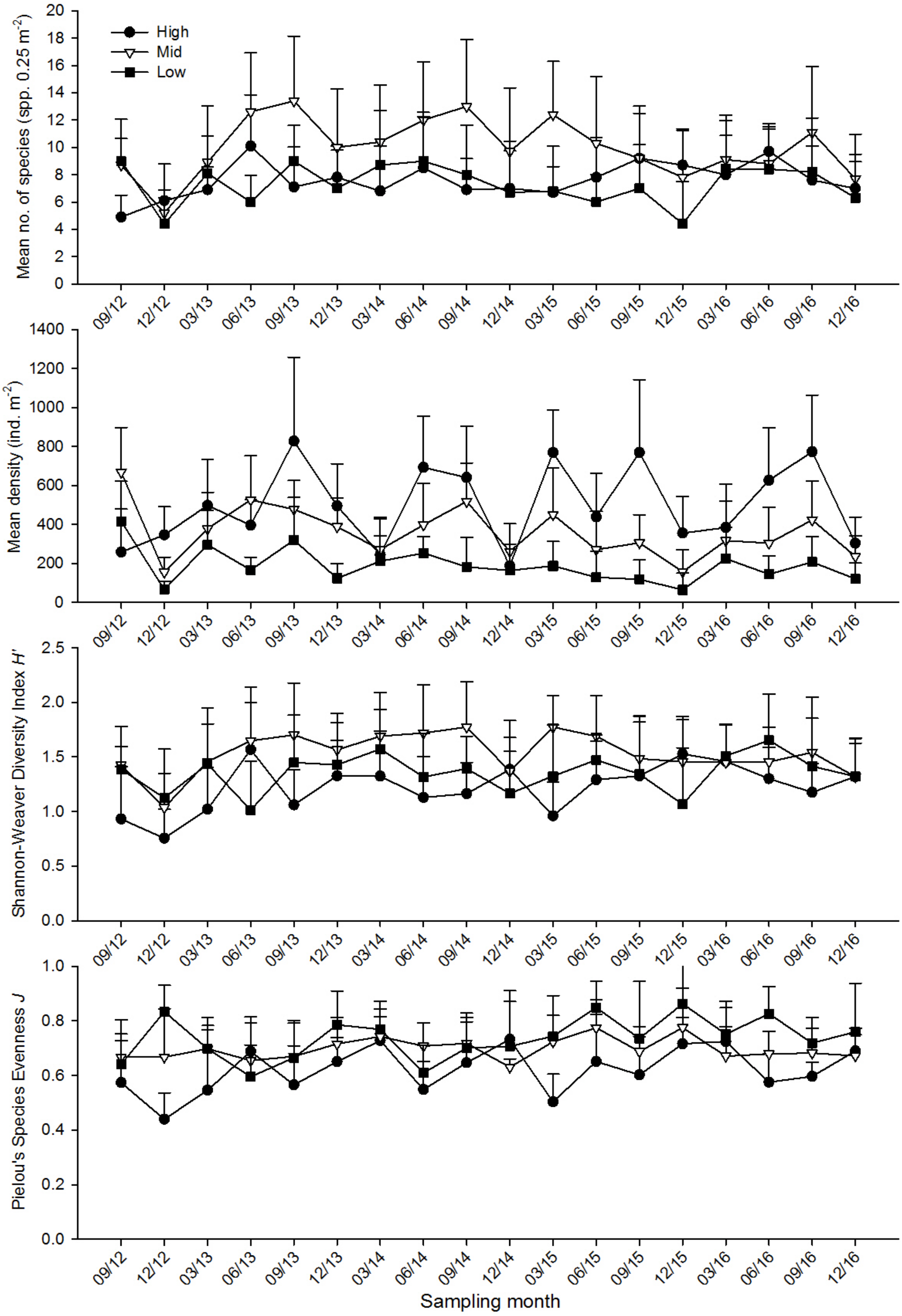


Figure 3.12. *Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2*

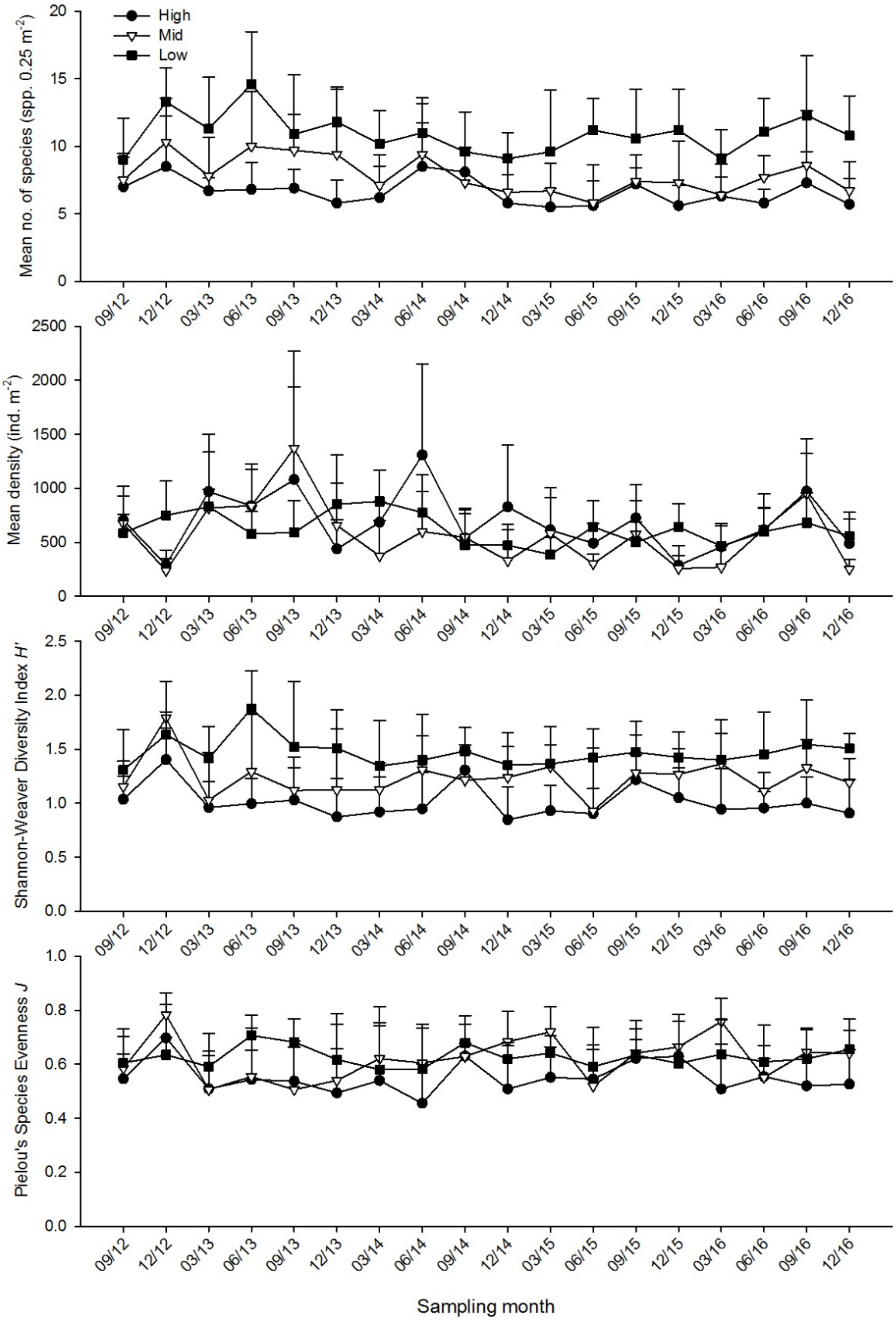


Figure 3.13. *Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3*

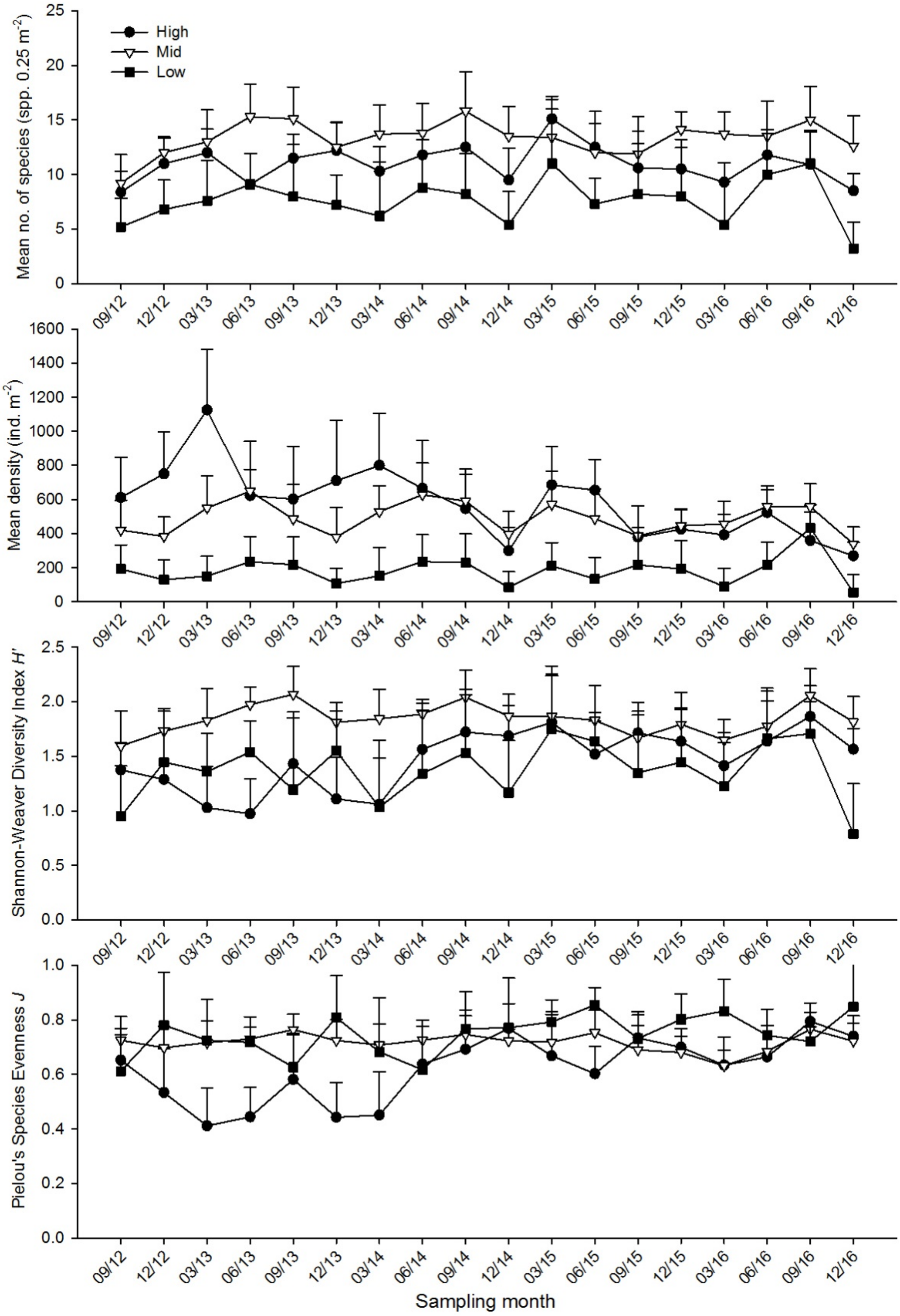


Figure 3.14. *Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST*

Annex I. *Location of sampling zones (map from ATKINS China Ltd.)*

Annex II. *Record of horseshoe crab survey in every sampling zone.*

No.	**Sub.**	**GPS coordinate**	**Record of prosomal width (mm)**	
Sampling site TC1 (Search hour = 2 hrs)			*Carcinoscorpius rotundicauda*	*Tachypleus tridentatus*
		No record		
		No. of ind.	**0**	**0**
Sampling site TC2 (Search hour = 2 hrs)			*Carcinoscorpius rotundicauda*	*Tachypleus tridentatus*
		No record		
		No. of ind.	**0**	**0**

Ind. #: number of Individuals (individuals in a group are shown at the same row)

Sub.: Substratum type; G = Gravel and Boulders, M = Soft mud, S = Sand

Annex II (Cont’d). *Record of horseshoe crab survey in every sampling zone.*

No.	**Sub.**	**GPS coordinate**		**Record of prosomal width (mm)**												
