

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. 24 (June 2018 to August 2018)

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Main Contractor



Designer



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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 Hong Kong 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 twenty-fourth 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 June 2018 to 31 August 2018.

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		
		June 2018	July 2018	August 2018
Air Quality	1-hr TSP	4, 8, 14, 20, 26 and 28	4, 10, 16, 20 and 26	1, 7, 13, 17, 23 and 29
	24-hr TSP	1, 7, 13, 19, 25 and 27	3, 9, 13, 19, and 25 for AMS5; 3, 9, 13, 19, 25 and 31 for AMS6	1, 8, 10, 16, 22 and 28 for AMS5; 6, 10, 16, 22 and 28 for AMS6
Noise		4, 14, 20 and 26	4, 10, 16 and 26	1, 7, 13, 23 and 29
Water Quality		1, 4, 6, 11, 13, 15, 18, 20, 22, 25, 27 and 29	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, 27, 29 and 31
Chinese White Dolphin		5, 13, 19 and 27	3, 9, 12 and 20	1, 8, 21 and 28
Mudflat Monitoring (Ecology)		2, 3, 16, 17 and 27	-	-
Mudflat Monitoring (Sedimentation rate)		15	-	-
Site Inspection		6, 13, 20 and 29	4, 11, 18 and 27	1, 8, 15, 22 and 31

Due to poor weather on 12 and 13 June 2018, the mudflat monitoring was rescheduled to 16 and 27 June 2018 respectively.

Due to unstable weather on 13 June 2018, the sedimentation rate monitoring was rescheduled from 13 June 2018 to 15 June 2018.

Due to the mechanical failure in the boat engine, the dolphin monitoring was rescheduled from 26 June 2018 to 27 June 2018.

Due to boat unavailability on 12 June 2018 and 17 July 2018, the dolphin monitoring was rescheduled from 12 June 2018 to 13 June 2018 and 17 July 2018 to 20 July 2018.

Due to the bad weather condition, the dolphin monitoring was rescheduled from 13 August 2018 to 28 August 2018 and from 15 August 2018 to 21 August 2018.

Due to adverse weather condition (hoisting Tropical Cyclone Warning Signal, No. 1, Thunderstorm Warning and Amber Rainstorm Warning Signal), water quality monitoring for ebb tide on 6 June 2018 was cancelled due to safety reasons. The water quality monitoring for flood tide on 6 June 2018 was also cancelled except at stations SR10B(N2) and SR10A(N).

Due to adverse weather condition (hoisting of Strong Wind Signal, No. 3), water quality monitoring for both ebb and flood tides on 8 June 2018 were cancelled due to safety reasons.

Thunderstorm Warning and Amber Rainstorm Warning Signal were issued by Hong Kong Observatory on 22 June 2018 and 22 August 2018. The water quality monitoring for flood tide at all stations on 22 June 2018 and the water quality monitoring at SR10A(N) and SR10B(N2) for flood tide on 22 August 2018 was cancelled due to safety reason.

As the Strong Wind Signal No.3 was hoisted and Thunderstorm Warning was issued by Hong Kong Observatory. The water quality monitoring for flood tide on 18 July 2018 was cancelled due to safety reasons.

Thunderstorm Warning was issued by Hong Kong Observatory on 2 July 2018, 10 and 20 August 2018. The water quality monitoring for ebb tide on 2 July 2018 and 20 August 2018; and the water quality monitoring for flood tide on 10 August 2018 were cancelled due to safety reasons.

Thunderstorm Warning was issued by the Hong Kong Observatory on 6 August 2018. The water quality monitoring for flood tide on 6 August 2018 was cancelled due to safety reason except at stations CS2(A), SR3(N).and IS5.

The monitoring time for TSP monitoring on 31 July 2018 at AMS5 (Ma Wan Chung Village) was less than 24-hr due to power interruption of the high volume sampler (HVS). The 24-hr TSP monitoring was rescheduled from 31 July 2018 to 1 August 2018.

The monitoring time for TSP monitoring on 6 August 2018 at AMS5 (Ma Wan Chung Village) was less than 24-hr due to malfunction of HVS. The 24-hr TSP monitoring was rescheduled from 6 August 2018 to 8 August 2018.

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	1
Noise	Leq (30 min)	1	0

Environmental Monitoring	Parameters	Action Level (AL)	Limit Level (LL)
Water Quality	Suspended solids level (SS)	2	0
	Turbidity level	0	0
	Dissolved oxygen level (DO)	13	5
Dolphin Monitoring	Quarterly Analysis (Jun 2018 to Aug 2018)	0	1

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

A complaint (Complaint No. COM-2018-142) in relation to the environmental impacts (Noise impact) was received on 29 June 2018. A further complaint related to same issue was received on 6 July 2018. Based on our investigation result, the complaint was related to Contract No. HY/2011/03. A summary of environmental complaint for June 2018 and July 2018 is as follows:

A summary of environmental complaints for the reporting period is as follows:

Environmental Complaint No.	Date of Complaint Received	Description of Environmental Complaint
Complaint No. COM-2018-142	EPD (ENPO referred the email to SOR, Contractor and ET on 29 June 2018 and 6 July 2018)	Noise

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 subsequent 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: 813273E, 818850N) 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 stations 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 were expired on 31 December 2016. 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. The permit has been granted by Marine Department on 6 January 2017. Thus, the impact water quality monitoring works at original monitoring location of IS10 and SR5 has been resumed since 9 January 2017.

Transect lines 2, 3, 4, 5, 6 and 7 for dolphin monitoring have been revised and transect line 24 has been added due to the presence of a work zone to the north of the airport platform with intense construction activities in association with the construction of the third runway expansion for the Hong Kong International Airport. The EPD issued a memo and confirmed that they had no objection on the revised transect lines on 28 July 2017. The alternative dolphin transect lines are adopted starting from August's dolphin monitoring.

A new water quality monitoring team has been employed for carrying out water quality monitoring work for the Contract starting from 23 August 2017. Due to marine work of the Expansion of Hong Kong International Airport into a Three-Runway System (3RS Project), original locations of water quality monitoring stations CS2, SR5 and IS10 are enclosed by works boundary of 3RS Project. Alternative impact water quality monitoring stations, naming as CS2(A), SR5(N) and IS10(N) was approved on 28 July 2017 and were adopted starting from 23 August 2017 to replace the original locations of water quality monitoring for the Contract.

The role and responsibilities as the ET Leader of the Contract was temporarily taken up by Mr Willie Wong instead of Ms Claudine Lee from 25 September 2017 to 31 December 2017.

The topographical condition of the water monitoring stations SR3 (Coordinate: 810525E, 816456N), SR4 (Coordinate: 814760E, 817867N), SR10A (Coordinate: 823741E, 823495N) and SR10B (Coordinate: 823686E, 823213N) cannot be accessed safely for undertaking water quality monitoring. The water quality monitoring has been temporarily conducted at alternative stations, namely SR3(N) (Coordinate 810689E, 816591N), SR4(N) (Coordinate: 814705E, 817859N) and SR10A(N) (Coordinate: 823644E, 823484N) since 1 September 2017. The water quality monitoring at station SR10B was temporarily conducted at Coordinate: 823683E, 823187N on 1, 4, 6, 8 September 2017 and has been temporarily fine-tuned to alternative station SR10B(N2) (Coordinate: 823689E, 823159N) since 11 September 2017. Proposal for permanently relocating the aforementioned stations was approved by EPD on 8 January 2018.

According to latest information received in July 2018, the works area WA7 was handed over to other party on 28 February 2018 instead of 31 January 2018.

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. The works area WA7 was handed over to other party on 31 January 2018. **Figure 1.1** shows the project site boundary.
- 1.1.4 BMT Hong Kong 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 Hong Kong Limited 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 twenty-fourth 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 June 2018 to 31 August 2018.

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
Dismantling/trimming of temporary 40mm stone platform for construction of seawall	Portion X
Construction of seawall	Portion X
Loading and unloading of filling materials	Portion X
Backfilling at Scenic Hill Tunnel (Cut & Cover Tunnel)	Portion X
Works for diversion	Airport Road
Utilities detection	Airport Road/ Airport Express Line/ East Coast Road
Establishment of site access	Airport Road/ Airport Express Line/ East Coast Road
E&M/ Backfilling/ Bitumen works for HKBCF to Airport Tunnel West (Cut & Cover Tunnel)	Airport Road
E&M/ Backfilling/ Bitumen works for HKBCF to Airport Tunnel East (Cut & Cover Tunnel)	Portion X
Finishing works for Highway Operation and Maintenance Area Building	Portion X
Finishing works for Scenic Hill Tunnel West Portal Ventilation building	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)	NMS 5	At least once per week	Daytime on normal weekdays (0700-1900 hrs).
Water Quality	<ul style="list-style-type: none"> • Depth • Temperature • Salinity • Dissolved Oxygen (DO) • Suspended Solids (SS) • DO Saturation • Turbidity • pH 	<ul style="list-style-type: none"> • 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	Leq (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 than 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 ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
June 2018	AMS5	25	6 – 74	352	500
	AMS6	27	14 – 57	360	
July 2018	AMS5	9	4 – 18	352	
	AMS6	12	6 – 16	360	
August 2018	AMS5	16	5 – 61	352	
	AMS6	24	5 – 90	360	

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

Reporting Period	Monitoring Station	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
June 2018	AMS5	33	18 – 55	164	260
	AMS6	116	32 – 382	173	
July 2018	AMS5	28	19 – 40	164	
	AMS6	48	17 – 99	173	
August 2018	AMS5	24	17 – 38	164	
	AMS6	39	20 – 74	173	

- 3.2.2 No Action and Limit Level exceedances of 1-hr TSP were recorded at AMS5 and AMS6 during the reporting period. No Action and Limit Level exceedances of 24-hr TSP were recorded at AMS5. One Limit Level exceedance of 24-hr TSP was recorded at AMS6 during the reporting period.
- 3.2.3 Record of notification of environmental quality limit exceedances are provided in **Appendix M**.

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)
June 2018	NMS5	57	55 – 59	When one documented complaint is received	75
July 2018		60	59 – 61		
August 2018		57	54 – 59		

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

- 3.3.2 An Action Level exceedance was recorded as a complaint was received during reporting period. No Limit Level exceedances for noise were recorded 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 No Action and Limit Level exceedances of turbidity level and no Action Level exceedances of suspended solids level were recorded during reporting period. 13 Action Level exceedances and 5 Limit Level of dissolved oxygen level were recorded during the reporting period. 2 Action Level exceedances of suspended solids level were recorded during the reporting period. The exceedances of dissolved oxygen and suspended solids level recorded during reporting period were considered to be attributed to other external factors such as sea condition, rather than the contract works. The exceedances were considered as non-contract related. Record of “Notification of Environmental Quality Limit Exceedances” is provided in **Appendix M**.
- 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-km² grids among NWL and NEL survey areas on GIS. Sighting densities (number of on-effort sightings per km²) and dolphin densities (total number of dolphins from on-effort sightings per km²) 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 sightings per 100 units of survey effort. In addition, the derived unit for actual dolphin density was termed DPSE, representing the number of dolphins per 100 units of survey effort. Among the 1-km² 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-km² 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 June to August 2018, 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 771.98 km of survey effort was collected, with 96.8% of the total survey effort being conducted under favorable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility). Among the two areas, 287.18 km and 484.80 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 567.73 km, while the effort on secondary lines was 204.25 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 J**.
- 3.5.12 During the six sets of monitoring surveys conducted between June and August 2018, seven groups of 17 Chinese White Dolphins were sighted, with the summary table of the dolphin sightings shown in **Annex II of Appendix J**. Six of the seven dolphin sightings were made during on-effort search, while four of the six on-effort dolphin sightings were made on primary lines.
- 3.5.13 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 HKLR03 monitoring surveys conducted from June to August 2018 is shown in **Figure 1 of Appendix J**. All sightings were made at the northwestern and southwestern ends of the North Lantau region, especially near the mouth of Deep Bay and the HKLR09 alignment (**Figure 1 of Appendix J**). Only one sighting was made near Lung Kwu Chau, even though this area was frequented by dolphins throughout the construction monitoring period in the past several years (**Figure 1 of Appendix J**).
- 3.5.15 As consistently recorded in the previous monitoring quarters, the dolphins were completely absent from the central and eastern portions of North Lantau waters (**Figure 1 of Appendix J**). Moreover, all dolphin sightings were located far away from the HKLR03 and HKBCF reclamation sites as well as along the alignment of Tuen Mun-Chek Lap Kok Link (TMCLKL) (**Figure 1 of Appendix J**).
- 3.5.16 Sighting distribution of dolphins during the present impact phase monitoring period (June-August 2018) was drastically different from the one during the baseline monitoring period (**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 of Appendix J**). The nearly complete abandonment of NEL region by the dolphins has been consistently recorded in the past 21 quarters of HKLR03 monitoring, which has resulted in zero to extremely low dolphin encounter rates in this area.

- 3.5.17 In NWL survey area, dolphin occurrence was also significantly different between the baseline and impact phase periods. During the present impact monitoring period, dolphins were seldom sighted here, and mainly at the northwestern and southwestern ends of the area, which was in stark contrast to their frequent occurrences throughout the area during the baseline period (**Figure 1 of Appendix J**).
- 3.5.18 Another comparison in dolphin distribution was made between the six quarterly periods of summer months in 2013-18 (**Figure 2 of Appendix J**). Among the six summer periods, dolphins were regularly sighted in NWL waters in 2013 and 2014, but their usage there was dramatically reduced in the four subsequent summer periods, with their only occurrences mostly concentrated at the western end of the survey area (**Figure 2 of Appendix J**). Moreover, in the summer of 2018, dolphins were rarely sighted within the Sha Chau and Lung Kwu Chau Marine Park, which was very different from the previous five summer periods (**Figure 2 of Appendix J**).

Encounter Rate

- 3.5.19 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) (**Table 3.5**).
- 3.5.20 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 1.30 sightings and 3.48 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 (June – August 2018)

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 (5 & 13 Jun 2018)	0.00	0.00
	Set 2 (19 & 27 Jun 2018)	0.00	0.00
	Set 3 (3 & 8 Jul 2018)	0.00	0.00
	Set 4 (12 & 20 Jul 2018)	0.00	0.00
	Set 5 (1 & 8 Aug 2018)	0.00	0.00
	Set 6 (21 & 28 Aug 2018)	0.00	0.00
Northwest Lantau	Set 1 (5 & 13 Jun 2018)	0.00	0.00
	Set 2 (19 & 27 Jun 2018)	1.91	3.81
	Set 3 (3 & 8 Jul 2018)	0.00	0.00
	Set 4 (12 & 20 Jul 2018)	1.68	6.71
	Set 5 (1 & 8 Aug 2018)	3.36	6.72
	Set 6 (21 & 28 Aug 2018)	0.00	0.00

Table 3.5 Comparison of average dolphin encounter rates from impact monitoring period (June to August 2018) 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)	
	Reporting Period	Baseline Monitoring Period	Reporting Period	Baseline Monitoring Period
Northeast Lantau	0.0	6.00 ± 5.05	0.0	22.19 ± 26.81
Northwest Lantau	1.16 ± 1.39	9.85 ± 5.85	2.87 ± 3.32	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.

3.5.21 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 21 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*
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
March-May 2017 (Impact)	0.00	0.00
June-August 2017 (Impact)	0.00*	0.00*
September-November 2017 (Impact)	0.00	0.00
December 2017-February 2018 (Impact)	0.00	0.00
March-May 2018 (Impact)	0.00	0.00
June-August 2018 (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 summer months were in blue and marked with asterisk.

3.5.22 On the other hand, the average dolphin encounter rates (STG and ANI) in NWL during the present impact phase monitoring period (reductions of 88.2% and 93.5% respectively) were only tiny 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**).

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
March-May 2017 (Impact)	0.93 ± 1.03	5.25 ± 9.53
June-August 2017 (Impact)	2.20 ± 2.88*	6.58 ± 8.12*
September-November 2017 (Impact)	3.12 ± 1.91	10.35 ± 9.66
December 2017-February 2018 (Impact)	4.75 ± 2.26	15.73 ± 15.94
March-May 2018 (Impact)	2.88 ± 4.81	11.12 ± 22.46
June-August 2018 (Impact)	1.16 ± 1.39*	2.87 ± 3.32*

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 summer months were in blue and marked with asterisk.

- 3.5.23 Notably, the ER(STG) and ER(ANI) in the present quarter were the fourth and second lowest respectively among all quarters during the entire HKLR03 construction period. Moreover, when comparing the quarterly periods in summer months, the quarterly encounter rates in the summer of 2018 were the lowest among all summer periods during the HKLR03 construction phase. The dramatic drop in dolphin occurrence during this quarter should raise some concerns, and such temporal trend should be closely monitored in the upcoming monitoring quarters as the construction activities of HZMB works continue to diminish in coming months.
- 3.5.24 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).
- 3.5.25 For the comparison between the baseline period and the present quarter (23rd quarter of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.0022 and 0.0144 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.
- 3.5.26 For the comparison between the baseline period and the cumulative quarters in impact phase (i.e. the first 23 quarters of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.000000 and 0.000000 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).
- 3.5.27 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 when compared to the baseline period, and such low occurrence of dolphins has also been consistently documented in previous quarters of the past few years.
- 3.5.28 The significant decline in dolphin usage of North Lantau region 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 2018). Apparently there was very little sign of recovery of dolphin usage, even though almost all marine works associated with the HZMB construction have been completed.

Group Size

- 3.5.29 Group size of Chinese White Dolphins ranged from one to five individuals per group in North Lantau region during June to August 2018. 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 (Jun – Aug 2018) and Baseline Monitoring Period (Sep – Nov 2011)

Survey Area	Average Dolphin Group Size	
	Reporting Period	Baseline Monitoring Period
Overall	2.43 ± 1.62 (n = 7)	3.72 ± 3.13 (n = 66)
Northeast Lantau	---	3.18 ± 2.16 (n = 17)
Northwest Lantau	2.43 ± 1.62 (n = 7)	3.92 ± 3.40 (n = 49)

Note:

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

- 3.5.30 The average dolphin group size in NWL waters during June to August 2018 was lower than the one recorded during the three-month baseline period, but it should be noted that the sample size of seven dolphin groups in the present quarter was very small when compared to the 66 groups sighted during the baseline period (**Table 3.8**).
- 3.5.31 Notably, with the exception of a medium-sized group with five animals, the other six dolphin groups were small and composed of 1-4 individuals only (**Annex II of Appendix J**).
- 3.5.32 Distribution of the lone larger dolphin group with five individuals during the present quarter is shown in **Figure 3 of Appendix J**, with comparison to the one in baseline period. That medium-sized dolphin group sighted in the present quarter was located at the mouth of Deep Bay near Black Point (**Figure 3 of Appendix J**). Such distribution pattern was very different from the baseline period, when the larger dolphin groups were frequently sighted and evenly distributed in NWL waters (especially around the Sha Chau and Lung Kwu Chau Marine Park), and a few were also sighted in NEL waters (**Figure 3 of Appendix J**).

Habitat Use

- 3.5.33 From June to August 2018, only five grids that recorded dolphin occurrence, and the grids with moderately high dolphin densities were located at the mouth of Deep Bay and near the HKLR09 alignment (**Figures 4a and 4b of Appendix J**).
- 3.5.34 Notably, all grids near HKLR03/HKBCF reclamation sites as well as TMCLKL alignments 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 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 is 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 drastically different in NWL between the baseline and impact phase monitoring periods, with high dolphin usage recorded throughout the area during the baseline period, especially around Sha Chau, near Black Point, to the west of the airport, as well as between Pillar Point and airport platform. In contrast, only several grids with low to moderate dolphin densities were located at the northwestern and southwestern ends of NWL waters during the present impact phase period (**Figure 5 of Appendix J**).

Mother-calf Pairs

- 3.5.38 During the present quarterly period, no young calf was sighted at all among the seven groups of dolphins.

Activities and Associations with Fishing Boats

- 3.5.39 Only one of the seven dolphin groups was engaged in feeding activity, while no group was engaged in socializing, traveling or milling/resting activity during the three-month study period.
- 3.5.40 The percentage of sightings associated with feeding activity (14.3%) was comparable to the one recorded during the baseline period (11.6%). However, it should be noted the sample sizes on total numbers of dolphin sightings were very different between the two periods.
- 3.5.41 Distribution of dolphins engaged in various activities during the present three-month period and baseline period is shown in **Figure 6 of Appendix J**. The only dolphin group engaged in feeding

activity was sighted near the HKLR09 alignment at the southwestern corner of NWL waters (**Figure 6 of Appendix J**). When compared to the baseline period, distribution of various dolphin activities during the present impact phase monitoring period was very different with a much more restricted area of occurrence (**Figure 6 of Appendix J**).

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

Summary Photo-identification works

- 3.5.43 From June to August 2018, about 500 digital photographs of Chinese White Dolphins were taken during the impact phase monitoring surveys for the photo-identification work.
- 3.5.44 In total, 13 individuals sighted 16 times altogether were identified (see summary table in **Appendix III of Appendix J** and photographs of identified individuals in **Appendix IV of Appendix J**). All of these re-sightings were made in NWL. Only three individuals (CH34, NL12 and NL145) were re-sighted twice, while the rest were re-sighted once during the three-month period (**Annex III of Appendix J**).
- 3.5.45 Notably, three of these 13 individuals (i.e. CH34, NL202 and NL317) were also sighted in NWL waters during the HKBCF monitoring surveys under the same three-month period. Moreover, seven individuals (i.e. NL145, NL233, NL302, NL317, NL327, NL329 and WL188) were also sighted in WL waters during the HKLR09 monitoring surveys from June to August 2018, showing their extensive movements across different survey areas.

Individual range use

- 3.5.46 Ranging patterns of the 13 individuals identified during the three-month study period were determined by fixed kernel method, and are shown in **Annex V of Appendix J**.
- 3.5.47 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.
- 3.5.48 On the other hand, in contrary to previous monitoring quarters, none of the individuals that consistently utilized WL waters in the past have extended their range use to NWL waters during the present quarter.
- 3.5.49 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 (and vice versa), as such shift could possibly be related to the HZMB-related construction works .

Action Level / Limit Level Exceedance

- 3.5.50 There was one Limit Level exceedance of dolphin monitoring for the quarterly monitoring data (between June 2018 – August 2018). According to the contractor's information, the marine activities undertaken for HKLR03 during the quarter of June 2018 – August 2018 included seawall construction and box culvert construction.
- 3.5.51 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.

- 3.5.52 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.
- 3.5.53 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.
- 3.5.54 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).
- 3.5.55 For the comparison between the baseline period and the present quarter (23rd quarter of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.0022 and 0.0144 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.
- 3.5.56 For comparison between the baseline period and the cumulative quarters in impact phase (i.e. first 23 quarters of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.000000 and 0.000000 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).
- 3.5.57 The AFCD monitoring data during June to August 2018 has been reviewed by the dolphin specialist. During the same quarter, no dolphin was sighted from 88.04 km of survey effort on primary lines in NEL, while only two groups of two dolphins were sighted from 54.81 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 summer 2018 in NEL and NWL survey area is accurate.
- 3.5.58 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.

- 3.5.59 A meeting was held on 4 September 2018 with attendance of representative of ENPO, Resident Site Staff (RSS), Environmental Team (ET) and dolphin specialist for Contract Nos. HY/2013/01, HY/2011/03, HY/2012/07, HY/2012/08. The discussion/ recommendation as raised in the meeting which might be relevant to HKLR03 Contract are summarized below.
- 3.5.60 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.
- 3.5.61 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.
- 3.5.62 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.
- 3.5.63 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.
- 3.5.64 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.
- 3.5.65 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.
- 3.5.66 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.
- 3.5.67 It was reminded 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.
- 3.5.68 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.

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 15 June 2018. 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

Monitoring Station	Baseline Monitoring (September 2012)			Impact Monitoring (June 2018)		
	Easting (m)	Northing (m)	Surface Level (mPD)	Easting (m)	Northing (m)	Surface Level (mPD)
S1	810291.160	816678.727	0.950	810291.165	816678.761	1.143
S2	810958.272	815831.531	0.864	810958.270	815831.565	1.006
S3	810716.585	815953.308	1.341	810716.596	815953.309	1.459
S4	811221.433	816151.381	0.931	811221.379	816151.359	1.130

Table 3.10 Comparison of Measurement

Monitoring Station	Comparison of measurement			Remarks and Recommendation
	Easting (m)	Northing (m)	Surface Level (mPD)	
S1	0.005	0.034	0.193	Level continuously increased
S2	-0.002	0.034	0.142	Level continuously increased
S3	0.011	0.001	0.118	Level continuously increased
S4	-0.054	-0.022	0.199	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(N)) as in the EM&A Manual. The water quality monitoring location (SR3(N)) is shown in **Figure 2.1**.

3.6.4 Impact water quality monitoring in San Tau (monitoring station SR3) was conducted in June 2018. The monitoring parameters included dissolved oxygen (DO), turbidity and suspended solids (SS).

3.6.5 The Impact monitoring result for SR3(N) were extracted and summarised in **Table 3.11**:

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)
01-Jun-18	6.6	3.4	6.2	6.2	4.5	3.4
04-Jun-18	6.0	2.4	5.0	6.0	1.3	4.3
06-Jun-18	See Remark 1	See Remark 1	See Remark 1	See Remark 1	See Remark 1	See Remark 1
08-Jun-18	See Remark 2	See Remark 2	See Remark 2	See Remark 2	See Remark 2	See Remark 2

Date	Mid Ebb Tide			Mid Flood Tide		
	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
11-Jun-18	6.4	3.3	4.1	6.5	3.1	5.3
13-Jun-18	5.3	4.1	7.5	5.3	2.8	6.4
15-Jun-18	5.0	4.8	6.2	5.2	8.1	10.0
18-Jun-18	5.8	7.4	5.2	5.2	5.8	5.2
20-Jun-18	6.0	7.4	7.1	5.8	7.1	7.5
22-Jun-18	5.8	5.0	8.2	See Remark 3	See Remark 3	See Remark 3
25-Jun-18	5.8	4.4	5.5	5.6	9.3	14.6
27-Jun-18	5.8	6.6	6.1	5.9	7.5	6.9
29-Jun-18	7.4	8.0	13.2	5.5	6.4	6.2
Average	6.0	5.1	6.8	5.7	5.6	7.0

Remarks:

- 1) Due to adverse weather condition (hoisting Tropical Cyclone Warning Signal, No. 1, Thunderstorm Warning and Amber Rainstorm Warning Signal), water quality monitoring for ebb tide and flood tide at station SR3 on 6 June 2018 was cancelled due to safety reasons.
- 2) Due to adverse weather condition (hoisting of Strong Wind Signal, No. 3), water quality monitoring for both ebb and flood tides on 8 June 2018 were cancelled due to safety reasons.
- 3) Thunderstorm Warning and Amber Rainstorm Warning Signal were issued by Hong Kong Observatory in the afternoon of 22 June 2018. The water quality monitoring for flood tide on 22 June 2018 was cancelled due to safety reason.

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 (**Figure 2.2 of Appendix O**). Survey of horseshoe crabs, seagrass beds and intertidal communities were conducted in every sampling zone. The present survey was conducted in June 2018 (totally 5 sampling days between 2nd and 27th June 2018).
- 3.6.7 Since the field survey of Jun. 2016, increasing number of trashes and even big trashes (**Figure 2.3 of Appendix O**) were found in every sampling zone. It raised a concern about the solid waste dumping and current-driven waste issues in Tung Chung Wan. Respective measures (e.g. manual clean-up) should be implemented by responsible government agency units.

Horseshoe Crabs

- 3.6.8 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 2nd (for TC2), 16th (for TC1) and 27th (for TC3 and ST) June 2018. The weather was generally warm and humid on both field days without rainfall.
- 3.6.9 In Jun. 2017, a big horseshoe crab was tangled by a trash gill net in ST mudflat (**Figure 2.3 of Appendix O**). It was released to sea once after photo recording. The horseshoe crab of such size should be inhabiting sub-tidal environment while it forages on intertidal shore occasionally during high tide period. If it is tangled by the trash net for few days, it may die due

to starvation or overheat during low tide period. These trash gill nets are definitely 'fatal trap' for the horseshoe crabs and other marine life. Manual clean-up should be implemented as soon as possible by responsible government agency units.

Seagrass Beds

- 3.6.10 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 on 2nd (for TC2), 16th (for TC1) and 27th (for TC3 and ST) June 2018. The weather was generally hot and sunny on all survey days

Intertidal Soft Shore Communities

- 3.6.11 The intertidal soft shore community surveys were conducted in low tide period on 2nd (for TC2), 3rd (for TC3), 16th (for TC1) and 17th (for ST) June 2018. 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.
- 3.6.12 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 x 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.
- 3.6.13 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.
- 3.6.14 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), AFCD (2018).

Data Analysis

- 3.6.15 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,

$$H' = -\sum (N_i / N) \ln (N_i / N) \text{ (Shannon and Weaver, 1963)}$$

$$J = H' / \ln S, \text{ (Pielou, 1966)}$$

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

Mudflat Ecology Monitoring Results and Conclusion

Horseshoe Crabs

- 3.6.16 In the present survey, two species of horseshoe crab *Carcinoscorpius rotundicauda* (total 84 ind.) and *Tachypleus tridentatus* (total 39 ind.) were recorded. The recorded individuals were mainly distributed along the shoreline from TC3 to ST. Grouping of 2-10 individuals was usually observed on similar substratum (fine sand or soft mud, slightly submerged). Photo records were shown in **Figure 3.1 of Appendix O** while the complete survey records were listed in **Annex II of Appendix O**.

- 3.6.17 **Table 3.1 of Appendix O** summarizes the survey results of horseshoe crab in the present survey. For *Carcinoscorpius rotundicauda*, 14 individuals were found in TC1 with average body size 33.10 mm (prosomal width ranged 11.00-55.55 mm) while low search record (3.5 ind. hr⁻¹ person⁻¹) was resulted. In TC2, there were only 3 individuals with average body size 60.99 mm (47.04-74.44 mm), resulting in very low search record (0.8 ind. hr⁻¹ person⁻¹). In TC3, there was 27 individuals with average body size 40.54 mm (14.95-67.33 mm). In ST, 40 individuals were found with average body size 41.43 mm (15.09-70.68 mm). Both TC3 and ST were low-moderate in search record (4.5-6.7 ind. hr⁻¹ person⁻¹).
- 3.6.18 Similar survey results were found for *Tachypleus tridentatus*. Two individuals were found in TC1 with average body size 48.20 mm (prosomal width ranged 47.29-49.11 mm), resulting in very low search record (0.5 ind. hr⁻¹ person⁻¹). In TC3, there were 18 individuals with average body size 60.24 mm (prosomal width ranged 36.52-82.99 mm). In ST, 19 individuals were found with average body size 57.55 mm (36.04-78.41 mm). Both TC3 and ST were low in search record (3.0-3.2 ind. hr⁻¹ person⁻¹). No individual was found in TC2.
- 3.6.19 In the previous survey of Mar. 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. In Jun. 2017, mating pairs of *Carcinoscorpius rotundicauda* were also found in TC2 (male 175.27 mm, female 143.51 mm) and TC3 (male 182.08 mm, female 145.63 mm) (**Figure 3.2 of Appendix O**). In Dec. 2017 and Jun. 2018 (present survey), one mating pair was of *Carcinoscorpius rotundicauda* was found in TC3 (Dec. 2017: male 127.80 mm, female 144.61 mm; Jun. 2018: male 139 mm, female 149 mm). **Figure 3.2 of Appendix O** shows the photographic records of all mating pairs found. The recorded mating pairs were found nearly burrowing in soft mud at low tidal level (0.5-1.0 m above C.D.). The smaller male was holding the opisthosoma (abdomen carapace) of larger female from behind. These mating pairs indicated that breeding of horseshoe crab could be possible along the coast of Tung Chung Wan rather than ST only, as long as suitable substratum was available. Based on the frequency of encounter, the shoreline between TC3 and ST should be more suitable mating ground. Moreover suitable breeding period was believed in wet season (Mar - Sep.) because tiny individuals (i.e. newly hatched) were usually recorded in Jun. and Sep. every year.
- 3.6.20 Despite of mating pair, there were occasional records of large individuals of *Carcinoscorpius rotundicauda* (prosomal width ranged 114.45 - 178.67 mm, either single or in pair) and *Tachypleus tridentatus* (prosomal width 103 mm) (**Figure 3.3 of Appendix O**). Based on their sizes, it indicated that individuals of prosomal width larger than 100 mm would progress its nursery stage from intertidal habitat to sub-tidal habitat of Tung Chung Wan. These large individuals might move onto intertidal shore occasionally during high tide for foraging and breeding. Because they should be inhabiting sub-tidal habitat most of the time. Their records were excluded from the data analysis to avoid mixing up with juvenile population living on intertidal habitat.
- 3.6.21 No marked individual of horseshoe crab was recorded in the present survey. Some marked individuals were found in the previous surveys of Sep. 2013, Mar. 2014 and Sep. 2014. All of them were released through a conservation programme in charged 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 crab 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 Sep. 2014.
- 3.6.22 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

- 3.6.23 **Figures 3.4 and 3.5 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.
- 3.6.24 For TC3 and ST, medium to high search records (i.e. number of individuals) of both species were always found in wet season (Jun. and Sep.). 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. From Mar. to Jun. 2017, the search records of both species were similar again between two sampling zones. It showed a natural variation of horseshoe crab population in these two zones due to weather condition and tidal effect. No obvious difference of horseshoe crab population was noted between TC3 and ST. In Sep. 2017, the search records of both horseshoe crab species decreased except the *Carcinoscorpius rotundicauda* in TC3. The survey results were different from previous findings that there were usually higher search records in Sep.. One possible reason was that the serial cyclone hit decreased horseshoe crab activity (totally 4 cyclone records between Jun. and Sep. 2017, to be discussed in 'Seagrass survey' section). From Dec. 2017 to Jun. 2018 (present survey), the search records of both species increased again to low-moderate level in TC3 and ST.
- 3.6.25 For TC1, the search record was at low to moderate 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.-Sep. 2014, Mar.-Jun. 2015; 4 ind. in Sep. 2015; 6 ind. in Jun. 2016; 1 ind. in Sep. 2016, 1 ind. from Mar.-Sep. 2017; 3 ind. in Jun. 2018) .
- 3.6.26 About the body size, larger individuals of *Carcinoscorpius rotundicauda* were usually found in ST and TC1 relative to those in TC3 from Sep. 2012 to Jun. 2017. But the body size was higher in TC3 and ST followed by TC1 from Sep. 2017 to Jun. 2018. For *Tachypleus tridentatus*, larger individuals were usually found in ST and TC3 followed by TC1 throughout the monitoring period.
- 3.6.27 In general, 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. Although a mating pair of *Carcinoscorpius rotundicauda* was once found in TC2, the hatching rate and survival rate of newly hatched individuals were believed very low.

Seasonal variation of horseshoe crab population

- 3.6.28 Throughout the monitoring period, the search record of horseshoe crab declined obviously during dry season especially December (**Figures 3.3 and 3.4 of Appendix O**). 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 °C). 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 search records were much higher in 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 with the colder climate. In Dec. 2017, the weather was cold (13-15 °C during dawn) that very few individuals of both species could be found as mentioned above.

- 3.6.29 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 Chung 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).
- 3.6.30 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 Mar. 2017. 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 Mar. 2017. Most of the individuals might have reached a suitable size (e.g. prosomal width 50-60 mm) strong enough to forage in sub-tidal habitat. In Jun. 2017, the number of individuals increased sharply again in TC3 and ST. Although mating pair of *Tachypleus tridentatus* was not found in previous surveys, there should be new round of spawning in the wet season of 2016. The individuals might have grown to a more conspicuous size in 2017 accounting for higher search record. From Sep. 2017 to Jun. 2018 (present survey), moderate numbers of individual were found in TC3 and ST indicating a stable population size. Lower population size compared with that in Jun. 2017 was believed the cause of natural mortality.
- 3.6.31 Recently, *Carcinoscorpius rotundicauda* was a more common horseshoe crab species in Tung Chung Wan. It was recorded in the four sampling zones while the majority of population located in TC3 and ST. Due to potential breeding last year, *Tachypleus tridentatus* became common again and distributed in TC3 and ST only. Since TC3 and ST were regarded as important nursery ground for both horseshoe crab species, 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

- 3.6.32 **Figure 3.6 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 (top of red box) and lower quartile (bottom of blue box)) ranged 40-60 mm while only few individuals were found. From

Mar. 2014 to Jun. 2018, the median prosomal width (middle line of whole box) and major size (whole box) decreased after Mar. of every year. It was due to more small individuals found. It indicated new rounds of spawning. Also there were slight increasing trends of body size from Jun. to Mar. of next year since 2015. It indicated a stable growth of individuals. Focused on larger juveniles (upper whisker), the size range was quite variable (prosomal width 60-90 mm) along the sampling months. Juveniles reaching this size might gradually migrate to sub-tidal habitats.

- 3.6.33 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. From Dec. 2016 to Jun. 2017, similar increasing trend of major size was noted with much higher number of individuals. It reflected new round of spawning. In Sep. 2017, the major size decreased while the trend was different from previous two years. Such decline might be the cause of serial cyclone hit between Jun. and Sep. 2017 (to be discussed in the 'Seagrass survey' section). From Dec. 2017 to Jun. 2018 (present survey), increasing trend was noted again. Across the whole monitoring period, the larger juveniles (upper whisker) usually reached 60-80 mm in prosomal width, even 90 mm occasionally. Juveniles reaching this size might gradually migrate to sub-tidal habitats.

Box plot of horseshoe crab populations in ST

- 3.6.34 **Figure 3.7 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. 2017, the size of major population decreased and more small individuals (i.e. lower whisker) were recorded after Jun. of every year. It indicated new round of spawning. Also there were similar increasing trends of body size from Sep. to Jun. of next year between 2014 and 2017. It indicated a stable growth of individuals. Across the whole monitoring period, the larger juveniles (i.e. upper whisker) usually ranged 60-80 mm in prosomal width except one individual (prosomal width 107.04 mm) found in Mar. 2017. It reflected juveniles reaching this size would gradually migrate to sub-tidal habitats.
- 3.6.35 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 60-70 mm. As mentioned, the large juveniles 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 juveniles 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. In 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, 40-70 mm in Mar. 2017 and 50-60mm in Jun. 2017. Based on overall higher number of small individuals from Jun. 2016 to Sep. 2017, it indicated new round of spawning. From Sep. 2017 to Jun. 2018 (present survey), the major size range increased slightly from 40-50 mm to 45-60 mm indicating a continuous growth. Throughout the monitoring period, the larger juveniles ranged 60-80 mm in prosomal width. Juveniles reaching this size would gradually migrate to sub-tidal habitats.
- 3.6.36 As a summary for horseshoe crab populations in TC3 and ST, there were spawning of *Carcinoscorpius rotundicauda* from 2014 to 2018 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 both zones 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. From 2016 to 2018, new round of spawning was recorded in ST while increasing number of individuals and body size was noticed.

Impact of the HKLR project

- 3.6.37 It was the 23rd 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 new rounds of spawning 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

- 3.6.38 Since the commencement of the EM&A monitoring programme, two species of seagrass *Halophila ovalis* and *Zostera japonica* were recorded in TC3 and ST (**Figure 3.8 of Appendix O**). In general, *Halophila ovalis* was occasionally found in TC3 in few, small to medium patches. But it was commonly found in ST in medium to large seagrass bed. Moreover, it had grown extensively and covered significant mudflat area at 0.5-2.0 m above C.D. between TC3 and ST. Another seagrass species *Zostera japonica* was found in ST only. It was relatively lower in vegetation area and was co-existing with *Halophila ovalis* nearby the mangrove strand at 2.0 m above C.D.
- 3.6.39 **Table 3.2 of Appendix O** summarizes the results of seagrass beds survey. In TC3, one very small patch of *Halophila ovalis* was found in soft mud area at 2.0 m above C.D. while the total seagrass bed area and vegetation coverage were about 0.3 m² and ~20% respectively. In ST, three small-medium sized patches of *Halophila ovalis* were found while the total seagrass bed area was about 1072.0 m². The largest patch was a horizontal strand with area ~990 m² and highly variable vegetation coverage 20-100%, located nearby seaward side of mangrove plantation at 2.0 m above C.D. At vicinity, there was a medium, horizontal strand (~80 m², coverage 20-100%) and a very small patch (~2 m², coverage 40%) at 2.0 m above C.D. Another seagrass species *Zostera japonica* was not found in present survey. **Annex III of Appendix O** shows the complete record of seagrass survey.
- 3.6.40 According to the previous results, majority of seagrass bed was confined in ST, the temporal change of both seagrass species was investigated in details:

Temporal variation of seagrass beds

- 3.6.41 **Figure 3.10 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 m²) 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 m²). However, the patch size decreased and remained similar from Sep. 2013 (4 m²) to Mar. 2014 (3 m²). In Jun. 2014, the patch size increased obviously again (41 m²) with warmer climate followed by a decrease between Sep. 2014 (2 m²) and Dec. 2014 (5 m²). From Mar. to Jun. 2015, the patch size increased sharply again (90 m²). 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 m² to 115 m²) and variable coverage. In Sep. 2016, the patch size decreased again to (38 m²) followed by an increase to a horizontal strand (105.4 m²) in Jun. 2017. And it was no longer co-existing with *Halophila ovalis*. Between Sep. 2014 and Jun. 2017, an increasing trend was noticed from Sep. to Jun. of next year followed by a rapid decline in Sep. of next year. It was possibly the causes of heat stress, typhoon and

stronger grazing pressure during wet season. From Sep. 2017 to Jun. 2018 (present survey), no seagrass patch of *Zostera japonica* was found .