Sampling site TC3 (Search hour = 3 hrs)				*Carcinoscorpius rotundicauda*							*Tachypleus tridentatus*					
1	S	22° 16.989' N	113° 55.649' E								29.87	34.40				
2	S	22° 16.994' N	113° 55.657' E								30.06	30.34	27.81			
3	S	22° 17.001' N	113° 55.655' E	29.49	19.76											
4	M	22° 17.021' N	113° 55.655' E	45.11												
5	S	22° 16.950' N	113° 55.716' E	33.73	25.07											
6	S	22° 16.904' N	113° 55.742' E	41.65												
7	S	22° 16.979' N	113° 55.676' E	39.27												
8	S	22° 16.995' N	113° 55.646' E	36.79	16.85											
9	S	22° 17.043' N	113° 55.633' E	42.51	65.73						49.11	46.16				
10	S	22° 17.054' N	113° 55.621' E	49.75	56.76	44.24	45.84	43.66	44.25	63.79	64.24	47.47	38.66	50.01		
				62.13	40.27	51.22	42.77	46.59	47.72	35.10						
				26.71	28.62											
11	S	22° 17.085' N	113° 55.638' E								29.17	47.58	27.86	20.40	41.10	50.95
			No. of ind.	**27**							**17**					

Ind. #: number of Individuals (individuals in a group are shown at the same row)

Sub.: Substratum type; G = Gravel and Boulders, M = Soft mud, S = Sand