3.6.42 For *Halophila ovalis*, it was recorded as 3-4 medium to large patches (area 18.9-251.7 m²; 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 m² in Sep. 2012 to 727.4 m² 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 m² 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 m². 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 m²) of seagrass beds characterized of patchy distribution, variable vegetable coverage (40-80%) and smaller leaves. The total seagrass bed area increased sharply to 7629 m². In Sep. 2014, the total seagrass area declined sharply to 1111 m². There were only 3-4 small to large patches (6-253 m²) at high tidal level and 1 large patch at low tidal level (786 m²). 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 3.10 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 Sep. 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 programme were 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, abnormality 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 led 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 3.10 of Appendix O** shows the recolonization of seagrass bed area in ST from Dec. 2014 to Jun. 2017. 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 m² to 230.63 m². It had recolonized its original patch locations and covered *Zostera japonica*. In Jun. 2016, the total seagrass area increased sharply to 4707.3 m². 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 m²). It indicated the second extensive colonization of this *r*-strategy seagrass. In Dec. 2016, this extensive seagrass patch decreased in size and had separated into few, undistinguishable patches. Moreover, the horizontal strand nearby the mangrove vegetation decreased in size (**Figure 3.10 of Appendix O**). The total seagrass bed decreased to 12550 m². From Mar. to Jun. 2017, the seagrass bed area remained generally stable (12438-17046.5 m²) but the vegetation coverage fluctuated (20-50% in Mar. 2017 to 80-100% in Jun. 2017).

Re-disappearance of seagrass bed

- 3.6.49 In Sep 2017, the whole seagrass bed of *Halophila ovalis* disappeared again along the shore of TC3 and ST (**Figure 3.11 of Appendix O**). It was similar to the case between Sep. and Dec.

2014. As mentioned, strong water current (e.g. cyclone) or deteriorated water quality (e.g. high turbidity) were the possible causes.

- 3.6.50 Between the survey periods of Jun. and Sep. 2017, there were four tropical cyclone records in Hong Kong (Merbok in 12-13th, Jun.; Roke in 23rd, Jul.; Hato in 22-23rd, Aug.; Pakhar in 26-27th, Aug.) (online database of Hong Kong Observatory). All of them reaches signal 8 or above especially Hato (highest signal 10).
- 3.6.51 According to the water quality monitoring results (Jul. to Aug. 2017) of the two closest monitoring stations SR3 and I5 of the respective EM&A programme, the overall water quality was in normal fluctuation. There was one exceedance of suspended solids (SS) at SR3 on 12 Jul. 2017. The SS concentration reached 24.7 mg/L during mid-ebb tide. It exceeded the Action Level (≤ 23.5 mg/L) but was far below the Limit Level (≤ 34.4 mg/L). Since such exceedance was slight and temporary, its effect to seagrass bed should be minimal.
- 3.6.52 Overall, the disappearance of seagrass beds in ST was believed the cause of serial cyclone hit in Jul and Aug. 2017. Based on previous findings, the seagrass beds of both species were expected to recolonize the mudflat as long as the vicinal water quality was normal. The whole recolonization process (from few, small patches to extensive strand) would be gradual lasting 1.5 to 2 years. From Dec. 2017 to Mar. 2018, there was still no recolonization of few, small patches of seagrass at the usual location. It was different from previous re-colonization (Mar. 2015 - Jun. 2017) Until Jun. 2018 (present survey), new, small seagrass patches were found at the usual location (seaward side of mangrove plantation at 2.0 m C.D.) again (**Figure 3.11 of Appendix O**). It showed the recolonization of seagrass bed while it was expected to grow to an extensive seagrass bed in 1.5-2 years.

Impact of the HKLR project

- 3.6.53 It was the 23rd survey of the EM&A programme during the construction period. Throughout the monitoring period, the disappearance of seagrass beds was believed the cause of cyclone hits rather than impact of HKLR project. In present survey, new seagrass beds were found showing gradual recolonization of seagrass.

Intertidal Soft Shore Communities

- 3.6.54 **Table 3.3 and Figure 3.12 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, high percentages of 'Gravels and Boulders' (80-100%) were recorded at all tidal levels. Low distribution of 'Sands' (20%) was recorded at high and low tidal levels .
 - In TC2, high percentage of 'Sands' (70%) was recorded at high tidal level followed by 'Gravels and Boulders' (20%). At mid tidal level, there was even distribution of 'Sands' (50%) and 'Soft mud' (40%). At low tidal level, the major substratum type was 'Soft mud' (70%) followed by 'Sands' (30%).
 - In TC3, high percentages of 'Sands' (70-100%) were recorded at high and mid tidal levels. Low percentage of 'Soft mud' (30%) was recorded at high tidal level. At low tidal level, the major substratum type was 'Gravels and Boulders' (80%) .
 - In ST, 'Gravels and Boulders' was the main substratum (100%) at high tidal level. At mid tidal level, there was high percentage of 'Gravels and Boulders' (80%) followed by 'Sands' (20%). At low tidal level, the main substratum was 'Sands' (100%) .
- 3.6.55 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.

3.6.56 **Table 3.4 of Appendix O** lists the total abundance, density and number of taxon of every phylum in this survey. A total of 15814 individuals were recorded. Mollusca was clearly the most abundant phylum (total abundance 15275 ind., density 509 ind. m⁻², relative abundance 96.6 %). The second and third abundant phyla were Arthropoda (388 ind., 13 ind. m⁻², 2.5 %) and Annelida (78 ind., 3 ind. m⁻², 0.5 %) 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 (37 taxa) followed by Arthropoda (14 taxa) and Annelida (8 taxa). There was 1 taxon recorded only for other phyla.

3.6.57 The taxonomic resolution and complete list of recorded fauna are shown in **Annexes IV and V of Appendix O** respectively. According to the latest identification key of potamidid snails in Hong Kong mangroves published by Agriculture, Fisheries and Conservation Department (details see AFCD, 2018), the names of following gastropod species were revised:

- *Cerithidea cingulata* was revised as *Pirenella asiatica*
- *Cerithidea djarjariensis* was revised as *Pirenella incisa*
- *Cerithidea rhizophorarum* was revised as *Cerithidea moerchii*

3.6.58 **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 (2913-5756 ind.) varied among the four sampling zones while the phyla distributions were similar. In general, Mollusca was the most dominant phylum (no. of individuals: 2838-5613 ind; relative abundance 92.6-98.0%; density 378-748 ind. m⁻²). Other phyla were much lower in number of individuals. Arthropoda (48-197 ind.; 1.5-6.0 %; 6-26 ind. m⁻²) was the second abundant phylum. Annelida (30-32 ind.; 0.5-1.0 %; 4 ind. m⁻²) was the third abundant phylum in TC2 and TC3. Sipuncula was common but in low abundance in TC1, TC2 and TC3 (7-13 ind.; 0.2-0.3 %; 1-2 ind. m⁻²). Similarly, Cnidaria (sea anemone) was common in ST (11 ind.; 0.4%; 1 ind. m⁻²). Relatively other phyla were very low in abundance in all sampling zones.

Dominant species in every sampling zone

3.6.59 **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 (50-250 ind. m⁻²). Few listed species of high or very high density (> 250 ind. m⁻²) were regarded as dominant species. Other listed species of lower density (< 50 ind. m⁻²) were regarded as common species.

3.6.60 In TC1, the substratum was mainly 'Gravels and Boulders' at all tidal levels. It was dominated by gastropod *Batillaria multiformis* (264 ind. m⁻², relative abundance 55 %) at high density followed by gastropod *Pirenella incisa* (115 ind. m⁻², 24 %) at low-moderate density. At mid tidal level, there were few gastropods *Batillaria multiformis* (180 ind. m⁻², 33 %), *Monodonta labio* (106 ind. m⁻², 19 %), *Pirenella incisa* (70 ind. m⁻², 13 %) at low-moderate densities. And the rock oyster *Saccostrea cucullata* (119 ind. m⁻², 22 %, attached on boulders) was also abundant. At low tidal level, rock oyster *Saccostrea cucullata* (158 ind. m⁻², 30 %) was abundant with other abundant gastropods *Monodonta labio* (111 ind. m⁻², 21 %) and *Pirenella incisa* (57 ind. m⁻², 11 %).

3.6.61 In TC2, the substratum was mainly 'Sands' at high tidal level. Gastropod *Pirenella incisa* was clearly dominant at high density (301 ind. m⁻², 54 %). At mid tidal level (main substratum types 'Sands' and 'Soft mud'), gastropods *Pirenella incisa* (124 ind. m⁻², 25 %), *Batillaria zonalis* (89 ind. m⁻², 18 %) and rock oyster *Saccostrea cucullata* (122 ind. m⁻², 24 %, attached on boulders) were abundant at low-moderate densities. At low tidal level (main substratum type 'Soft mud'), rock oyster *Saccostrea cucullata* was abundant at low-moderate density (72 ind. m⁻², 29 %).

followed by common gastropods *Pirenella incisa* (41 ind. m⁻², 16 %), *Batillaria zonalis* (41 ind. m⁻², 16 %) and barnacle *Balanus amphitrite* (31 ind. m⁻², 12 %, attached on boulders).

- 3.6.62 In TC3, the major substratum types were mainly 'Sands' at high and mid tidal levels. Gastropod *Pirenella incisa* (369-383 ind. m⁻², 42-56 %) was dominant followed by other abundant gastropods *Batillaria multiformis* (136-158 ind. m⁻², 18-20 %) and *Pirenella asiatica* (120-223 ind. m⁻², 18-26 %). At low tidal level (major substratum: 'Gravels and Boulders'), rock oyster *Saccostrea cucullata* (301 ind. m⁻², 40 %, attached on boulders) was dominant at high density followed by gastropod *Monodonta labio* (180 ind. m⁻², 24 %) .
- 3.6.63 In ST, the major substratum types were mainly 'Gravels and Boulders' at high and mid tidal levels. At high tidal level, gastropods *Monodonta labio* (163 ind. m⁻², 31 %), *Batillaria multiformis* (102 ind. m⁻², 20 %), rock oyster *Saccostrea cucullata* (73 ind. m⁻², 14 %, attached on boulders) and limpet *Cellana toreuma* (62 ind. m⁻², 12 %) were abundant at low-moderate densities. At mid tidal level, rock oyster *Saccostrea cucullata* (174 ind. m⁻², 33%) and *Monodonta labio* (88 ind. m⁻², 17 %) were abundant at low-moderate densities followed by common gastropod *Pirenella incisa* (50 ind. m⁻², 10 %). At low tidal level (major substratum type: 'Sands'), there were three common species including gastropods *Pirenella incisa* (31 ind. m⁻², 25 %), *Batillaria zonalis* (16 ind. m⁻², 13 %) and rock oyster *Saccostrea cucullata* (26 ind. m⁻², 21%) .
- 3.6.64 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 *Pirenella incisa* (total number of individuals: 3953 ind., relative abundance 25.0 %), *Batillaria multiformis* (2516 ind., 15.9 %), *Pirenella asiatica* (1333 ind., 8.4 %) and *Batillaria zonalis* (670 ind., 4.2 %) were the most commonly occurring species on sandy and soft mud substrata. Rock oyster *Saccostrea cucullata* (2830 ind., 17.9 %), gastropod *Monodonta labio* (1888 ind., 11.9 %) and limpet *Cellana toreuma* (391 ind., 2.5 %) were the commonly occurring species inhabiting gravel and boulders substratum.

Biodiversity and abundance of soft shore communities

- 3.6.65 **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. As mentioned above, the differences among sampling zones and tidal levels were determined by the major type of substratum primarily .
- 3.6.66 Among the sampling zones, there was no obvious difference of mean species number regardless of tidal levels. The mean species numbers ranged 10-11 spp. 0.25 m⁻² among all sampling zones. The mean density of TC3 (767 ind. m⁻²) were higher than TC1 (517 ind. m⁻²) followed by TC2 and ST (388-436 ind. m⁻²). The higher mean density of TC3 was mainly accounted by one dominant gastropod at high and mid tidal levels. Such dominance resulted in lower H' (1.3) in TC3 compared to other sampling zones (1.5-1.6). The J was similar (0.6-0.7) among all sampling zones.
- 3.6.67 Across the tidal levels, there were slightly increasing trends of mean species number and density from high to low tidal level in TC1 and TC3 but vice versa in TC2 and ST. For the mean H' , there were generally increasing trends from high to low tidal level in TC1, TC2 and TC3. But there was no consistent difference of J observed across the tidal levels. In general, the spatial differences of these biological parameters were highly related to substratum types.
- 3.6.68 **Figures 3.13 to 3.16 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.
- 3.6.69 From Jun. to Dec. 2017, there were steady decreasing trends of mean species number and density in TC2, TC3 and ST regardless of tidal levels. It might be an unfavourable change reflecting environmental stresses. The heat stress and serial cyclone hit were believed the

causes during the wet season of 2017. From Mar. to Jun. 2018 (present survey), increases of mean species number and density were observed in all sampling zones. It indicated the recovery of intertidal community.

Impact of the HKLR project

- 3.6.70 It was the 23rd 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 of other abnormal phenomena (e.g. rapid or consistent decline of fauna densities and species number) are 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 and Limit Level exceedances of 1-hr TSP were recorded at AMS5 and AMS6 during the reporting period. No Action and Limit Level exceedances of 24-hr TSP were recorded at AMS5. One Limit Level exceedance of 24-hr TSP was recorded at AMS6 during the reporting period.

Noise

- 4.1.3 An Action Level exceedance was recorded as a complaint was received during reporting period. No Limit Level exceedances for noise were recorded during daytime on normal weekdays of the reporting period.

Water Quality

- 4.1.4 No Action and Limit Level exceedances of turbidity level and no Action Level exceedances of suspended solids level were recorded during reporting period. 13 Action Level exceedances and 5 Limit Level of dissolved oxygen level were recorded during the reporting period. 2 Action Level exceedances of suspended solids level were recorded during the reporting period.

Dolphin

- 4.1.5 There was one Limit Level exceedances of dolphin monitoring for the quarterly monitoring data (between June 2018 – August 2018). According to the contractor's information, the marine activities undertaken for HKLR03 during the quarter of June 2018 – August 2018 included seawall construction and box culvert construction.
- 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.

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

4.2.1 During the reporting period, a complaint (Complaint No. COM-2018-142) in relation to the environmental impacts (Noise impact) was received on 29 June 2018. A further complaint related to same issue was received on 6 July 2018. A summary of environmental complaint for June 2018 and July 2018 is presented in **Table 4.1**.

Table 4.1 A Summary of Environmental Complaint for the Reporting Period

Environmental Complaint No.	Date of Complaint Received	Description of Environmental Complaint
Complaint No COM-2018-142	EPD (ENPO referred the email to SOR, Contractor and ET on 29 June 2018 and 6 July 2018)	Noise

- 4.2.2 According to the Contractor's information, while the Contractor commenced the excavation for the landscaping works at areas along the original coastline and outside Cathay Dragon House /Dragonair & CNAC (Group) Building, they encountered a zone of extremely hard bedrock layer. The Contractor had to undertake the breaking of such bedrock layer.
- 4.2.3 After receiving the complaint, the Contractor has implemented the following mitigation measures immediately:
- A hydraulic breaker with smaller capacity had been used in order to reduce noise generated from the rock breaking operation.
 - The breaking tip of hydraulic breaker used for rock breaking operation had been wrapped by muffler.
 - The rock breaking works outside the Cathay Dragon House/ Dragonair & CNAC (Group) Building had moved immediately further away to the north-eastern corner of the Building.
- 4.2.4 As confirmed by Contractor, breaking of any hard substances including rock/stone, concrete etc. will not be carried out after 9 July 2018 at work area outside the Cathay Dragon House/ Dragonair & CNAC (Group) Building). ET conducted a site inspection on 10 July 2018 (around 13:15 hours), rock breaking works were not observed next to Cathay Dragon House/ Dragonair & CNAC (Group) Building.
- 4.2.5 Based on our investigation result, the complaint was related to Contract No. HY/2011/03. The Contractor has implemented Environmental Mitigation Implementation Schedule as per the EM&A Manual, such as cover the breaker tip with muffler; minimize the quantities of noisy plant as far as practicable. Although the rock breaking works outside the Cathay Dragon House/ Dragonair & CNAC (Group) Building were completed on 9 July 2018, the Contractor has been continuously reminded to properly implement Environmental Mitigation Measures as per the EM&A Manual to minimize the potential noise nuisance caused to the public/ surrounding.
- 4.2.6 The details of cumulative statistics of Environmental Complaints are provided in **Appendix N**.
- 4.2.7 No notification of summons and prosecution was received during the reporting period. 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 provide drip tray for the chemical containers at S9 and N4 and N13A.
- The Contractor was reminded provide a lid for the water-filled barrier at N13A.
- The Contractor was reminded to spray water for breaking activities at S7.
- The Contractor was reminded to spray water during excavation to avoid dust emission at S15.
- The Contractor was reminded to clear the stagnant water within the drip tray at S9.
- The Contractor was reminded to clear the stagnant water inside the steel beam at S9.
- The Contractor was reminded to clear the stagnant water inside the container at N1.
- The Contractor was reminded to clear the sand /mud inside the u-channel at N1.
- The Contractor was reminded to remove sand and mud near site entrance/exit from N1.
- The Contractor was reminded to remove the waste fuel filling station of S9.
- The Contractor was reminded to remove the waste at N1, HMA and S9, S15 and N4a and PR10.
- The Contractor was reminded to remove the stagnant water inside the drip tray at S15.
- The Contractor was reminded to remove stagnant water in the hole of water-filled barrier at N4a.
- The Contractor was reminded to remove the stagnant water at PR10 and N13A.
- The Contractor was reminded to remove the waste on the ground at N4.
- The Contractor was reminded to remove the general refuse on the ground at S15.
- The Contractor was reminded to remove the general refuse on the ground from HMA.
- The Contractor was reminded to remove construction waste on the ground at PR10.
- The Contractor was reminded to remove the construction waste on the ground from S15.
- The Contractor was reminded to remove the waste from S7, S23 and N4.
- The Contractor was reminded to remove the unused gas containers from S15.
- The Contractor was reminded to remove the concrete deposit at N13A.
- The Contractor was reminded to dispose of the unused chemical drum as chemical waste at S15.
- The Contractor was reminded to maintain the silt curtains properly at Portion X.

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 twenty-fourth Quarterly EM&A Report which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 June 2018 to 31 August 2018.

Air Quality

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

Noise

- 5.3.3 An Action Level exceedance was recorded as a complaint was received during reporting period. No Limit Level exceedances for noise were recorded during daytime on normal weekdays of the reporting period.

Water Quality

- 5.3.4 No Action and Limit Level exceedances of turbidity level and no Action Level exceedances of suspended solids level were recorded during reporting period. 13 Action Level exceedances and 5 Limit Level of dissolved oxygen level were recorded during the reporting period. 2 Action Level exceedances of suspended solids level were recorded during the reporting period.

Dolphin

- 5.3.5 There was one Limit Level exceedance of dolphin monitoring for the quarterly monitoring data between June 2018 – August 2018.
- 5.3.6 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.
- 5.3.7 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.
- 5.3.8 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

- 5.3.9 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

- 5.3.10 The June 2018 survey results indicate that the impacts of the HKLR project could not be detected on horseshoe crabs and intertidal soft shore community. Throughout the monitoring period, the disappearance of seagrass beds was believed the cause of cyclone hits rather than impact of HKLR project. In June's survey, new seagrass beds were found showing gradual recolonization of seagrass.

Environmental Site Inspection and Audit


- 5.3.11 Environmental site inspection was carried out on 6, 13, 20 and 29 June 2018; 4, 11, 18 and 27 July 2018; and 1, 8, 15, 22 and 31 August 2018 . Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 5.3.12 A complaint (Complaint No. COM-2018-142) in relation to the environmental impacts (Noise impact) was received on 29 June 2018. A further complaint related to same issue was received on 6 July 2018. Based on our investigation result, the complaint was related to Contract No. HY/2011/03.
- 5.3.13 No notification of summons and prosecution was received during the reporting period.



FIGURES



LEGEND

 Site Boundary of Contract HY/2011/03

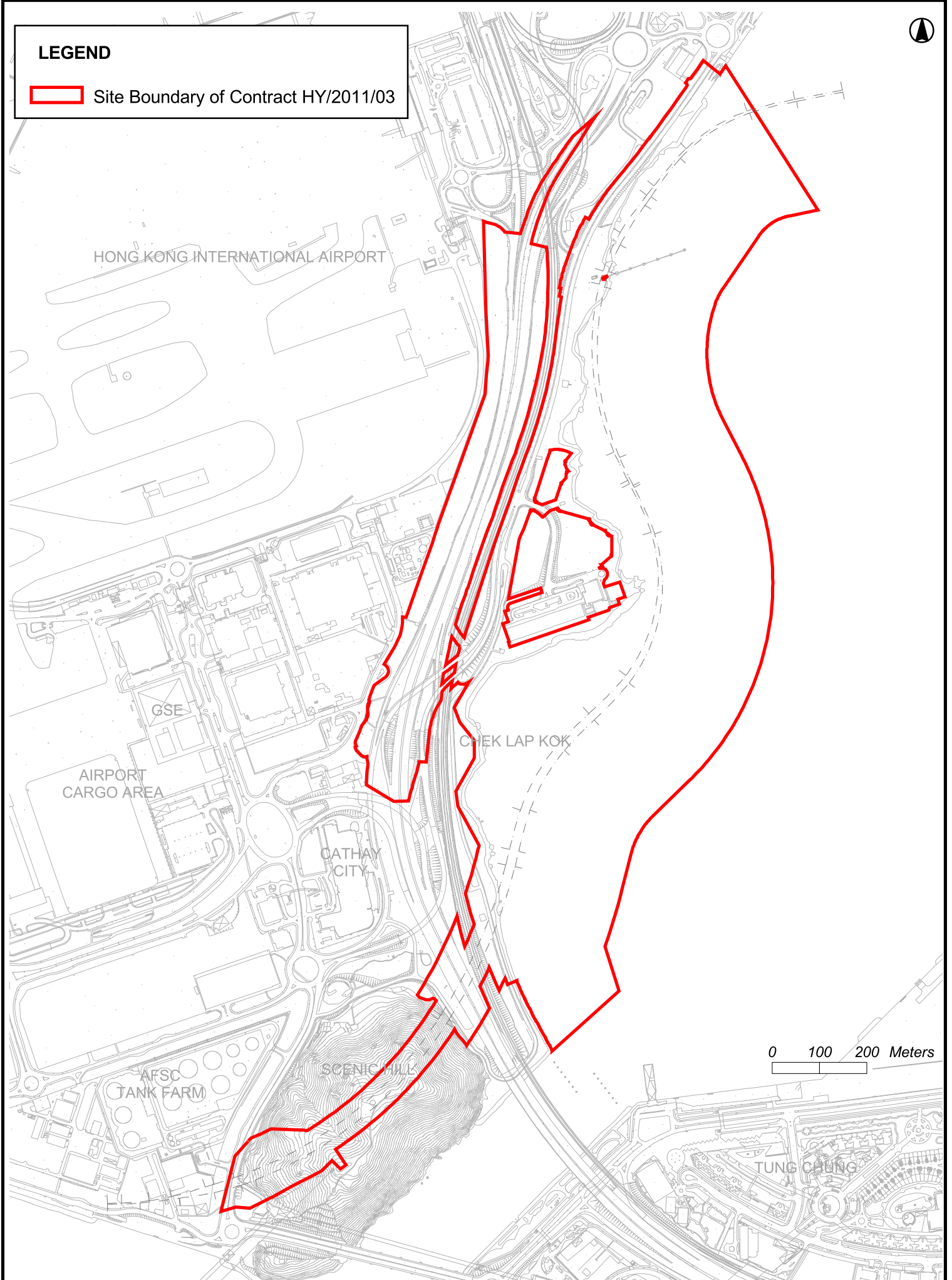
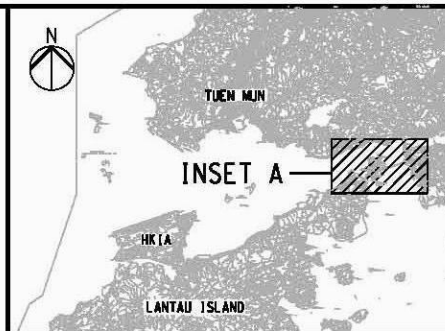
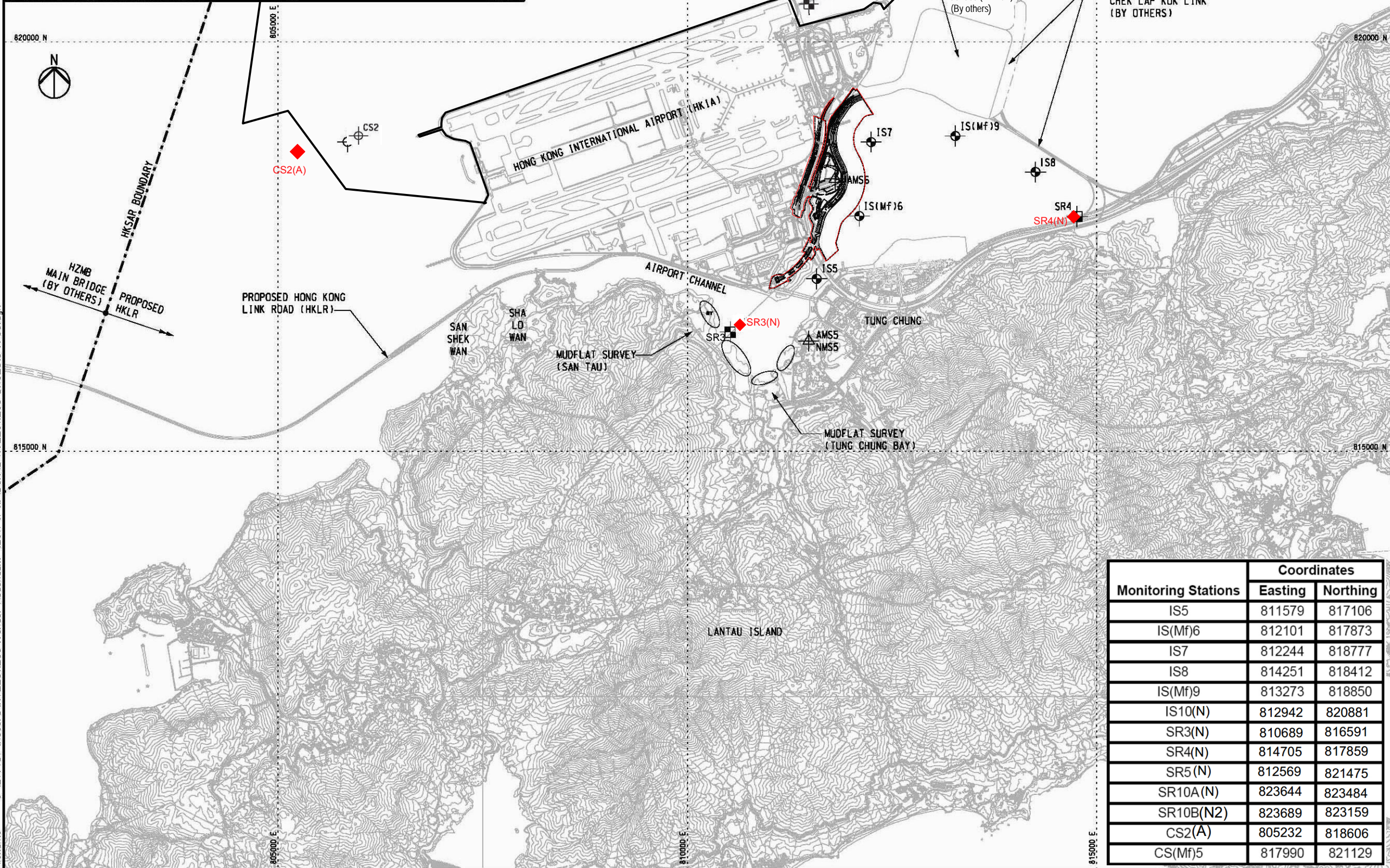
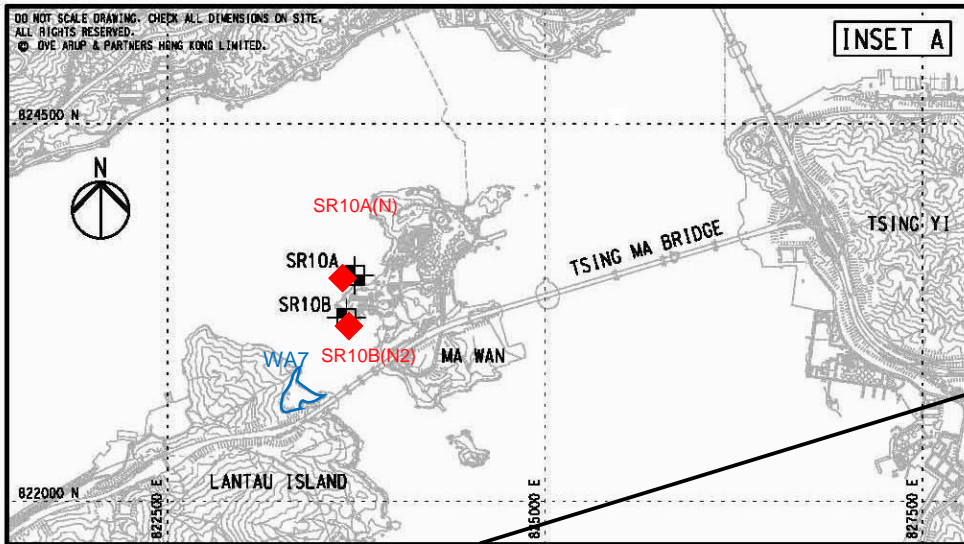


Figure 1.1 Location of the Site



KEY PLAN

- NOTES**
- 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.
 - 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 EAMA MANUALS.
 - THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS STIPULATED IN THE EAMA MANUALS TO CONDUCT THE ENVIRONMENTAL MONITORING AND AUDIT WORKS.

- LEGEND**
- WORKS BOUNDARY OF CONTRACT HY2011/03
 - 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	RY	Date	11/11
Checked	AW	Approved	SK
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Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

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(N)	812942	820881
SR3(N)	810689	816591
SR4(N)	814705	817859
SR5(N)	812569	821475
SR10A(N)	823644	823484
SR10B(N2)	823689	823159
CS2(A)	805232	818606
CS(Mf)5	817990	821129

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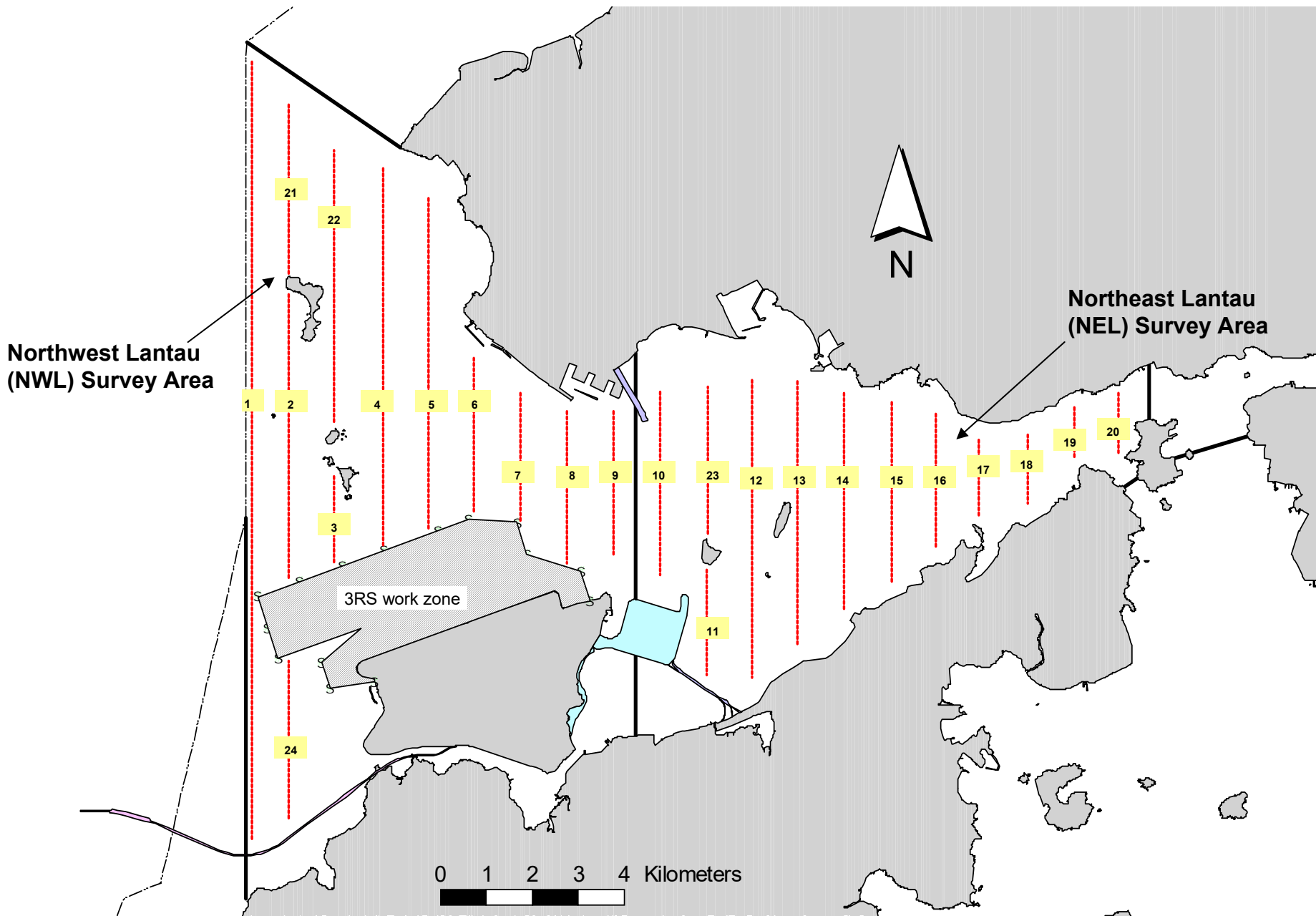


Figure 2.2. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

APPENDIX A

Environmental Management Structure

Contact Information of Key Personnel

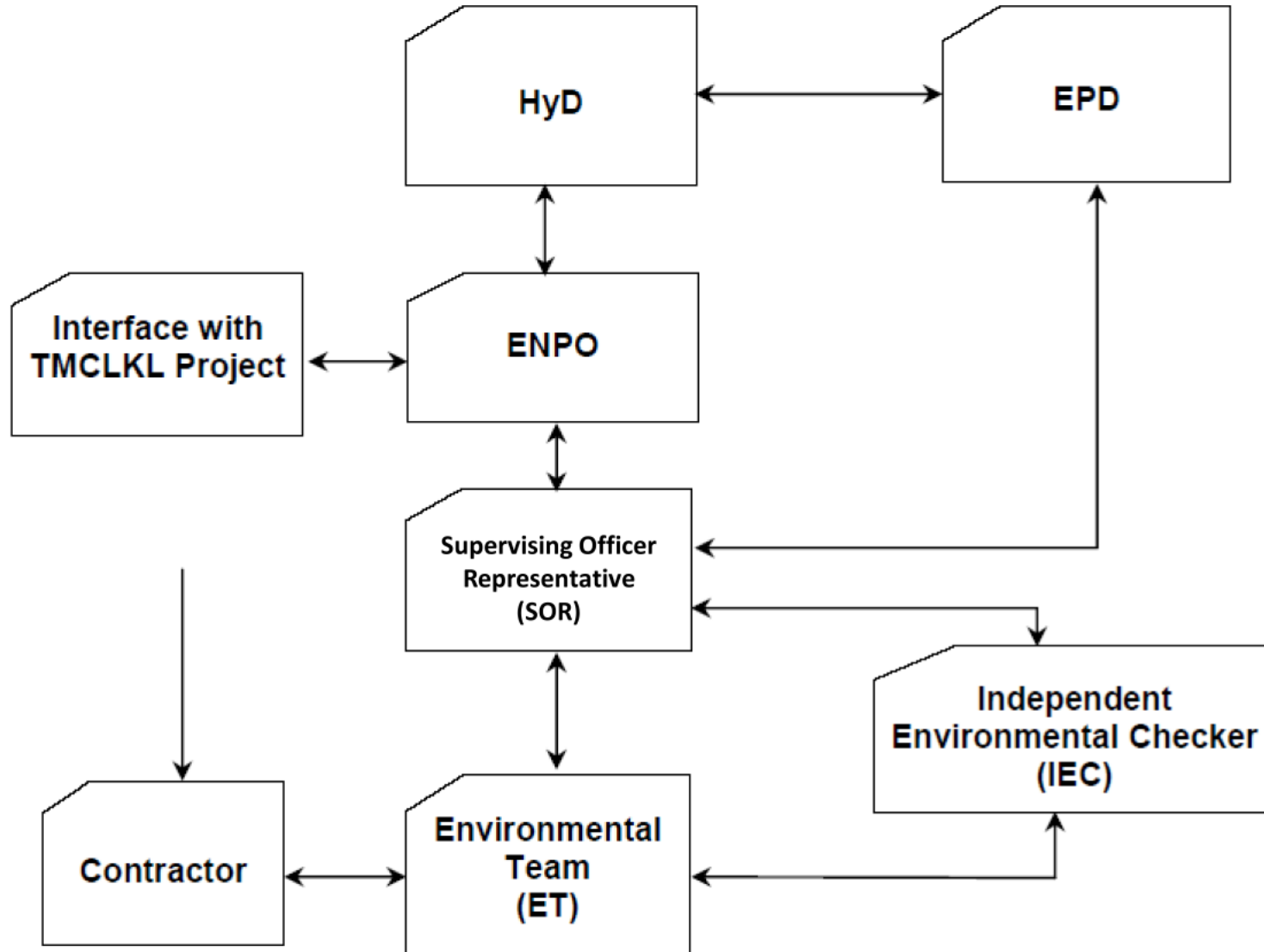
Party	Position	Name	Telephone	Fax
Supervising Officer's Representative (Ove Arup & Partners Hong Kong Limited)	(Chief Resident Engineer, CRE)	Robert Antony Evans	3968 0801	2109 1882
Environmental Project Office / Independent Environmental Checker (Ramboll Hong Kong Limited) (See Remark 1)	Environmental 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 Hong Kong Limited) (See Remark 2)	Environmental Team Leader	Claudine Lee	2241 9847	2815 3377
24 hours complaint hotline	---	---	5699 5730	---

Remarks:

- 1) Ramboll Environ Hong Kong Limited has been re-branded as Ramboll Hong Kong Limited.
- 2) BMT Asia Pacific Limited has been re-branded as BMT Hong Kong Limited.

Project Organization for Environmental Works

↔ Line of communication





APPENDIX B

Construction Programme



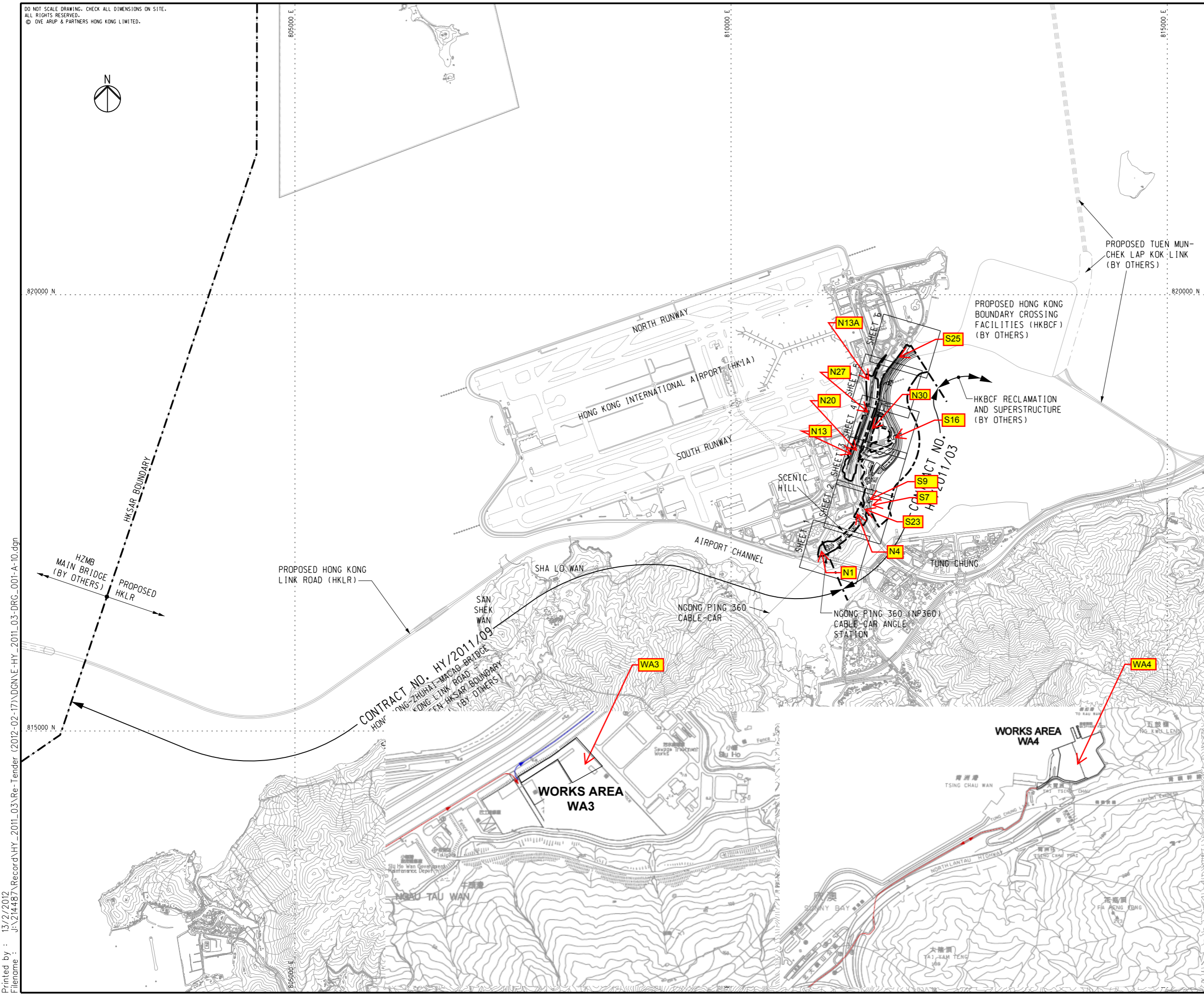


APPENDIX C

Location of Works Areas



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LEGEND

--- SITE BOUNDARY

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Ove Arup & Partners Hong Kong Limited

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

Drawing title
**GENERAL LAYOUT
KEY PLAN**

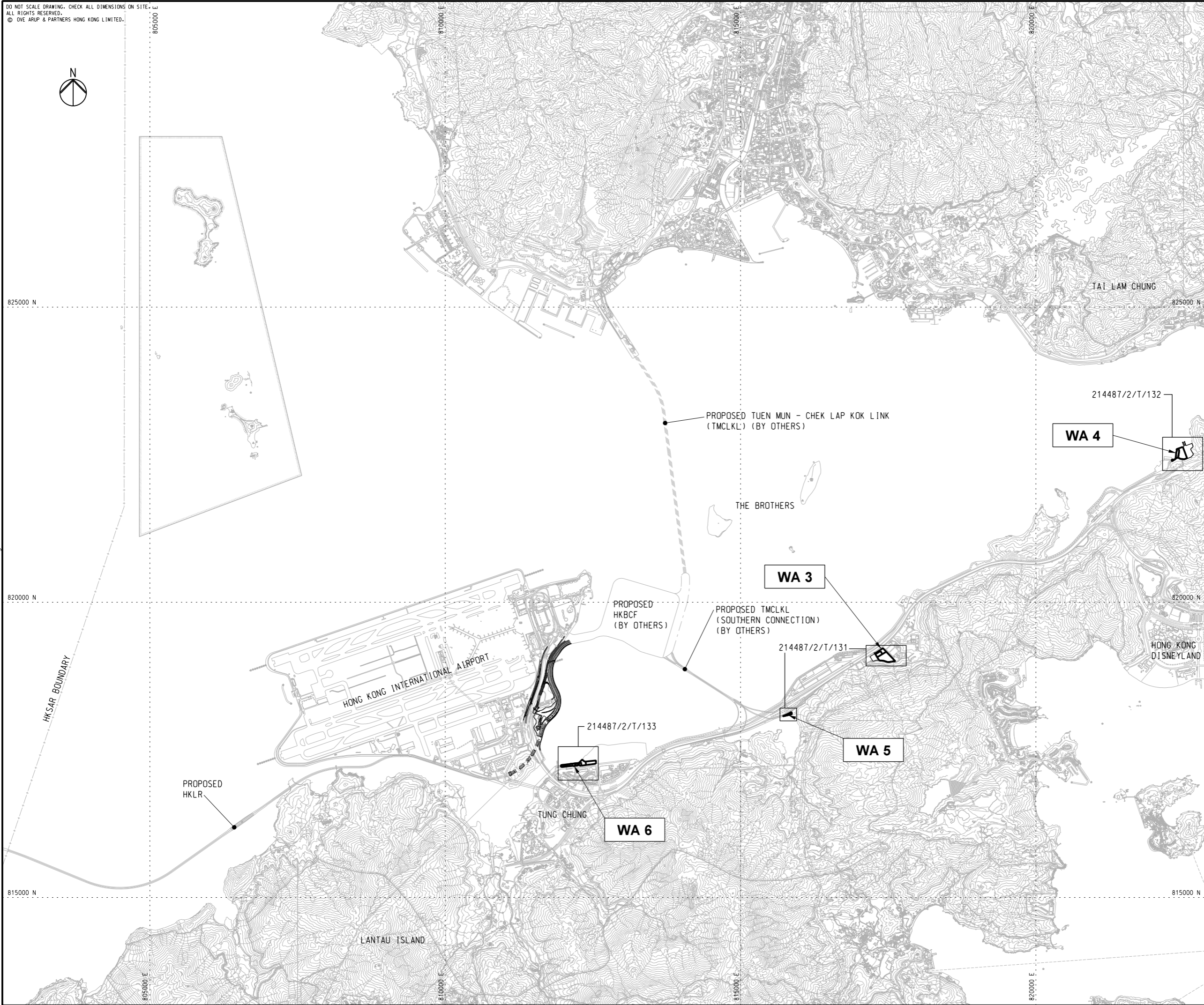
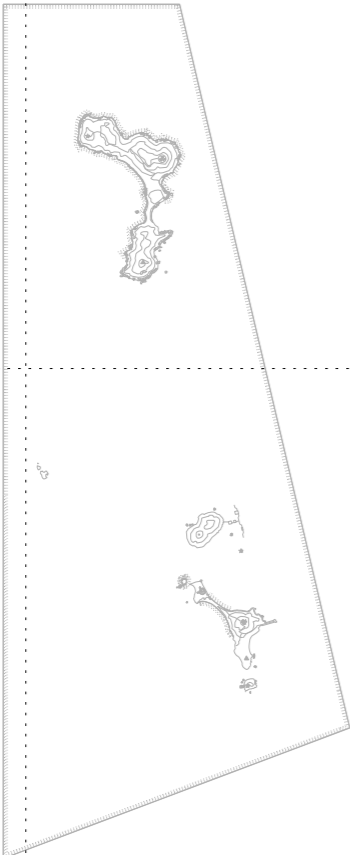
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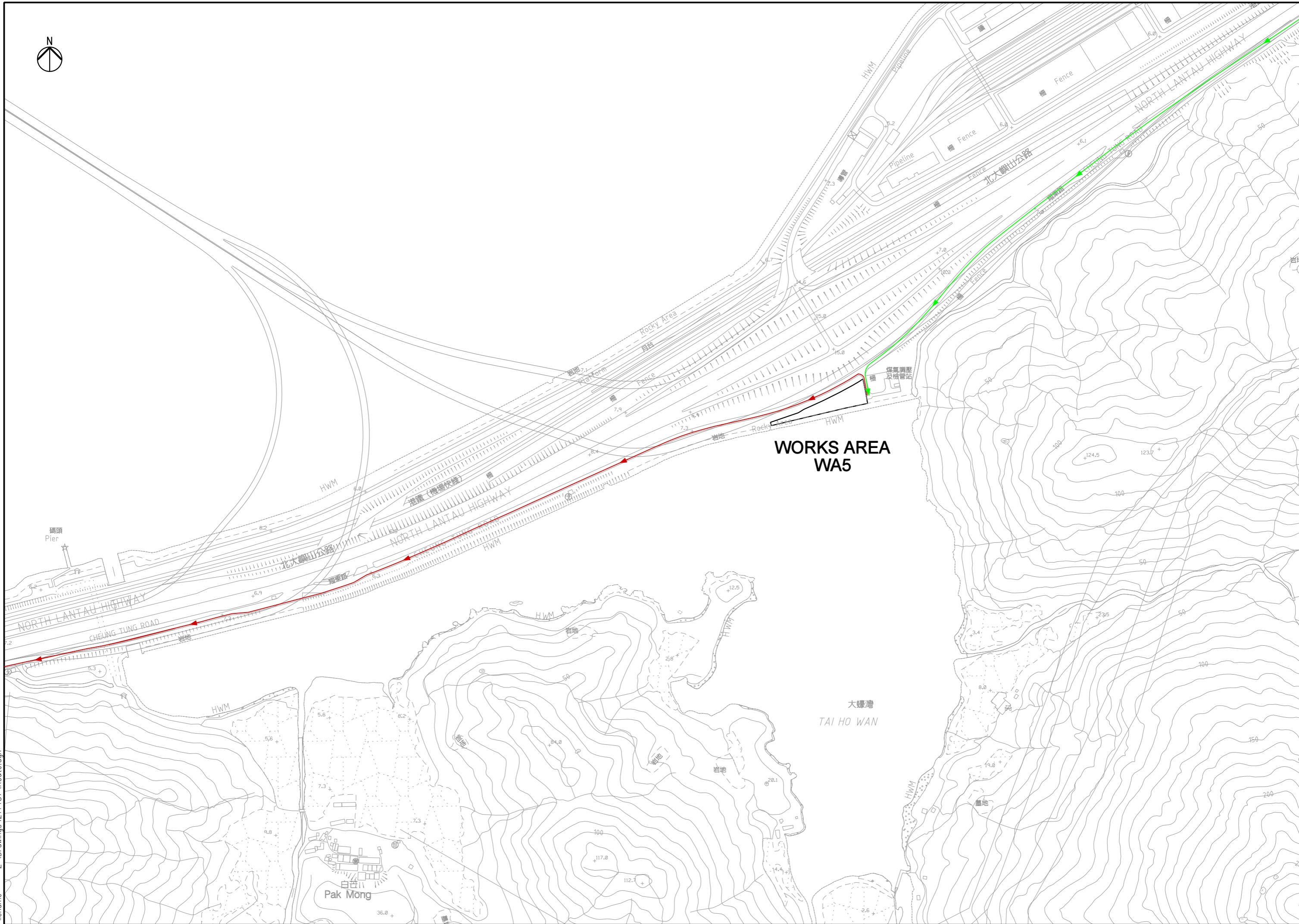
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**WORKS AREAS
 KEY PLAN**

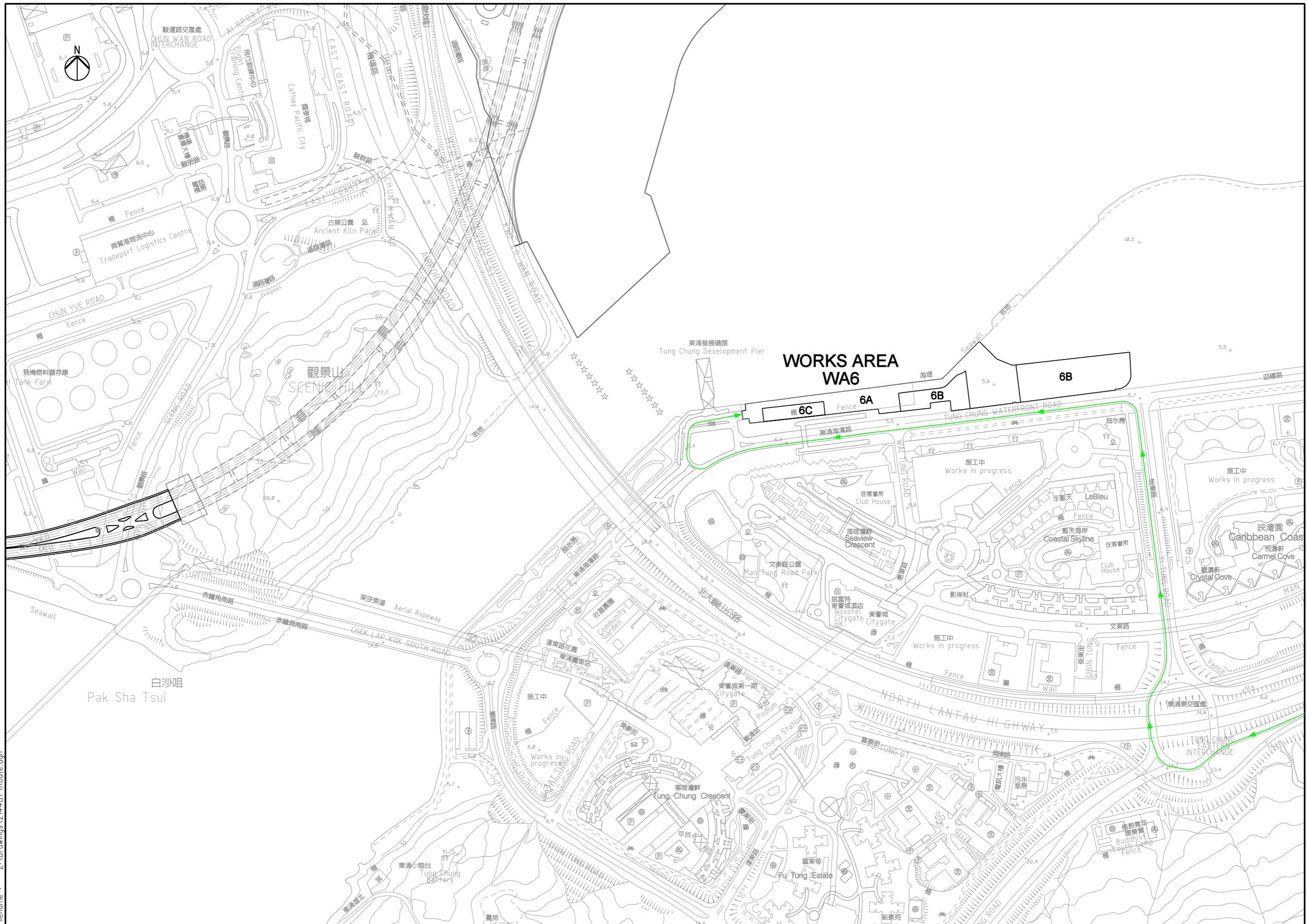
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WORKS AREA WA6

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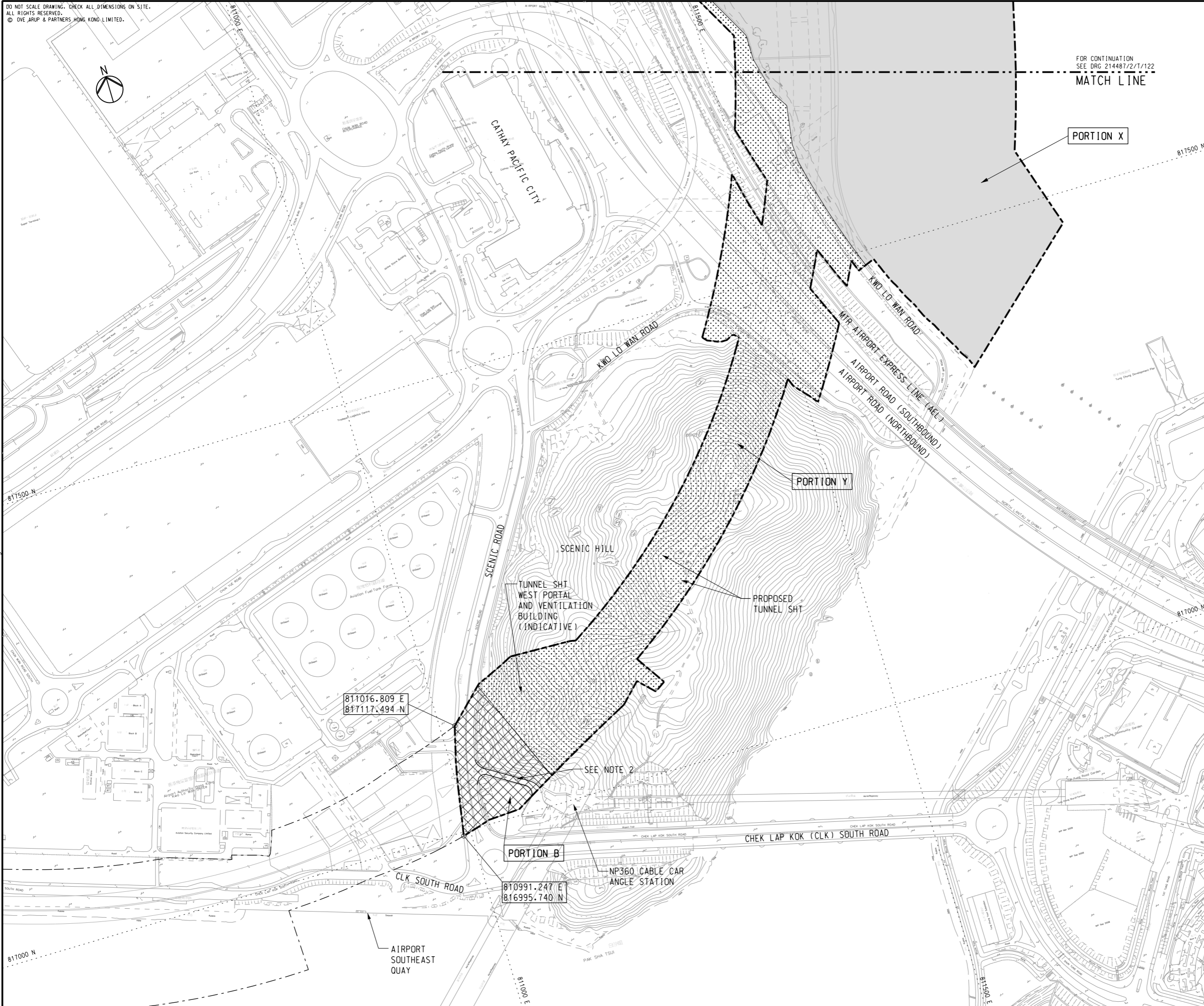
6C

6A

白沙咀
Pak Sha Tsui

東涌東交匯處
TUNG CHUNG EASTERN INTERCHANGE

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NOTES

- FOR DETAILED DESCRIPTION OF PORTION OF SITE, REFER TO ER PART 2 GENERAL SITE DATA.
- 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

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Drawing title
**PORTION OF SITE
(SHEET 1 OF 3)**

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HONG KONG INTERNATIONAL AIRPORT
SOUTH RUNWAY

PORTION Y

CIVIL AVIATION DEPARTMENT
(CAD) NEW HEADQUARTERS

FOR CONTINUATION
SEE DRG 214487/2/T/123

MATCH LINE

NOTES

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

EXISTING
DRAGONAIR
HEADQUARTERS

EXISTING
CNAC TOWER

PORTION X

MATCH LINE

FOR CONTINUATION
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Hong Kong Link Road -
Section Between Scenic Hill and
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Drawing title
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(SHEET 2 OF 3)**

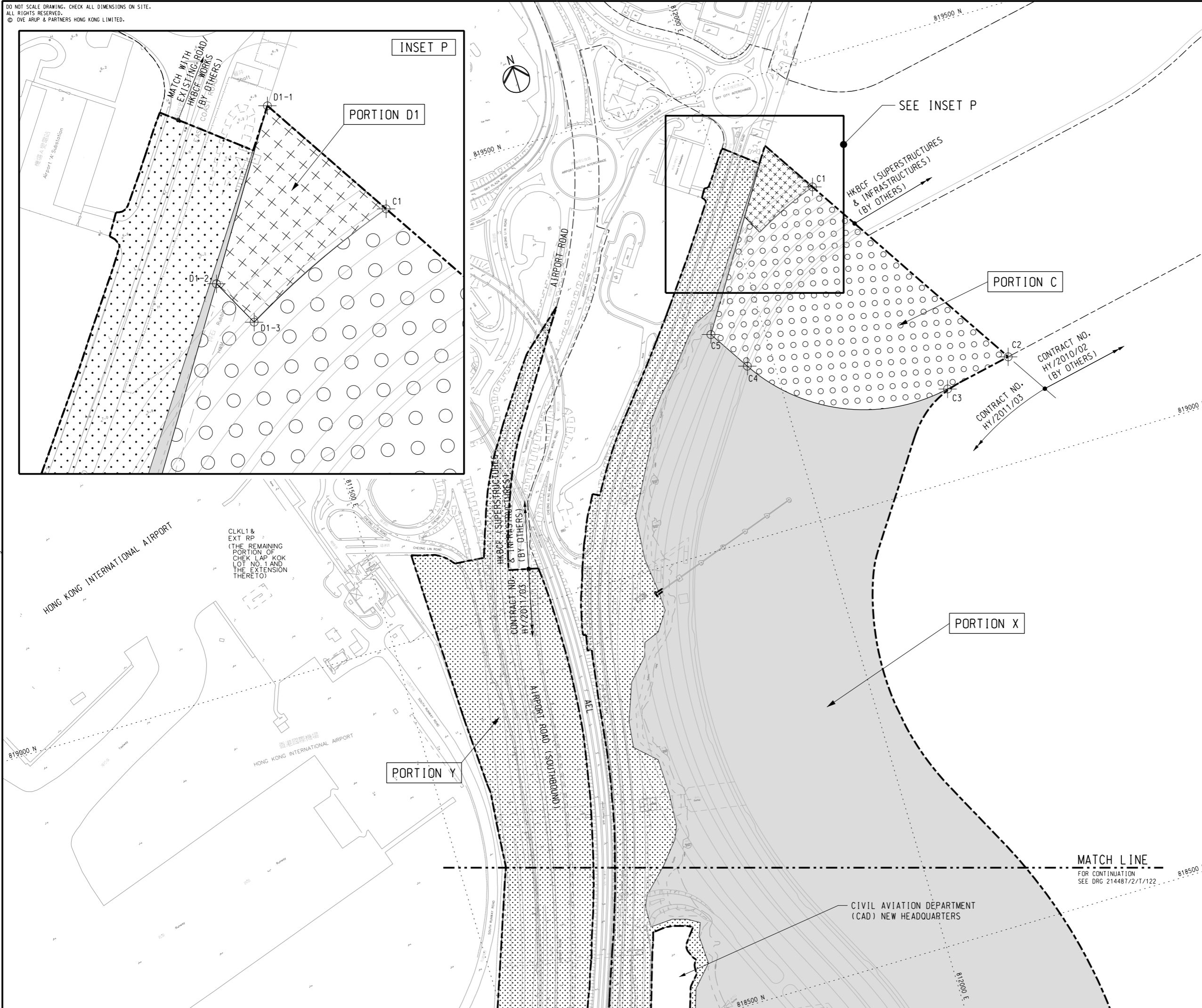
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NOTES
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SETTING OUT CO-ORDINATES OF SITE PORTION C

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
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Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
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Drawing title
**PORTION OF SITE
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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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method. 	<ol style="list-style-type: none"> 1. Notify Contractor. 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
Exceedance of Action Level for two or more consecutive samples	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Exceedance of Limit Level for two or more consecutive samples	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the SO accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Exceedance of Limit Level	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working methods. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of non-compliance in writing; 2. Notify Contractor. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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; 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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; 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor; 5. Check monitoring data. 6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor. 	<ol style="list-style-type: none"> 1. Discuss monitoring with the IEC and any other measures proposed by the ET; 2. If 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary; 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly; 5. Supervise / Audit the 	<ol style="list-style-type: none"> 1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures; 3. Supervise the implementation of additional monitoring 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures; 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary; 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

Event	ET Leader	IEC	ER / SOR	Contractor
	<p>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.</p>	<p>implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly.</p>	<p>and/or any other mitigation measures.</p>	

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.	<p>Review historical data to ensure differences are as a result of natural variation or previously observed seasonal differences;</p> <p>Identify source(s) of impact;</p> <p>Inform the IEC, SO and Contractor;</p> <p>Check monitoring data;</p> <p>Discuss additional monitoring and any other measures, with the IEC and Contractor.</p>	<p>Discuss monitoring with the ET and the Contractor;</p> <p>Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SO accordingly.</p>	<p>Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET;</p> <p>Make agreement on the measures to be implemented.</p>	<p>Inform the SO and in writing;</p> <p>Discuss with the ET and the IEC and propose measures to the IEC and the ER;</p> <p>Implement the agreed measures.</p>

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	√
S5.5.6.2	A2	2) Proper watering of exposed spoil should be undertaken throughout the construction phase: <ul style="list-style-type: none"> •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	Partially implemented
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	<ul style="list-style-type: none"> •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	√
S5.5.6.2	A2	<ul style="list-style-type: none"> • 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	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant:</p> <ul style="list-style-type: none"> • 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	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</p> <ul style="list-style-type: none"> •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	<p>1) Use of good site practices to limit noise emissions by considering the following:</p> <ul style="list-style-type: none"> •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	<u>Construction and Demolition Material</u> The following mitigation measures should be implemented in handling the waste: <ul style="list-style-type: none"> •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
		<p>with a view to recovering broken concrete effectively for recycling purpose, where possible;</p> <ul style="list-style-type: none"> •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	<p>C&D Waste</p> <ul style="list-style-type: none"> •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	<p>Chemical Waste</p> <ul style="list-style-type: none"> •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	<p><u>Sewage</u></p> <ul style="list-style-type: none"> •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	<p><u>General Refuse</u></p> <ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> 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	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
S9.11.1-S9.11.1.2	W1	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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	√

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; <ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •Implement a water quality monitoring programme 	Control water quality	Contractor	At identified monitoring	During construction	√
Ecology (Construction Phase)							
S10.7	E1	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •Dolphin Exclusion Zone; •Dolphin watching plan . 	Minimize temporary marine habitat loss impact to dolphins	Contractor	Marine works	During marine works	√
S10.7	E7	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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	<p>General design measures include:</p> <ul style="list-style-type: none"> •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; <p>Considering the decorative urban design elements for HKLR, e.g. decorative road lightings;</p>	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
		<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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	<p>Mitigate both Landscape and Visual Impacts</p> <p>G1. Grass-hydroseed bare soil surface and stock pile areas.</p> <p>G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge or footbridge to screen bridge and traffic.</p> <p>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.</p> <p>G4. Vegetation reinstatement and upgrading to disturbed areas.</p>	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
		<p>G5. Maximize new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed.</p> <p>G6. Provide planting area around peripheral of and within HKLR for tree screening buffer effect.</p> <p>G7. Plant salt tolerant native tree and shrubs etc along the planterstrip at affected seawall.</p> <p>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).</p>					
S14.3.3.3	LV3	<p>Mitigate Visual Impacts</p> <p>V1.Minimize time for construction activities during construction period.</p> <p>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.</p>					√
EM&A							
S15.5-S15.6	EM2	<p>1) An Environmental Team needs to be employed as per the EM&A Manual.</p> <p>2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures.</p> <p>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.</p>	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 6, 13, 20 and 29 June 2018; and 4, 11, 18 and 27 July 2018; and 1, 8, 15, 22 and 31 August 2018. Particular observations during the site inspections are described below:

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
29 May 2018	<ol style="list-style-type: none"> The waste was removed from plant room of S15. The waste was removed next to the plant room of S15. The mud was removed near gully at N30. The oil drum was removed from S7. 	<ol style="list-style-type: none"> The waste was removed from plant room of S15. The waste was removed next to the plant room of S15. The mud was removed near gully at N30. The oil drum was removed from S7. 	6 Jun 2018
6 Jun 2018	<ol style="list-style-type: none"> Waste was observed at fuel filling station of S9. Stagnant water was found within a drip tray at S9. Waste was observed at N1. Stagnant water was observed inside a container at N1. 	<ol style="list-style-type: none"> The waste was removed at the fuel filling station of S9. The drip tray was removed from S9. The waste was removed from N1. The container was removed at N1. 	13 Jun 2018
13 Jun 2018	<ol style="list-style-type: none"> Waste was observed at HMA. Chemical containers were found without drip tray at S9. Waste was observed at S9. Stagnant water was observed inside a steel beam at S9. Waste was observed on the ground at S15. Gaps of silt curtain was observed at Portion X. 	<ol style="list-style-type: none"> The waste was removed from HMA. The chemical containers were removed from S9. The waste was removed from S9. The steel beam was removed from S9. The waste was removed on the ground from S15. The silt curtains were maintained properly at Portion X. 	20 Jun 2018
20 Jun 2018	<ol style="list-style-type: none"> Chemicals containers were observed at N4. Waste was observed at S15. Stagnant water was observed inside a drip tray at S15. 	<ol style="list-style-type: none"> The chemical containers were removed at N4. The waste was removed from S15. The stagnant water was removed from the drip tray at S15. 	29 Jun 2018

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
29 Jun 2018	<ol style="list-style-type: none"> 1. Waste was observed on the ground at S9. 2. Mud was accumulated in wheel washing bay at S7. 3. Waste was observed at plant room of S15. 	<ol style="list-style-type: none"> 1. The waste was removed from S9. 2. The mud was cleared in wheel washing bay at S7. 3. The waste was cleared at the plant room of S15. 	4 Jul 2018
4 Jul 2018	<ol style="list-style-type: none"> 1. Waste was observed at N4a. 2. Stagnant water was observed in a hole of water-filled barrier which is used to place warning light at N4a. 3. Waste was observed on the ground at S9. 4. Stagnant water was observed at PR10. 	<ol style="list-style-type: none"> 1. The waste was removed from N4a. 2. The stagnant water in the hole of water filled barrier was cleared at N4a. 3. The waste on the ground was removed from S9. 4. The stagnant water was cleared at PR10. 	11 Jul 2018
4 Jul 2018	<ol style="list-style-type: none"> 5. Gaps of silt curtain were observed at Portion X. 	<ol style="list-style-type: none"> 5. The silt curtains were maintained properly at Portion X. 	18 Jul 2018
11 Jul 2018	<ol style="list-style-type: none"> 1. Waste was observed at HMA. 2. Waste was accumulated at PR10. 3. U-channel was blocked with sand/mud at N1. 	<ol style="list-style-type: none"> 1. The waste was removed from HMA. 2. The waste was removed from PR10. 3. The mud / sand inside the u-channel was cleared at N1. 	18 Jul 2018
18 Jul 2018	<ol style="list-style-type: none"> 1. Chemical containers were observed without drip trays at N13A. 2. Stagnant water was observed on the ground at N13A. 3. Lid of a water-filled barrier was missing at N13A. 4. Concrete deposit was observed on the ground at N13A. 5. An unused chemical drum was abandoned at S15. 	<ol style="list-style-type: none"> 1. The chemical containers were removed at N13A. 2. The stagnant water was removed from the ground at N13A. 3. The lid of the water-filled barrier was provided at N13A. 4. The concrete deposit was removed on the ground at N13A. 5. The unused chemical drum was removed at S15. 	27 Jul 2018

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
27 Jul 2018	<ol style="list-style-type: none"> 1. Waste was observed at S15. 2. Mechanical cover of a dump truck was observed damaged at S16. 3. Gaps of silt curtains were observed at Portion X. 4. Stagnant water was observed at PR10. 	<ol style="list-style-type: none"> 1. The waste was removed from S15. 2. The mechanical cover of the dump truck was repaired at S16. 3. The silt curtains were maintained properly at Portion X. 4. The stagnant water was removed from PR10. 	1 Aug 2018
1 Aug 2018	<ol style="list-style-type: none"> 1. General refuse was accumulated on the ground at S15. 2. Gaps of silt curtain were observed at Portion X. 3. Construction waste was observed on the ground at PR10. 4. Fugitive dust emission was observed during concrete breaking at S7. 	<ol style="list-style-type: none"> 1. The general refuse was removed from S15. 2. The silt curtains were maintained properly at Portion X. 3. The construction waste was removed on the ground from PR10. 4. Water spraying was applied during concrete breaking at S7. 	8 Aug 2018
8 Aug 2018	<ol style="list-style-type: none"> 1. General refuse was accumulated on the ground at HMA. 2. Waste was observed on the ground at S15. 	<ol style="list-style-type: none"> 1. The general refuse was removed on the ground from HMA. 2. The waste was removed on the ground from S15. 	15 Aug 2018
15 Aug 2018	<ol style="list-style-type: none"> 1. Waste was observed at S7. 2. Waste was observed at S23. 3. Sand/ mud was observed near site entrance/exit at N1. 	<ol style="list-style-type: none"> 1. The waste was removed from S7. 2. The waste was removed from S23. 3. The sand / mud near site entrance/exit was cleared from N1. 	22 Aug 2018
22 Aug 2018	<ol style="list-style-type: none"> 1. Waste was observed at N4. 2. Fugitive dust emission was observed during excavation at PR10. 3. Unused gas containers were observed at S15. 	<ol style="list-style-type: none"> 1. The waste was removed from N4. 2. Water spraying was applied prior to/ during excavation at PR10. 3. The unused gas containers were removed from S15. 	31 Aug 2018

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
31 Aug 2018	<ol style="list-style-type: none"> 1. Stagnant water was observed at S15. 2. Waste was observed at PR10. 3. Drip tray was not provided for chemical containers at S15. 	<p>The Contractor was recommended to:</p> <ol style="list-style-type: none"> 1. remove the stagnant water at S15. 2. remove the waste from PR10. 3. provide drip tray for the chemical containers at S15. 	<p>Follow-up actions for the observations issued for the last weekly site inspection of the reporting month will be inspected during the next site inspection.</p>

The Contractor has rectified most the observations as identified during environmental site inspections. Follow-up actions for outstanding observations will be inspected during the next site inspection.

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	2018-06-04	AMS5	09:10	1-hr TSP	30	µg/m ³
HKLR	HY/2011/03	2018-06-04	AMS5	10:10	1-hr TSP	32	µg/m ³
HKLR	HY/2011/03	2018-06-04	AMS5	11:10	1-hr TSP	34	µg/m ³
HKLR	HY/2011/03	2018-06-08	AMS5	13:00	1-hr TSP	19	µg/m ³
HKLR	HY/2011/03	2018-06-08	AMS5	14:00	1-hr TSP	19	µg/m ³
HKLR	HY/2011/03	2018-06-08	AMS5	15:00	1-hr TSP	25	µg/m ³
HKLR	HY/2011/03	2018-06-14	AMS5	09:00	1-hr TSP	54	µg/m ³
HKLR	HY/2011/03	2018-06-14	AMS5	10:00	1-hr TSP	73	µg/m ³
HKLR	HY/2011/03	2018-06-14	AMS5	11:00	1-hr TSP	74	µg/m ³
HKLR	HY/2011/03	2018-06-20	AMS5	09:00	1-hr TSP	16	µg/m ³
HKLR	HY/2011/03	2018-06-20	AMS5	10:00	1-hr TSP	14	µg/m ³
HKLR	HY/2011/03	2018-06-20	AMS5	11:00	1-hr TSP	14	µg/m ³
HKLR	HY/2011/03	2018-06-26	AMS5	09:00	1-hr TSP	7	µg/m ³
HKLR	HY/2011/03	2018-06-26	AMS5	10:00	1-hr TSP	6	µg/m ³
HKLR	HY/2011/03	2018-06-26	AMS5	11:00	1-hr TSP	7	µg/m ³
HKLR	HY/2011/03	2018-06-28	AMS5	09:00	1-hr TSP	9	µg/m ³
HKLR	HY/2011/03	2018-06-28	AMS5	10:00	1-hr TSP	8	µg/m ³
HKLR	HY/2011/03	2018-06-28	AMS5	11:00	1-hr TSP	10	µg/m ³
HKLR	HY/2011/03	2018-06-01	AMS5	08:00	24-hr TSP	39	µg/m ³
HKLR	HY/2011/03	2018-06-07	AMS5	08:00	24-hr TSP	18	µg/m ³
HKLR	HY/2011/03	2018-06-13	AMS5	08:00	24-hr TSP	55	µg/m ³
HKLR	HY/2011/03	2018-06-19	AMS5	08:00	24-hr TSP	37	µg/m ³
HKLR	HY/2011/03	2018-06-25	AMS5	08:00	24-hr TSP	25	µg/m ³
HKLR	HY/2011/03	2018-06-27	AMS5	11:54	24-hr TSP	25	µg/m ³
HKLR	HY/2011/03	2018-06-04	AMS6	13:00	1-hr TSP	33	µg/m ³
HKLR	HY/2011/03	2018-06-04	AMS6	14:00	1-hr TSP	30	µg/m ³
HKLR	HY/2011/03	2018-06-04	AMS6	15:00	1-hr TSP	30	µg/m ³
HKLR	HY/2011/03	2018-06-08	AMS6	09:10	1-hr TSP	14	µg/m ³
HKLR	HY/2011/03	2018-06-08	AMS6	10:10	1-hr TSP	16	µg/m ³
HKLR	HY/2011/03	2018-06-08	AMS6	11:10	1-hr TSP	16	µg/m ³
HKLR	HY/2011/03	2018-06-14	AMS6	13:00	1-hr TSP	57	µg/m ³
HKLR	HY/2011/03	2018-06-14	AMS6	14:00	1-hr TSP	54	µg/m ³
HKLR	HY/2011/03	2018-06-14	AMS6	15:00	1-hr TSP	49	µg/m ³
HKLR	HY/2011/03	2018-06-20	AMS6	13:00	1-hr TSP	20	µg/m ³
HKLR	HY/2011/03	2018-06-20	AMS6	14:00	1-hr TSP	20	µg/m ³
HKLR	HY/2011/03	2018-06-20	AMS6	15:00	1-hr TSP	18	µg/m ³
HKLR	HY/2011/03	2018-06-26	AMS6	13:18	1-hr TSP	24	µg/m ³
HKLR	HY/2011/03	2018-06-26	AMS6	14:18	1-hr TSP	17	µg/m ³
HKLR	HY/2011/03	2018-06-26	AMS6	15:18	1-hr TSP	16	µg/m ³
HKLR	HY/2011/03	2018-06-28	AMS6	13:00	1-hr TSP	22	µg/m ³
HKLR	HY/2011/03	2018-06-28	AMS6	14:00	1-hr TSP	23	µg/m ³
HKLR	HY/2011/03	2018-06-28	AMS6	15:00	1-hr TSP	21	µg/m ³
HKLR	HY/2011/03	2018-06-01	AMS6	08:00	24-hr TSP	382	µg/m ³
HKLR	HY/2011/03	2018-06-07	AMS6	17:28	24-hr TSP	32	µg/m ³
HKLR	HY/2011/03	2018-06-13	AMS6	08:00	24-hr TSP	71	µg/m ³
HKLR	HY/2011/03	2018-06-19	AMS6	08:00	24-hr TSP	120	µg/m ³
HKLR	HY/2011/03	2018-06-25	AMS6	08:00	24-hr TSP	33	µg/m ³
HKLR	HY/2011/03	2018-06-27	AMS6	12:20	24-hr TSP	58	µg/m ³

Air Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
HKLR	HY/2011/03	2018-07-04	AMS5	09:00	1-hr TSP	6	µg/m ³
HKLR	HY/2011/03	2018-07-04	AMS5	10:00	1-hr TSP	6	µg/m ³
HKLR	HY/2011/03	2018-07-04	AMS5	11:00	1-hr TSP	6	µg/m ³
HKLR	HY/2011/03	2018-07-10	AMS5	09:00	1-hr TSP	18	µg/m ³
HKLR	HY/2011/03	2018-07-10	AMS5	10:00	1-hr TSP	8	µg/m ³
HKLR	HY/2011/03	2018-07-10	AMS5	11:00	1-hr TSP	4	µg/m ³
HKLR	HY/2011/03	2018-07-16	AMS5	09:00	1-hr TSP	12	µg/m ³
HKLR	HY/2011/03	2018-07-16	AMS5	10:00	1-hr TSP	11	µg/m ³
HKLR	HY/2011/03	2018-07-16	AMS5	11:00	1-hr TSP	13	µg/m ³
HKLR	HY/2011/03	2018-07-20	AMS5	09:00	1-hr TSP	5	µg/m ³
HKLR	HY/2011/03	2018-07-20	AMS5	10:00	1-hr TSP	7	µg/m ³
HKLR	HY/2011/03	2018-07-20	AMS5	11:00	1-hr TSP	6	µg/m ³
HKLR	HY/2011/03	2018-07-26	AMS5	09:00	1-hr TSP	12	µg/m ³
HKLR	HY/2011/03	2018-07-26	AMS5	10:00	1-hr TSP	15	µg/m ³
HKLR	HY/2011/03	2018-07-26	AMS5	11:00	1-hr TSP	11	µg/m ³
HKLR	HY/2011/03	2018-07-03	AMS5	08:00	24-hr TSP	34	µg/m ³
HKLR	HY/2011/03	2018-07-09	AMS5	08:00	24-hr TSP	24	µg/m ³
HKLR	HY/2011/03	2018-07-13	AMS5	08:00	24-hr TSP	22	µg/m ³
HKLR	HY/2011/03	2018-07-19	AMS5	08:00	24-hr TSP	19	µg/m ³
HKLR	HY/2011/03	2018-07-25	AMS5	08:00	24-hr TSP	40	µg/m ³
HKLR	HY/2011/03	2018-07-31	AMS5	08:00	24-hr TSP	See Remark 1	µg/m ³
HKLR	HY/2011/03	2018-07-04	AMS6	13:00	1-hr TSP	14	µg/m ³
HKLR	HY/2011/03	2018-07-04	AMS6	14:00	1-hr TSP	16	µg/m ³
HKLR	HY/2011/03	2018-07-04	AMS6	15:00	1-hr TSP	15	µg/m ³
HKLR	HY/2011/03	2018-07-10	AMS6	13:00	1-hr TSP	10	µg/m ³
HKLR	HY/2011/03	2018-07-10	AMS6	14:00	1-hr TSP	11	µg/m ³
HKLR	HY/2011/03	2018-07-10	AMS6	15:00	1-hr TSP	14	µg/m ³
HKLR	HY/2011/03	2018-07-16	AMS6	13:00	1-hr TSP	14	µg/m ³
HKLR	HY/2011/03	2018-07-16	AMS6	14:00	1-hr TSP	13	µg/m ³
HKLR	HY/2011/03	2018-07-16	AMS6	15:00	1-hr TSP	13	µg/m ³
HKLR	HY/2011/03	2018-07-20	AMS6	13:00	1-hr TSP	6	µg/m ³
HKLR	HY/2011/03	2018-07-20	AMS6	14:00	1-hr TSP	9	µg/m ³
HKLR	HY/2011/03	2018-07-20	AMS6	15:00	1-hr TSP	10	µg/m ³
HKLR	HY/2011/03	2018-07-26	AMS6	13:00	1-hr TSP	12	µg/m ³
HKLR	HY/2011/03	2018-07-26	AMS6	14:00	1-hr TSP	10	µg/m ³
HKLR	HY/2011/03	2018-07-26	AMS6	15:00	1-hr TSP	11	µg/m ³
HKLR	HY/2011/03	2018-07-03	AMS6	08:00	24-hr TSP	48	µg/m ³
HKLR	HY/2011/03	2018-07-09	AMS6	08:00	24-hr TSP	51	µg/m ³
HKLR	HY/2011/03	2018-07-13	AMS6	08:00	24-hr TSP	22	µg/m ³
HKLR	HY/2011/03	2018-07-19	AMS6	08:00	24-hr TSP	17	µg/m ³
HKLR	HY/2011/03	2018-07-25	AMS6	08:00	24-hr TSP	48	µg/m ³
HKLR	HY/2011/03	2018-07-31	AMS6	08:00	24-hr TSP	99	µg/m ³

Remark:

1) The monitoring time for TSP monitoring on 31 July 2018 at AMS5 (Ma Wan Chung Village) was less than 24-hr due to power interruption of the high volume sampler (HVS). The 24-hr TSP monitoring was rescheduled from 31 July 2018 to 1 August 2018.