Annex II (Cont'd). *Record of horseshoe crab survey in every sampling zone.*

No.	Sub.	GPS coordinate		Record of prosomal width (mm)								
Sampling site ST (Search hour = 3 hrs)				*Carcinoscorpius rotundicauda*							*Tachypleus tridentatus*	
1	M	22° 17.118' N	113° 55.562' E	37.03							52.57	
2	M	22° 17.112' N	113° 55.553' E								48.51	
3	M	22° 17.151' N	113° 55.509' E	31.78	48.35	66.22						
4	M	22° 17.144' N	113° 55.501' E	39.12								
5	M	22° 17.175' N	113° 55.516' E	29.37	47.52							
6	M	22° 17.186' N	113° 55.504' E	41.15	64.39	39.91	50.04	34.07	37.19	48.28		
				42.41	48.64	62.48						
7	S	22° 17.184' N	113° 55.489' E	40.13	40.94	38.74	39.75	43.65	42.56	40.22	41.98	42.40
				44.92	42.48	25.61	25.61	39.23	40.69	31.39		
				51.86	51.89	56.08	44.00	56.81				
8	S	22° 17.209' N	113° 55.480' E	42.40	43.34							
9	S	22° 17.208' N	113° 55.499' E	51.38	65.14	41.25	45.04	40.98			43.86	
10	S	22° 17.240' N	113° 55.493' E								41.50	
11	S	22° 17.391' N	113° 55.456' E								42.73	
			No. of ind.	**43**							**7**	

Ind. #: number of Individuals (individuals in a group are shown at the same row)