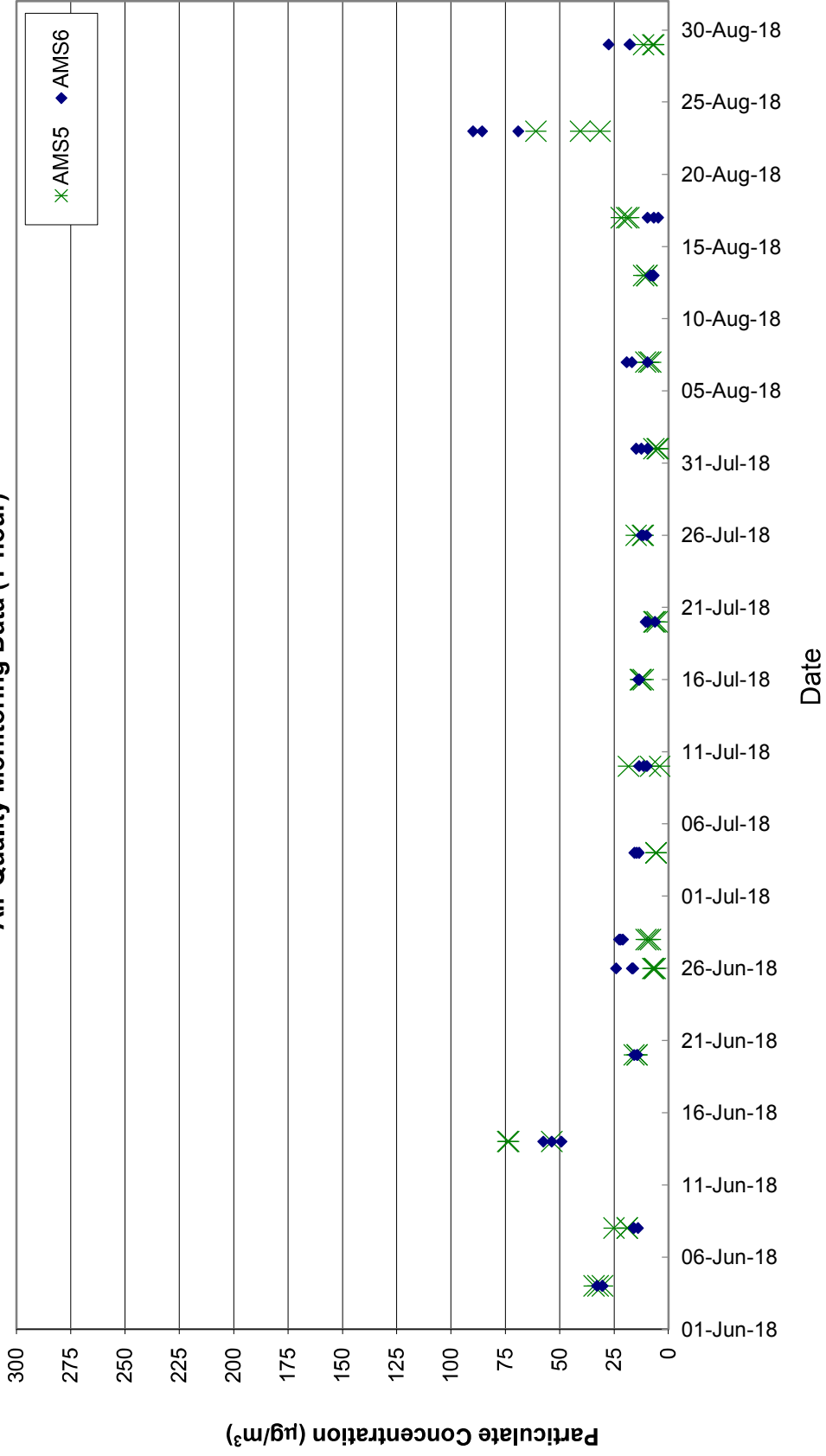
Air Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
HKLR	HY/2011/03	2018-08-01	AMS5	09:00	1-hr TSP	7	µg/m ³
HKLR	HY/2011/03	2018-08-01	AMS5	10:00	1-hr TSP	5	µg/m ³
HKLR	HY/2011/03	2018-08-01	AMS5	11:00	1-hr TSP	5	µg/m ³
HKLR	HY/2011/03	2018-08-07	AMS5	09:00	1-hr TSP	10	µg/m ³
HKLR	HY/2011/03	2018-08-07	AMS5	10:00	1-hr TSP	8	µg/m ³
HKLR	HY/2011/03	2018-08-07	AMS5	11:00	1-hr TSP	9	µg/m ³
HKLR	HY/2011/03	2018-08-13	AMS5	09:00	1-hr TSP	11	µg/m ³
HKLR	HY/2011/03	2018-08-13	AMS5	10:00	1-hr TSP	10	µg/m ³
HKLR	HY/2011/03	2018-08-13	AMS5	11:00	1-hr TSP	10	µg/m ³
HKLR	HY/2011/03	2018-08-17	AMS5	09:09	1-hr TSP	22	µg/m ³
HKLR	HY/2011/03	2018-08-17	AMS5	10:09	1-hr TSP	19	µg/m ³
HKLR	HY/2011/03	2018-08-17	AMS5	11:09	1-hr TSP	18	µg/m ³
HKLR	HY/2011/03	2018-08-23	AMS5	09:03	1-hr TSP	31	µg/m ³
HKLR	HY/2011/03	2018-08-23	AMS5	10:03	1-hr TSP	61	µg/m ³
HKLR	HY/2011/03	2018-08-23	AMS5	11:03	1-hr TSP	41	µg/m ³
HKLR	HY/2011/03	2018-08-29	AMS5	09:01	1-hr TSP	7	µg/m ³
HKLR	HY/2011/03	2018-08-29	AMS5	10:01	1-hr TSP	7	µg/m ³
HKLR	HY/2011/03	2018-08-29	AMS5	11:01	1-hr TSP	11	µg/m ³
HKLR	HY/2011/03	2018-08-01	AMS5	11:15	24-hr TSP	26 (See Remark 1)	µg/m ³
HKLR	HY/2011/03	2018-08-08	AMS5	11:16	24-hr TSP	22 (See Remark 2)	µg/m ³
HKLR	HY/2011/03	2018-08-10	AMS5	08:00	24-hr TSP	17	µg/m ³
HKLR	HY/2011/03	2018-08-16	AMS5	08:00	24-hr TSP	19	µg/m ³
HKLR	HY/2011/03	2018-08-22	AMS5	08:00	24-hr TSP	38	µg/m ³
HKLR	HY/2011/03	2018-08-28	AMS5	08:00	24-hr TSP	22	µg/m ³
HKLR	HY/2011/03	2018-08-01	AMS6	13:00	1-hr TSP	12	µg/m ³
HKLR	HY/2011/03	2018-08-01	AMS6	14:00	1-hr TSP	9	µg/m ³
HKLR	HY/2011/03	2018-08-01	AMS6	15:00	1-hr TSP	15	µg/m ³
HKLR	HY/2011/03	2018-08-07	AMS6	13:00	1-hr TSP	9	µg/m ³
HKLR	HY/2011/03	2018-08-07	AMS6	14:00	1-hr TSP	17	µg/m ³
HKLR	HY/2011/03	2018-08-07	AMS6	15:00	1-hr TSP	19	µg/m ³
HKLR	HY/2011/03	2018-08-13	AMS6	13:00	1-hr TSP	7	µg/m ³
HKLR	HY/2011/03	2018-08-13	AMS6	14:00	1-hr TSP	7	µg/m ³
HKLR	HY/2011/03	2018-08-13	AMS6	15:00	1-hr TSP	8	µg/m ³
HKLR	HY/2011/03	2018-08-17	AMS6	13:42	1-hr TSP	9	µg/m ³
HKLR	HY/2011/03	2018-08-17	AMS6	14:42	1-hr TSP	5	µg/m ³
HKLR	HY/2011/03	2018-08-17	AMS6	15:42	1-hr TSP	7	µg/m ³
HKLR	HY/2011/03	2018-08-23	AMS6	13:03	1-hr TSP	69	µg/m ³
HKLR	HY/2011/03	2018-08-23	AMS6	14:03	1-hr TSP	90	µg/m ³
HKLR	HY/2011/03	2018-08-23	AMS6	15:03	1-hr TSP	86	µg/m ³
HKLR	HY/2011/03	2018-08-29	AMS6	13:15	1-hr TSP	18	µg/m ³
HKLR	HY/2011/03	2018-08-29	AMS6	14:15	1-hr TSP	18	µg/m ³
HKLR	HY/2011/03	2018-08-29	AMS6	15:15	1-hr TSP	27	µg/m ³
HKLR	HY/2011/03	2018-08-06	AMS6	08:00	24-hr TSP	74	µg/m ³
HKLR	HY/2011/03	2018-08-10	AMS6	08:00	24-hr TSP	23	µg/m ³
HKLR	HY/2011/03	2018-08-16	AMS6	08:00	24-hr TSP	20	µg/m ³
HKLR	HY/2011/03	2018-08-22	AMS6	08:00	24-hr TSP	47	µg/m ³
HKLR	HY/2011/03	2018-08-28	AMS6	08:00	24-hr TSP	29	µg/m ³

Remarks:

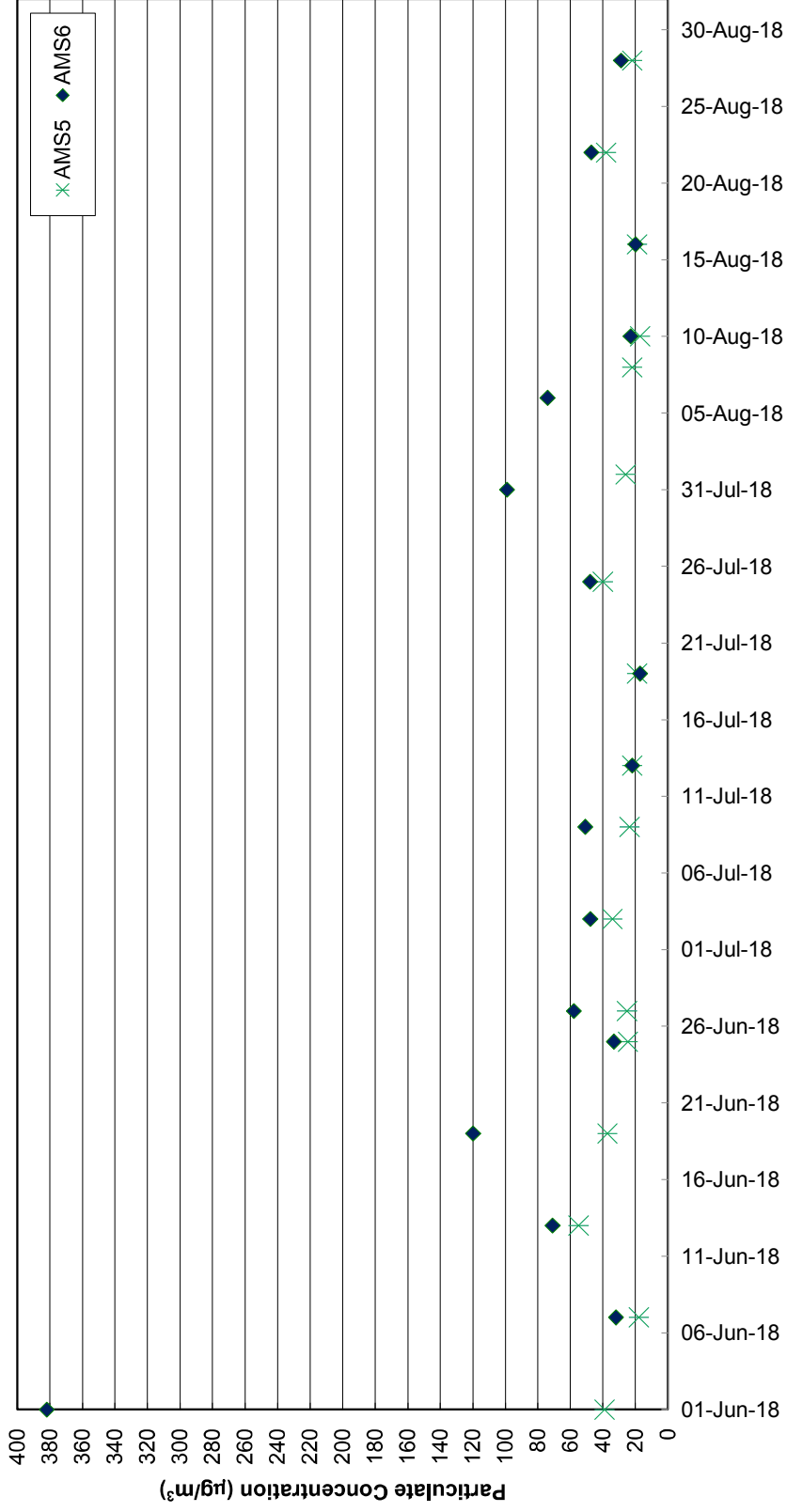
- 1) The monitoring time for TSP monitoring on 31 July 2018 at AMS5 (Ma Wan Chung Village) was less than 24-hr due to power interruption of the high volume sampler (HVS). The 24-hr TSP monitoring was rescheduled from 31 July 2018 to 1 August 2018.
- 2) The monitoring time for TSP monitoring on 6 August 2018 at AMS5 (Ma Wan Chung Village) was less than 24-hr due to malfunction of HVS. The 24-hr TSP monitoring was rescheduled from 6 August 2018 to 8 August 2018.

Air Quality Monitoring Data (1-hour)



Graphical Plot of 24-hour TSP at AMS5 and AMS6

Air Quality Monitoring Data (24-hour)



Remarks:

- 1) Due to power interruption of the High Volume Sampler, the 24-hr TSP monitoring on 31 July 2018 at Ma Wan Chung Village (AMS5) was rescheduled from 31 July 2018 to 1 August 2018.
- 2) The monitoring time for TSP monitoring on 6 August 2018 at AMS5 (Ma Wan Chung Village) was less than 24-hr due to malfunction of HVS. The 24-hr TSP monitoring was rescheduled from 6 August 2018 to 8 August 2018.



APPENDIX H

Noise Monitoring Data and Graphical Plots



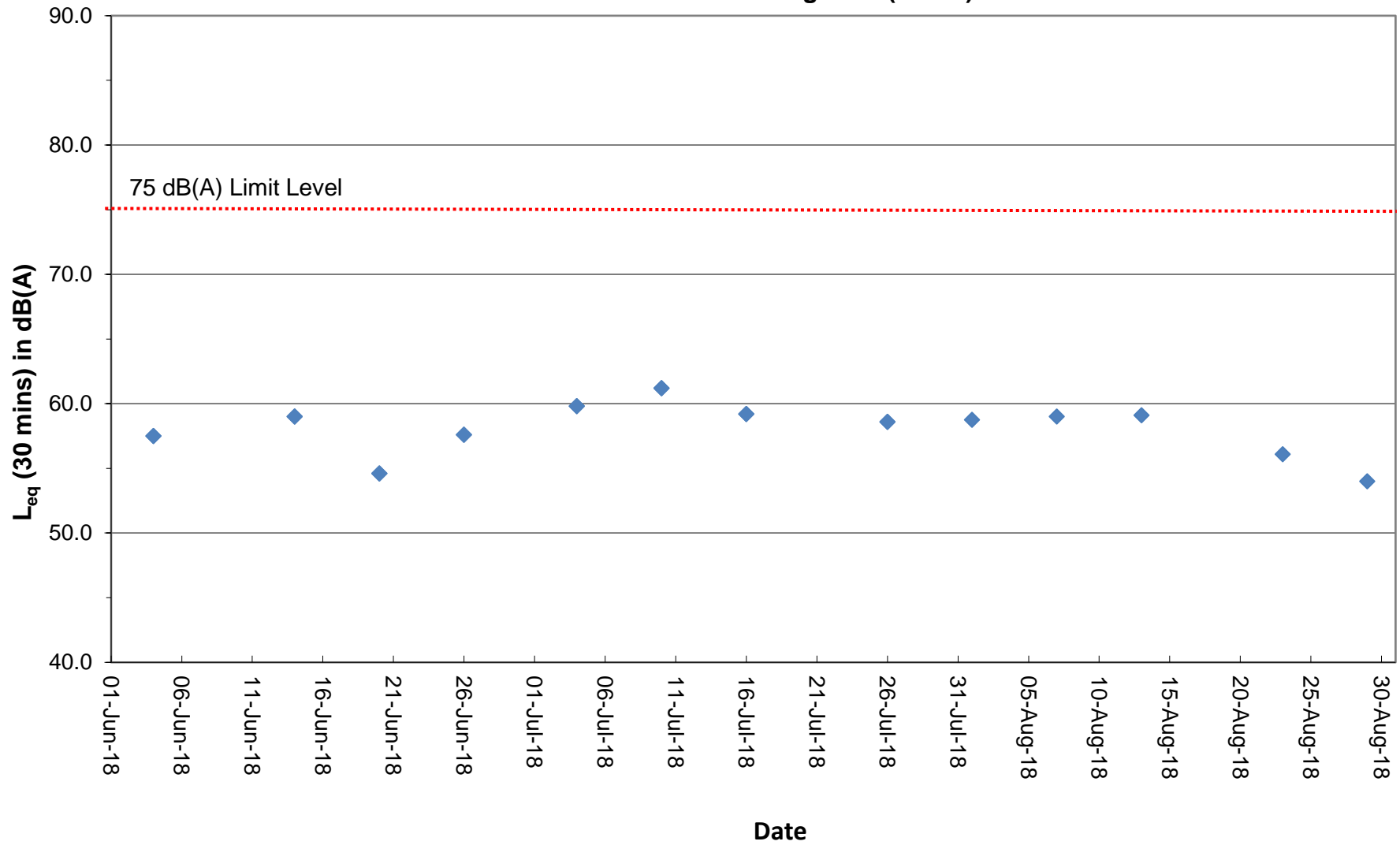
Noise Monitoring Data

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		
						Leq:	L10:	L90:	Leq:	L10:	L90:	Leq:	L10:	L90:	Leq:	L10:	L90:	Leq:	L10:	L90:	Leq:	L10:	L90:			Leq:	L10:
HKLR	HY/2011/03	2018-06-04	NMS5	09:30	<5	Leq: 55.6	Leq: 53.0	Leq: 53.4	Leq: 54.4	Leq: 55.2	Leq: 54.8	Leq: 57.5	L10: 58.5	L10: 56.0	L10: 55.5	L10: 57.5	L10: 58.5	L10: 57.5	L10: 60.4	L90: 50.5	L90: 48.5	L90: 49.0	L90: 49.0	L90: 50.0	L90: 51.5	L90: 52.9	dB(A)
						Leq: 56.3	Leq: 55.8	Leq: 56.3	Leq: 55.7	Leq: 56.6	Leq: 54.8	Leq: 59.0	L10: 58.5	L10: 59.0	L10: 58.5	L10: 58.0	L10: 59.5	L10: 57.0	L10: 61.5	L90: 53.0	L90: 52.5	L90: 53.0	L90: 53.0	L90: 52.0	L90: 51.5	L90: 55.5	
						Leq: 51.7	Leq: 51.1	Leq: 52.0	Leq: 50.9	Leq: 51.1	Leq: 52.5	Leq: 54.6	L10: 54.0	L10: 52.5	L10: 54.0	L10: 52.5	L10: 52.5	L10: 54.5	L10: 56.4	L90: 49.0	L90: 48.5	L90: 49.0	L90: 49.0	L90: 49.0	L90: 49.5	L90: 52.0	
HKLR	HY/2011/03	2018-06-14	NMS5	10:00	<5	Leq: 56.3	Leq: 55.8	Leq: 56.3	Leq: 55.7	Leq: 56.6	Leq: 54.8	Leq: 59.0	L10: 58.5	L10: 59.0	L10: 58.5	L10: 58.0	L10: 59.5	L10: 57.0	L10: 61.5	L90: 53.0	L90: 52.5	L90: 53.0	L90: 53.0	L90: 52.0	L90: 51.5	L90: 55.5	dB(A)
						Leq: 51.7	Leq: 51.1	Leq: 52.0	Leq: 50.9	Leq: 51.1	Leq: 52.5	Leq: 54.6	L10: 54.0	L10: 52.5	L10: 54.0	L10: 52.5	L10: 52.5	L10: 54.5	L10: 56.4	L90: 49.0	L90: 48.5	L90: 49.0	L90: 49.0	L90: 49.0	L90: 49.5	L90: 52.0	
						Leq: 56.7	Leq: 56.0	Leq: 52.3	Leq: 53.3	Leq: 53.9	Leq: 54.0	Leq: 57.6	L10: 57.5	L10: 58.5	L10: 54.0	L10: 54.5	L10: 55.0	L10: 57.0	L10: 59.4	L90: 54.0	L90: 51.0	L90: 49.5	L90: 51.0	L90: 51.0	L90: 50.5	L90: 54.4	
HKLR	HY/2011/03	2018-06-20	NMS5	09:46	<5	Leq: 56.7	Leq: 56.0	Leq: 52.3	Leq: 53.3	Leq: 53.9	Leq: 54.0	Leq: 57.6	L10: 57.5	L10: 58.5	L10: 54.0	L10: 54.5	L10: 55.0	L10: 57.0	L10: 59.4	L90: 54.0	L90: 51.0	L90: 49.5	L90: 51.0	L90: 51.0	L90: 50.5	L90: 54.4	dB(A)
						Leq: 54.5	Leq: 54.7	Leq: 55.8	Leq: 57.6	Leq: 58.3	Leq: 58.0	Leq: 59.8	L10: 57.5	L10: 56.0	L10: 58.5	L10: 59.0	L10: 60.0	L10: 60.0	L10: 61.7	L90: 51.5	L90: 53.0	L90: 52.0	L90: 54.5	L90: 55.5	L90: 54.5	L90: 56.7	
						Leq: 57.7	Leq: 59.0	Leq: 56.1	Leq: 60.0	Leq: 57.3	Leq: 58.0	Leq: 61.2	L10: 59.0	L10: 61.0	L10: 58.0	L10: 62.5	L10: 59.0	L10: 59.5	L10: 63.1	L90: 54.0	L90: 54.0	L90: 53.5	L90: 55.5	L90: 54.5	L90: 55.0	L90: 57.5	
HKLR	HY/2011/03	2018-07-04	NMS5	09:25	<5	Leq: 57.7	Leq: 59.0	Leq: 56.1	Leq: 60.0	Leq: 57.3	Leq: 58.0	Leq: 61.2	L10: 59.0	L10: 61.0	L10: 58.0	L10: 62.5	L10: 59.0	L10: 59.5	L10: 63.1	L90: 54.0	L90: 54.0	L90: 53.5	L90: 55.5	L90: 54.5	L90: 55.0	L90: 57.5	dB(A)
						Leq: 53.6	Leq: 54.9	Leq: 56.7	Leq: 56.8	Leq: 56.7	Leq: 57.5	Leq: 59.2	L10: 56.5	L10: 57.5	L10: 59.0	L10: 59.0	L10: 59.0	L10: 59.0	L10: 61.4	L90: 49.5	L90: 50.5	L90: 53.0	L90: 52.5	L90: 53.0	L90: 55.5	L90: 55.8	
						Leq: 55.0	Leq: 53.5	Leq: 55.2	Leq: 55.8	Leq: 55.2	Leq: 57.8	Leq: 58.6	L10: 57.5	L10: 56.0	L10: 58.0	L10: 58.5	L10: 58.0	L10: 58.0	L10: 60.7	L90: 51.5	L90: 50.5	L90: 51.0	L90: 51.5	L90: 51.0	L90: 50.5	L90: 54.0	
HKLR	HY/2011/03	2018-07-10	NMS5	10:15	<5	Leq: 56.3	Leq: 56.9	Leq: 55.6	Leq: 54.7	Leq: 54.6	Leq: 55.9	Leq: 58.7	L10: 58.5	L10: 59.0	L10: 57.5	L10: 56.5	L10: 56.5	L10: 58.5	L10: 60.9	L90: 51.5	L90: 53.5	L90: 52.5	L90: 50.5	L90: 50.5	L90: 52.0	L90: 55.1	dB(A)
						Leq: 55.4	Leq: 27.6	Leq: 57.5	Leq: 54.2	Leq: 56.2	Leq: 53.7	Leq: 59.0	L10: 59.5	L10: 61.0	L10: 62.0	L10: 57.0	L10: 59.5	L10: 57.0	L10: 62.7	L90: 50.0	L90: 50.5	L90: 50.0	L90: 50.5	L90: 50.5	L90: 49.5	L90: 53.2	
						Leq: 56.5	Leq: 57.5	Leq: 55.8	Leq: 56.3	Leq: 54.9	Leq: 55.3	Leq: 59.1	L10: 58.5	L10: 59.5	L10: 57.0	L10: 58.0	L10: 55.5	L10: 56.5	L10: 60.7	L90: 55.0	L90: 55.0	L90: 54.0	L90: 54.0	L90: 54.0	L90: 53.5	L90: 57.3	
HKLR	HY/2011/03	2018-07-16	NMS5	09:20	<5	Leq: 56.5	Leq: 57.5	Leq: 55.8	Leq: 56.3	Leq: 54.9	Leq: 55.3	Leq: 59.1	L10: 58.5	L10: 59.5	L10: 57.0	L10: 58.0	L10: 55.5	L10: 56.5	L10: 60.7	L90: 55.0	L90: 55.0	L90: 54.0	L90: 54.0	L90: 54.0	L90: 53.5	L90: 57.3	dB(A)
						Leq: 51.4	Leq: 53.0	Leq: 50.9	Leq: 52.7	Leq: 51.5	Leq: 56.4	Leq: 56.1	L10: 52.5	L10: 55.5	L10: 52.0	L10: 55.0	L10: 53.0	L10: 60.0	L10: 58.7	L90: 49.0	L90: 50.0	L90: 49.0	L90: 49.5	L90: 49.5	L90: 50.0	L90: 52.5	
						Leq: 49.4	Leq: 52.1	Leq: 49.2	Leq: 50.1	Leq: 53.4	Leq: 50.3	Leq: 54.0	L10: 50.5	L10: 55.0	L10: 50.0	L10: 51.0	L10: 56.5	L10: 51.5	L10: 56.2	L90: 48.0	L90: 48.5	L90: 48.0	L90: 48.0	L90: 49.0	L90: 48.5	L90: 51.3	
HKLR	HY/2011/03	2018-07-26	NMS5	09:40	<5	Leq: 55.0	Leq: 53.5	Leq: 55.2	Leq: 55.8	Leq: 55.2	Leq: 57.8	Leq: 58.6	L10: 57.5	L10: 56.0	L10: 58.0	L10: 58.5	L10: 58.0	L10: 58.0	L10: 60.7	L90: 51.5	L90: 50.5	L90: 51.0	L90: 51.5	L90: 51.0	L90: 50.5	L90: 54.0	dB(A)
						Leq: 56.3	Leq: 56.9	Leq: 55.6	Leq: 54.7	Leq: 54.6	Leq: 55.9	Leq: 58.7	L10: 58.5	L10: 59.0	L10: 57.5	L10: 56.5	L10: 56.5	L10: 58.5	L10: 60.9	L90: 51.5	L90: 53.5	L90: 52.5	L90: 50.5	L90: 50.5	L90: 52.0	L90: 55.1	
						Leq: 55.4	Leq: 27.6	Leq: 57.5	Leq: 54.2	Leq: 56.2	Leq: 53.7	Leq: 59.0	L10: 59.5	L10: 61.0	L10: 62.0	L10: 57.0	L10: 59.5	L10: 57.0	L10: 62.7	L90: 50.0	L90: 50.5	L90: 50.0	L90: 50.5	L90: 50.5	L90: 49.5	L90: 53.2	
HKLR	HY/2011/03	2018-08-01	NMS5	10:25	<5	Leq: 56.3	Leq: 56.9	Leq: 55.6	Leq: 54.7	Leq: 54.6	Leq: 55.9	Leq: 58.7	L10: 58.5	L10: 59.0	L10: 57.5	L10: 56.5	L10: 56.5	L10: 58.5	L10: 60.9	L90: 51.5	L90: 53.5	L90: 52.5	L90: 50.5	L90: 50.5	L90: 52.0	L90: 55.1	dB(A)
						Leq: 55.4	Leq: 27.6	Leq: 57.5	Leq: 54.2	Leq: 56.2	Leq: 53.7	Leq: 59.0	L10: 59.5	L10: 61.0	L10: 62.0	L10: 57.0	L10: 59.5	L10: 57.0	L10: 62.7	L90: 50.0	L90: 50.5	L90: 50.0	L90: 50.5	L90: 50.5	L90: 49.5	L90: 53.2	
						Leq: 56.5	Leq: 57.5	Leq: 55.8	Leq: 56.3	Leq: 54.9	Leq: 55.3	Leq: 59.1	L10: 58.5	L10: 59.5	L10: 57.0	L10: 58.0	L10: 55.5	L10: 56.5	L10: 60.7	L90: 55.0	L90: 55.0	L90: 54.0	L90: 54.0	L90: 54.0	L90: 53.5	L90: 57.3	
HKLR	HY/2011/03	2018-08-07	NMS5	09:51	<5	Leq: 56.5	Leq: 57.5	Leq: 55.8	Leq: 56.3	Leq: 54.9	Leq: 55.3	Leq: 59.1	L10: 58.5	L10: 59.5	L10: 57.0	L10: 58.0	L10: 55.5	L10: 56.5	L10: 60.7	L90: 55.0	L90: 55.0	L90: 54.0	L90: 54.0	L90: 54.0	L90: 53.5	L90: 57.3	dB(A)
						Leq: 51.4	Leq: 53.0	Leq: 50.9	Leq: 52.7	Leq: 51.5	Leq: 56.4	Leq: 56.1	L10: 52.5	L10: 55.5	L10: 52.0	L10: 55.0	L10: 53.0	L10: 60.0	L10: 58.7	L90: 49.0	L90: 50.0	L90: 49.0	L90: 49.5	L90: 49.5	L90: 50.0	L90: 52.5	
						Leq: 49.4	Leq: 52.1	Leq: 49.2	Leq: 50.1	Leq: 53.4	Leq: 50.3	Leq: 54.0	L10: 50.5	L10: 55.0	L10: 50.0	L10: 51.0	L10: 56.5	L10: 51.5	L10: 56.2	L90: 48.0	L90: 48.5	L90: 48.0	L90: 48.0	L90: 49.0	L90: 48.5	L90: 51.3	
HKLR	HY/2011/03	2018-08-13	NMS5	09:28	<5	Leq: 55.0	Leq: 53.5	Leq: 55.2	Leq: 55.8	Leq: 55.2	Leq: 57.8	Leq: 58.6	L10: 57.5	L10: 56.0	L10: 58.0	L10: 58.5	L10: 58.0	L10: 58.0	L10: 60.7	L90: 51.5	L90: 50.5	L90: 51.0	L90: 51.5	L90: 51.0	L90: 50.5	L90: 54.0	dB(A)
						Leq: 56.3	Leq: 56.9	Leq: 55.6	Leq: 54.7	Leq: 54.6	Leq: 55.9	Leq: 58.7	L10: 58.5	L10: 59.0	L10: 57.5	L10: 56.5	L10: 56.5	L10: 58.5	L10: 60.9	L90: 51.5	L90: 53.5	L90: 52.5	L90: 50.5	L90: 50.5	L90: 52.0	L90: 55.1	
						Leq: 55.4	Leq: 27.6	Leq: 57.5	Leq: 54.2	Leq: 56.2	Leq: 53.7	Leq: 59.0	L10: 59.5	L10: 61.0	L10: 62.0	L10: 57.0	L10: 59.5	L10: 57.0	L10: 62.7	L90: 50.0	L90: 50.5	L90: 50.0	L90: 50.5	L90: 50.5	L90: 49.5	L90: 53.2	
HKLR	HY/2011/03	2018-08-23	NMS5	09:13	<5	Leq: 56.5	Leq: 57.5	Leq: 55.8	Leq: 56.3	Leq: 54.9	Leq: 55.3	Leq: 59.1	L10: 58.5	L10: 59.5	L10: 57.0	L10: 58.0	L10: 55.5	L10: 56.5	L10: 60.7	L90: 55.0	L90: 55.0	L90: 54.0	L90: 54.0	L90: 54.0	L90: 53.5	L90: 57.3	dB(A)
						Leq: 51.4	Leq: 53.0	Leq: 50.9	Leq: 52.7	Leq: 51.5	Leq: 56.4	Leq: 56.1	L10: 52.5	L10: 55.5	L10: 52.0	L10: 55.0	L10: 53.0	L10: 60.0	L10: 58.7	L90: 49.0	L90: 50.0	L90: 49.0	L90: 49.5	L90: 49.5	L90: 50.0	L90: 52.5	
						Leq: 49.4	Leq: 52.1	Leq: 49.2	Leq: 50.1	Leq: 53.4	Leq: 50.3	Leq: 54.0	L10: 50.5	L10: 55.0	L10: 50.0	L10: 51.0	L10: 56.5	L10: 51.5	L10: 56.2	L90: 48.0	L90: 48.5	L90: 48.0	L90: 48.0	L90: 49.0	L90: 48.5	L90: 51.3	
HKLR	HY/2011/03	2018-08-29	NMS5	09:12	<5	Leq: 49.4	Leq: 52.1	Leq: 49.2	Leq: 50.1	Leq: 53.4	Leq: 50.3	Leq: 54.0	L10: 50.5	L10: 55.0	L10: 50.0	L10: 51.0	L10: 56.5	L10: 51.5	L10: 56.2	L90: 48.0	L90: 48.5	L90: 48.0	L90: 48.0	L90: 49.0	L90: 48.5	L90: 51.3	dB(A)

Remark:

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

Continuous Noise Monitoring Data (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



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	2018-06-01	Mid-Ebb	Sunny	IS5	13:16	1.0	Surface	1	1	29.69	8.04	27.64	95.9	6.26	5.3	5.5
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS5	13:16	1.0	Surface	1	2	29.75	7.92	27.51	93.5	6.10	5.3	5.9
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS5	13:16	4.3	Middle	2	1	29.53	8.04	27.90	94.1	6.14	6.1	6.3
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS5	13:15	4.3	Middle	2	2	29.45	7.93	27.93	92.5	6.05	6.1	5.7
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS5	13:16	7.6	Bottom	3	1	29.60	7.92	27.92	93.0	6.08	6.2	7.2
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS5	13:15	7.6	Bottom	3	2	29.42	7.90	28.02	90.4	5.91	6.1	6.7
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS(Mf)6	13:24	1.0	Surface	1	1	30.70	8.10	26.56	107.7	6.95	3.4	2.4
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS(Mf)6	13:23	1.0	Surface	1	2	30.76	8.06	26.46	106.3	6.88	3.4	2.7
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS(Mf)6	13:23	2.4	Bottom	3	1	30.36	8.10	27.11	99.0	6.41	3.5	2.9
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS(Mf)6	13:24	2.4	Bottom	3	2	30.44	8.06	27.04	104.4	6.74	3.5	3.4
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS7	13:31	1.0	Surface	1	1	30.21	8.15	26.63	116.6	7.59	2.8	2.2
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS7	13:31	1.0	Surface	1	2	30.68	8.16	26.24	111.5	7.22	2.9	2.3
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS7	13:31	2.2	Bottom	3	1	29.99	8.16	26.93	105.0	6.85	2.8	4.3
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS7	13:31	2.2	Bottom	3	2	30.29	8.13	26.64	114.4	7.43	2.9	4.2
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS8	13:56	1.0	Surface	1	1	30.23	8.19	26.23	114.1	7.44	4.2	2.3
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS8	13:56	1.0	Surface	1	2	30.15	8.15	26.00	110.4	7.20	4.3	3.2
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS8	13:56	3.1	Bottom	3	1	30.16	8.15	26.47	105.4	6.89	4.4	3.3
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS8	13:56	3.1	Bottom	3	2	30.05	8.12	26.70	103.1	6.72	4.4	4.4
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS(Mf)9	13:38	1.0	Surface	1	1	30.49	8.14	25.90	123.2	8.02	2.8	2.3
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS(Mf)9	13:39	1.0	Surface	1	2	30.54	8.15	25.89	126.2	8.20	2.8	2.1
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS(Mf)9	13:38	2.7	Bottom	3	1	30.21	8.14	26.48	111.6	7.27	2.9	2.8
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS(Mf)9	13:39	2.7	Bottom	3	2	30.36	8.15	26.21	120.7	7.85	2.7	4.3
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS10(N)	14:06	1.0	Surface	1	1	29.91	8.30	22.43	100.4	6.72	6.9	3.0
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS10(N)	14:06	1.0	Surface	1	2	29.91	8.30	22.42	99.4	6.66	6.9	4.1
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS10(N)	14:05	5.1	Middle	2	1	29.51	8.26	23.12	92.5	6.21	6.9	4.3
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS10(N)	14:06	5.1	Middle	2	2	29.52	8.26	23.07	92.3	6.20	7.0	4.9
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS10(N)	14:05	9.2	Bottom	3	1	29.10	8.18	24.27	89.3	5.99	7.2	5.3
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	IS10(N)	14:06	9.2	Bottom	3	2	29.11	8.19	24.23	89.5	6.01	7.4	6.9
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR3(N)	13:08	1.0	Surface	1	1	30.74	8.09	26.49	103.1	6.66	3.3	5.0
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR3(N)	13:08	1.0	Surface	1	2	30.75	8.08	26.23	102.2	6.61	3.4	5.8
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR3(N)	13:08	2.4	Bottom	3	1	30.60	8.08	26.39	102.2	6.62	3.5	7.8
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR3(N)	13:08	2.4	Bottom	3	2	30.30	8.08	26.04	98.9	6.45	3.5	6.3
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR4(N)	13:49	1.0	Surface	1	1	30.44	8.15	25.61	99.0	6.45	5.1	5.8
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR4(N)	13:49	1.0	Surface	1	2	30.34	8.14	25.73	101.4	6.62	5.3	7.5
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR4(N)	13:49	2.6	Bottom	3	1	30.40	8.14	25.69	100.0	6.52	5.1	7.4
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR4(N)	13:49	2.6	Bottom	3	2	30.23	8.15	25.81	96.4	6.30	5.1	6.6
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR5(N)	13:52	1.0	Surface	1	1	29.86	8.29	22.47	99.0	6.63	5.9	3.2
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR5(N)	13:51	1.0	Surface	1	2	29.89	8.29	22.43	98.3	6.58	6.1	3.9
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR5(N)	13:52	4.0	Middle	2	1	29.48	8.25	23.19	90.8	6.10	6.6	4.6
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR5(N)	13:51	4.0	Middle	2	2	29.46	8.24	23.27	90.2	6.05	6.8	3.7
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR5(N)	13:52	6.9	Bottom	3	1	29.09	8.17	24.35	88.3	5.93	7.1	5.5
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR5(N)	13:51	6.9	Bottom	3	2	29.12	8.17	24.47	87.5	5.87	7.2	4.2
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR10A(N)	14:40	1.0	Surface	1	1	29.75	8.40	24.22	115.2	7.66	4.5	1.2
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR10A(N)	14:41	1.0	Surface	1	2	29.89	8.41	23.96	117.0	7.77	4.3	1.4
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR10A(N)	14:41	6.6	Middle	2	1	29.71	8.39	24.34	114.7	7.62	4.7	1.3
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR10A(N)	14:39	6.6	Middle	2	2	29.64	8.39	24.51	114.2	7.59	4.8	1.9
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR10A(N)	14:39	12.2	Bottom	3	1	29.59	8.39	24.63	113.6	7.55	5.0	1.8
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR10A(N)	14:40	12.2	Bottom	3	2	29.56	8.38	24.71	113.8	7.57	4.8	2.4
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR10B(N2)	14:53	1.0	Surface	1	1	29.91	8.41	24.00	120.1	7.97	4.3	1.3
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR10B(N2)	14:54	1.0	Surface	1	2	29.84	8.40	24.17	119.3	7.92	4.2	1.0
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR10B(N2)	14:52	3.8	Middle	2	1	29.89	8.41	24.03	118.2	7.85	4.6	1.5
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR10B(N2)	14:54	3.8	Middle	2	2	29.74	8.39	24.41	117.3	7.79	4.5	1.1
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR10B(N2)	14:52	6.5	Bottom	3	1	29.70	8.39	24.43	117.0	7.77	5.2	1.7
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	SR10B(N2)	14:53	6.5	Bottom	3	2	29.68	8.38	24.57	116.9	7.76	5.0	1.5
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	CS2(A)	13:04	1.0	Surface	1	1	28.69	8.30	23.69	95.1	6.45	5.8	2.3
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	CS2(A)	13:03	1.0	Surface	1	2	28.74	8.30	24.08	94.7	6.40	5.7	3.2
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	CS2(A)	13:03	3.7	Middle	2	1	28.24	8.23	26.50	88.0	5.92	6.3	3.0
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	CS2(A)	13:04	3.7	Middle	2	2	28.74	8.28	26.24	90.1	6.02	6.2	4.0

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	2018-06-01	Mid-Ebb	Sunny	CS2(A)	13:02	6.4	Bottom	3	1	27.00	8.16	29.60	84.1	5.68	6.5	4.2
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	CS2(A)	13:03	6.4	Bottom	3	2	26.98	8.15	29.65	84.0	5.67	6.4	3.9
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	CS(Mf)5	14:23	1.0	Surface	1	1	30.01	8.00	25.30	88.4	5.82	4.1	1.8
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	CS(Mf)5	14:24	1.0	Surface	1	2	29.90	8.06	25.44	87.5	5.76	4.0	1.5
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	CS(Mf)5	14:23	6.1	Middle	2	1	28.94	7.78	27.66	82.7	5.49	4.2	1.8
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	CS(Mf)5	14:24	6.1	Middle	2	2	29.07	7.90	27.76	85.4	5.63	4.2	1.6
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	CS(Mf)5	14:23	11.2	Bottom	3	1	27.47	7.87	32.37	80.0	5.27	4.2	2.0
HKLR	HY/2011/03	2018-06-01	Mid-Ebb	Sunny	CS(Mf)5	14:22	11.2	Bottom	3	2	27.32	7.74	31.77	77.6	5.13	4.1	2.2
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS5	8:25	1.0	Surface	1	15	29.92	8.15	25.91	97.7	6.41	4.6	3.8
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS5	8:25	1.0	Surface	1	2	29.89	8.14	25.92	95.9	6.30	4.9	4.1
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS5	8:25	4.5	Middle	2	1	29.85	8.13	26.02	96.6	6.35	4.6	4.3
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS5	8:25	4.5	Middle	2	2	29.83	8.12	26.04	95.8	6.29	4.8	2.9
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS5	8:25	7.9	Bottom	3	1	29.82	8.12	26.13	96.0	6.31	5.2	4.9
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS5	8:24	7.9	Bottom	3	2	29.78	8.10	26.11	95.1	6.25	5.1	3.1
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS(Mf)6	8:17	1.0	Surface	1	1	30.01	8.16	25.84	95.5	6.26	4.4	3.2
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS(Mf)6	8:17	1.0	Surface	1	2	29.93	8.17	25.73	96.5	6.34	4.2	3.7
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS(Mf)6	8:17	2.4	Bottom	3	1	29.99	8.11	25.99	94.9	6.22	4.5	9.0
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS(Mf)6	8:17	2.4	Bottom	3	2	30.02	8.14	25.99	96.6	6.33	4.4	9.4
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS7	8:10	1.0	Surface	1	1	29.69	8.11	25.61	91.8	6.06	3.7	1.5
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS7	8:10	1.0	Surface	1	2	29.68	8.12	25.58	92.0	6.07	3.6	1.2
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS7	8:10	2.3	Bottom	3	1	29.69	8.09	25.75	93.6	6.17	3.8	3.1
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS7	8:10	2.3	Bottom	3	2	29.70	8.11	25.68	91.8	6.06	3.8	2.1
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS8	7:44	1.0	Surface	1	1	29.50	8.07	24.47	90.5	6.03	3.4	1.2
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS8	7:44	1.0	Surface	1	2	29.50	8.07	24.51	88.2	5.87	3.5	1.4
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS8	7:44	3.1	Bottom	3	1	29.44	8.06	24.77	92.5	6.16	3.5	1.4
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS8	7:44	3.1	Bottom	3	2	29.49	8.07	24.69	89.1	5.93	3.6	1.9
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS(Mf)9	8:01	1.0	Surface	1	1	29.79	8.11	25.36	96.3	6.36	3.4	2.1
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS(Mf)9	8:01	1.0	Surface	1	2	29.76	8.11	25.13	95.9	6.34	3.6	1.4
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS(Mf)9	8:01	2.8	Bottom	3	1	29.86	8.10	25.74	96.4	6.34	4.6	2.0
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS(Mf)9	8:01	2.8	Bottom	3	2	29.82	8.11	25.52	96.2	6.34	4.6	2.6
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS10(N)	7:46	1.0	Surface	1	1	29.45	8.24	23.13	90.3	6.06	3.8	2.8
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS10(N)	7:47	1.0	Surface	1	2	29.44	8.24	23.19	90.1	6.05	3.7	3.1
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS10(N)	7:46	5.3	Middle	2	1	29.37	8.24	23.52	88.4	5.94	4.4	3.4
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS10(N)	7:45	5.3	Middle	2	2	29.38	8.24	23.49	88.3	5.93	4.3	3.8
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS10(N)	7:45	9.5	Bottom	3	1	29.02	8.22	25.01	86.8	5.81	5.7	5.6
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	IS10(N)	7:46	9.5	Bottom	3	2	28.99	8.22	25.13	86.6	5.80	5.8	4.4
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR3(N)	8:33	1.0	Surface	1	1	29.87	8.08	25.95	94.8	6.22	4.5	2.7
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR3(N)	8:33	1.0	Surface	1	2	29.85	8.08	25.99	94.6	6.21	4.4	3.2
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR3(N)	8:33	2.4	Bottom	3	1	29.85	8.08	26.00	94.7	6.22	4.5	4.8
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR3(N)	8:33	2.4	Bottom	3	2	29.83	8.08	25.99	94.7	6.22	4.5	2.8
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR4(N)	7:51	1.0	Surface	1	1	29.58	8.07	24.58	88.0	5.85	4.8	5.3
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR4(N)	7:51	1.0	Surface	1	2	29.58	8.06	24.51	89.7	5.97	5.1	3.9
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR4(N)	7:50	2.8	Bottom	3	1	29.56	8.06	24.47	92.1	6.13	5.0	4.9
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR4(N)	7:51	2.8	Bottom	3	2	29.58	8.06	24.52	89.0	5.92	4.8	6.8
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR5(N)	8:01	1.0	Surface	1	1	29.69	8.24	21.64	91.1	6.14	3.2	2.9
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR5(N)	8:00	1.0	Surface	1	2	29.52	8.25	22.57	90.7	6.10	3.2	2.3
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR5(N)	7:59	4.1	Middle	2	1	29.40	8.24	23.37	89.1	5.98	3.4	4.1
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR5(N)	8:00	4.1	Middle	2	2	29.43	8.25	23.23	89.8	6.03	3.3	2.9
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR5(N)	7:59	7.1	Bottom	3	1	29.02	8.22	25.15	87.6	5.86	3.6	3.4
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR5(N)	8:00	7.1	Bottom	3	2	29.25	8.24	24.09	88.4	5.92	3.5	4.1
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR10A(N)	6:58	1.0	Surface	1	1	29.15	8.23	23.94	88.5	5.95	2.5	1.1
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR10A(N)	6:59	1.0	Surface	1	2	29.15	8.23	23.97	88.4	5.94	2.6	1.5
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR10A(N)	6:58	6.8	Middle	2	1	28.69	8.21	25.57	85.7	5.75	2.6	1.4
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR10A(N)	6:59	6.8	Middle	2	2	28.68	8.21	25.61	85.4	5.73	2.6	1.6
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR10A(N)	6:58	12.6	Bottom	3	1	28.63	8.20	25.78	85.2	5.71	3.1	1.8
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR10A(N)	6:57	12.6	Bottom	3	2	28.65	8.20	25.72	85.2	5.72	3.2	2.0
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR10B(N2)	6:42	1.0	Surface	1	1	29.17	8.22	23.96	89.8	6.03	2.2	2.6
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR10B(N2)	6:43	1.0	Surface	1	2	29.15	8.23	23.95	88.8	5.97	2.3	2.4

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	2018-06-01	Mid-Flood	Sunny	SR10B(N2)	6:43	4.1	Middle	2	1	28.79	8.21	25.30	86.2	5.78	2.7	3.2
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR10B(N2)	6:42	4.1	Middle	2	2	29.04	8.22	24.35	87.4	5.87	2.5	2.4
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR10B(N2)	6:42	7.1	Bottom	3	1	28.39	8.19	26.52	85.5	5.74	2.9	2.7
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	SR10B(N2)	6:41	7.1	Bottom	3	2	28.67	8.20	25.68	85.5	5.73	2.8	4.2
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	CS2(A)	8:51	1.0	Surface	1	1	29.13	8.23	22.03	91.1	6.19	4.0	1.6
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	CS2(A)	8:49	1.0	Surface	1	2	29.12	8.23	22.01	91.5	6.22	4.9	1.2
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	CS2(A)	8:49	3.9	Middle	2	1	29.10	8.23	22.79	89.7	6.07	5.2	1.3
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	CS2(A)	8:50	3.9	Middle	2	2	29.12	8.23	22.85	88.0	5.95	5.4	1.7
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	CS2(A)	8:50	6.8	Bottom	3	1	28.15	8.17	26.50	80.8	5.45	6.3	1.8
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	CS2(A)	8:48	6.8	Bottom	3	2	27.92	8.16	27.76	80.2	5.39	6.2	2.3
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	CS(Mf)5	7:15	1.0	Surface	1	1	29.55	8.08	24.53	80.1	5.33	3.3	1.8
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	CS(Mf)5	7:16	1.0	Surface	1	2	29.48	8.07	24.61	80.3	5.35	3.2	2.1
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	CS(Mf)5	7:16	6.1	Middle	2	1	28.98	8.03	27.11	76.9	5.09	3.4	2.4
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	CS(Mf)5	7:15	6.1	Middle	2	2	28.88	7.99	27.26	75.9	5.03	3.5	3.1
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	CS(Mf)5	7:15	11.1	Bottom	3	1	27.30	7.92	32.10	73.8	4.89	3.5	4.0
HKLR	HY/2011/03	2018-06-01	Mid-Flood	Sunny	CS(Mf)5	7:16	11.1	Bottom	3	2	27.35	7.95	31.99	76.3	5.05	3.5	2.6
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS5	15:08	1.0	Surface	1	1	28.74	7.60	27.49	87.5	5.81	2.5	3.1
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS5	15:07	1.0	Surface	1	2	28.74	7.61	27.47	83.8	5.56	2.4	4.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS5	15:07	4.3	Middle	2	1	28.57	7.57	27.98	83.8	5.56	2.4	4.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS5	15:07	4.3	Middle	2	2	28.56	7.58	27.97	83.3	5.52	2.5	2.8
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS5	15:07	7.5	Bottom	3	1	28.56	7.57	28.12	81.4	5.40	2.6	4.3
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS5	15:06	7.5	Bottom	3	2	28.53	7.58	28.01	81.5	5.41	2.5	5.0
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS(Mf)6	15:16	1.0	Surface	1	1	28.81	7.69	27.79	97.3	6.44	3.7	8.0
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS(Mf)6	15:16	1.0	Surface	1	2	28.82	7.69	27.94	98.5	6.51	3.5	8.3
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS(Mf)6	15:15	2.2	Bottom	3	1	28.79	7.67	27.75	96.2	6.37	3.5	11.3
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS(Mf)6	15:16	2.2	Bottom	3	2	28.81	7.68	27.98	98.1	6.48	3.5	9.4
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS7	15:25	1.0	Surface	1	1	29.03	7.75	27.34	109.9	7.26	3.9	8.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS7	15:26	1.0	Surface	1	2	29.03	7.76	27.38	115.6	7.64	3.9	6.1
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS7	15:26	2.2	Bottom	3	1	29.02	7.75	27.37	112.9	7.46	4.0	8.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS7	15:25	2.2	Bottom	3	2	29.00	7.74	27.33	102.4	6.77	3.9	8.9
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS8	15:54	1.0	Surface	1	1	29.02	7.71	27.28	109.3	7.22	4.5	7.4
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS8	15:54	1.0	Surface	1	2	29.02	7.72	27.32	110.1	7.28	4.4	6.4
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS8	15:54	3.0	Bottom	3	1	28.93	7.68	27.72	103.5	6.84	4.4	7.5
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS8	15:54	3.0	Bottom	3	2	28.79	7.63	27.90	98.9	6.54	4.5	7.6
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS(Mf)9	15:34	1.0	Surface	1	1	29.07	7.80	27.42	119.8	7.91	3.1	6.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS(Mf)9	15:34	1.0	Surface	1	2	29.09	7.81	27.44	123.0	8.12	3.1	7.6
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS(Mf)9	15:34	2.8	Bottom	3	1	29.04	7.79	27.54	109.1	7.20	3.2	8.0
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS(Mf)9	15:34	2.8	Bottom	3	2	29.08	7.81	27.47	115.8	7.65	3.1	8.4
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS10(N)	15:57	1.0	Surface	1	1	28.95	8.31	25.16	101.5	6.80	2.9	3.0
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS10(N)	15:58	1.0	Surface	1	2	28.94	8.31	25.18	101.5	6.80	3.0	3.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS10(N)	15:57	5.3	Middle	2	1	28.91	8.31	25.24	100.9	6.76	2.9	4.0
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS10(N)	15:58	5.3	Middle	2	2	28.92	8.31	25.23	100.9	6.76	3.0	3.0
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS10(N)	15:58	9.5	Bottom	3	1	28.85	8.29	25.50	100.6	6.74	3.2	4.8
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	IS10(N)	15:57	9.5	Bottom	3	2	28.80	8.28	25.73	100.5	6.73	3.3	4.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR3(N)	14:59	1.0	Surface	1	1	28.76	7.92	27.34	89.6	5.95	2.3	4.7
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR3(N)	14:59	1.0	Surface	1	2	28.76	7.92	27.32	91.0	6.04	2.2	4.3
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR3(N)	14:59	2.5	Bottom	3	1	28.75	7.94	27.43	90.8	6.02	2.5	5.1
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR3(N)	14:59	2.5	Bottom	3	2	28.72	7.91	27.45	90.3	5.99	2.4	6.0
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR4(N)	15:48	1.0	Surface	1	1	29.26	7.66	27.19	107.2	7.06	4.8	8.9
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR4(N)	15:48	1.0	Surface	1	2	29.27	7.66	27.23	110.3	7.27	4.8	8.1
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR4(N)	15:48	2.8	Bottom	3	1	29.21	7.67	27.17	98.8	6.52	4.8	7.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR4(N)	15:48	2.8	Bottom	3	2	29.26	7.66	27.21	104.6	6.89	4.9	9.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR5(N)	15:44	1.0	Surface	1	1	28.95	8.33	25.19	102.0	6.83	2.4	3.1
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR5(N)	15:45	1.0	Surface	1	2	28.95	8.32	25.19	102.3	6.85	2.3	4.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR5(N)	15:43	4.0	Middle	2	1	28.94	8.33	25.21	101.1	6.77	2.5	5.3
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR5(N)	15:45	4.0	Middle	2	2	28.94	8.32	25.24	101.4	6.79	2.6	4.3
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR5(N)	15:43	7.0	Bottom	3	1	28.91	8.32	25.28	99.8	6.69	3.1	4.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR5(N)	15:44	7.0	Bottom	3	2	28.93	8.32	25.28	99.1	6.64	3.2	5.2

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	2018-06-04	Mid-Ebb	Sunny	SR10A(N)	16:37	1.0	Surface	1	1	28.48	8.37	26.97	111.2	7.43	1.8	3.8
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR10A(N)	16:39	1.0	Surface	1	1	28.51	8.37	26.92	112.3	7.50	1.9	4.0
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR10A(N)	16:37	6.7	Middle	2	2	28.48	8.37	26.98	109.2	7.30	2.2	4.9
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR10A(N)	16:39	6.7	Middle	2	2	28.45	8.36	27.04	108.7	7.27	2.2	4.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR10A(N)	16:38	12.4	Bottom	3	1	28.17	8.32	27.37	105.0	7.04	2.3	4.1
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR10A(N)	16:37	12.4	Bottom	3	2	28.34	8.35	27.27	106.6	7.13	2.4	5.4
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR10B(N2)	16:54	1.0	Surface	1	1	28.50	8.37	26.95	108.9	7.28	2.1	3.3
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR10B(N2)	16:52	1.0	Surface	1	2	28.43	8.35	27.05	103.5	6.92	2.0	3.6
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR10B(N2)	16:52	3.8	Middle	2	1	28.33	8.34	27.26	100.5	6.72	2.2	3.4
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR10B(N2)	16:53	3.8	Middle	2	2	28.20	8.33	27.58	101.7	6.80	2.3	3.1
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR10B(N2)	16:52	6.5	Bottom	3	1	27.93	8.29	28.15	95.4	6.39	2.6	4.9
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	SR10B(N2)	16:53	6.5	Bottom	3	2	28.06	8.31	27.99	99.7	6.67	2.4	3.7
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	CS2(A)	14:59	1.0	Surface	1	1	28.34	8.32	27.28	89.6	5.99	2.5	6.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	CS2(A)	14:58	1.0	Surface	1	2	28.31	8.32	27.31	88.0	5.88	2.4	5.3
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	CS2(A)	14:58	3.8	Middle	2	1	27.80	8.30	29.05	82.1	5.48	3.4	6.1
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	CS2(A)	14:59	3.8	Middle	2	2	27.92	8.30	28.91	83.4	5.57	3.4	6.3
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	CS2(A)	14:58	6.6	Bottom	3	1	27.72	8.28	29.18	81.2	5.43	3.4	6.4
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	CS2(A)	14:57	6.6	Bottom	3	2	27.72	8.29	29.16	80.5	5.39	3.6	7.6
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	CS(Mf)5	16:20	1.0	Surface	1	1	28.27	7.85	28.05	83.8	5.55	2.4	7.2
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	CS(Mf)5	16:19	1.0	Surface	1	2	28.75	7.92	27.70	85.7	5.68	2.4	7.5
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	CS(Mf)5	16:19	6.1	Middle	2	1	27.98	7.77	29.61	82.6	5.49	2.4	7.1
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	CS(Mf)5	16:20	6.1	Middle	2	2	27.65	7.76	30.26	77.0	5.12	2.5	8.0
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	CS(Mf)5	16:19	11.2	Bottom	3	1	26.98	7.72	32.23	77.1	5.12	2.4	9.5
HKLR	HY/2011/03	2018-06-04	Mid-Ebb	Sunny	CS(Mf)5	16:19	11.2	Bottom	3	2	27.41	7.76	31.83	78.0	5.20	2.3	8.2
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS5	9:39	1.0	Surface	1	1	28.67	7.70	28.17	91.2	6.03	4.2	7.0
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS5	9:39	1.0	Surface	1	2	28.69	7.71	28.03	91.1	6.03	4.2	6.1
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS5	9:39	4.4	Middle	2	1	28.66	7.68	28.25	90.5	5.99	5.6	8.5
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS5	9:39	4.4	Middle	2	2	28.65	7.68	28.29	89.9	5.95	5.5	8.1
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS5	9:39	7.7	Bottom	3	1	28.64	7.67	28.32	89.6	5.93	5.3	9.3
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS5	9:39	7.7	Bottom	3	2	28.62	7.65	28.34	88.7	5.87	5.5	8.2
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS(Mf)6	9:31	1.0	Surface	1	1	28.69	7.76	28.04	97.3	6.44	4.6	9.7
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS(Mf)6	9:31	1.0	Surface	1	2	28.69	7.75	28.05	98.8	6.54	4.5	10.4
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS(Mf)6	9:31	2.2	Bottom	3	1	28.69	7.75	28.05	98.2	6.50	4.6	10.8
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS(Mf)6	9:31	2.2	Bottom	3	2	28.64	7.77	28.07	95.8	6.34	4.5	13.1
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS7	9:24	1.0	Surface	1	1	28.64	7.67	27.69	98.2	6.52	2.3	5.1
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS7	9:24	1.0	Surface	1	2	28.63	7.67	27.71	99.7	6.62	2.3	4.4
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS7	9:24	2.2	Bottom	3	1	28.63	7.67	27.71	99.0	6.57	2.2	4.9
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS7	9:24	2.2	Bottom	3	2	28.61	7.71	27.67	95.3	6.33	2.3	5.7
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS8	8:58	1.0	Surface	1	1	28.67	7.58	27.49	88.1	5.85	3.9	6.2
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS8	8:59	1.0	Surface	1	2	28.64	7.58	27.60	90.4	6.00	3.8	7.6
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS8	8:58	3.2	Bottom	3	1	28.57	7.52	27.80	87.3	5.80	4.5	7.8
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS8	8:58	3.2	Bottom	3	2	28.62	7.56	27.73	89.8	5.97	4.2	6.4
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS(Mf)9	9:16	1.0	Surface	1	1	28.68	7.57	27.75	95.2	6.32	2.7	6.1
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS(Mf)9	9:17	1.0	Surface	1	2	28.68	7.56	27.80	95.8	6.35	2.8	6.9
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS(Mf)9	9:16	2.8	Bottom	3	1	28.68	7.60	27.75	94.7	6.28	2.8	7.1
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS(Mf)9	9:17	2.8	Bottom	3	2	28.69	7.56	27.80	95.6	6.34	2.7	8.1
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS10(N)	9:21	1.0	Surface	1	1	28.99	8.22	23.82	89.7	6.05	2.5	3.2
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS10(N)	9:22	1.0	Surface	1	2	29.00	8.22	23.81	90.1	6.07	2.6	3.9
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS10(N)	9:21	5.4	Middle	2	1	28.88	8.23	24.09	88.2	5.95	2.8	3.9
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS10(N)	9:21	5.4	Middle	2	2	28.86	8.23	24.11	88.3	5.96	2.7	4.4
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS10(N)	9:20	9.8	Bottom	3	1	28.58	8.22	26.09	87.3	5.85	3.0	5.9
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	IS10(N)	9:21	9.8	Bottom	3	2	28.56	8.22	26.18	87.0	5.84	2.9	6.8
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR3(N)	9:48	1.0	Surface	1	1	28.68	7.61	27.76	88.9	5.90	1.4	3.6
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR3(N)	9:48	1.0	Surface	1	2	28.66	7.61	27.73	90.8	6.03	1.3	4.6
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR3(N)	9:48	2.4	Bottom	3	1	28.58	7.60	27.84	92.7	6.15	1.3	4.9
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR3(N)	9:48	2.4	Bottom	3	2	28.66	7.61	27.79	89.9	5.96	1.3	4.1
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR4(N)	9:06	1.0	Surface	1	1	28.66	7.64	27.89	84.2	5.58	3.5	4.3
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR4(N)	9:05	1.0	Surface	1	2	28.66	7.63	27.86	84.1	5.58	3.6	3.7

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	2018-06-04	Mid-Flood	Sunny	SR4(N)	9:05	2.9	Bottom	3	1	28.50	7.55	28.14	81.8	5.43	3.5	6.6
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR4(N)	9:05	2.9	Bottom	3	2	28.67	7.63	27.93	84.4	5.59	3.4	6.3
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR5(N)	9:31	1.0	Surface	1	1	29.01	8.21	23.80	90.2	6.08	2.2	2.9
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR5(N)	9:31	1.0	Surface	1	2	29.00	8.21	23.84	90.0	6.07	2.3	5.2
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR5(N)	9:31	4.2	Middle	2	1	28.92	8.22	23.99	88.2	5.95	2.3	5.8
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR5(N)	9:30	4.2	Middle	2	2	28.89	8.23	24.07	88.4	5.97	2.2	5.0
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR5(N)	9:31	7.3	Bottom	3	1	28.52	8.21	26.35	86.9	5.83	2.6	5.5
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR5(N)	9:30	7.3	Bottom	3	2	28.51	8.22	26.32	87.2	5.85	2.5	7.1
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR10A(N)	8:33	1.0	Surface	1	1	27.97	8.19	27.58	82.2	5.52	2.3	7.0
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR10A(N)	8:32	1.0	Surface	1	2	27.89	8.18	27.84	81.8	5.50	2.2	6.3
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR10A(N)	8:31	6.9	Middle	2	1	27.78	8.18	28.15	79.8	5.36	2.5	6.3
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR10A(N)	8:33	6.9	Middle	2	2	27.82	8.18	28.02	80.5	5.41	2.4	7.4
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR10A(N)	8:32	12.7	Bottom	3	1	27.72	8.18	28.32	80.0	5.38	2.5	7.7
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR10A(N)	8:31	12.7	Bottom	3	2	27.69	8.17	28.41	79.8	5.36	2.7	8.7
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR10B(N2)	8:15	1.0	Surface	1	1	27.88	8.16	27.81	81.8	5.49	2.3	3.2
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR10B(N2)	8:16	1.0	Surface	1	2	27.91	8.17	27.73	80.9	5.44	2.2	3.8
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR10B(N2)	8:16	4	Middle	2	1	27.77	8.16	28.17	78.9	5.30	2.3	4.8
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR10B(N2)	8:15	4	Middle	2	2	27.77	8.14	28.18	79.0	5.31	2.3	5.6
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR10B(N2)	8:15	7.0	Bottom	3	1	27.72	8.14	28.36	78.6	5.28	2.6	5.2
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	SR10B(N2)	8:16	7.0	Bottom	3	2	27.61	8.14	28.70	78.2	5.25	2.4	6.3
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	CS2(A)	10:17	1.0	Surface	1	1	28.62	8.26	25.72	89.9	6.04	2.0	3.6
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	CS2(A)	10:18	1.0	Surface	1	2	28.61	8.26	25.70	89.8	6.03	2.1	3.9
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	CS2(A)	10:17	4.0	Middle	2	1	28.54	8.26	25.80	88.1	5.92	2.5	4.9
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	CS2(A)	10:18	4.0	Middle	2	2	28.55	8.26	25.83	88.1	5.92	2.4	4.5
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	CS2(A)	10:17	7.0	Bottom	3	1	28.22	8.24	27.35	86.9	5.82	2.5	5.0
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	CS2(A)	10:17	7.0	Bottom	3	2	28.11	8.24	27.74	87.3	5.84	2.6	6.2
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	CS(Mf)5	8:32	1.0	Surface	1	1	28.43	7.59	27.39	78.8	5.25	1.7	3.1
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	CS(Mf)5	8:33	1.0	Surface	1	2	28.47	7.62	27.32	78.3	5.22	1.8	3.9
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	CS(Mf)5	8:33	6.3	Middle	2	1	28.12	7.57	28.36	77.5	5.17	1.7	5.1
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	CS(Mf)5	8:32	6.3	Middle	2	2	28.16	7.55	28.21	75.2	5.02	1.6	4.2
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	CS(Mf)5	8:32	11.6	Bottom	3	1	27.61	7.51	30.21	74.1	4.94	1.6	6.5
HKLR	HY/2011/03	2018-06-04	Mid-Flood	Sunny	CS(Mf)5	8:33	11.6	Bottom	3	2	27.54	7.54	30.39	74.9	4.99	1.6	7.0
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS5			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS5			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS5			Middle	2	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS5			Middle	2	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS5			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS5			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS(Mf)6			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS(Mf)6			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS(Mf)6			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS(Mf)6			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS7			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS7			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS7			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS7			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS8			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS8			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS8			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS8			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS(Mf)9			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS(Mf)9			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS(Mf)9			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS(Mf)9			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS10(N)			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS10(N)			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS10(N)			Middle	2	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS10(N)			Middle	2	2							

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	2018-06-06	Mid-Ebb	Sunny	IS10(N)			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	IS10(N)			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR3(N)			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR3(N)			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR3(N)			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR3(N)			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR4(N)			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR4(N)			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR4(N)			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR4(N)			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR5(N)			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR5(N)			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR5(N)			Middle	2	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR5(N)			Middle	2	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR5(N)			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR5(N)			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR10A(N)			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR10A(N)			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR10A(N)			Middle	2	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR10A(N)			Middle	2	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR10A(N)			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR10A(N)			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR10B(N2)			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR10B(N2)			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR10B(N2)			Middle	2	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR10B(N2)			Middle	2	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR10B(N2)			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	SR10B(N2)			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	CS2(A)			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	CS2(A)			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	CS2(A)			Middle	2	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	CS2(A)			Middle	2	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	CS2(A)			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	CS2(A)			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	CS(Mf)5			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	CS(Mf)5			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	CS(Mf)5			Middle	2	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	CS(Mf)5			Middle	2	2							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	CS(Mf)5			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Ebb	Sunny	CS(Mf)5			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS5			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS5			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS5			Middle	2	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS5			Middle	2	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS5			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS5			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS(Mf)6			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS(Mf)6			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS(Mf)6			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS(Mf)6			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS7			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS7			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS7			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS7			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS8			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS8			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS8			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS8			Bottom	3	2							

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	2018-06-06	Mid-Flood	Sunny	IS(Mf)9			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS(Mf)9			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS(Mf)9			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS(Mf)9			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS10(N)			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS10(N)			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS10(N)			Middle	2	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS10(N)			Middle	2	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS10(N)			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	IS10(N)			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR3(N)			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR3(N)			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR3(N)			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR3(N)			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR4(N)			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR4(N)			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR4(N)			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR4(N)			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR5(N)			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR5(N)			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR5(N)			Middle	2	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR5(N)			Middle	2	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR5(N)			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	SR5(N)			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Rainy	SR10A(N)	10:14	1.0	Surface	1	1	27.48	8.13	28.00	80.2	5.42	1.0	4.2
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Rainy	SR10A(N)	10:13	1.0	Surface	1	2	27.48	8.12	28.01	80.8	5.46	1.1	4.9
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Rainy	SR10A(N)	10:13	3.7	Middle	2	1	27.46	8.12	28.42	78.5	5.30	1.2	5.9
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Rainy	SR10A(N)	10:14	3.7	Middle	2	2	27.45	8.12	28.44	78.4	5.29	1.3	6.8
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Rainy	SR10A(N)	10:12	6.4	Bottom	3	1	27.42	8.11	28.78	77.5	5.22	1.8	6.6
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Rainy	SR10A(N)	10:13	6.4	Bottom	3	2	27.39	8.10	28.79	77.9	5.24	2.0	6.9
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Rainy	SR10B(N2)	10:25	1.0	Surface	1	1	27.47	8.15	28.07	78.5	5.30	1.4	3.8
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Rainy	SR10B(N2)	10:26	1.0	Surface	1	2	27.46	8.16	28.09	77.7	5.25	1.3	4.3
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Rainy	SR10B(N2)	10:25	7	Middle	2	1	27.39	8.13	28.78	76.2	5.13	1.8	4.4
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Rainy	SR10B(N2)	10:26	7	Middle	2	2	27.41	8.15	28.72	76.0	5.12	1.9	4.6
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Rainy	SR10B(N2)	10:26	13.0	Bottom	3	1	27.27	8.14	29.43	77.2	5.19	2.4	5.2
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Rainy	SR10B(N2)	10:24	13.0	Bottom	3	2	27.26	8.12	29.49	77.6	5.21	2.6	6.2
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	CS2(A)			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	CS2(A)			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	CS2(A)			Middle	2	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	CS2(A)			Middle	2	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	CS2(A)			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	CS2(A)			Bottom	3	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	CS(Mf)5			Surface	1	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	CS(Mf)5			Surface	1	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	CS(Mf)5			Middle	2	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	CS(Mf)5			Middle	2	2							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	CS(Mf)5			Bottom	3	1							
HKLR	HY/2011/03	2018-06-06	Mid-Flood	Sunny	CS(Mf)5			Bottom	3	2							
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	ISS	12:10	1.0	Surface	1	1	29.09	8.02	19.92	78.1	5.37	3.4	3.1
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	ISS	12:10	1.0	Surface	1	2	29.11	8.02	19.69	79.1	5.45	3.4	4.3
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	ISS	12:10	4.4	Middle	2	1	28.30	7.99	29.50	78.6	5.17	4.3	4.2
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	ISS	12:10	4.4	Middle	2	2	28.42	8.00	28.22	79.1	5.21	4.4	2.9
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	ISS	12:10	7.7	Bottom	3	1	28.49	7.99	29.64	75.4	4.99	4.5	4.8
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	ISS	12:10	7.7	Bottom	3	2	28.30	8.00	29.92	73.4	4.87	4.5	3.2
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS(Mf)6	11:57	1.0	Surface	1	1	29.55	8.03	18.13	93.3	6.43	2.4	5.3
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS(Mf)6	11:57	1.0	Surface	1	2	29.65	8.02	18.92	95.5	6.55	2.5	5.1
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS(Mf)6	11:56	2.0	Bottom	3	1	29.55	8.02	21.65	94.1	6.36	2.5	4.6
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS(Mf)6	11:57	2.0	Bottom	3	2	29.13	7.99	22.49	92.9	6.30	2.5	5.6