Sub.: Substratum type; G = Gravel and Boulders, M = Soft mud, S = Sand

Annex III. *Record of seagrass beds survey in every sampling zone*

Estimated area (m^2)	Estimated coverage (%)	GPS coordinate				Remark
TC1 (search hour = 2 hrs) & TC2 (search hour = 2 hrs)						
No record						
TC3 (search hour = 3 hrs)	*Halophila ovalis*					
13.0	80	a single patch	22º 17.073' N	113º 55.600' E		A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.
13.0	80	a single patch	22º 17.082' N	113º 55.600' E		A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.
29.2	80	a single patch	22º 17.095' N	113º 55.588' E		A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.
ST (search hour = 3 hrs)	*Halophila ovalis*					
10838.3	70	horizontal line	22º 17.100' N	113º 55.579' E	--	An entensive patch of seagrass bed at tidal zone 0.5-1.5 m above C.D.
			22º 17.168' N	113º 55.518' E		
			22º 17.126' N	113º 55.526' E	--	
		vertical line	22º 17.150' N	113º 55.555' E		
145.1	80	a single patch	22º 17.190' N	113º 55.535' E		A medium patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.
43.7	80	a single patch	22º 17.188' N	113º 55.529' E		A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.
8.1	90	a single patch	22º 17.186' N	113º 55.518' E		A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.
9.0	90	a single patch	22º 17.185' N	113º 55.513' E		A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.
25.0	90	a single patch	22º 17.182' N	113º 55.507' E		A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.

Annex III (Cont'd). *Record of seagrass beds survey in every sampling zone*

Estimated area (m^2)	Estimated coverage (%)		GPS coordinate			Remark
ST (search hour = 3 hrs)		*Halophila ovalis*				
38.0	90	a single patch	22º 17.185' N	113º 55.508' E		A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.
62.7	80	a single patch	22º 17.186' N	113º 55.503' E		A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.
796.0	50-70	horizontal line	22º 17.168' N	113º 55.477' E	--	A horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 2.0 m above C.D.
			22º 17.191' N	113º 55.478' E		
		vertical line	22º 17.180' N	113º 55.473' E	--	
			22º 17.181' N	113º 55.484' E		
448.8	50-80	horizontal line	22º 17.199' N	113º 55.475' E	--	A medium, horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 2.0 m above C.D.
			22º 17.213' N	113º 55.473' E		
		vertical line	22º 17.204' N	113º 55.471' E	--	
			22º 17.203' N	113º 55.481' E		
135.7	50-80	horizontal line	22º 17.213' N	113º 55.476' E	--	A medium, horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 2.0 m above C.D.
			22º 17.218' N	113º 55.475' E		
		vertical line	22º 17.214' N	113º 55.470' E	--	
			22º 17.216' N	113º 55.478' E		

Annex III (Cont'd). *Record of seagrass beds survey in every sampling zone*

Estimated area (m^2)	Estimated coverage (%)	GPS coordinate				Remark
ST (search hour = 3 hrs)	*Zostera japonica*					
64.5	50-70	horizontal line	22º 17.202' N 22º 17.213' N	113º 55.471' E 113º 55.472' E	--	A medium, horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 2.0 m above C.D.

Annex IV. *Taxonomic resolution of every recorded species of intertidal soft shore community survey*

Kingdom	Phylum	Class	Order	Family	Species
Animalia	Annelida	Clitellata			Marine oligochaete spp.
Animalia	Annelida	Polychaeta	Eunicida	Onuphidae	Onuphidae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Goniadidae	Goniadidae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Nereididae	Nereididae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae spp.
Animalia	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae spp.
Animalia	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae spp.
Animalia	Annelida	Polychaeta		Maldanidae	Maldanidae spp.
Animalia	Annelida	Polychaeta		Orbiniidae	Orbiniidae spp.
Animalia	Arthropoda	Malacostraca	Decapoda	Diogenidae	*Clibanarius* sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	*Metopograpsus latifrons*
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	*Macrophthalmus erato*
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	*Macrophthalmus* sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	*Uca* sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	*Uca vocans*
Animalia	Arthropoda	Malacostraca	Decapoda	Paguridae	*Pagurus dubius*
Animalia	Arthropoda	Malacostraca	Decapoda	Portunidae	*Charybdis* sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Sesarmidae	*Nanosesarma minutum*
Animalia	Arthropoda	Malacostraca	Decapoda	Sesarmidae	*Perisesarma fasciata*
Animalia	Arthropoda	Malacostraca	Decapoda	Varunidae	*Hemigrapsus penicillatus*
Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	*Etisus laevimanus*
Animalia	Arthropoda	Maxillopoda	Sessilia	Balanidae	*Balanus amphitrite*
Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	*Periophthalmus cantonensis*
Animalia	Cnidaria	Anthozoa	Actiniaria	Diadumenidae	*Diadumene lineata*
Animalia	Echiura				Echiura spp.
Animalia	Mollusca	Bivalvia	Arcoida	Arcidae	*Barbatia virescens*
Animalia	Mollusca	Bivalvia	Euheterodonta	Hiatellidae	*Hiatella arctica*
Animalia	Mollusca	Bivalvia	Mytiloida	Mytilidae	*Xenostrobus atratus*
Animalia	Mollusca	Bivalvia	Ostreoida	Ostreidae	*Saccostrea cucullata*
Animalia	Mollusca	Bivalvia	Veneroida	Corbiculidae	*Geloina erosa*
Animalia	Mollusca	Bivalvia	Veneroida	Mesodesmatidae	*Caecella chinensis*
Animalia	Mollusca	Bivalvia	Veneroida	Tellinidae	*Tellina* sp.