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	2018-06-11	Mid-Ebb	Sunny	IS7	11:47	1.0	Surface	1	1	29.15	7.96	18.83	85.9	5.94	8.4	3.6
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS7	11:47	1.0	Surface	2	1	29.14	7.96	19.74	86.4	5.95	8.2	4.4
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS7	11:47	2.1	Bottom	3	1	29.05	7.95	20.05	86.1	5.92	8.5	4.3
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS7	11:47	2.1	Bottom	3	2	29.00	7.96	20.02	86.2	5.94	8.5	5.4
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS8	11:20	1.0	Surface	1	1	29.28	8.04	17.47	87.7	6.09	2.8	3.6
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS8	11:20	1.0	Surface	1	2	29.08	8.02	17.30	83.7	5.84	3.0	3.3
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS8	11:20	3.1	Bottom	3	1	28.88	7.98	21.48	86.1	5.89	2.9	5.0
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS8	11:20	3.1	Bottom	3	2	29.13	8.00	21.57	86.0	5.86	2.7	4.0
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS(Mf)9	11:38	1.0	Surface	1	1	29.16	7.99	19.28	88.5	6.10	2.5	4.8
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS(Mf)9	11:39	1.0	Surface	1	2	29.06	7.96	19.51	84.0	5.80	2.4	4.7
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS(Mf)9	11:38	2.5	Bottom	3	1	29.22	8.01	19.02	89.8	6.19	2.5	4.0
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS(Mf)9	11:39	2.5	Bottom	3	2	28.98	7.95	22.28	86.4	5.87	2.5	4.7
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS10(N)	11:26	1.0	Surface	1	1	28.94	8.11	14.99	77.2	5.47	4.6	4.7
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS10(N)	11:27	1.0	Surface	1	2	28.88	8.12	14.92	76.3	5.40	4.5	5.1
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS10(N)	11:25	5.2	Middle	2	1	28.14	8.07	22.33	74.7	5.14	5.8	4.6
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS10(N)	11:26	5.2	Middle	2	2	28.10	8.08	22.42	74.0	5.11	6.1	4.8
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS10(N)	11:25	9.4	Bottom	3	1	27.55	8.08	27.99	74.9	5.06	6.9	4.6
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	IS10(N)	11:26	9.4	Bottom	3	2	27.63	8.07	28.03	74.2	5.00	7.3	4.7
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR3(N)	12:19	1.0	Surface	1	1	29.42	8.04	18.68	92.6	6.38	3.1	4.1
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR3(N)	12:19	1.0	Surface	1	2	29.37	8.03	18.67	92.9	6.40	3.2	3.5
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR3(N)	12:19	2.4	Bottom	3	1	29.35	8.02	20.57	93.3	6.37	3.4	4.3
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR3(N)	12:19	2.4	Bottom	3	2	29.16	8.04	19.82	92.0	6.32	3.3	4.4
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR4(N)	11:26	1.0	Surface	1	1	29.25	7.97	16.51	82.0	5.74	5.4	9.5
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR4(N)	11:26	1.0	Surface	1	2	29.23	7.99	16.96	83.9	5.86	5.2	9.4
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR4(N)	11:26	2.8	Bottom	3	1	29.10	8.01	18.28	86.9	6.03	5.4	12.6
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR4(N)	11:26	2.8	Bottom	3	2	29.17	7.96	17.84	83.3	5.79	5.4	13.3
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR5(N)	11:35	1.0	Surface	1	1	28.69	8.07	16.58	80.2	5.64	5.5	7.0
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR5(N)	11:36	1.0	Surface	1	2	28.71	8.08	16.53	79.9	5.63	5.7	7.3
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR5(N)	11:35	4.1	Middle	2	1	28.36	8.09	22.28	75.6	5.19	6.3	3.9
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR5(N)	11:36	4.1	Middle	2	2	28.37	8.09	22.26	74.4	5.11	6.0	3.4
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR5(N)	11:36	7.2	Bottom	3	1	28.25	8.09	22.67	77.8	5.33	6.6	2.9
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR5(N)	11:34	7.2	Bottom	3	2	28.22	8.09	22.84	78.8	5.41	6.8	4.0
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR10A(N)	10:14	1.0	Surface	1	1	28.53	8.18	20.42	89.6	6.19	2.0	3.9
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR10A(N)	10:15	1.0	Surface	1	2	28.54	8.18	20.51	88.9	6.15	1.8	4.4
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR10A(N)	10:13	6.9	Middle	2	1	28.28	8.18	21.94	85.0	5.86	2.4	3.8
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR10A(N)	10:14	6.9	Middle	2	2	28.28	8.18	21.96	85.2	5.87	2.3	4.5
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR10A(N)	10:13	12.8	Bottom	3	1	27.79	8.17	26.73	83.8	5.67	2.7	3.1
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR10A(N)	10:14	12.8	Bottom	3	2	27.84	8.16	26.79	83.3	5.63	2.7	3.8
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR10B(N2)	10:06	1.0	Surface	1	1	28.39	8.19	22.00	86.4	5.95	2.3	5.2
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR10B(N2)	10:07	1.0	Surface	1	2	28.37	8.18	22.07	86.0	5.91	2.4	6.0
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR10B(N2)	10:07	3.6	Middle	2	1	28.27	8.19	22.62	83.4	5.72	2.7	8.9
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR10B(N2)	10:06	3.6	Middle	2	2	28.30	8.20	22.55	84.1	5.77	2.8	8.2
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR10B(N2)	10:05	6.2	Bottom	3	1	27.70	8.19	29.98	84.2	5.61	3.5	9.0
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	SR10B(N2)	10:06	6.2	Bottom	3	2	27.68	8.19	29.97	83.0	5.55	3.6	9.5
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	CS2(A)	12:30	1.0	Surface	1	1	29.32	8.15	16.14	83.2	5.82	3.0	3.4
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	CS2(A)	12:29	1.0	Surface	1	2	29.26	8.14	16.19	84.4	5.90	2.9	2.5
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	CS2(A)	12:28	3.8	Middle	2	1	28.40	8.20	23.14	77.6	5.26	3.4	3.1
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	CS2(A)	12:30	3.8	Middle	2	2	28.48	8.18	23.11	76.2	5.20	3.5	2.5
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	CS2(A)	12:29	6.6	Bottom	3	1	28.18	8.15	28.37	81.3	5.42	4.7	3.5
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	CS2(A)	12:28	6.6	Bottom	3	2	28.15	8.17	28.38	81.7	5.45	4.8	4.1
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	CS(Mf)5	10:50	1.0	Surface	1	1	28.64	8.04	20.49	78.1	5.39	1.5	5.3
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	CS(Mf)5	10:50	1.0	Surface	1	2	28.66	8.04	20.54	79.8	5.51	1.5	4.5
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	CS(Mf)5	10:50	6.1	Middle	2	1	27.96	8.06	23.89	74.9	5.14	1.7	5.7
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	CS(Mf)5	10:49	6.1	Middle	2	2	27.82	8.07	25.33	79.4	5.27	1.8	4.7
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	CS(Mf)5	10:50	11.1	Bottom	3	1	27.94	8.03	30.36	74.7	5.13	1.8	8.1
HKLR	HY/2011/03	2018-06-11	Mid-Ebb	Sunny	CS(Mf)5	10:49	11.1	Bottom	3	2	27.67	8.06	30.61	75.4	5.14	1.8	7.3
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS5	16:13	1.0	Surface	1	1	29.98	7.79	18.37	90.9	6.21	2.5	4.7
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS5	16:13	1.0	Surface	1	2	29.87	7.78	18.32	90.9	6.22	2.4	4.3

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	2018-06-11	Mid-Flood	Sunny	IS5	16:13	4.2	Middle	2	1	29.23	7.75	21.10	85.9	5.81	5.4	5.9
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS5	16:13	4.2	Middle	2	2	29.14	7.74	21.16	92.5	6.18	5.5	5.7
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS5	16:13	7.4	Bottom	3	1	29.47	7.74	24.00	87.5	5.97	5.9	5.3
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS5	16:12	7.4	Bottom	3	2	28.74	7.73	24.07	83.5	5.70	5.7	6.4
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS(Mf)6	16:23	1.0	Surface	1	1	29.96	7.81	18.21	101.9	6.97	3.8	5.9
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS(Mf)6	16:23	1.0	Surface	1	2	30.03	7.81	18.20	102.1	6.98	3.7	6.2
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS(Mf)6	16:22	2.0	Bottom	3	1	29.11	7.76	21.44	91.9	6.26	3.8	6.0
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS(Mf)6	16:23	2.0	Bottom	3	2	29.74	7.77	20.81	99.8	6.76	3.7	7.2
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS7	16:33	1.0	Surface	1	1	29.77	7.84	19.41	97.0	6.61	5.4	4.5
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS7	16:34	1.0	Surface	1	2	29.36	7.80	19.90	96.2	6.59	5.2	5.7
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS7	16:34	2.1	Bottom	3	1	29.21	7.79	20.50	95.4	6.53	5.3	4.7
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS7	16:33	2.1	Bottom	3	2	29.15	7.83	20.72	92.4	6.32	5.2	4.9
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS8	17:02	1.0	Surface	1	1	29.43	8.00	18.89	92.3	6.35	4.4	4.7
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS8	17:02	1.0	Surface	1	2	29.38	7.97	18.99	93.4	6.43	4.5	3.2
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS8	17:01	3.3	Bottom	3	1	28.86	8.02	22.35	92.1	6.28	4.5	6.0
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS8	17:02	3.3	Bottom	3	2	29.09	7.95	22.72	94.1	6.38	4.5	4.0
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS(Mf)9	16:43	1.0	Surface	1	1	29.65	7.97	19.08	94.6	6.48	5.8	7.0
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS(Mf)9	16:43	1.0	Surface	1	2	29.64	7.99	18.76	93.0	6.38	5.7	8.2
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS(Mf)9	16:42	2.6	Bottom	3	1	28.99	7.93	22.42	91.4	6.21	5.7	8.6
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS(Mf)9	16:43	2.6	Bottom	3	2	29.09	7.92	23.02	94.4	6.38	5.8	8.4
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS10(N)	16:56	1.0	Surface	1	1	29.35	8.22	16.58	99.2	6.91	5.4	4.0
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS10(N)	16:55	1.0	Surface	1	2	29.33	8.22	16.63	98.9	6.89	5.6	4.8
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS10(N)	16:56	5.3	Middle	2	1	28.70	8.17	20.52	84.6	5.84	6.3	4.1
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS10(N)	16:54	5.3	Middle	2	2	28.73	8.17	20.38	84.5	5.84	6.2	4.5
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS10(N)	16:54	9.6	Bottom	3	1	28.09	8.13	24.82	87.3	5.95	6.6	5.2
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	IS10(N)	16:55	9.6	Bottom	3	2	28.14	8.12	24.86	88.1	5.99	6.9	4.7
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR3(N)	16:03	1.0	Surface	1	1	29.84	7.93	18.35	97.1	6.65	3.1	6.3
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR3(N)	16:02	1.0	Surface	1	2	29.68	7.92	20.11	95.9	6.53	3.1	6.1
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR3(N)	16:02	2.4	Bottom	3	1	29.22	7.91	21.55	95.5	6.50	3.1	4.1
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR3(N)	16:02	2.4	Bottom	3	2	29.31	7.90	21.45	94.8	6.44	3.1	4.8
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR4(N)	16:56	1.0	Surface	1	1	30.18	8.03	17.59	102.1	6.97	3.4	5.0
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR4(N)	16:56	1.0	Surface	1	2	30.20	8.03	17.58	103.9	7.11	3.5	5.0
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR4(N)	16:56	2.7	Bottom	3	1	28.94	8.01	21.78	96.7	6.62	3.4	4.4
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR4(N)	16:55	2.7	Bottom	3	2	28.90	7.97	21.88	94.3	6.44	3.4	4.7
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR5(N)	16:48	1.0	Surface	1	1	29.22	8.19	16.79	92.6	6.46	5.1	5.6
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR5(N)	16:47	1.0	Surface	1	2	29.26	8.20	16.67	93.3	6.52	5.0	4.8
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR5(N)	16:48	4.2	Middle	2	1	28.59	8.13	21.42	77.5	5.34	6.0	6.2
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR5(N)	16:46	4.2	Middle	2	2	28.60	8.15	21.32	78.2	5.38	6.3	4.7
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR5(N)	16:47	7.4	Bottom	3	1	28.13	8.09	24.66	80.2	5.47	7.2	5.8
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR5(N)	16:46	7.4	Bottom	3	2	28.15	8.12	24.68	81.4	5.54	7.1	5.8
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR10A(N)	17:53	1.0	Surface	1	1	28.15	8.24	25.27	81.4	5.52	2.8	2.2
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR10A(N)	17:54	1.0	Surface	1	2	28.18	8.24	25.37	81.4	5.51	2.6	3.1
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR10A(N)	17:54	7	Middle	2	1	27.97	8.24	26.73	81.3	5.47	3.5	6.2
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR10A(N)	17:53	7	Middle	2	2	28.02	8.24	26.78	81.5	5.50	3.8	6.0
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR10A(N)	17:53	13	Bottom	3	1	27.78	8.24	29.01	87.2	5.85	5.0	6.4
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR10A(N)	17:54	13	Bottom	3	2	27.76	8.23	28.97	86.8	5.81	4.8	7.4
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR10B(N2)	18:01	1.0	Surface	1	1	27.80	8.20	29.33	77.8	5.19	5.7	8.6
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR10B(N2)	18:02	1.0	Surface	1	2	27.81	8.20	29.29	77.3	5.16	5.6	9.2
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR10B(N2)	18:02	3.8	Middle	2	1	27.79	8.20	29.40	79.7	5.31	6.0	9.0
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR10B(N2)	18:01	3.8	Middle	2	2	27.78	8.21	29.41	80.0	5.34	6.3	9.7
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR10B(N2)	18:00	6.6	Bottom	3	1	27.78	8.22	29.39	85.8	5.72	6.7	9.5
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	SR10B(N2)	18:02	6.6	Bottom	3	2	27.79	8.20	29.42	85.4	5.70	6.5	11.0
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	CS2(A)	15:53	1.0	Surface	1	1	29.21	8.17	16.05	84.9	5.95	6.8	6.4
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	CS2(A)	15:54	1.0	Surface	1	2	29.21	8.17	16.12	83.6	5.86	6.7	6.0
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	CS2(A)	15:54	3.8	Middle	2	1	28.78	8.17	20.39	77.6	5.35	7.4	7.0
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	CS2(A)	15:53	3.8	Middle	2	2	28.75	8.15	20.58	78.8	5.43	7.4	7.2
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	CS2(A)	15:54	6.6	Bottom	3	1	28.17	8.15	28.50	76.7	5.11	8.3	8.8
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	CS2(A)	15:52	6.6	Bottom	3	2	28.14	8.18	28.53	76.1	5.07	8.1	7.9

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	2018-06-11	Mid-Flood	Sunny	CS(Mf)5	17:29	1.0	Surface	1	1	29.50	7.98	18.88	88.7	6.10	3.2	4.9
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	CS(Mf)5	17:30	1.0	Surface	1	2	29.51	7.99	18.94	84.4	5.80	3.1	6.9
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	CS(Mf)5	17:29	6.3	Middle	2	1	27.75	7.92	29.49	83.3	5.52	5.6	8.3
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	CS(Mf)5	17:29	6.3	Middle	2	2	27.75	7.92	29.41	82.7	5.48	5.5	7.1
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	CS(Mf)5	17:29	11.5	Bottom	3	1	27.74	7.91	30.80	76.4	5.09	5.7	7.2
HKLR	HY/2011/03	2018-06-11	Mid-Flood	Sunny	CS(Mf)5	17:29	11.5	Bottom	3	2	27.83	7.93	30.58	78.0	5.21	5.6	6.3
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS5	11:09	1.0	Surface	1	1	28.30	7.99	23.31	78.6	5.31	7.1	6.1
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS5	11:10	1.0	Surface	1	2	28.30	7.99	23.24	75.4	5.12	7.3	6.2
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS5	11:09	4.2	Middle	2	1	28.31	7.98	24.17	74.9	5.11	7.2	7.0
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS5	11:09	4.2	Middle	2	2	28.32	7.99	24.16	75.4	5.16	7.0	5.9
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS5	11:09	7.3	Bottom	3	1	28.33	7.99	25.45	75.6	5.15	7.7	5.6
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS5	11:09	7.3	Bottom	3	2	28.31	7.98	24.47	74.6	5.08	7.5	7.0
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS(Mf)6	11:17	1.0	Surface	1	1	28.37	8.00	23.93	77.8	5.27	3.2	4.3
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS(Mf)6	11:17	1.0	Surface	1	2	28.36	8.00	24.03	84.9	5.76	3.2	4.9
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS(Mf)6	11:17	2.1	Bottom	3	1	28.39	8.00	24.68	76.7	5.22	3.3	4.9
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS(Mf)6	11:17	2.1	Bottom	3	2	28.39	8.01	24.53	79.7	5.43	3.3	6.4
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS7	11:24	1.0	Surface	1	1	28.44	8.02	24.61	78.7	5.33	3.4	6.0
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS7	11:24	1.0	Surface	1	2	28.45	8.02	24.53	85.6	5.79	3.6	7.7
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS7	11:24	2.1	Bottom	3	1	28.43	8.02	24.98	80.5	5.46	3.6	9.0
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS7	11:24	2.1	Bottom	3	2	28.44	8.01	24.69	77.5	5.25	3.6	8.0
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS8	11:50	1.0	Surface	1	1	28.48	8.10	24.19	79.4	5.36	7.7	5.6
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS8	11:50	1.0	Surface	1	2	28.40	8.14	23.38	75.4	5.14	7.5	4.8
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS8	11:49	3.0	Bottom	3	1	28.47	8.08	25.14	73.4	4.98	7.6	7.5
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS8	11:50	3.0	Bottom	3	2	28.52	8.08	24.50	70.7	4.79	7.5	5.9
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS(Mf)9	11:32	1.0	Surface	1	1	28.38	8.15	23.37	82.2	5.62	2.6	4.4
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS(Mf)9	11:32	1.0	Surface	1	2	28.36	8.14	23.41	82.0	5.60	2.8	4.1
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS(Mf)9	11:32	2.8	Bottom	3	1	28.37	8.14	23.45	82.7	5.64	2.7	6.1
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS(Mf)9	11:32	2.8	Bottom	3	2	28.34	8.13	23.54	83.1	5.68	2.8	7.9
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS10(N)	12:06	1.0	Surface	1	1	28.25	8.15	18.70	78.7	5.53	5.2	6.2
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS10(N)	12:07	1.0	Surface	1	2	28.26	8.14	18.72	79.7	5.60	4.9	5.0
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS10(N)	12:06	5.3	Middle	2	1	28.21	8.16	20.39	77.7	5.42	5.5	5.1
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS10(N)	12:06	5.3	Middle	2	2	28.21	8.16	20.20	77.7	5.42	5.8	5.4
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS10(N)	12:06	9.6	Bottom	3	1	28.21	8.13	21.51	79.4	5.50	7.6	6.3
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	IS10(N)	12:06	9.6	Bottom	3	2	28.20	8.15	21.61	79.0	5.47	7.3	5.3
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR3(N)	11:01	1.0	Surface	1	1	28.29	7.99	22.72	76.4	5.24	3.9	7.3
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR3(N)	11:02	1.0	Surface	1	2	28.29	7.98	22.79	74.9	5.14	4.0	6.7
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR3(N)	11:01	2.3	Bottom	3	1	28.35	7.99	23.04	75.6	5.18	4.1	8.8
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR3(N)	11:01	2.3	Bottom	3	2	28.34	8.02	22.57	79.2	5.44	4.2	7.1
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR4(N)	11:44	1.0	Surface	1	1	28.28	8.09	22.25	75.2	5.16	7.7	11.2
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR4(N)	11:44	1.0	Surface	1	2	28.31	8.08	22.82	81.1	5.56	7.9	12.0
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR4(N)	11:43	2.6	Bottom	3	1	28.27	8.09	23.13	72.5	4.97	7.8	11.9
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR4(N)	11:44	2.6	Bottom	3	2	28.32	8.08	22.93	71.0	4.89	7.8	10.3
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR5(N)	11:55	1.0	Surface	1	1	28.27	8.13	18.66	82.1	5.77	3.6	9.1
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR5(N)	11:54	1.0	Surface	1	2	28.26	8.14	18.66	80.9	5.69	3.8	8.7
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR5(N)	11:55	4.2	Middle	2	1	28.20	8.14	19.75	79.5	5.56	3.8	8.4
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR5(N)	11:54	4.2	Middle	2	2	28.20	8.14	19.73	80.1	5.61	3.7	8.7
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR5(N)	11:55	7.3	Bottom	3	1	28.21	8.13	19.99	80.5	5.62	4.6	10.8
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR5(N)	11:54	7.3	Bottom	3	2	28.23	8.13	20.02	81.8	5.71	4.1	10.4
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR10A(N)	12:48	1.0	Surface	1	1	28.29	8.17	20.79	86.2	5.97	4.3	6.8
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR10A(N)	12:47	1.0	Surface	1	2	28.29	8.17	20.62	87.9	6.09	4.1	5.7
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR10A(N)	12:48	6.7	Middle	2	1	28.28	8.18	21.50	85.1	5.92	4.1	8.1
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR10A(N)	12:47	6.7	Middle	2	2	28.28	8.19	21.52	84.2	5.85	4.3	7.1
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR10A(N)	12:47	12.4	Bottom	3	1	28.28	8.16	21.50	84.4	5.84	5.2	9.6
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR10A(N)	12:47	12.4	Bottom	3	2	28.28	8.19	21.57	84.0	5.81	5.0	9.8
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR10B(N2)	13:05	1.0	Surface	1	1	28.29	8.17	20.50	84.9	5.89	5.2	7.0
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR10B(N2)	13:08	1.0	Surface	1	2	28.28	8.16	20.88	87.7	6.07	5.0	8.1
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR10B(N2)	13:05	3.4	Middle	2	1	28.27	8.18	21.87	82.8	5.72	5.3	8.1
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR10B(N2)	13:08	3.4	Middle	2	2	28.27	8.17	21.34	83.9	5.83	4.9	7.2

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	2018-06-13	Mid-Ebb	Sunny	SR10B(N2)	13:05	5.8	Bottom	3	1	28.26	8.18	22.48	82.6	5.69	6.1	7.0
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	SR10B(N2)	13:08	5.8	Bottom	3	2	28.27	8.17	21.41	83.2	5.79	6.3	6.0
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	CS2(A)	10:53	1.0	Surface	1	1	28.26	8.15	18.77	87.1	6.07	4.1	5.3
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	CS2(A)	10:54	1.0	Surface	1	2	28.26	8.14	18.75	83.8	5.88	4.0	6.4
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	CS2(A)	10:54	3.6	Middle	2	1	28.22	8.15	19.16	83.3	5.85	4.2	9.5
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	CS2(A)	10:53	3.6	Middle	2	2	28.23	8.16	19.25	80.9	5.69	4.6	10.3
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	CS2(A)	10:53	6.2	Bottom	3	1	28.21	8.19	20.38	79.9	5.61	5.6	12.0
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	CS2(A)	10:53	6.2	Bottom	3	2	28.21	8.14	20.22	80.8	5.64	5.3	10.0
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	CS(Mf)5	12:13	1.0	Surface	1	1	28.33	8.04	21.98	75.9	5.08	5.9	8.7
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	CS(Mf)5	12:12	1.0	Surface	1	2	28.32	8.05	22.08	76.1	5.07	5.8	8.7
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	CS(Mf)5	12:12	6.2	Middle	2	1	28.27	8.06	25.08	75.4	5.05	5.9	8.2
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	CS(Mf)5	12:12	6.2	Middle	2	2	28.28	8.05	25.00	73.2	5.04	5.8	7.9
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	CS(Mf)5	12:11	11.3	Bottom	3	1	28.25	8.06	28.23	73.0	4.95	5.9	9.0
HKLR	HY/2011/03	2018-06-13	Mid-Ebb	Sunny	CS(Mf)5	12:12	11.3	Bottom	3	2	28.28	8.04	27.26	72.8	4.87	5.9	7.9
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS5	5:36	1.0	Surface	1	1	28.27	8.15	21.17	75.4	5.11	5.7	6.3
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS5	5:36	1.0	Surface	1	2	28.30	8.14	21.28	79.5	5.37	5.8	6.5
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS5	5:35	4.3	Middle	2	1	28.46	8.12	22.43	74.8	5.15	5.8	7.6
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS5	5:36	4.3	Middle	2	2	28.49	8.12	22.79	75.2	5.11	5.8	7.8
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS5	5:35	7.6	Bottom	3	1	28.42	8.11	25.24	74.4	5.13	5.8	7.8
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS5	5:36	7.6	Bottom	3	2	28.39	8.12	24.79	73.5	5.03	5.8	6.7
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS(Mf)6	5:25	1.0	Surface	1	1	28.24	8.15	21.72	75.1	5.19	3.5	7.0
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS(Mf)6	5:25	1.0	Surface	1	2	28.26	8.15	21.80	75.1	5.18	3.7	7.1
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS(Mf)6	5:25	2.1	Bottom	3	1	28.36	8.14	22.30	75.0	5.16	3.5	5.2
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS(Mf)6	5:25	2.1	Bottom	3	2	28.29	8.14	22.13	75.3	5.18	3.6	6.9
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS7	5:17	1.0	Surface	1	1	28.27	8.14	21.63	74.9	5.18	3.8	6.7
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS7	5:16	1.0	Surface	1	2	28.27	8.14	21.55	74.6	5.16	3.7	7.1
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS7	5:16	2.2	Bottom	3	1	28.42	8.12	22.07	74.6	5.13	3.8	7.4
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS7	5:16	2.2	Bottom	3	2	28.34	8.13	22.42	75.0	5.15	3.8	7.0
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS8	4:52	1.0	Surface	1	1	28.30	8.10	21.89	76.8	5.30	7.1	11.6
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS8	4:52	1.0	Surface	1	2	28.30	8.11	21.87	73.9	5.09	7.4	12.8
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS8	4:52	3.1	Bottom	3	1	28.30	8.10	21.99	75.1	5.17	7.6	12.8
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS8	4:52	3.1	Bottom	3	2	28.31	8.10	22.01	79.9	5.51	7.5	13.2
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS(Mf)9	5:10	1.0	Surface	1	1	28.27	8.13	21.44	78.5	5.40	3.8	8.8
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS(Mf)9	5:10	1.0	Surface	1	2	28.26	8.13	21.48	83.4	5.71	3.7	8.5
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS(Mf)9	5:09	2.7	Bottom	3	1	28.42	8.12	22.69	79.1	5.47	3.8	9.7
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS(Mf)9	5:10	2.7	Bottom	3	2	28.27	8.12	22.55	77.2	5.34	3.8	10.1
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS10(N)	5:12	1.0	Surface	1	1	28.19	8.20	18.13	77.3	5.46	3.2	8.3
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS10(N)	5:11	1.0	Surface	1	2	28.19	8.19	18.15	77.9	5.50	3.3	7.4
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS10(N)	5:11	5.3	Middle	2	1	28.12	8.23	24.92	76.3	5.17	4.1	10.0
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS10(N)	5:11	5.3	Middle	2	2	28.13	8.23	24.71	76.3	5.16	4.3	8.6
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS10(N)	5:10	9.5	Bottom	3	1	28.11	8.21	26.18	74.3	5.07	6.7	8.9
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	IS10(N)	5:11	9.5	Bottom	3	2	28.10	8.19	26.21	74.1	5.06	6.3	8.9
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR3(N)	5:45	1.0	Surface	1	1	28.20	8.16	21.02	77.9	5.40	2.7	6.9
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR3(N)	5:45	1.0	Surface	1	2	28.26	8.16	20.99	76.2	5.28	2.7	6.5
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR3(N)	5:45	2.6	Bottom	3	1	28.42	8.14	21.75	75.8	5.22	2.9	6.6
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR3(N)	5:45	2.6	Bottom	3	2	28.28	8.15	21.89	77.4	5.34	2.7	5.4
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR4(N)	4:59	1.0	Surface	1	1	28.29	8.13	21.89	72.6	5.01	7.2	12.0
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR4(N)	4:58	1.0	Surface	1	2	28.29	8.13	21.89	72.5	5.00	7.4	11.5
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR4(N)	4:58	2.7	Bottom	3	1	28.29	8.13	21.91	72.6	5.00	7.3	11.8
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR4(N)	4:58	2.7	Bottom	3	2	28.31	8.12	22.08	72.0	4.96	7.4	11.4
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR5(N)	5:23	1.0	Surface	1	1	28.21	8.18	18.16	79.6	5.61	2.6	7.1
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR5(N)	5:23	1.0	Surface	1	2	28.20	8.19	18.16	78.6	5.55	2.5	7.6
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR5(N)	5:23	4.1	Middle	2	1	28.15	8.23	21.73	76.0	5.26	3.6	6.7
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR5(N)	5:22	4.1	Middle	2	2	28.16	8.23	21.70	76.8	5.33	3.8	6.4
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR5(N)	5:23	7.2	Bottom	3	1	28.14	8.21	24.46	76.6	5.23	5.3	10.3
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR5(N)	5:22	7.2	Bottom	3	2	28.14	8.20	24.57	78.1	5.33	5.4	8.5
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR10A(N)	4:24	1.0	Surface	1	1	28.17	8.21	18.13	82.5	5.58	3.6	8.3
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR10A(N)	4:25	1.0	Surface	1	2	28.18	8.21	18.12	77.4	5.47	3.3	8.2

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	2018-06-13	Mid-Flood	Rainy	SR10A(N)	4:25	6.8	Middle	2	1	28.11	8.23	25.87	77.5	5.25	5.2	7.2
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR10A(N)	4:24	6.8	Middle	2	2	28.12	8.25	25.29	78.1	5.52	5.5	9.2
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR10A(N)	4:23	12.5	Bottom	3	1	28.10	8.26	26.22	76.0	5.17	6.1	8.3
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR10A(N)	4:24	12.5	Bottom	3	2	28.11	8.18	26.25	74.4	5.05	6.5	9.6
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR10B(N2)	4:10	1.0	Surface	1	1	28.29	8.11	21.14	82.7	5.73	3.8	7.4
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR10B(N2)	4:10	1.0	Surface	1	2	28.28	8.12	21.14	79.7	5.53	4.0	5.5
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR10B(N2)	4:09	3.6	Middle	2	1	28.30	8.10	21.18	80.6	5.59	4.2	7.6
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR10B(N2)	4:10	3.6	Middle	2	2	28.30	8.12	21.19	79.6	5.52	4.2	7.6
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR10B(N2)	4:09	6.1	Bottom	3	1	28.34	8.09	21.42	81.0	5.62	5.3	7.4
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	SR10B(N2)	4:10	6.1	Bottom	3	2	28.31	8.12	21.31	80.1	5.55	5.5	8.6
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	CS2(A)	6:11	1.0	Surface	1	1	28.20	8.19	18.15	79.5	5.61	2.1	7.6
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	CS2(A)	6:12	1.0	Surface	1	2	28.21	8.18	18.21	80.2	5.66	2.2	7.6
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	CS2(A)	6:11	3.7	Middle	2	1	28.15	8.20	21.55	78.0	5.41	2.4	6.7
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	CS2(A)	6:12	3.7	Middle	2	2	28.15	8.19	21.60	79.0	5.48	2.5	7.3
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	CS2(A)	6:11	6.3	Bottom	3	1	28.16	8.16	21.50	80.3	5.57	3.8	7.8
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	CS2(A)	6:11	6.3	Bottom	3	2	28.15	8.20	22.68	78.3	5.40	4.2	7.9
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	CS(Mf)5	4:36	1.0	Surface	1	1	28.28	8.12	21.73	74.0	5.11	4.3	4.9
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	CS(Mf)5	4:35	1.0	Surface	1	2	28.37	8.09	21.87	77.0	5.13	4.1	5.3
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	CS(Mf)5	4:35	5.9	Middle	2	1	28.29	8.13	24.30	73.8	5.09	4.2	7.1
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	CS(Mf)5	4:35	5.9	Middle	2	2	28.32	8.09	24.43	73.4	5.06	4.5	6.2
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	CS(Mf)5	4:35	10.8	Bottom	3	1	28.28	8.10	27.91	71.5	4.77	4.2	6.4
HKLR	HY/2011/03	2018-06-13	Mid-Flood	Rainy	CS(Mf)5	4:34	10.8	Bottom	3	2	28.20	8.06	28.44	71.8	4.88	4.4	6.3
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS5	12:42	1.0	Surface	1	1	28.29	7.87	23.44	83.3	5.75	7.2	8.2
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS5	12:42	1.0	Surface	1	2	28.32	7.86	23.35	78.8	5.47	7.1	6.8
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS5	12:42	4.5	Middle	2	1	28.21	7.84	26.27	77.1	5.43	8.5	7.0
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS5	12:42	4.5	Middle	2	2	28.22	7.85	26.24	74.3	5.24	8.4	7.5
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS5	12:42	8.0	Bottom	3	1	28.16	7.82	27.20	75.3	5.22	8.6	8.0
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS5	12:42	8.0	Bottom	3	2	28.20	7.85	27.20	74.4	5.18	8.5	7.7
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS(Mf)6	12:52	1.0	Surface	1	1	28.61	7.81	21.51	73.7	5.22	5.7	8.6
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS(Mf)6	12:51	1.0	Surface	1	2	28.53	7.77	21.43	75.6	5.36	5.6	7.9
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS(Mf)6	12:51	2.1	Bottom	3	1	28.24	7.77	22.95	77.5	5.48	5.8	8.2
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS(Mf)6	12:51	2.1	Bottom	3	2	28.26	7.80	23.35	73.2	5.17	5.8	9.9
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS7	13:00	1.0	Surface	1	1	28.35	7.78	21.35	76.0	5.41	6.3	8.2
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS7	13:00	1.0	Surface	1	2	28.47	7.78	21.28	75.6	5.37	6.6	8.1
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS7	13:00	2.1	Bottom	3	1	28.29	7.77	22.46	76.9	5.44	6.4	6.3
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS7	12:59	2.1	Bottom	3	2	28.21	7.78	22.50	76.5	5.42	6.5	6.5
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS8	13:26	1.0	Surface	1	1	28.44	7.78	21.70	77.4	5.48	5.7	8.0
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS8	13:26	1.0	Surface	1	2	28.44	7.78	21.69	81.2	5.72	5.6	6.0
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS8	13:25	3.0	Bottom	3	1	28.28	7.77	23.16	74.9	5.28	5.6	8.0
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS8	13:26	3.0	Bottom	3	2	28.29	7.77	23.32	74.1	5.26	5.8	7.1
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS(Mf)9	13:08	1.0	Surface	1	1	28.26	7.72	21.88	81.3	5.76	5.5	7.6
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS(Mf)9	13:08	1.0	Surface	1	2	28.25	7.72	21.89	78.4	5.56	5.3	8.1
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS(Mf)9	13:08	2.8	Bottom	3	1	28.21	7.72	22.06	75.2	5.34	5.2	8.7
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS(Mf)9	13:08	2.8	Bottom	3	2	28.28	7.73	21.97	76.5	5.43	5.3	7.2
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS10(N)	13:29	1.0	Surface	1	1	28.25	8.18	22.35	81.8	5.94	6.6	6.0
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS10(N)	13:30	1.0	Surface	1	2	28.25	8.18	22.32	81.5	5.92	6.5	3.8
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS10(N)	13:30	5.3	Middle	2	1	28.18	8.20	23.46	80.5	5.83	6.8	4.8
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS10(N)	13:29	5.3	Middle	2	2	28.19	8.22	23.50	80.7	5.80	6.7	6.8
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS10(N)	13:29	9.5	Bottom	3	1	28.23	8.22	24.81	80.6	5.84	7.8	6.9
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	IS10(N)	13:30	9.5	Bottom	3	2	28.24	8.22	24.95	80.4	5.78	7.9	8.9
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR3(N)	12:34	1.0	Surface	1	1	28.35	7.78	22.49	73.5	5.05	4.8	5.5
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR3(N)	12:34	1.0	Surface	1	2	28.42	7.78	22.00	78.5	5.36	4.8	5.4
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR3(N)	12:34	2.6	Bottom	3	1	28.32	7.78	23.65	70.6	4.85	4.7	7.8
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR3(N)	12:34	2.6	Bottom	3	2	28.32	7.78	23.64	72.2	4.93	4.7	6.2
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR4(N)	13:20	1.0	Surface	1	1	28.25	7.72	21.82	77.1	5.47	11.4	13.3
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR4(N)	13:20	1.0	Surface	1	2	28.27	7.73	21.68	71.9	5.12	11.1	14.0
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR4(N)	13:20	2.7	Bottom	3	1	28.25	7.71	22.99	67.9	4.84	11.2	12.4
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR4(N)	13:19	2.7	Bottom	3	2	28.22	7.74	22.36	69.9	4.95	11.3	13.6

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	2018-06-15	Mid-Ebb	Sunny	SR5(N)	13:16	1.0	Surface	1	1	28.24	8.18	22.39	82.6	6.00	5.3	2.3
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR5(N)	13:15	1.0	Surface	1	2	28.21	8.19	22.50	82.5	5.93	5.2	3.5
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR5(N)	13:14	4.0	Middle	2	1	28.18	8.22	23.47	81.9	5.92	5.4	3.6
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR5(N)	13:15	4.0	Middle	2	2	28.18	8.19	23.46	82.4	5.98	5.4	2.1
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR5(N)	13:15	7.0	Bottom	3	1	28.22	8.22	24.75	81.4	5.89	6.7	4.0
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR5(N)	13:14	7.0	Bottom	3	2	28.23	8.25	24.84	81.8	5.88	6.6	4.0
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR10A(N)	14:05	1.0	Surface	1	1	28.22	8.19	24.06	82.8	5.96	3.7	6.1
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR10A(N)	14:05	1.0	Surface	1	2	28.20	8.19	24.37	84.0	6.05	3.8	4.7
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR10A(N)	14:05	6.7	Middle	2	1	28.16	8.19	24.66	82.5	5.93	4.0	4.2
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR10A(N)	14:04	6.7	Middle	2	2	28.13	8.20	25.03	82.5	5.94	3.9	5.3
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR10A(N)	14:04	12.4	Bottom	3	1	28.13	8.20	24.96	82.0	5.89	4.1	7.1
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR10A(N)	14:05	12.4	Bottom	3	2	28.16	8.19	24.64	82.4	5.93	4.2	7.3
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR10B(N2)	14:20	1.0	Surface	1	1	28.28	8.18	23.74	83.5	6.00	3.8	5.4
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR10B(N2)	14:21	1.0	Surface	1	2	28.30	8.19	23.11	83.8	6.04	3.8	5.3
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR10B(N2)	14:19	3.9	Middle	2	1	28.22	8.18	24.49	83.1	5.98	3.9	5.7
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR10B(N2)	14:20	3.9	Middle	2	2	28.16	8.18	24.53	83.1	6.00	3.8	5.5
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR10B(N2)	14:19	6.7	Bottom	3	1	28.18	8.18	24.66	82.6	5.95	4.1	6.1
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	SR10B(N2)	14:20	6.7	Bottom	3	2	28.18	8.18	24.38	82.4	5.93	4.2	8.2
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	CS2(A)	12:23	1.0	Surface	1	1	28.23	8.28	26.06	87.3	6.22	5.1	6.3
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	CS2(A)	12:25	1.0	Surface	1	2	28.21	8.27	26.33	87.3	6.21	5.0	6.1
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	CS2(A)	12:25	3.8	Middle	2	1	28.10	8.28	28.50	84.9	6.00	5.9	4.6
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	CS2(A)	12:23	3.8	Middle	2	2	28.09	8.28	28.53	85.5	6.04	5.6	5.3
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	CS2(A)	12:23	6.6	Bottom	3	1	28.07	8.28	28.92	85.4	6.02	6.5	5.0
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	CS2(A)	12:24	6.6	Bottom	3	2	28.06	8.27	28.92	84.6	5.96	6.6	6.3
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	CS(Mf)5	13:52	1.0	Surface	1	1	28.40	7.82	24.60	78.8	5.42	7.4	4.0
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	CS(Mf)5	13:52	1.0	Surface	1	2	28.39	7.82	24.62	72.4	5.07	7.7	5.2
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	CS(Mf)5	13:52	6.0	Middle	2	1	28.17	7.82	26.31	74.3	5.20	7.8	5.6
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	CS(Mf)5	13:52	6.0	Middle	2	2	28.16	7.82	26.34	72.8	5.03	7.6	5.5
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	CS(Mf)5	13:52	11.0	Bottom	3	1	28.15	7.81	28.12	71.6	4.99	7.5	6.1
HKLR	HY/2011/03	2018-06-15	Mid-Ebb	Sunny	CS(Mf)5	13:51	11.0	Bottom	3	2	28.10	7.83	28.39	74.2	5.20	7.7	7.6
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS5	7:26	1.0	Surface	1	1	28.00	7.86	22.05	80.5	5.65	7.5	7.6
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS5	7:26	1.0	Surface	1	2	28.04	7.87	22.16	82.6	5.83	7.7	8.2
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS5	7:26	4.3	Middle	2	1	28.18	7.87	23.13	76.5	5.41	8.6	7.7
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS5	7:26	4.3	Middle	2	2	28.20	7.86	22.92	74.6	5.32	8.8	7.1
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS5	7:25	7.5	Bottom	3	1	28.20	7.86	23.88	71.4	5.06	8.5	6.6
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS5	7:26	7.5	Bottom	3	2	28.16	7.86	23.74	70.9	5.06	8.6	6.2
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS(Mf)6	7:18	1.0	Surface	1	1	28.01	7.84	21.90	73.1	5.07	4.4	5.2
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS(Mf)6	7:18	1.0	Surface	1	2	28.03	7.84	21.92	77.7	5.38	4.4	6.5
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS(Mf)6	7:18	2.2	Bottom	3	1	28.02	7.85	21.95	71.5	4.95	4.3	5.9
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS(Mf)6	7:18	2.2	Bottom	3	2	28.03	7.84	21.96	70.3	4.87	4.4	5.9
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS7	7:10	1.0	Surface	1	1	27.71	7.86	21.64	77.0	5.37	3.6	5.1
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS7	7:11	1.0	Surface	1	2	27.72	7.86	21.69	74.4	5.19	3.7	6.0
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS7	7:10	2.2	Bottom	3	1	27.74	7.86	21.77	75.4	5.25	3.7	5.5
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS7	7:10	2.2	Bottom	3	2	27.73	7.86	21.76	80.3	5.60	3.6	7.2
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS8	6:44	1.0	Surface	1	1	28.03	7.83	21.54	74.4	5.31	8.5	5.0
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS8	6:44	1.0	Surface	1	2	28.03	7.82	21.56	74.3	5.31	8.7	4.7
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS8	6:43	3.1	Bottom	3	1	28.06	7.82	22.09	73.6	5.25	9.5	5.8
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS8	6:44	3.1	Bottom	3	2	28.04	7.82	21.76	72.6	5.19	9.1	5.4
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS(Mf)9	7:03	1.0	Surface	1	1	27.99	7.85	22.13	72.1	5.11	5.1	4.7
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS(Mf)9	7:03	1.0	Surface	1	2	27.97	7.85	22.16	76.1	5.26	5.0	5.4
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS(Mf)9	7:02	2.8	Bottom	3	1	28.04	7.84	22.32	71.5	4.95	5.0	5.7
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS(Mf)9	7:03	2.8	Bottom	3	2	27.99	7.85	22.28	69.9	4.84	5.2	4.4
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS10(N)	6:50	1.0	Surface	1	1	28.08	8.16	23.12	78.0	5.67	11.9	9.1
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS10(N)	6:51	1.0	Surface	1	2	28.06	8.16	21.78	77.9	5.70	12.0	8.1
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS10(N)	6:50	5.4	Middle	2	1	28.09	8.17	24.11	77.8	5.63	12.4	10.0
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS10(N)	6:51	5.4	Middle	2	2	28.08	8.17	23.46	77.7	5.64	12.4	11.2
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS10(N)	6:51	9.8	Bottom	3	1	28.08	8.16	24.17	77.7	5.62	12.6	11.1
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	IS10(N)	6:50	9.8	Bottom	3	2	28.09	8.17	24.21	77.8	5.63	12.7	10.3

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	2018-06-15	Mid-Flood	Sunny	SR3(N)	7:34	1.0	Surface	1	1	28.10	7.88	22.98	74.5	5.28	8.1	10.3
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR3(N)	7:34	1.0	Surface	1	2	28.10	7.88	22.98	73.4	5.19	7.8	9.4
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR3(N)	7:34	2.3	Bottom	3	1	28.12	7.88	23.22	73.1	5.16	8.3	9.2
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR3(N)	7:34	2.3	Bottom	3	2	28.12	7.88	23.28	72.5	5.15	8.0	11.1
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR4(N)	6:52	1.0	Surface	1	1	28.05	7.84	21.57	80.1	5.70	7.8	10.3
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR4(N)	6:52	1.0	Surface	1	2	28.05	7.84	21.49	76.2	5.44	7.9	10.3
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR4(N)	6:52	2.8	Bottom	3	1	28.04	7.84	21.72	74.8	5.34	7.8	11.6
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR4(N)	6:52	2.8	Bottom	3	2	28.05	7.84	21.67	73.8	5.27	8.0	9.9
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR5(N)	7:02	1.0	Surface	1	1	28.03	8.14	21.74	78.2	5.73	10.7	9.4
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR5(N)	7:03	1.0	Surface	1	2	28.03	8.15	21.71	78.1	5.72	10.9	9.0
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR5(N)	7:03	4.1	Middle	2	1	28.05	8.16	22.29	77.6	5.67	12.8	9.8
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR5(N)	7:02	4.1	Middle	2	2	28.05	8.16	21.84	77.7	5.69	13.0	10.5
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR5(N)	7:02	7.2	Bottom	3	1	28.09	8.16	24.11	77.5	5.61	13.7	10.9
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR5(N)	7:03	7.2	Bottom	3	2	28.09	8.16	24.06	77.5	5.61	13.5	11.5
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR10A(N)	6:03	1.0	Surface	1	1	27.90	8.14	22.07	82.5	6.03	2.7	5.5
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR10A(N)	6:02	1.0	Surface	1	2	27.90	8.14	22.06	82.5	6.03	2.6	5.3
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR10A(N)	6:02	6.8	Middle	2	1	27.94	8.17	23.22	81.8	5.94	2.9	4.6
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR10A(N)	6:03	6.8	Middle	2	2	27.93	8.17	23.20	81.8	5.94	2.8	5.1
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR10A(N)	6:03	12.6	Bottom	3	1	28.01	8.17	25.52	81.4	5.85	3.4	5.4
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR10A(N)	6:02	12.6	Bottom	3	2	28.02	8.16	25.57	81.6	5.86	3.4	4.2
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR10B(N2)	5:49	1.0	Surface	1	1	27.95	8.11	22.27	83.1	6.06	2.8	4.5
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR10B(N2)	5:48	1.0	Surface	1	2	27.95	8.11	22.27	83.3	6.07	2.7	4.8
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR10B(N2)	5:48	4.1	Middle	2	1	27.94	8.12	22.45	82.9	6.04	3.2	4.8
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR10B(N2)	5:48	4.1	Middle	2	2	27.94	8.11	22.47	83.2	6.06	3.1	3.6
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR10B(N2)	5:48	7.1	Bottom	3	1	27.99	8.11	25.48	82.8	5.94	3.2	4.9
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	SR10B(N2)	5:47	7.1	Bottom	3	2	27.98	8.12	24.98	83.0	5.97	3.3	4.9
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	CS2(A)	7:49	1.0	Surface	1	1	27.75	8.22	22.29	84.3	6.16	5.9	4.4
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	CS2(A)	7:51	1.0	Surface	1	2	27.76	8.23	22.26	83.7	6.12	5.7	4.4
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	CS2(A)	7:49	4.0	Middle	2	1	28.06	8.26	27.30	81.0	5.77	6.6	4.1
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	CS2(A)	7:50	4.0	Middle	2	2	28.05	8.25	27.05	81.2	5.79	6.7	4.1
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	CS2(A)	7:50	7.0	Bottom	3	1	28.08	8.26	28.29	80.9	5.74	7.1	6.9
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	CS2(A)	7:49	7.0	Bottom	3	2	28.08	8.26	28.33	80.9	5.73	6.9	7.4
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	CS(Mf)5	6:21	1.0	Surface	1	1	28.09	7.87	21.77	72.6	5.18	5.5	8.3
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	CS(Mf)5	6:21	1.0	Surface	1	2	28.06	7.85	21.65	78.3	5.35	5.6	7.6
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	CS(Mf)5	6:21	6.1	Middle	2	1	28.13	7.87	26.20	72.6	5.07	5.5	9.5
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	CS(Mf)5	6:20	6.1	Middle	2	2	28.12	7.85	27.04	73.9	5.27	5.6	10.0
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	CS(Mf)5	6:20	11.2	Bottom	3	1	28.09	7.82	29.96	74.5	5.17	5.6	8.6
HKLR	HY/2011/03	2018-06-15	Mid-Flood	Sunny	CS(Mf)5	6:21	11.2	Bottom	3	2	28.09	7.85	29.67	73.4	5.03	5.8	8.2
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS5	15:10	1.0	Surface	1	1	29.10	7.78	22.23	84.0	5.64	5.9	5.6
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS5	15:10	1.0	Surface	1	2	29.08	7.78	22.36	80.5	5.39	5.5	4.1
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS5	15:10	4.3	Middle	2	1	28.92	7.77	24.65	79.2	5.37	6.6	4.7
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS5	15:09	4.3	Middle	2	2	28.90	7.77	24.33	80.5	5.46	6.5	5.2
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS5	15:10	7.6	Bottom	3	1	29.01	7.76	25.09	78.7	5.29	6.6	5.1
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS5	15:09	7.6	Bottom	3	2	28.85	7.77	25.09	80.3	5.41	6.8	4.7
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS(Mf)6	15:18	1.0	Surface	1	1	29.06	7.81	24.64	85.6	5.74	6.3	5.7
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS(Mf)6	15:18	1.0	Surface	1	2	29.06	7.80	24.38	82.9	5.57	6.5	5.7
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS(Mf)6	15:17	2.1	Bottom	3	1	29.06	7.82	24.70	87.7	5.88	6.4	4.6
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS(Mf)6	15:18	2.1	Bottom	3	2	29.08	7.80	24.79	83.8	5.62	6.3	5.3
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS7	15:25	1.0	Surface	1	1	29.33	7.86	24.75	93.1	6.21	4.6	4.9
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS7	15:25	1.0	Surface	1	2	29.26	7.86	24.76	92.7	6.20	4.7	4.0
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS7	15:24	2.1	Bottom	3	1	29.16	7.86	24.82	92.1	6.15	4.8	4.8
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS7	15:25	2.1	Bottom	3	2	29.32	7.86	24.74	92.6	6.18	4.6	4.7
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS8	15:51	1.0	Surface	1	1	29.56	7.92	24.76	95.6	6.36	4.8	3.6
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS8	15:50	1.0	Surface	1	2	29.40	7.92	24.87	90.9	6.05	4.7	3.9
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS8	15:50	2.9	Bottom	3	1	29.01	7.89	25.47	92.7	6.19	4.8	3.2
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS8	15:50	2.9	Bottom	3	2	28.73	7.89	25.69	89.6	6.01	4.8	3.3
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS(Mf)9	15:33	1.0	Surface	1	1	28.99	7.84	24.96	86.6	5.80	8.7	4.7
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS(Mf)9	15:33	1.0	Surface	1	2	29.00	7.84	24.71	82.2	5.52	8.7	4.1

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	2018-06-18	Mid-Ebb	Sunny	IS(Mf)9	15:33	2.6	Bottom	3	1	29.00	7.84	24.93	81.3	5.45	8.8	5.0
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS(Mf)9	15:32	2.6	Bottom	3	2	28.76	7.84	25.59	81.7	5.48	9.2	5.9
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS10(N)	15:50	1.0	Surface	1	1	29.24	8.15	19.11	82.0	5.65	7.6	5.9
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS10(N)	15:50	1.0	Surface	1	2	29.18	8.15	19.17	80.3	5.44	7.4	5.6
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS10(N)	15:50	5.3	Middle	2	1	28.59	8.15	22.78	79.8	5.40	8.0	6.9
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS10(N)	15:50	5.3	Middle	2	2	28.56	8.14	23.83	80.4	5.55	7.8	5.7
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS10(N)	15:49	9.5	Bottom	3	1	28.53	8.12	24.43	75.9	5.16	8.6	8.1
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	IS10(N)	15:50	9.5	Bottom	3	2	28.59	8.12	24.27	76.4	5.22	8.3	6.1
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR3(N)	15:02	1.0	Surface	1	1	29.35	7.80	22.24	85.4	5.77	7.4	4.9
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR3(N)	15:02	1.0	Surface	1	2	29.37	7.79	22.40	86.0	5.81	7.5	5.5
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR3(N)	15:02	2.5	Bottom	3	1	29.41	7.80	23.39	85.5	5.74	7.0	4.7
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR3(N)	15:02	2.5	Bottom	3	2	29.43	7.77	23.32	86.9	5.83	7.5	5.7
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR4(N)	15:44	1.0	Surface	1	1	29.06	7.86	24.86	82.5	5.53	10.4	10.6
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR4(N)	15:44	1.0	Surface	1	2	28.94	7.86	24.94	89.6	6.02	10.3	11.4
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR4(N)	15:44	2.6	Bottom	3	1	28.72	7.87	25.20	84.0	5.63	10.5	11.7
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR4(N)	15:44	2.6	Bottom	3	2	28.87	7.85	25.04	82.4	5.52	10.5	12.4
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR5(N)	15:38	1.0	Surface	1	1	29.21	8.18	19.25	86.3	5.95	6.2	5.6
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR5(N)	15:39	1.0	Surface	1	2	29.22	8.15	19.24	85.6	5.90	6.0	4.6
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR5(N)	15:38	4.1	Middle	2	1	28.73	8.18	22.17	80.9	5.53	6.5	5.9
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR5(N)	15:38	4.1	Middle	2	2	28.75	8.19	21.95	83.8	5.73	6.2	5.3
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR5(N)	15:38	7.1	Bottom	3	1	28.67	8.15	23.88	83.5	5.66	6.3	4.3
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR5(N)	15:37	7.1	Bottom	3	2	28.74	8.18	23.62	86.2	5.84	6.1	4.0
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR10A(N)	16:32	1.0	Surface	1	1	29.19	8.22	23.32	86.4	5.83	4.4	4.4
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR10A(N)	16:33	1.0	Surface	1	2	29.22	8.22	22.20	85.1	5.77	4.5	3.6
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR10A(N)	16:33	6.8	Middle	2	1	28.80	8.20	24.21	83.0	5.60	3.7	6.3
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR10A(N)	16:32	6.8	Middle	2	2	28.84	8.23	24.03	85.2	5.75	4.0	4.9
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR10A(N)	16:32	12.5	Bottom	3	1	28.83	8.25	24.10	87.8	5.93	4.6	4.8
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR10A(N)	16:32	12.5	Bottom	3	2	28.78	8.20	24.39	84.2	5.68	4.4	4.6
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR10B(N2)	16:40	1.0	Surface	1	1	29.22	8.21	22.19	86.1	5.84	4.5	5.4
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR10B(N2)	16:41	1.0	Surface	1	2	29.24	8.21	22.17	87.0	5.90	4.7	5.8
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR10B(N2)	16:40	3.4	Middle	2	1	28.95	8.20	23.81	84.7	5.71	6.0	5.4
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR10B(N2)	16:41	3.4	Middle	2	2	28.99	8.20	23.71	85.5	5.77	5.8	6.7
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR10B(N2)	16:41	5.8	Bottom	3	1	29.02	8.20	23.75	86.5	5.83	6.3	6.2
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	SR10B(N2)	16:40	5.8	Bottom	3	2	28.94	8.20	23.85	86.2	5.81	6.6	5.4
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	CS2(A)	14:52	1.0	Surface	1	1	29.16	8.23	19.10	93.6	6.46	5.4	5.1
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	CS2(A)	14:52	1.0	Surface	1	2	29.16	8.23	19.05	92.1	6.36	5.7	5.3
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	CS2(A)	14:51	3.8	Middle	2	1	28.49	8.27	27.96	92.1	6.12	7.0	4.0
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	CS2(A)	14:52	3.8	Middle	2	2	28.49	8.26	27.83	89.7	5.96	7.4	5.4
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	CS2(A)	14:52	6.6	Bottom	3	1	28.48	8.25	27.98	90.3	6.00	7.8	5.3
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	CS2(A)	14:51	6.6	Bottom	3	2	28.55	8.28	27.85	94.6	6.28	8.4	5.2
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	CS(Mf)5	16:13	1.0	Surface	1	1	29.14	7.89	23.57	79.0	5.32	9.6	8.9
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	CS(Mf)5	16:13	1.0	Surface	1	2	29.03	7.90	24.09	79.7	5.30	9.5	7.7
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	CS(Mf)5	16:12	6.1	Middle	2	1	28.63	7.89	26.13	77.0	5.18	9.5	7.5
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	CS(Mf)5	16:13	6.1	Middle	2	2	28.73	7.89	25.78	75.9	5.03	9.4	8.5
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	CS(Mf)5	16:12	11.2	Bottom	3	1	28.54	7.89	27.75	76.2	5.10	9.6	9.1
HKLR	HY/2011/03	2018-06-18	Mid-Ebb	Sunny	CS(Mf)5	16:13	11.2	Bottom	3	2	28.69	7.88	28.00	74.1	4.96	9.6	11.0
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS5	10:05	1.0	Surface	1	1	28.68	7.96	26.19	82.9	5.55	5.4	5.8
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS5	10:06	1.0	Surface	1	2	28.68	7.95	26.21	76.4	5.11	5.5	4.8
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS5	10:05	4.5	Middle	2	1	28.64	7.96	26.24	78.7	5.27	5.8	5.3
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS5	10:06	4.5	Middle	2	2	28.64	7.95	26.27	75.5	5.05	5.6	6.2
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS5	10:05	7.9	Bottom	3	1	28.61	7.95	26.33	75.4	5.05	5.7	7.6
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS5	10:05	7.9	Bottom	3	2	28.60	7.96	26.31	77.8	5.20	5.9	6.2
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS(Mf)6	9:58	1.0	Surface	1	1	28.64	7.95	26.00	78.4	5.25	5.8	5.5
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS(Mf)6	9:57	1.0	Surface	1	2	28.66	7.96	26.07	80.7	5.40	5.7	5.1
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS(Mf)6	9:57	2.1	Bottom	3	1	28.67	7.95	26.21	79.5	5.32	5.9	5.4
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS(Mf)6	9:57	2.1	Bottom	3	2	28.66	7.96	26.26	84.4	5.65	5.8	5.8
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS7	9:49	1.0	Surface	1	1	28.50	7.96	25.89	81.3	5.47	7.4	5.9
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS7	9:50	1.0	Surface	1	2	28.49	7.95	25.74	86.4	5.81	7.5	6.2

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	2018-06-18	Mid-Flood	Sunny	IS7	9:50	2.2	Bottom	3	1	28.49	7.95	25.85	77.9	5.24	7.3	5.4
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS7	9:49	2.2	Bottom	3	2	28.49	7.98	25.74	79.5	5.35	7.4	5.3
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS8	9:23	1.0	Surface	1	1	28.55	7.95	23.35	80.7	5.42	8.2	7.9
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS8	9:24	1.0	Surface	1	2	28.59	7.94	23.25	79.6	5.35	8.5	6.9
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS8	9:24	3.2	Bottom	3	1	28.56	7.94	24.98	80.1	5.34	8.3	8.0
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS8	9:23	3.2	Bottom	3	2	28.45	7.95	24.97	83.4	5.56	8.2	6.8
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS(Mf)9	9:42	1.0	Surface	1	1	28.47	7.97	24.53	78.0	5.28	4.5	5.0
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS(Mf)9	9:42	1.0	Surface	1	2	28.55	7.97	24.43	80.3	5.44	4.6	4.4
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS(Mf)9	9:42	2.9	Bottom	3	1	28.36	7.98	25.34	82.6	5.58	4.6	8.1
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS(Mf)9	9:42	2.9	Bottom	3	2	28.43	7.96	25.28	78.2	5.28	4.4	7.7
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS10(N)	9:11	1.0	Surface	1	1	28.58	8.19	19.84	79.3	5.37	7.0	4.9
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS10(N)	9:12	1.0	Surface	1	2	28.59	8.17	20.02	80.1	5.39	7.0	5.4
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS10(N)	9:11	5.2	Middle	2	1	28.37	8.22	24.84	75.1	5.20	8.3	7.1
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS10(N)	9:12	5.2	Middle	2	2	28.37	8.19	24.92	77.7	5.39	8.2	5.2
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS10(N)	9:11	9.3	Bottom	3	1	28.40	8.26	24.94	73.9	5.01	8.2	6.3
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	IS10(N)	9:11	9.3	Bottom	3	2	28.38	8.24	25.01	74.7	5.05	8.5	5.5
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR3(N)	10:14	1.0	Surface	1	1	28.70	7.98	26.14	81.6	5.46	5.8	5.5
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR3(N)	10:14	1.0	Surface	1	2	28.70	7.97	26.15	76.6	5.12	5.7	4.7
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR3(N)	10:14	2.6	Bottom	3	1	28.68	7.98	26.21	78.6	5.26	5.9	5.9
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR3(N)	10:14	2.6	Bottom	3	2	28.69	7.97	26.17	75.7	5.07	5.7	4.7
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR4(N)	9:31	1.0	Surface	1	1	28.60	7.93	23.36	76.9	5.23	6.2	8.1
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR4(N)	9:31	1.0	Surface	1	2	28.61	7.93	23.36	74.9	5.09	6.1	7.2
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR4(N)	9:31	2.8	Bottom	3	1	28.61	7.93	23.36	75.6	5.14	6.2	8.6
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR4(N)	9:31	2.8	Bottom	3	2	28.58	7.94	23.39	79.3	5.40	6.3	8.0
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR5(N)	9:23	1.0	Surface	1	1	28.57	8.17	19.92	75.1	5.21	6.2	3.9
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR5(N)	9:24	1.0	Surface	1	2	28.58	8.14	19.97	75.4	5.23	6.0	3.7
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR5(N)	9:23	4.1	Middle	2	1	28.40	8.18	22.93	73.3	5.01	9.8	6.0
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR5(N)	9:22	4.1	Middle	2	2	28.41	8.19	22.75	73.3	5.02	9.8	5.6
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR5(N)	9:22	7.2	Bottom	3	1	28.38	8.16	24.89	73.9	5.01	10.7	7.5
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR5(N)	9:23	7.2	Bottom	3	2	28.37	8.16	24.72	73.9	5.01	10.8	6.2
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR10A(N)	8:20	1.0	Surface	1	1	28.31	8.10	23.95	75.6	5.15	3.6	6.1
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR10A(N)	8:20	1.0	Surface	1	2	28.31	8.10	23.95	75.8	5.17	3.3	5.5
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR10A(N)	8:20	6.8	Middle	2	1	28.28	8.11	26.16	76.5	5.15	4.2	6.6
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR10A(N)	8:19	6.8	Middle	2	2	28.28	8.11	26.25	75.7	5.10	4.5	5.5
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR10A(N)	8:20	12.5	Bottom	3	1	28.29	8.09	26.26	75.9	5.11	4.7	6.2
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR10A(N)	8:19	12.5	Bottom	3	2	28.28	8.10	26.28	75.1	5.06	4.6	6.4
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR10B(N2)	8:09	1.0	Surface	1	1	28.31	8.08	23.95	84.5	5.76	3.4	7.9
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR10B(N2)	8:08	1.0	Surface	1	2	28.31	8.09	23.97	88.9	6.00	3.6	7.4
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR10B(N2)	8:09	3.5	Middle	2	1	28.31	8.09	23.96	81.9	5.58	3.3	8.3
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR10B(N2)	8:08	3.5	Middle	2	2	28.29	8.10	24.15	78.0	5.31	3.7	7.3
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR10B(N2)	8:08	5.9	Bottom	3	1	28.29	8.09	25.72	79.0	5.34	4.2	7.4
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	SR10B(N2)	8:08	5.9	Bottom	3	2	28.29	8.10	25.74	77.9	5.31	4.5	9.0
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	CS2(A)	10:16	1.0	Surface	1	1	28.28	8.20	16.08	91.5	6.13	6.8	4.4
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	CS2(A)	10:16	1.0	Surface	1	2	28.31	8.23	16.14	88.7	5.94	7.1	4.9
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	CS2(A)	10:16	3.8	Middle	2	1	28.66	8.25	25.85	84.0	5.98	7.2	4.7
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	CS2(A)	10:16	3.8	Middle	2	2	28.65	8.28	25.94	82.9	5.56	7.4	4.4
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	CS2(A)	10:16	6.5	Bottom	3	1	28.53	8.26	26.02	79.6	5.67	8.0	4.5
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	CS2(A)	10:15	6.5	Bottom	3	2	28.63	8.28	26.04	82.0	5.50	8.5	6.3
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	CS(Mf)5	8:48	1.0	Surface	1	1	28.66	8.00	23.23	78.5	5.26	4.3	5.5
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	CS(Mf)5	8:49	1.0	Surface	1	2	28.65	8.00	23.17	77.7	5.21	4.1	5.5
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	CS(Mf)5	8:48	6	Middle	2	1	28.52	8.02	25.49	76.6	5.09	6.4	5.0
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	CS(Mf)5	8:49	6	Middle	2	2	28.42	8.03	26.14	75.8	5.02	5.9	4.4
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	CS(Mf)5	8:47	11	Bottom	3	1	28.33	8.03	29.22	77.2	5.04	6.2	6.1
HKLR	HY/2011/03	2018-06-18	Mid-Flood	Sunny	CS(Mf)5	8:48	11	Bottom	3	2	28.34	8.03	28.82	76.2	4.99	6.5	6.5
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS5	17:22	1.0	Surface	1	1	29.60	7.86	20.91	87.4	5.93	8.4	12.8
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS5	17:22	1.0	Surface	1	2	29.56	7.85	20.97	86.1	5.85	8.3	13.7
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS5	17:22	4.2	Middle	2	1	29.38	7.83	21.45	86.9	5.90	8.4	13.0
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS5	17:22	4.2	Middle	2	2	29.33	7.83	21.47	85.5	5.80	8.5	13.3

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	2018-06-20	Mid-Ebb	Sunny	IS5	17:22	7.3	Bottom	3	1	29.41	7.83	21.46	85.5	5.81	8.5	13.5
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS5	17:21	7.3	Bottom	3	2	29.24	7.82	21.67	84.0	5.71	8.5	12.6
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS(Mf)6	17:31	1.0	Surface	1	1	29.47	7.87	21.82	88.1	5.96	7.3	10.5
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS(Mf)6	17:30	1.0	Surface	1	2	29.48	7.87	21.76	88.1	5.96	7.5	10.4
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS(Mf)6	17:30	2.2	Bottom	3	1	29.30	7.85	22.05	89.4	6.06	7.5	13.3
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS(Mf)6	17:30	2.2	Bottom	3	2	29.43	7.86	21.95	88.4	5.98	7.6	12.0
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS7	17:39	1.0	Surface	1	1	29.88	7.96	20.91	103.9	7.02	5.0	11.7
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS7	17:39	1.0	Surface	1	2	29.90	7.96	21.19	107.0	7.21	4.9	11.2
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS7	17:39	2.0	Bottom	3	1	29.71	7.96	21.71	100.6	6.78	5.1	11.3
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS7	17:39	2.0	Bottom	3	2	29.84	7.95	21.68	105.8	7.12	5.0	12.7
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS8	18:04	1.0	Surface	1	1	29.50	7.94	20.90	97.3	6.61	8.0	13.6
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS8	18:05	1.0	Surface	1	2	29.49	7.93	20.94	97.5	6.62	8.2	13.5
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS8	18:04	2.9	Bottom	3	1	29.49	7.96	20.76	96.0	6.53	8.5	12.6
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS8	18:05	2.9	Bottom	3	2	29.51	7.94	21.60	97.6	6.60	8.4	13.9
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS(Mf)9	17:47	1.0	Surface	1	1	29.81	7.94	20.40	95.6	6.48	6.5	9.2
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS(Mf)9	17:47	1.0	Surface	1	2	29.81	7.94	20.39	96.8	6.56	6.1	9.4
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS(Mf)9	17:47	2.5	Bottom	3	1	29.50	7.94	21.27	94.5	6.41	6.5	7.4
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS(Mf)9	17:47	2.5	Bottom	3	2	29.64	7.92	21.62	96.4	6.51	6.4	5.9
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS10(N)	18:02	1.0	Surface	1	1	29.37	8.19	18.05	85.3	5.90	7.7	7.2
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS10(N)	18:03	1.0	Surface	1	2	29.36	8.18	18.04	84.1	5.82	7.3	7.3
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS10(N)	18:02	5.3	Middle	2	1	28.92	8.12	19.53	79.1	5.47	8.5	7.1
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS10(N)	18:02	5.3	Middle	2	2	28.95	8.12	19.30	78.2	5.41	8.3	6.4
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS10(N)	18:02	9.6	Bottom	3	1	28.88	8.11	21.49	82.1	5.62	10.4	6.9
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	IS10(N)	18:02	9.6	Bottom	3	2	28.85	8.12	21.86	83.4	5.70	9.9	6.8
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR3(N)	17:14	1.0	Surface	1	1	29.71	7.90	21.06	88.9	6.01	7.2	6.7
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR3(N)	17:14	1.0	Surface	1	2	29.86	7.92	20.86	90.8	6.13	7.3	6.0
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR3(N)	17:13	2.4	Bottom	3	1	29.68	7.87	21.20	87.7	5.93	7.4	8.5
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR3(N)	17:14	2.4	Bottom	3	2	29.75	7.90	20.98	89.4	6.05	7.5	7.1
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR4(N)	17:59	1.0	Surface	1	1	29.57	7.92	20.85	92.0	6.24	9.5	7.2
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR4(N)	17:59	1.0	Surface	1	2	29.58	7.92	20.84	92.4	6.27	9.5	6.8
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR4(N)	17:59	2.6	Bottom	3	1	29.33	7.91	20.93	93.3	6.36	9.7	7.9
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR4(N)	17:59	2.6	Bottom	3	2	29.47	7.90	21.00	92.8	6.30	9.5	8.6
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR5(N)	17:51	1.0	Surface	1	1	29.36	8.20	18.08	87.8	6.07	8.1	8.4
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR5(N)	17:51	1.0	Surface	1	2	29.38	8.20	18.06	88.7	6.13	8.0	8.2
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR5(N)	17:51	4.1	Middle	2	1	29.16	8.16	18.45	85.2	5.90	8.3	7.7
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR5(N)	17:51	4.1	Middle	2	2	29.23	8.19	18.32	85.8	5.94	8.7	8.3
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR5(N)	17:50	7.2	Bottom	3	1	29.04	8.20	19.17	87.5	6.05	9.4	8.4
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR5(N)	17:51	7.2	Bottom	3	2	29.18	8.17	18.82	88.4	6.11	9.2	7.8
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR10A(N)	18:46	1.0	Surface	1	1	29.39	8.16	18.57	87.8	6.05	3.3	8.8
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR10A(N)	18:46	1.0	Surface	1	2	29.38	8.18	18.57	88.1	6.07	3.4	8.7
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR10A(N)	18:46	6.7	Middle	2	1	29.26	8.14	19.65	85.9	5.90	3.6	8.0
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR10A(N)	18:45	6.7	Middle	2	2	29.22	8.16	19.93	87.6	6.01	3.7	7.6
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR10A(N)	18:46	12.4	Bottom	3	1	29.26	8.15	19.75	87.2	5.99	4.5	8.0
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR10A(N)	18:45	12.4	Bottom	3	2	29.23	8.18	19.95	90.0	6.17	4.2	8.8
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR10B(N2)	18:55	1.0	Surface	1	1	29.40	8.16	18.57	89.4	6.17	5.5	6.9
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR10B(N2)	18:54	1.0	Surface	1	2	29.40	8.16	18.55	90.0	6.20	5.0	6.4
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR10B(N2)	18:54	3.4	Middle	2	1	29.39	8.16	18.71	88.5	6.10	4.4	7.4
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR10B(N2)	18:55	3.4	Middle	2	2	29.36	8.15	18.87	88.5	6.10	4.3	7.6
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR10B(N2)	18:54	5.8	Bottom	3	1	29.32	8.15	19.29	88.5	6.08	5.0	8.7
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	SR10B(N2)	18:54	5.8	Bottom	3	2	29.34	8.15	19.28	89.4	6.15	5.4	8.1
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	CS2(A)	17:01	1.0	Surface	1	1	29.30	8.27	18.67	93.0	6.24	8.2	8.4
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	CS2(A)	17:01	1.0	Surface	1	2	29.48	8.28	18.61	93.2	6.42	8.7	8.4
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	CS2(A)	17:01	3.9	Middle	2	1	28.64	8.20	24.37	89.7	6.19	9.6	7.6
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	CS2(A)	17:01	3.9	Middle	2	2	28.64	8.22	24.49	87.0	5.85	9.9	7.7
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	CS2(A)	17:01	6.7	Bottom	3	1	28.58	8.24	25.50	83.7	5.66	10.3	7.6
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	CS2(A)	17:01	6.7	Bottom	3	2	28.72	8.20	25.69	87.1	5.89	10.8	7.8
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	CS(Mf)5	18:28	1.0	Surface	1	1	29.37	7.89	19.55	78.3	5.37	6.0	9.7
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	CS(Mf)5	18:29	1.0	Surface	1	2	29.44	7.89	19.62	79.1	5.42	6.2	9.0

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	2018-06-20	Mid-Ebb	Sunny	CS(Mf)5	18:28	6.1	Middle	2	1	29.05	7.90	21.87	75.4	5.13	5.9	9.8
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	CS(Mf)5	18:29	6.1	Middle	2	2	28.93	7.89	22.95	77.9	5.19	5.8	9.5
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	CS(Mf)5	18:28	11.1	Bottom	3	1	28.68	7.90	27.13	74.3	4.95	5.7	9.5
HKLR	HY/2011/03	2018-06-20	Mid-Ebb	Sunny	CS(Mf)5	18:29	11.1	Bottom	3	2	28.70	7.89	26.99	72.6	4.93	5.8	8.6
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS5	12:19	1.0	Surface	1	1	29.19	7.89	22.30	86.2	5.85	6.9	6.8
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS5	12:19	1.0	Surface	1	2	29.22	7.89	22.29	84.6	5.73	6.8	7.7
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS5	12:19	4.3	Middle	2	1	29.10	7.88	22.48	84.1	5.70	8.1	6.6
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS5	12:19	4.3	Middle	2	2	29.08	7.88	22.55	84.0	5.69	8.3	7.2
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS5	12:19	7.6	Bottom	3	1	29.02	7.88	22.67	83.3	5.65	8.5	8.4
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS5	12:19	7.6	Bottom	3	2	29.11	7.88	22.54	83.2	5.64	8.2	8.6
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS(Mf)6	12:11	1.0	Surface	1	1	29.36	7.93	22.00	91.4	6.19	5.4	8.9
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS(Mf)6	12:11	1.0	Surface	1	2	29.38	7.94	21.96	91.4	6.18	5.5	9.1
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS(Mf)6	12:11	2.2	Bottom	3	1	29.20	7.94	22.15	90.9	6.16	6.2	9.3
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS(Mf)6	12:11	2.2	Bottom	3	2	29.26	7.92	22.13	91.5	6.20	6.3	8.1
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS7	12:03	1.0	Surface	1	1	29.14	7.91	21.83	80.5	5.47	7.4	5.6
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS7	12:03	1.0	Surface	1	2	29.09	7.91	22.06	82.1	5.58	7.3	5.5
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS7	12:03	2.3	Bottom	3	1	29.08	7.90	22.30	81.3	5.52	7.6	6.9
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS7	12:03	2.3	Bottom	3	2	29.07	7.91	22.47	86.8	5.89	7.5	6.2
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS8	11:38	1.0	Surface	1	1	29.09	7.97	18.96	81.6	5.64	8.2	7.5
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS8	11:37	1.0	Surface	1	2	29.10	7.98	18.96	83.6	5.78	8.4	8.7
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS8	11:38	3.2	Bottom	3	1	29.05	7.97	20.36	82.6	5.68	8.8	8.4
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS8	11:37	3.2	Bottom	3	2	28.98	7.99	20.35	86.9	5.98	8.5	9.2
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS(Mf)9	11:55	1.0	Surface	1	1	29.39	7.93	20.51	90.8	6.19	5.6	8.4
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS(Mf)9	11:55	1.0	Surface	1	2	29.36	7.92	20.60	89.4	6.10	5.4	8.2
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS(Mf)9	11:55	2.8	Bottom	3	1	29.43	7.95	21.40	91.4	6.20	5.5	8.0
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS(Mf)9	11:55	2.8	Bottom	3	2	29.38	7.92	21.55	90.2	6.12	5.6	8.6
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS10(N)	11:48	1.0	Surface	1	1	28.97	8.11	16.68	86.4	6.06	6.0	7.9
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS10(N)	11:49	1.0	Surface	1	2	28.99	8.09	16.71	85.7	6.01	6.5	7.9
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS10(N)	11:48	5.4	Middle	2	1	29.02	8.15	18.78	84.6	5.86	5.3	7.2
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS10(N)	11:47	5.4	Middle	2	2	29.01	8.16	18.72	85.5	5.93	5.7	6.7
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS10(N)	11:48	9.8	Bottom	3	1	28.88	8.16	21.23	84.4	5.78	5.6	6.8
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	IS10(N)	11:47	9.8	Bottom	3	2	28.93	8.15	20.33	86.7	5.96	5.5	7.9
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR3(N)	12:30	1.0	Surface	1	1	29.19	7.90	21.90	84.4	5.73	6.9	7.6
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR3(N)	12:30	1.0	Surface	1	2	29.20	7.90	21.88	84.8	5.76	6.9	7.5
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR3(N)	12:30	2.6	Bottom	3	1	29.14	7.89	22.03	84.3	5.73	7.2	7.8
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR3(N)	12:29	2.6	Bottom	3	2	29.11	7.89	22.18	86.0	5.84	7.2	7.1
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR4(N)	11:44	1.0	Surface	1	1	29.27	7.91	19.39	83.4	5.74	8.1	9.1
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR4(N)	11:43	1.0	Surface	1	2	29.30	7.92	19.14	86.4	5.95	7.8	8.6
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR4(N)	11:43	2.8	Bottom	3	1	29.26	7.94	19.21	89.1	6.14	7.9	8.2
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR4(N)	11:44	2.8	Bottom	3	2	29.29	7.92	19.22	84.5	5.82	8.0	8.5
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR5(N)	12:00	1.0	Surface	1	1	29.00	8.08	16.74	86.0	6.03	6.5	6.1
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR5(N)	12:00	1.0	Surface	1	2	28.98	8.08	16.77	86.4	6.06	6.6	7.2
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR5(N)	12:00	3.9	Middle	2	1	29.02	8.10	18.68	85.7	5.94	6.3	5.0
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR5(N)	11:59	3.9	Middle	2	2	29.01	8.10	18.61	86.9	6.03	6.5	5.1
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR5(N)	11:59	6.8	Bottom	3	1	28.96	8.08	19.05	87.5	6.06	6.7	6.6
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR5(N)	12:00	6.8	Bottom	3	2	28.97	8.08	19.50	85.7	5.92	6.8	6.7
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR10A(N)	10:58	1.0	Surface	1	1	29.02	8.11	18.94	81.2	5.62	3.3	4.6
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR10A(N)	10:58	1.0	Surface	1	2	28.93	8.12	19.03	79.7	5.52	3.0	4.1
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR10A(N)	10:58	6.7	Middle	2	1	28.73	8.12	22.81	78.4	5.34	4.0	4.5
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR10A(N)	10:57	6.7	Middle	2	2	28.72	8.12	22.86	79.1	5.39	4.1	5.1
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR10A(N)	10:58	12.3	Bottom	3	1	28.74	8.10	23.27	80.2	5.44	4.4	3.8
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR10A(N)	10:57	12.3	Bottom	3	2	28.72	8.10	23.32	80.7	5.48	4.2	3.5
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR10B(N2)	10:46	1.0	Surface	1	1	28.95	8.10	19.03	87.5	6.02	4.3	4.3
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR10B(N2)	10:46	1.0	Surface	1	2	28.99	8.09	18.95	84.1	5.83	4.4	5.4
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR10B(N2)	10:46	3.4	Middle	2	1	28.89	8.12	19.15	85.5	5.92	4.1	4.2
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR10B(N2)	10:46	3.4	Middle	2	2	28.89	8.09	19.19	83.9	5.81	4.1	3.9
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR10B(N2)	10:45	5.7	Bottom	3	1	28.79	8.13	20.68	85.6	5.93	4.8	4.6
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	SR10B(N2)	10:46	5.7	Bottom	3	2	28.86	8.09	19.56	84.6	5.86	5.0	3.9