Annex IV (Cont'd). *Taxonomic resolution of every recorded species of intertidal soft shore community survey*

Kingdom	Phylum	Class	Order	Family	Species
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	*Anomalocardia squamosa*
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	*Circe* sp.
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	*Cyclina sinesis*
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	*Ruditapes philippinarum*
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	*Batillaria bornii*
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	*Batillaria multiformis*
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	*Batillaria zonalis*
Animalia	Mollusca	Gastropoda	Caenogastropoda	Planaxidae	*Planaxis sulcatus*
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	*Cerithidea cingulata*
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	*Cerithidea djadjariensis*
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	*Cerithidea rhizophorarum*
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	*Terebralia sulcata*
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	*Clithon faba*
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	*Clithon oualaniensis*
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	*Nerita polita*
Animalia	Mollusca	Gastropoda	Littorinimorpha	Littorinidae	*Littoraria articulata*
Animalia	Mollusca	Gastropoda	Littorinimorpha	Rissoinidae	*Rissoina plicatula*
Animalia	Mollusca	Gastropoda	Neogastropoda	Muricidae	*Thais luteostoma*
Animalia	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Nassarius festivus*
Animalia	Mollusca	Gastropoda	Neogastropoda	Nassariidae	*Nassarius* sp.
Animalia	Mollusca	Gastropoda		Lottiidae	*Nipponacmea concinna*
Animalia	Mollusca	Gastropoda		Lottiidae	*Patelloida pygmaea*
Animalia	Mollusca	Gastropoda		Nacellidae	*Cellana grata*
Animalia	Mollusca	Gastropoda		Nacellidae	*Cellana toreuma*
Animalia	Mollusca	Gastropoda		Trochidae	*Euchelus scaber*
Animalia	Mollusca	Gastropoda		Trochidae	*Monodonta labio*
Animalia	Mollusca	Gastropoda		Turbinidae	*Lunella coronata*
Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae	*Lepidozona* sp.
Animalia	Mollusca	Scaphopoda	Dentaliida	Dentaliidae	*Dentalium sinuosum*
Animalia	Nemertea				Nemertea spp.
Animalia	Platyhelminthes				Platyhelminthes spp.
Animalia	Sipuncula	Sipunculidea	Golfingiida	Sipunculidae	*Sipunculus nudus*

Annex V. *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 1 High tidal level (2.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
Bi	*Saccostrea cucullata*	10		11								1				4		2		4		32
Bi	*Xenostrobus atratus*			1																		1
C	*Hemigrapsus penicillatus*					1																1
C	*Nanosesarma minutum*	1		3																		4
C	*Perisesarma fasciata*			1		1																2
Eh	Echiura spp.							1														1
G	*Batillaria bornii*	1																				1
G	*Batillaria multiformis*	32		57		49		191		152		116		153		149		159		251		1309
G	*Cerithidea cingulata*	24		11		1		1		1												38
G	*Cerithidea djadjariensis*	14		13		8				1						1						37
G	*Cerithidea rhizophorarum*	3		6		1				2		2										14
G	*Clithon faba*							1		1						1		4				7
G	*Clithon oualaniensis*																			1		1
G	*Littoraria articulata*	1														3				1		5
G	*Lunella coronata*	3				1		1								1						6
G	*Monodonta labio*	5		4		5		2		1		11		8		13		6		1		56
G	*Nassarius festivus*																	1				1
G	*Nerita polita*	1				1																2
G	*Rissoina plicatula*									2				3				3		1		9

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 1 High tidal level (2.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
G	*Terebralia sulcata*																			1		1
Ne	Nemertea spp.			1																		1
Ol	Marine oligochaete spp.											2								1		3
																					Total	**1532**

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 1 Mid tidal level (1.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
Ba	*Balanus amphitrite*																			1		1
Bi	*Anomalocardia squamosa*					1																1
Bi	*Barbatia virescens*	1						1										2		1		5
Bi	*Caecella chinensis*											1										1
Bi	*Saccostrea cucullata*	17		29				28		18		14		36		19		41		35		237
Bi	*Tellina* sp.						1															1
Bi	*Xenostrobus atratus*	2		1				4				3								1		11
C	*Hemigrapsus penicillatus*	3																				3
C	*Metopograpsus latifrons*	1						2				1										4
C	*Nanosesarma minutum*	2								3								1				6
C	*Uca* sp.									3												3
Eh	Echiura spp.	8		1																		9
G	*Batillaria bornii*	1																				1
G	*Batillaria multiformis*	4		27			1	7		41		62		88		31		43		36		340
G	*Cellana toreuma*	1										1						3		2		7
G	*Cerithidea cingulata*	1		2		1														1		5
G	*Cerithidea djadjariensis*	1		1		4	1							1		2				2		12
G	*Cerithidea rhizophorarum*	1						1		1												3
G	*Clithon oualaniensis*			2								1				2		1				6

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 1 Mid tidal level (1.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
G	*Euchelus scaber*																	1				1
G	*Lepidozona* sp.															1		1				2
G	*Littoraria articulata*	6						2		1		2		7								18
G	*Lunella coronata*	2		5				2		1		2		4		5		1		3		25
G	*Monodonta labio*	41		5				49		25		16		6		10		10		22		184
G	*Nassarius festivus*	1		1												1						3
G	*Nerita polita*			1						1		4										6
G	*Nipponacmea concinna*	1								1		2										4
G	*Patelloida pygmaea*	1																				1
Hc	*Pagurus dubius*						2															2
Ne	Nemertea spp.											4		1		1						6
Ol	Marine oligochaete spp.											1										1
P	Maldanidae spp.						1															1
Pl	Platyhelminthes spp.															1						1
Sp	*Sipunculus nudus*			2																1		3
																					Total	**914**

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 1 Low tidal level (1.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
Ba	*Balanus amphitrite*	2		3		1										32				16		54
Bi	*Anomalocardia squamosa*			1	1																	2
Bi	*Barbatia virescens*	10		6				2		14				1								33
Bi	*Hiatella arctica*							1												1		2
Bi	*Ruditapes philippinarum*											1						1				2
Bi	*Saccostrea cucullata*	57		42				4		91		18		20		4		16		24		276
Bi	*Tellina* sp.												1									1
Bi	*Xenostrobus atratus*	1		1										1		11				3		17
C	*Charybdis* sp.																	1				1
C	*Hemigrapsus penicillatus*	1								1												2
C	*Nanosesarma minutum*	7		2										2		7						18
Cn	*Diadumene lineata*													1		1						2
G	*Batillaria bornii*									4			2	3								9
G	*Batillaria multiformis*	38		2	1	20	1	1				3		7								73
G	*Batillaria zonalis*			5	7	20	2	5				1	2									42
G	*Cellana toreuma*	3								3				2				1				9
G	*Cerithidea cingulata*							7				2	4	1								14
G	*Cerithidea djadjariensis*	1		1		1		10					2	9								24
G	*Cerithidea rhizophorarum*							1				1	2	1								5

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 1 Low tidal level (1.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
G	*Clithon faba*							1														1
G	*Clithon oualaniensis*	1																				1
G	*Dentalium sinuosum*											1										1
G	*Euchelus scaber*							1						1		4		2		1		9
G	*Lepidozona* sp.																			1		1
G	*Lunella coronata*	11		2				8		6				3		7		3		5		45
G	*Monodonta labio*	27		2		2		2		15				2		2		2		6		60
G	*Nerita polita*	4		1												1						6
G	*Nipponacmea concinna*	1								4												5
G	*Patelloida pygmaea*	1																				1
G	*Thais luteostoma*	1																				1
Hc	*Pagurus dubius*																	1				1
P	Maldanidae spp.												1									1
Sp	*Sipunculus nudus*									1												1
																					Total	**720**

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 2 High tidal level (2.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
Ba	*Balanus amphitrite*					4						3				5						12
Bi	*Geloina erosa*			1				2														3
Bi	*Hiatella arctica*					1																1
Bi	*Saccostrea cucullata*			16		32		4				7		1		7		3		12		82
C	*Nanosesarma minutum*											1										1
C	*Uca* sp.									6											1	7
C	*Uca vocans*														1							1
G	*Batillaria multiformis*			1		2		1				3		3		1		2			1	14
G	*Batillaria zonalis*									1				7	1	6	2	2	1	11		31
G	*Cellana toreuma*															1						1
G	*Cerithidea cingulata*	15	1	30		35	1	31	2	7		5		27	1	30	1	11		14		211
G	*Cerithidea djadjariensis*	47	1	37		34	3	67	7	19		17		24	8	45	12	16		22	1	360
G	*Cerithidea rhizophorarum*	1		3		6		5		2						1				2		20
G	*Lunella coronata*					1						1						1		1		4
G	*Nassarius festivus*					1																1
G	*Nassarius* sp.																			1		1
G	*Nerita polita*											1										1
P	Ampharetidae spp.							3							1				2			6

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 2 High tidal level (2.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
P	Terebellidae spp.																1					1
																					Total	**758**

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 2 Mid tidal level (1.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
Ba	*Balanus amphitrite*											3		1		3		5		8		20
Bi	*Barbatia virescens*													3								3
Bi	*Hiatella arctica*	1																		1		2
Bi	*Saccostrea cucullata*	19		7						7		17		52		10		12		36		160
C	*Hemigrapsus penicillatus*			1								1								1		3
C	*Nanosesarma minutum*		1											2						5		8
C	*Uca* sp.			49		39		5			1											94
G	*Batillaria bornii*			2																		2
G	*Batillaria multiformis*			1				1				1		8		5	2					18
G	*Batillaria zonalis*	5		6		10	1	34	3	25	2			10		25	3					124
G	*Cerithidea cingulata*	4		2		4	1	7	3	1				3	1	5	3					34
G	*Cerithidea djadjariensis*	11	3	7		20	4	8	3	3				3		10	3			1		76
G	*Cerithidea rhizophorarum*			1				2								1						4
G	*Euchelus scaber*			1																		1
G	*Lunella coronata*	1		13				1				1								6		22
G	*Monodonta labio*			1		1																2
G	*Nassarius festivus*							1														1
G	*Nerita polita*	1		2																		3
P	Ampharetidae spp.		2																			2

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 2 Mid tidal level (1.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
P	Maldanidae spp.		1				2								2		1					6
P	Onuphidae spp.														1			1				2
P	Orbiniidae spp.				2																	2
Sp	*Sipunculus nudus*	2																				2
																					Total	**591**

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 2 Low tidal level (1.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
Ba	*Balanus amphitrite*													4		9		2				15
Bi	*Anomalocardia squamosa*																		1			1
Bi	*Circe* sp.																		1			1
Bi	*Hiatella arctica*							1										1				2
Bi	*Saccostrea cucullata*					1		16		12				30		60		21		19		159
C	*Hemigrapsus penicillatus*																			1		1
C	*Macrophthalmus* sp.	1																				1
C	*Nanosesarma minutum*			2										2				1				5
C	*Uca* sp.	3																				3
G	*Batillaria bornii*					2																2
G	*Batillaria multiformis*			1			1											1		1		4
G	*Batillaria zonalis*	3		3		4	1	9	2	5	3	3		5	1	1			1	1	2	44
G	*Cerithidea cingulata*	1		1		3	1			7	1					2		1				17
G	*Cerithidea djadjariensis*			2		4	1	2		4	1		1			1		1			1	18
G	*Cerithidea rhizophorarum*															1						1
G	*Euchelus scaber*																	1				1
G	*Lunella coronata*					8												2		4		14
Ne	Nemertea spp.										1											1
P	Maldanidae spp.												1		3				2			6

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 2 Low tidal level (1.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
P	Onuphidae spp.		1										1		1				1			4
Sp	*Sipunculus nudus*																	1				1
																					Total	**301**

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 3 High tidal level (2.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
Bi	*Anomalocardia squamosa*	1																				1
Bi	*Barbatia virescens*							1														1
Bi	*Circe* sp.		1								1											2
Bi	*Geloina erosa*																1					1
Bi	*Saccostrea cucullata*					1		13														14
C	*Macrophthalmus erato*													1								1
C	*Uca* sp.										1											1
F	*Periophthalmus cantonensis*	1																				1
G	*Batillaria multiformis*	4		86	1	98	1	131	12	52	24	3		16		19		3		73	18	541
G	*Batillaria zonalis*			3			1															4
G	*Cerithidea cingulata*	30	3	1		16	2	36		25	3	19		15		6		5		2	1	164
G	*Cerithidea djadjariensis*	60	1			65	4	46	1	25	3	71	2	64		39	7	45		23	2	458
G	*Cerithidea rhizophorarum*					2		3		1				3		3		3		2		17
G	*Clithon oualaniensis*							1		3												4
Ne	Nemertea spp.																	1				1
P	Ampharetidae spp.								1						1							2
P	Maldanidae spp.														3			2				5
P	Nereididae spp.																		1			1

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 3 High tidal level (2.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
P	Onuphidae spp.														1							1
																					Total	**1220**

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 3 Mid tidal level (1.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
Ba	*Balanus amphitrite*							1														1
Bi	*Anomalocardia squamosa*											2										2
Bi	*Cyclina sinesis*													1								1
Bi	*Ruditapes philippinarum*	1																				1
Bi	*Saccostrea cucullata*							8														8
C	*Macrophthalmus erato*								1													1
C	*Uca* sp.								1									12		11		24
G	*Batillaria bornii*							1														1
G	*Batillaria multiformis*	20	3	4		21		6	1	5				2		2		1		17		82
G	*Batillaria zonalis*	13		1		8		6	1	3		4		1		3		1				41
G	*Cerithidea cingulata*	6	5	13	1	5		5	3	16	1	8		5		7				6		81
G	*Cerithidea djadjariensis*	28	6	36	10	26		38	8	57	2	42	1	24	1	52	2	6	9	1		349
G	*Cerithidea rhizophorarum*	1				1				8		3		1		5						19
G	*Clithon oualaniensis*					1		1								1						3
G	*Lunella coronata*							1												1		2
G	*Monodonta labio*																			1		1
G	*Nassarius festivus*					1		1								1						3
P	Maldanidae spp.										3		1	1	1	1			1			8
																					Total	**628**

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 3 Low tidal level (1.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
Ba	*Balanus amphitrite*													7								7
Bi	*Barbatia virescens*	1		2		4		13		16								1				37
Bi	*Hiatella arctica*	2		1		1		1														5
Bi	*Ruditapes philippinarum*	1																				1
Bi	*Saccostrea cucullata*	94		83		105		101		112		39		16		35		41		28		654
Bi	*Xenostrobus atratus*					1				1								3				5
C	*Hemigrapsus penicillatus*	3						3								3				2		11
C	*Nanosesarma minutum*	1		9		3		4		2												19
C	*Uca* sp.											14										14
Eh	Echiura spp.							2		1												3
G	*Batillaria bornii*	3														2						5
G	*Batillaria multiformis*	3		21		13		2		2		7				46		43		26	5	168
G	*Batillaria zonalis*													1								1
G	*Cellana toreuma*							6		2						1				1		10
G	*Cerithidea cingulata*	1		1		2								2				4		1	5	16
G	*Cerithidea djadjariensis*	4		2									4	14				3		1	17	45
G	*Cerithidea rhizophorarum*	1		1														1				3
G	*Littoraria articulata*			3		2						2										7
G	*Lunella coronata*	23		5		17		17		7		13				3		4		14		103

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone TC 3 Low tidal level (1.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
G	*Monodonta labio*	12		51		57		48		24		8				13		5		26		244
G	*Nerita polita*			1		4				1				1				2		2		11
G	*Nipponacmea concinna*	1						2		3												6
G	*Patelloida pygmaea*							1								4						5
G	*Thais luteostoma*					2																2
Hc	*Clibanarius* sp.	1																				1
Hc	*Pagurus dubius*					2																2
Ne	Nemertea spp.															1						1
P	Nereididae spp.			1																		1
P	Polynoidae spp.					1																1
Pl	Platyhelminthes spp.															1						1
Sp	*Sipunculus nudus*									8												8
																					Total	**1397**

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone ST High tidal level (2.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
Ba	*Balanus amphitrite*													1								1
Bi	*Barbatia virescens*													2								2
Bi	*Circe* sp.					1																1
Bi	*Geloina erosa*											1										1
Bi	*Saccostrea cucullata*			1		3		7		7		24		20		23		9		9		103
Bi	*Xenostrobus atratus*					2																2
C	*Hemigrapsus penicillatus*			3																		3
C	*Metopograpsus latifrons*											2										2
C	*Nanosesarma minutum*							1								1						2
Cn	*Diadumene lineata*	1																				1
G	*Batillaria bornii*			2										1		4		1		2		10
G	*Batillaria multiformis*	5		5		10		14		2		30		21		16		14		39		156
G	*Cellana grata*													3		3		2		1		9
G	*Cerithidea cingulata*			1														2				3
G	*Clithon faba*									3				4								7
G	*Clithon oualaniensis*							1						1		4		4				10
G	*Euchelus scaber*					1																1
G	*Lepidozona* sp.							1								1						2
G	*Littoraria articulata*			6		8		5		20		1								1		41

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone ST High tidal level (2.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
G	*Lunella coronata*	1		5		7		7		5		11		7		21		19		6		89
G	*Monodonta labio*	6		47		42		38		22		5		9		14		17		8		208
G	*Nerita polita*	2		5		3		4		1						1				1		17
G	*Nipponacmea concinna*															1						1
G	*Planaxis sulcatus*									1												1
Hc	*Pagurus dubius*											1										1
																					Total	**674**

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone ST Mid tidal level (1.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
Ba	*Balanus amphitrite*			1																		1
Bi	*Barbatia virescens*					7		1		4				6		1		9		8		36
Bi	*Hiatella arctica*													9		2						11
Bi	*Ruditapes philippinarum*											1		2		2				6		11
Bi	*Saccostrea cucullata*	67		31		48		21		46		16		46		27		31		31		364
Bi	*Xenostrobus atratus*					4				4						1						9
C	*Etisus laevimanus*									1												1
C	*Macrophthalmus erato*																			1		1
C	*Metopograpsus latifrons*																			1		1
C	*Nanosesarma minutum*					1												1		2		4
Cn	*Diadumene lineata*			1		1						1										3
Eh	Echiura spp.	1																				1
G	*Batillaria bornii*	1												2		2		1		1		7
G	*Batillaria multiformis*	19		11				5		4				2		1		9		1		52
G	*Batillaria zonalis*					4		6														10
G	*Cellana grata*									1				3		6		2		5		17
G	*Cellana toreuma*	1		6		3		1		7		6				1		1		4		30
G	*Cerithidea cingulata*									1		2		2		1						6
G	*Cerithidea djadjariensis*	1		1		17		7		2								1		1		30

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone ST Mid tidal level (1.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
G	*Cerithidea rhizophorarum*					3				1												4
G	*Clithon oualaniensis*									1												1
G	*Euchelus scaber*					5		2														7
G	*Lepidozona* sp.			1																		1
G	*Lunella coronata*	16		15		10		1		5		13		11		13		11		14		109
G	*Monodonta labio*	10		1		4		6		7		7		30		16		9		9		99
G	*Nassarius festivus*															2						2
G	*Nerita polita*	1								2		1		1		1		2		2		10
G	*Nipponacmea concinna*			1						4		2		1		1				1		10
G	*Patelloida pygmaea*											1		1						3		5
G	*Thais luteostoma*													1						2		3
Hc	*Pagurus dubius*											1								1		2
Ne	Nemertea spp.	1																				1
Sp	*Sipunculus nudus*	1																				1
																					Total	**850**

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone ST Low tidal level (1.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
Ba	*Balanus amphitrite*															4						4
Bi	*Barbatia virescens*	7														2		2				11
Bi	*Circe* sp.								1				1									2
Bi	*Ruditapes philippinarum*																	1				1
Bi	*Saccostrea cucullata*	55		12												7						74
Bi	*Tellina* sp.												1									1
Bi	*Xenostrobus atratus*	8																				8
C	*Nanosesarma minutum*	4														1						5
G	*Batillaria multiformis*	1																				1
G	*Batillaria zonalis*	6																		2		8
G	*Cerithidea cingulata*														1							1
G	*Dentalium sinuosum*														1							1
G	*Euchelus scaber*	1														1						2
G	*Lunella coronata*	4														3		5				12
G	*Monodonta labio*	1																				1
G	*Nassarius festivus*			1																		1
Ne	Nemertea spp.										1											1
P	Goniadidae spp.										1											1
P	Nereididae spp.						1		1													2

Annex V (Cont'd). *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Dec 2016 Sampling zone ST Low tidal level (1.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
P	Onuphidae spp.						1				2											3
																					Total	**140**

Key for faunal groups (Gp):

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

P: Polychaete, Pl: Platyhelminthes, Po: Polyplacophores, S: Shrimp, Sc: Scaphopods, Sp: Sipunculan