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	2018-06-20	Mid-Flood	Sunny	CS2(A)	12:54	1.0	Surface	1	1	29.17	8.21	16.55	93.4	6.54	7.7	4.8
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	CS2(A)	12:54	1.0	Surface	1	2	29.15	8.21	16.52	92.6	6.48	7.2	5.8
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	CS2(A)	12:54	3.8	Middle	2	1	28.84	8.21	18.34	86.5	6.03	8.6	6.5
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	CS2(A)	12:53	3.8	Middle	2	2	28.84	8.23	18.37	90.7	6.26	8.8	5.8
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	CS2(A)	12:54	6.5	Bottom	3	1	28.72	8.21	18.77	86.0	5.99	9.4	6.7
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	CS2(A)	12:53	6.5	Bottom	3	2	28.76	8.25	20.39	88.6	6.17	9.0	7.1
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	CS(Mf)5	11:13	1.0	Surface	1	1	28.89	7.91	18.64	75.1	5.22	6.0	7.2
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	CS(Mf)5	11:12	1.0	Surface	1	2	28.98	7.89	18.43	78.5	5.46	6.2	7.6
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	CS(Mf)5	11:12	6.3	Middle	2	1	28.81	7.90	22.18	75.8	5.04	6.2	7.7
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	CS(Mf)5	11:13	6.3	Middle	2	2	28.78	7.92	21.96	73.7	5.04	6.5	6.5
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	CS(Mf)5	11:13	11.6	Bottom	3	1	28.72	7.91	27.00	75.6	5.03	6.2	8.0
HKLR	HY/2011/03	2018-06-20	Mid-Flood	Sunny	CS(Mf)5	11:11	11.6	Bottom	3	2	28.68	7.90	27.29	73.4	5.01	6.2	8.4
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS5	9:52	1.0	Surface	1	1	29.55	8.10	20.25	82.9	5.65	7.5	6.5
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS5	9:52	1.0	Surface	1	2	29.39	8.11	20.37	80.4	5.49	7.7	6.3
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS5	9:52	4.1	Middle	2	1	29.23	8.11	22.65	79.3	5.36	7.8	8.1
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS5	9:52	4.1	Middle	2	2	29.27	8.11	22.64	80.3	5.42	7.8	8.4
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS5	9:51	7.2	Bottom	3	1	28.93	8.12	25.27	82.7	5.53	8.5	9.1
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS5	9:52	7.2	Bottom	3	2	29.21	8.10	25.21	80.7	5.38	9.0	8.0
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS(Mf)6	9:44	1.0	Surface	1	1	29.50	8.09	19.45	87.2	5.97	3.7	8.5
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS(Mf)6	9:44	1.0	Surface	1	2	29.50	8.10	19.43	88.5	6.06	3.7	8.6
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS(Mf)6	9:44	2.1	Bottom	3	1	29.49	8.09	19.46	87.7	6.01	3.7	9.0
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS(Mf)6	9:44	2.1	Bottom	3	2	29.50	8.09	19.44	87.7	6.01	3.6	8.6
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS7	9:37	1.0	Surface	1	1	29.49	8.08	19.43	81.7	5.60	4.5	8.7
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS7	9:37	1.0	Surface	1	2	29.49	8.08	19.40	81.6	5.59	4.4	7.9
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS7	9:37	2.3	Bottom	3	1	29.50	8.05	20.43	82.2	5.60	7.0	7.6
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS7	9:37	2.3	Bottom	3	2	29.50	8.06	20.67	83.0	5.65	7.3	8.2
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS8	9:09	1.0	Surface	1	1	29.53	8.09	19.03	89.4	6.14	4.3	6.2
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS8	9:09	1.0	Surface	1	2	29.52	8.09	19.05	91.4	6.26	4.4	6.5
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS8	9:09	2.9	Bottom	3	1	29.52	8.08	19.75	87.4	5.98	5.2	8.1
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS8	9:09	2.9	Bottom	3	2	29.50	8.11	19.49	86.7	5.95	4.9	9.3
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS(Mf)9	9:26	1.0	Surface	1	1	29.48	8.06	19.33	77.3	5.30	4.8	5.5
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS(Mf)9	9:26	1.0	Surface	1	2	29.49	8.08	19.40	78.9	5.40	4.4	6.2
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS(Mf)9	9:26	2.4	Bottom	3	1	29.48	8.02	20.63	77.8	5.30	5.0	8.0
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS(Mf)9	9:26	2.4	Bottom	3	2	29.48	8.05	20.30	78.7	5.37	5.3	7.5
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS10(N)	9:24	1.0	Surface	1	1	29.30	8.21	15.48	84.9	5.96	6.2	7.8
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS10(N)	9:23	1.0	Surface	1	2	29.37	8.20	15.12	85.6	6.02	6.1	7.1
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS10(N)	9:23	5.2	Middle	2	1	29.19	8.23	17.20	82.6	5.76	6.5	8.4
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS10(N)	9:24	5.2	Middle	2	2	29.20	8.21	17.62	82.9	5.76	6.6	8.4
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS10(N)	9:23	9.3	Bottom	3	1	29.16	8.21	19.01	81.5	5.63	7.1	8.1
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	IS10(N)	9:24	9.3	Bottom	3	2	29.17	8.20	18.95	81.9	5.66	7.3	7.6
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR3(N)	10:06	1.0	Surface	1	1	29.59	8.09	20.16	85.7	5.84	4.6	8.4
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR3(N)	10:06	1.0	Surface	1	2	29.57	8.09	20.45	86.1	5.86	5.1	9.7
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR3(N)	10:06	2.7	Bottom	3	1	29.51	8.08	21.18	85.1	5.78	5.3	7.6
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR3(N)	10:06	2.7	Bottom	3	2	29.57	8.09	20.66	86.1	5.86	5.1	7.1
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR4(N)	9:16	1.0	Surface	1	1	29.52	8.08	19.37	85.5	5.86	4.3	6.9
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR4(N)	9:16	1.0	Surface	1	2	29.53	8.08	19.16	85.3	5.85	4.1	6.4
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR4(N)	9:16	2.7	Bottom	3	1	29.54	8.07	19.95	85.4	5.83	5.5	6.0
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR4(N)	9:16	2.7	Bottom	3	2	29.52	8.08	19.60	85.6	5.85	5.0	6.5
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR5(N)	9:36	1.0	Surface	1	1	29.43	8.18	14.91	85.9	6.04	6.0	6.0
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR5(N)	9:35	1.0	Surface	1	2	29.38	8.18	15.34	86.0	6.04	6.1	6.8
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR5(N)	9:35	4.1	Middle	2	1	29.20	8.21	17.61	83.7	5.82	7.0	7.1
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR5(N)	9:36	4.1	Middle	2	2	29.19	8.20	18.01	83.6	5.80	6.8	7.4
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR5(N)	9:35	7.1	Bottom	3	1	29.19	8.20	19.17	82.6	5.69	7.4	6.4
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR5(N)	9:36	7.1	Bottom	3	2	29.20	8.20	19.02	82.8	5.71	7.3	6.7
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR10A(N)	8:19	1.0	Surface	1	1	29.03	8.21	21.46	83.0	5.67	2.3	3.2
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR10A(N)	8:20	1.0	Surface	1	2	29.05	8.21	21.20	83.1	5.68	2.4	3.7
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR10A(N)	8:20	6.7	Middle	2	1	28.96	8.20	22.36	82.2	5.59	2.8	5.8
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR10A(N)	8:19	6.7	Middle	2	2	28.95	8.21	22.44	81.9	5.57	2.7	6.1

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	2018-06-22	Mid-Ebb	Rainy	SR10A(N)	8:18	12.4	Bottom	3	1	28.94	8.20	22.88	81.6	5.54	3.2	5.3
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR10A(N)	8:19	12.4	Bottom	3	2	28.95	8.20	22.41	82.1	5.58	3.1	5.8
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR10B(N2)	8:03	1.0	Surface	1	1	29.05	8.20	21.15	83.5	5.71	3.3	6.0
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR10B(N2)	8:02	1.0	Surface	1	2	29.04	8.20	21.23	83.9	5.74	3.4	5.8
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR10B(N2)	8:02	3.8	Middle	2	1	28.97	8.20	22.50	81.8	5.56	3.5	3.3
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR10B(N2)	8:01	3.8	Middle	2	2	28.99	8.20	22.25	82.0	5.58	3.6	2.8
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR10B(N2)	8:01	6.5	Bottom	3	1	28.92	8.20	23.38	81.4	5.51	3.8	3.6
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	SR10B(N2)	8:02	6.5	Bottom	3	2	28.94	8.20	23.07	81.5	5.52	4.0	3.1
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	CS2(A)	10:32	1.0	Surface	1	1	29.37	8.28	14.95	82.9	5.84	8.4	5.4
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	CS2(A)	10:36	1.0	Surface	1	2	29.27	8.30	14.44	83.8	5.92	8.3	4.6
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	CS2(A)	10:32	3.8	Middle	2	1	29.05	8.26	20.08	78.0	5.37	9.3	5.5
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	CS2(A)	10:33	3.8	Middle	2	2	29.09	8.23	19.82	78.1	5.38	9.1	4.5
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	CS2(A)	10:32	6.5	Bottom	3	1	28.54	8.28	26.83	77.0	5.15	9.7	5.3
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	CS2(A)	10:31	6.5	Bottom	3	2	28.45	8.29	28.19	76.9	5.11	9.9	4.7
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	CS(Mf)5	8:35	1.0	Surface	1	1	29.23	8.05	19.93	83.3	5.72	3.1	4.0
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	CS(Mf)5	8:36	1.0	Surface	1	2	29.19	8.06	20.44	79.3	5.43	3.2	4.4
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	CS(Mf)5	8:35	6.2	Middle	2	1	28.96	8.06	25.10	83.9	5.62	3.1	5.1
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	CS(Mf)5	8:36	6.2	Middle	2	2	28.98	8.07	24.86	79.3	5.32	3.2	4.1
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	CS(Mf)5	8:36	11.3	Bottom	3	1	28.95	8.06	25.83	80.8	5.39	3.3	6.5
HKLR	HY/2011/03	2018-06-22	Mid-Ebb	Rainy	CS(Mf)5	8:35	11.3	Bottom	3	2	28.90	8.06	26.53	87.1	5.80	3.2	5.9
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS5	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS5	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS5	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS5	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS5	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS5	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS(Mf)6	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS(Mf)6	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS(Mf)6	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS(Mf)6	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS7	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS7	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS7	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS7	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS8	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS8	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS8	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS8	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS(Mf)9	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS(Mf)9	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS(Mf)9	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS(Mf)9	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS10(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS10(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS10(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS10(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS10(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	IS10(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR3(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR3(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR3(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR3(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR4(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR4(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR4(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR4(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR5(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR5(N)	-	-	Surface	1	2	-	-	-	-	-	-	-

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	2018-06-22	Mid-Flood	Rainy	SR5(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR5(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR5(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR5(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR10A(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR10A(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR10A(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR10A(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR10A(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR10A(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR10B(N2)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR10B(N2)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR10B(N2)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR10B(N2)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR10B(N2)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	SR10B(N2)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	CS2(A)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	CS2(A)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	CS2(A)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	CS2(A)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	CS2(A)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	CS2(A)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	CS(Mf)5	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	CS(Mf)5	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	CS(Mf)5	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	CS(Mf)5	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	CS(Mf)5	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-22	Mid-Flood	Rainy	CS(Mf)5	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS5	12:36	1.0	Surface	1	1	29.00	8.02	20.98	82.5	5.54	10.6	5.9
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS5	12:37	1.0	Surface	1	2	28.85	8.03	21.93	77.4	5.30	10.9	6.8
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS5	12:36	4.1	Middle	2	1	28.77	8.02	23.78	77.4	5.24	10.8	7.1
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS5	12:37	4.1	Middle	2	2	28.60	8.03	24.91	74.1	5.05	10.8	7.9
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS5	12:36	7.2	Bottom	3	1	28.50	8.02	26.64	71.7	4.84	10.8	7.2
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS5	12:36	7.2	Bottom	3	2	28.54	8.02	25.98	73.8	4.94	10.9	7.0
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS(Mf)6	12:27	1.0	Surface	1	1	28.79	7.99	22.44	77.5	5.30	10.5	5.7
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS(Mf)6	12:27	1.0	Surface	1	2	28.84	8.00	21.86	81.7	5.57	10.5	6.4
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS(Mf)6	12:27	2.1	Bottom	3	1	28.79	7.98	22.63	73.5	5.01	10.7	7.1
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS(Mf)6	12:27	2.1	Bottom	3	2	28.77	7.99	22.64	70.8	4.83	10.2	6.5
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS7	12:18	1.0	Surface	1	1	28.81	8.01	21.90	83.8	5.73	4.6	5.4
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS7	12:18	1.0	Surface	1	2	28.81	8.01	21.75	80.8	5.53	4.6	5.2
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS7	12:17	2.0	Bottom	3	1	28.80	8.01	22.31	86.9	5.93	4.6	6.3
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS7	12:18	2.0	Bottom	3	2	28.80	8.00	23.88	82.8	5.60	4.8	6.7
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS8	11:44	1.0	Surface	1	1	28.83	8.02	22.22	76.4	5.21	12.3	7.3
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS8	11:44	1.0	Surface	1	2	28.80	8.02	22.55	77.3	5.27	12.2	6.5
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS8	11:44	2.6	Bottom	3	1	28.82	8.02	22.29	76.7	5.23	12.5	7.7
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS8	11:44	2.6	Bottom	3	2	28.78	8.01	22.89	77.9	5.30	12.5	7.1
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS(Mf)9	12:09	1.0	Surface	1	1	28.86	8.00	21.62	84.2	5.76	4.7	6.4
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS(Mf)9	12:10	1.0	Surface	1	2	28.83	8.00	21.71	82.2	5.62	4.8	5.7
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS(Mf)9	12:09	2.5	Bottom	3	1	28.79	8.01	21.67	86.8	5.94	4.7	7.7
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS(Mf)9	12:09	2.5	Bottom	3	2	28.85	8.00	21.73	83.1	5.69	4.8	7.1
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS10(N)	11:53	1.0	Surface	1	1	28.86	8.25	18.26	84.3	5.77	6.3	5.7
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS10(N)	11:53	1.0	Surface	1	2	28.89	8.26	18.24	87.3	5.97	6.7	5.5
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS10(N)	11:53	5.3	Middle	2	1	28.73	8.24	20.46	82.5	5.75	7.2	5.6
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS10(N)	11:53	5.3	Middle	2	2	28.71	8.26	20.28	84.2	5.87	7.0	4.9
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS10(N)	11:53	9.6	Bottom	3	1	28.63	8.25	22.57	83.1	5.74	7.7	6.7
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	IS10(N)	11:53	9.6	Bottom	3	2	28.73	8.23	21.86	81.5	5.63	7.4	6.3
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR3(N)	12:47	1.0	Surface	1	1	28.89	8.02	20.54	83.6	5.75	4.4	5.5
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR3(N)	12:48	1.0	Surface	1	2	28.91	8.03	20.51	83.3	5.73	4.3	5.1

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	2018-06-25	Mid-Ebb	Sunny	SR3(N)	12:47	2.3	Bottom	3	1	28.86	8.01	21.18	83.3	5.71	4.4	5.6
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR3(N)	12:47	2.3	Bottom	3	2	28.83	8.01	21.20	85.7	5.88	4.5	5.8
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR4(N)	11:59	1.0	Surface	1	1	28.89	7.97	21.49	77.6	5.31	8.9	9.6
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR4(N)	11:59	1.0	Surface	1	2	28.89	7.97	21.13	81.2	5.57	8.9	9.3
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR4(N)	11:58	2.6	Bottom	3	1	28.85	7.98	21.82	87.7	5.99	8.9	9.5
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR4(N)	11:59	2.6	Bottom	3	2	28.89	7.97	21.45	79.6	5.44	9.2	8.6
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR5(N)	12:04	1.0	Surface	1	1	28.87	8.24	18.38	81.5	5.68	6.6	6.0
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR5(N)	12:05	1.0	Surface	1	2	28.86	8.24	18.33	82.6	5.76	6.2	6.8
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR5(N)	12:05	4.0	Middle	2	1	28.77	8.24	19.93	81.9	5.66	7.4	6.4
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR5(N)	12:04	4.0	Middle	2	2	28.73	8.23	19.99	79.7	5.51	7.5	6.5
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR5(N)	12:04	7.0	Bottom	3	1	28.67	8.22	20.89	80.1	5.52	7.3	7.3
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR5(N)	12:04	7.0	Bottom	3	2	28.75	8.22	20.82	82.5	5.68	7.4	6.7
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR10A(N)	10:43	1.0	Surface	1	1	28.52	8.17	24.35	79.5	5.39	2.8	5.4
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR10A(N)	10:43	1.0	Surface	1	2	28.47	8.16	24.75	79.4	5.37	2.6	5.0
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR10A(N)	10:43	6.7	Middle	2	1	28.38	8.15	25.62	77.9	5.25	2.5	5.9
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR10A(N)	10:43	6.7	Middle	2	2	28.39	8.16	25.61	77.8	5.25	2.5	6.1
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR10A(N)	10:42	12.3	Bottom	3	1	28.38	8.15	25.63	78.8	5.31	2.3	8.2
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR10A(N)	10:43	12.3	Bottom	3	2	28.40	8.15	25.53	78.4	5.29	2.5	8.3
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR10B(N2)	10:31	1.0	Surface	1	1	28.52	8.15	24.33	81.2	5.48	2.3	4.1
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR10B(N2)	10:30	1.0	Surface	1	2	28.52	8.12	24.36	83.7	5.65	2.3	4.7
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR10B(N2)	10:30	3.7	Middle	2	1	28.38	8.13	25.49	81.4	5.51	2.5	5.9
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR10B(N2)	10:31	3.7	Middle	2	2	28.39	8.13	25.42	80.4	5.45	2.4	5.8
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR10B(N2)	10:31	6.3	Bottom	3	1	28.43	8.12	25.40	79.6	5.37	3.6	8.3
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	SR10B(N2)	10:30	6.3	Bottom	3	2	28.38	8.12	25.53	81.0	5.47	3.8	7.8
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	CS2(A)	12:56	1.0	Surface	1	1	28.95	8.25	19.02	81.3	5.63	8.9	6.6
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	CS2(A)	12:56	1.0	Surface	1	2	28.84	8.25	19.20	78.1	5.41	9.0	6.7
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	CS2(A)	12:56	3.7	Middle	2	1	28.78	8.22	21.27	77.0	5.28	9.3	7.2
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	CS2(A)	12:55	3.7	Middle	2	2	28.76	8.23	21.42	77.7	5.33	9.2	7.3
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	CS2(A)	12:56	6.3	Bottom	3	1	28.75	8.22	21.55	78.0	5.35	9.8	8.8
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	CS2(A)	12:55	6.3	Bottom	3	2	28.74	8.24	21.59	78.5	5.38	9.5	8.3
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	CS(Mf)5	10:59	1.0	Surface	1	1	28.91	7.96	22.07	77.2	5.26	5.4	5.1
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	CS(Mf)5	11:00	1.0	Surface	1	2	28.89	7.97	21.99	75.5	5.15	5.5	5.3
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	CS(Mf)5	11:00	6.1	Middle	2	1	28.56	7.96	25.68	75.2	5.00	6.8	5.9
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	CS(Mf)5	10:59	6.1	Middle	2	2	28.57	7.95	25.65	77.4	5.14	6.7	5.7
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	CS(Mf)5	10:59	11.2	Bottom	3	1	28.26	7.93	28.66	73.3	4.93	6.7	7.4
HKLR	HY/2011/03	2018-06-25	Mid-Ebb	Sunny	CS(Mf)5	11:00	11.2	Bottom	3	2	28.51	7.94	28.18	72.9	4.90	6.7	6.8
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS5	16:54	1.0	Surface	1	1	29.05	7.99	21.28	81.8	5.55	7.7	4.3
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS5	16:54	1.0	Surface	1	2	29.06	7.99	21.29	79.9	5.46	7.6	4.2
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS5	16:54	4.2	Middle	2	1	28.89	7.96	22.38	80.6	5.43	10.4	5.0
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS5	16:53	4.2	Middle	2	2	28.84	7.96	22.29	79.7	5.38	10.5	5.8
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS5	16:54	7.4	Bottom	3	1	28.81	7.95	24.36	75.8	5.16	10.3	5.8
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS5	16:53	7.4	Bottom	3	2	28.69	7.95	24.46	76.2	5.19	10.8	6.1
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS(Mf)6	17:04	1.0	Surface	1	1	29.09	7.99	21.23	88.6	6.05	10.4	5.0
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS(Mf)6	17:04	1.0	Surface	1	2	29.09	7.99	21.25	89.0	6.08	10.6	5.4
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS(Mf)6	17:04	2.0	Bottom	3	1	29.05	7.97	21.74	88.1	6.01	10.5	5.4
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS(Mf)6	17:04	2.0	Bottom	3	2	29.07	7.98	21.58	89.0	6.07	10.5	5.5
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS7	17:16	1.0	Surface	1	1	28.98	8.00	21.06	93.7	6.41	4.9	4.7
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS7	17:16	1.0	Surface	1	2	28.98	7.99	21.08	90.7	6.21	4.9	5.4
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS7	17:16	2.1	Bottom	3	1	28.99	7.97	21.40	90.8	6.20	4.8	5.4
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS7	17:16	2.1	Bottom	3	2	28.99	7.99	21.12	92.2	6.31	4.8	5.9
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS8	17:45	1.0	Surface	1	1	28.98	7.98	21.35	76.7	5.25	8.7	6.6
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS8	17:45	1.0	Surface	1	2	28.98	7.98	21.37	79.2	5.41	8.7	6.5
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS8	17:45	2.9	Bottom	3	1	28.99	7.97	23.10	78.8	5.34	8.6	8.3
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS8	17:45	2.9	Bottom	3	2	28.89	7.94	23.57	76.7	5.19	8.5	8.4
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS(Mf)9	17:27	1.0	Surface	1	1	28.95	7.96	22.51	85.9	5.84	10.5	6.2
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS(Mf)9	17:27	1.0	Surface	1	2	28.97	7.96	22.36	90.5	6.16	10.2	6.4
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS(Mf)9	17:27	2.7	Bottom	3	1	28.92	7.97	22.53	84.3	5.72	11.2	7.3
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS(Mf)9	17:27	2.7	Bottom	3	2	28.92	7.95	22.82	82.7	5.62	11.1	6.8

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	2018-06-25	Mid-Flood	Sunny	IS10(N)	17:40	1.0	Surface	1	1	29.00	8.29	17.26	87.3	6.10	7.0	7.9
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS10(N)	17:40	1.0	Surface	1	2	29.01	8.28	17.57	87.0	6.07	7.0	8.6
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS10(N)	17:39	5.3	Middle	2	1	28.73	8.23	22.12	85.0	5.81	7.8	13.6
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS10(N)	17:40	5.3	Middle	2	2	28.73	8.22	22.09	83.1	5.68	7.2	13.9
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS10(N)	17:39	9.6	Bottom	3	1	28.80	8.24	22.05	89.4	6.11	9.4	12.1
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	IS10(N)	17:40	9.6	Bottom	3	2	28.80	8.23	22.17	88.7	6.05	9.3	11.8
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR3(N)	16:46	1.0	Surface	1	1	29.02	7.98	21.51	80.7	5.51	9.4	14.2
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR3(N)	16:45	1.0	Surface	1	2	29.01	7.97	21.63	82.1	5.60	9.3	14.7
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR3(N)	16:45	2.4	Bottom	3	1	28.92	7.96	22.15	84.5	5.76	9.3	15.2
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR3(N)	16:45	2.4	Bottom	3	2	28.94	7.96	22.66	81.4	5.53	9.3	14.3
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR4(N)	17:39	1.0	Surface	1	1	29.00	7.97	21.69	84.0	5.73	8.6	5.8
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR4(N)	17:39	1.0	Surface	1	2	29.00	7.97	21.47	83.1	5.68	8.7	4.7
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR4(N)	17:39	2.6	Bottom	3	1	29.00	7.96	22.37	83.9	5.70	8.8	5.2
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR4(N)	17:39	2.6	Bottom	3	2	28.97	7.95	22.72	85.2	5.78	8.6	5.8
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR5(N)	17:32	1.0	Surface	1	1	29.01	8.32	17.39	94.3	6.44	5.9	4.4
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR5(N)	17:32	1.0	Surface	1	2	28.96	8.30	17.35	89.5	6.13	6.1	5.1
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR5(N)	17:31	4.2	Middle	2	1	28.78	8.28	21.49	88.2	6.17	6.5	4.8
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR5(N)	17:32	4.2	Middle	2	2	28.81	8.26	21.31	90.4	6.19	6.2	5.1
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR5(N)	17:31	7.3	Bottom	3	1	28.85	8.30	21.91	87.5	6.00	6.8	4.8
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR5(N)	17:32	7.3	Bottom	3	2	28.82	8.26	21.73	90.4	6.31	7.2	5.0
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR10A(N)	18:41	1.0	Surface	1	1	28.58	8.22	23.95	80.1	5.44	3.8	4.9
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR10A(N)	18:41	1.0	Surface	1	2	28.52	8.23	24.29	79.3	5.38	4.1	4.2
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR10A(N)	18:40	6.6	Middle	2	1	28.42	8.23	25.26	80.4	5.43	4.0	5.2
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR10A(N)	18:41	6.6	Middle	2	2	28.45	8.23	25.00	78.6	5.31	4.4	5.6
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR10A(N)	18:41	12.1	Bottom	3	1	28.41	8.22	25.42	78.7	5.31	5.2	8.7
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR10A(N)	18:40	12.1	Bottom	3	2	28.44	8.22	25.21	82.3	5.56	5.0	9.5
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR10B(N2)	18:51	1.0	Surface	1	1	28.55	8.22	23.99	79.3	5.38	4.0	4.6
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR10B(N2)	18:51	1.0	Surface	1	2	28.56	8.22	23.93	78.9	5.36	4.2	5.7
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR10B(N2)	18:51	3.5	Middle	2	1	28.51	8.23	24.59	79.5	5.38	4.1	6.1
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR10B(N2)	18:51	3.5	Middle	2	2	28.51	8.23	24.57	79.3	5.37	3.9	5.5
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR10B(N2)	18:51	5.9	Bottom	3	1	28.51	8.23	24.64	79.0	5.35	5.0	5.8
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	SR10B(N2)	18:51	5.9	Bottom	3	2	28.49	8.23	24.82	78.9	5.33	5.2	6.2
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	CS2(A)	16:35	1.0	Surface	1	1	28.95	8.22	17.26	84.7	5.87	8.9	18.3
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	CS2(A)	16:36	1.0	Surface	1	2	28.97	8.20	17.38	89.0	6.12	9.3	17.9
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	CS2(A)	16:35	3.8	Middle	2	1	28.86	8.21	19.31	80.4	5.62	9.7	16.6
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	CS2(A)	16:35	3.8	Middle	2	2	28.78	8.19	20.06	83.6	5.85	10.1	18.2
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	CS2(A)	16:35	6.6	Bottom	3	1	28.57	8.18	22.06	80.3	5.50	12.1	15.9
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	CS2(A)	16:35	6.6	Bottom	3	2	28.82	8.21	20.86	77.7	5.37	11.3	16.2
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	CS(Mf)5	18:15	1.0	Surface	1	1	28.92	7.98	20.99	78.7	5.40	6.2	6.9
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	CS(Mf)5	18:14	1.0	Surface	1	2	28.91	7.97	21.02	76.9	5.27	6.2	6.3
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	CS(Mf)5	18:15	6.3	Middle	2	1	28.44	7.96	27.71	75.7	5.01	6.4	6.5
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	CS(Mf)5	18:14	6.3	Middle	2	2	28.46	7.95	27.66	78.2	5.18	6.2	6.0
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	CS(Mf)5	18:14	11.5	Bottom	3	1	28.17	7.94	29.47	71.6	4.77	6.6	10.0
HKLR	HY/2011/03	2018-06-25	Mid-Flood	Sunny	CS(Mf)5	18:14	11.5	Bottom	3	2	28.49	7.95	28.82	71.9	4.79	6.5	10.3
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS5	12:07	1.0	Surface	1	1	29.26	7.97	19.52	79.3	5.41	5.0	5.0
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS5	12:07	1.0	Surface	1	2	29.41	7.97	19.04	80.3	5.52	4.8	5.7
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS5	12:07	4.3	Middle	2	1	29.18	7.96	20.68	78.6	5.37	7.0	5.9
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS5	12:06	4.3	Middle	2	2	29.13	7.96	20.91	77.9	5.35	6.7	5.3
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS5	12:07	7.6	Bottom	3	1	29.17	7.96	21.06	77.2	5.28	7.5	6.1
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS5	12:06	7.6	Bottom	3	2	29.05	7.95	21.42	77.0	5.26	7.8	6.5
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS(Mf)6	12:15	1.0	Surface	1	1	29.53	7.95	19.41	85.9	5.88	8.5	5.5
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS(Mf)6	12:15	1.0	Surface	1	2	29.58	7.94	19.33	87.6	5.99	7.8	5.7
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS(Mf)6	12:15	2.2	Bottom	3	1	29.41	7.95	20.11	84.1	5.75	9.8	5.9
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS(Mf)6	12:15	2.2	Bottom	3	2	29.40	7.93	19.96	83.9	5.74	10.2	6.0
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS7	12:29	1.0	Surface	1	1	29.68	7.95	19.17	85.8	5.87	4.8	4.8
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS7	12:29	1.0	Surface	1	2	29.69	7.95	19.12	85.5	5.85	5.0	4.7
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS7	12:29	2.5	Bottom	3	1	29.57	7.94	20.37	85.5	5.82	5.8	5.9
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS7	12:29	2.5	Bottom	3	2	29.47	7.93	20.39	86.1	5.87	5.4	6.4

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	2018-06-27	Mid-Ebb	Sunny	IS8	13:01	1.0	Surface	1	1	30.09	7.99	19.42	89.7	6.09	5.1	5.5
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS8	13:02	1.0	Surface	1	2	30.21	8.00	19.29	94.1	6.38	5.6	4.9
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS8	13:01	3.1	Bottom	3	1	29.50	7.97	20.17	87.6	5.97	8.2	6.6
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS8	13:02	3.1	Bottom	3	2	29.76	7.98	19.96	90.6	6.16	7.6	6.0
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS(Mf)9	12:36	1.0	Surface	1	1	29.60	7.95	19.12	83.6	5.73	5.9	4.8
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS(Mf)9	12:37	1.0	Surface	1	2	29.65	7.96	19.10	85.2	5.83	6.3	4.4
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS(Mf)9	12:36	2.6	Bottom	3	1	29.59	7.94	20.01	85.2	5.81	6.9	4.9
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS(Mf)9	12:36	2.6	Bottom	3	2	29.40	7.93	20.16	83.3	5.69	7.2	5.2
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS10(N)	12:57	1.0	Surface	1	1	29.48	8.15	15.44	81.0	5.68	6.0	3.1
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS10(N)	12:58	1.0	Surface	1	2	29.50	8.16	15.40	80.5	5.64	5.7	3.5
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS10(N)	12:57	5.2	Middle	2	1	29.31	8.19	17.67	76.2	5.33	6.6	3.9
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS10(N)	12:58	5.2	Middle	2	2	29.32	8.22	17.79	76.0	5.29	6.8	3.6
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS10(N)	12:57	9.4	Bottom	3	1	28.94	8.11	23.74	75.2	5.12	7.5	4.1
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	IS10(N)	12:56	9.4	Bottom	3	2	28.93	8.10	23.73	74.0	5.13	7.1	4.3
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR3(N)	11:55	1.0	Surface	1	1	29.39	7.97	19.04	86.8	5.97	6.4	5.8
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR3(N)	11:56	1.0	Surface	1	2	29.44	7.97	18.96	83.7	5.76	6.4	6.2
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR3(N)	11:55	2.7	Bottom	3	1	29.27	7.97	19.45	84.6	5.82	6.8	5.9
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR3(N)	11:55	2.7	Bottom	3	2	29.38	7.96	19.46	84.1	5.77	6.6	6.6
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR4(N)	12:49	1.0	Surface	1	1	30.20	8.00	19.13	94.3	6.40	8.2	4.8
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR4(N)	12:49	1.0	Surface	1	2	30.50	8.01	18.34	95.9	6.50	8.0	5.4
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR4(N)	12:48	2.8	Bottom	3	1	29.99	8.00	19.26	92.0	6.26	8.3	5.0
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR4(N)	12:49	2.8	Bottom	3	2	29.68	7.98	19.93	93.6	6.37	8.6	4.8
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR5(N)	12:46	1.0	Surface	1	1	29.92	8.11	14.40	83.9	5.87	8.4	2.9
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR5(N)	12:47	1.0	Surface	1	2	29.93	8.13	14.32	83.5	5.84	8.2	3.4
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR5(N)	12:47	4.0	Middle	2	1	29.00	8.12	18.08	75.4	5.25	8.7	3.0
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR5(N)	12:46	4.0	Middle	2	2	29.00	8.12	18.17	74.5	5.18	8.9	3.7
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR5(N)	12:46	7.0	Bottom	3	1	28.99	8.12	18.75	78.9	5.48	9.4	3.9
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR5(N)	12:45	7.0	Bottom	3	2	28.99	8.11	18.72	77.7	5.40	9.4	3.7
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR10A(N)	13:45	1.0	Surface	1	1	29.55	8.17	17.29	86.8	6.01	5.3	4.6
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR10A(N)	13:44	1.0	Surface	1	2	29.57	8.18	17.22	87.2	6.04	5.5	4.2
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR10A(N)	13:43	6.9	Middle	2	1	29.30	8.14	18.27	85.0	5.87	5.9	5.2
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR10A(N)	13:45	6.9	Middle	2	2	29.31	8.16	18.29	85.2	5.89	6.1	5.7
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR10A(N)	13:43	12.8	Bottom	3	1	29.16	8.13	19.34	86.5	5.97	6.3	5.3
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR10A(N)	13:44	12.8	Bottom	3	2	29.15	8.14	19.35	86.2	5.94	6.3	5.8
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR10B(N2)	13:55	1.0	Surface	1	1	29.08	8.18	19.40	84.7	5.83	4.7	5.4
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR10B(N2)	13:54	1.0	Surface	1	2	29.08	8.18	19.40	85.2	5.88	4.8	4.6
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR10B(N2)	13:54	3.8	Middle	2	1	29.03	8.18	19.63	83.8	5.78	5.4	5.5
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR10B(N2)	13:53	3.8	Middle	2	2	29.04	8.18	19.58	84.3	5.81	5.2	6.1
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR10B(N2)	13:54	6.6	Bottom	3	1	29.01	8.17	20.06	83.2	5.73	5.6	6.3
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	SR10B(N2)	13:53	6.6	Bottom	3	2	28.99	8.18	20.07	83.0	5.72	5.8	6.5
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	CS2(A)	11:45	1.0	Surface	1	1	29.73	8.20	16.73	87.7	6.07	7.4	3.2
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	CS2(A)	11:44	1.0	Surface	1	2	29.74	8.20	16.69	87.7	6.08	7.2	2.6
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	CS2(A)	11:45	3.8	Middle	2	1	28.39	8.15	23.68	77.8	5.30	7.9	2.9
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	CS2(A)	11:43	3.8	Middle	2	2	28.36	8.14	23.67	78.1	5.30	7.7	3.3
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	CS2(A)	11:43	6.6	Bottom	3	1	28.20	8.11	25.87	82.0	5.54	8.3	3.2
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	CS2(A)	11:44	6.6	Bottom	3	2	28.21	8.13	25.84	81.9	5.54	8.4	3.6
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	CS(Mf)5	13:29	1.0	Surface	1	1	29.52	7.96	18.30	81.3	5.54	6.6	3.6
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	CS(Mf)5	13:28	1.0	Surface	1	2	29.80	7.95	17.57	79.8	5.49	6.3	3.3
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	CS(Mf)5	13:28	6.2	Middle	2	1	28.91	7.96	21.16	77.3	5.33	7.9	4.1
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	CS(Mf)5	13:27	6.2	Middle	2	2	28.84	7.96	21.42	77.9	5.36	8.0	3.9
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	CS(Mf)5	13:28	11.3	Bottom	3	1	28.84	7.95	21.87	74.5	5.09	8.3	4.3
HKLR	HY/2011/03	2018-06-27	Mid-Ebb	Sunny	CS(Mf)5	13:27	11.3	Bottom	3	2	28.97	7.95	21.96	73.8	5.04	8.8	4.1
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	ISS	5:52	1.0	Surface	1	1	28.86	8.07	18.84	82.0	5.52	6.6	4.0
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	ISS	5:53	1.0	Surface	1	2	28.90	8.07	18.83	83.1	5.68	6.3	5.0
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	ISS	5:52	4.2	Middle	2	1	28.01	8.05	21.62	79.5	5.44	9.1	5.0
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	ISS	5:52	4.2	Middle	2	2	28.01	8.04	21.93	78.8	5.35	8.8	5.3
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	ISS	5:52	7.4	Bottom	3	1	27.83	8.04	24.46	76.5	5.16	11.7	7.0
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	ISS	5:52	7.4	Bottom	3	2	28.38	8.04	23.09	75.9	5.18	12.1	7.3

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	2018-06-27	Mid-Flood	Fine	IS(Mf)6	5:44	1.0	Surface	1	1	28.90	8.08	18.89	90.0	6.15	5.4	6.8
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS(Mf)6	5:44	1.0	Surface	1	2	28.88	8.08	18.94	90.0	6.15	5.7	6.6
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS(Mf)6	5:44	2.3	Bottom	3	1	28.87	8.07	19.04	90.2	6.16	5.7	6.7
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS(Mf)6	5:43	2.3	Bottom	3	2	28.81	8.07	19.16	89.8	6.14	5.7	6.2
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS7	5:35	1.0	Surface	1	1	28.90	8.08	18.79	89.2	6.10	5.0	6.7
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS7	5:35	1.0	Surface	1	2	28.84	8.08	18.90	88.7	6.06	4.7	6.8
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS7	5:35	2.6	Bottom	3	1	28.88	8.08	18.98	88.9	6.08	5.6	7.1
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS7	5:34	2.6	Bottom	3	2	28.75	8.07	19.16	88.9	6.08	5.2	7.2
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS8	5:08	1.0	Surface	1	1	28.86	8.12	18.85	87.6	5.99	5.6	7.3
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS8	5:08	1.0	Surface	1	2	28.87	8.12	18.85	87.9	6.01	6.0	7.5
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS8	5:08	2.9	Bottom	3	1	28.75	8.11	19.38	87.5	5.98	6.0	8.2
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS8	5:08	2.9	Bottom	3	2	28.83	8.12	19.12	86.9	5.94	5.7	8.7
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS(Mf)9	5:27	1.0	Surface	1	1	28.88	8.09	18.85	88.1	6.03	4.7	7.1
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS(Mf)9	5:26	1.0	Surface	1	2	28.87	8.09	18.78	89.1	6.10	5.0	6.4
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS(Mf)9	5:26	2.7	Bottom	3	1	28.87	8.08	19.07	89.7	6.13	5.2	6.1
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS(Mf)9	5:27	2.7	Bottom	3	2	28.74	8.08	19.30	87.9	6.01	5.5	6.9
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS10(N)	5:23	1.0	Surface	1	1	28.32	8.09	15.14	79.8	5.59	7.6	4.8
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS10(N)	5:24	1.0	Surface	1	2	28.34	8.10	14.99	79.4	5.57	7.7	5.3
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS10(N)	5:24	5.3	Middle	2	1	27.96	8.14	17.42	75.2	5.24	8.2	6.0
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS10(N)	5:23	5.3	Middle	2	2	27.95	8.14	17.33	75.9	5.29	8.2	5.6
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS10(N)	5:22	9.6	Bottom	3	1	27.35	8.04	23.38	76.4	5.20	8.9	5.8
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	IS10(N)	5:23	9.6	Bottom	3	2	27.36	8.05	23.23	76.1	5.19	8.9	5.7
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR3(N)	6:02	1.0	Surface	1	1	28.82	8.05	18.86	85.9	5.88	7.3	5.8
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR3(N)	6:03	1.0	Surface	1	2	28.86	8.05	18.86	87.0	5.95	6.9	6.4
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR3(N)	6:02	2.9	Bottom	3	1	28.58	8.04	19.75	85.0	5.81	8.0	7.5
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR3(N)	6:03	2.9	Bottom	3	2	28.66	8.04	19.72	86.3	5.89	7.8	7.9
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR4(N)	5:17	1.0	Surface	1	1	28.84	8.11	18.82	87.2	5.97	6.6	7.1
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR4(N)	5:18	1.0	Surface	1	2	28.88	8.10	18.73	87.9	6.01	6.0	7.2
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR4(N)	5:17	2.8	Bottom	3	1	28.67	8.10	19.46	86.7	5.93	7.7	8.1
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR4(N)	5:18	2.8	Bottom	3	2	28.71	8.09	19.30	86.9	5.94	7.4	8.7
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR5(N)	5:32	1.0	Surface	1	1	28.50	8.07	14.41	77.7	5.46	9.5	4.0
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR5(N)	5:33	1.0	Surface	1	2	28.52	8.08	14.35	77.4	5.43	9.3	4.3
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR5(N)	5:32	4.1	Middle	2	1	27.81	8.05	17.87	75.4	5.24	10.4	4.8
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR5(N)	5:33	4.1	Middle	2	2	27.80	8.07	17.93	74.5	5.18	10.7	5.0
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR5(N)	5:31	7.2	Bottom	3	1	27.67	8.05	19.24	76.3	5.30	11.5	5.6
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR5(N)	5:33	7.2	Bottom	3	2	27.70	8.07	19.21	76.3	5.28	12.0	6.4
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR10A(N)	4:34	1.0	Surface	1	1	28.32	8.12	17.44	87.1	6.02	4.9	4.7
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR10A(N)	4:33	1.0	Surface	1	2	28.32	8.11	17.43	87.3	6.04	5.0	5.0
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR10A(N)	4:33	7.1	Middle	2	1	28.05	8.10	17.93	85.5	5.92	5.5	6.0
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR10A(N)	4:34	7.1	Middle	2	2	28.03	8.09	18.00	85.2	5.90	5.4	6.3
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR10A(N)	4:34	13.2	Bottom	3	1	27.72	8.07	20.21	84.3	5.79	5.9	6.2
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR10A(N)	4:32	13.2	Bottom	3	2	27.74	8.07	20.18	84.7	5.82	6.2	5.8
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR10B(N2)	4:24	1.0	Surface	1	1	27.90	8.10	19.33	83.2	5.74	5.0	7.3
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR10B(N2)	4:25	1.0	Surface	1	2	27.88	8.10	19.37	82.6	5.70	5.1	7.2
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR10B(N2)	4:23	3.9	Middle	2	1	27.83	8.11	19.64	82.8	5.71	6.3	7.9
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR10B(N2)	4:24	3.9	Middle	2	2	27.81	8.10	19.67	82.4	5.67	6.1	7.3
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR10B(N2)	4:23	6.8	Bottom	3	1	27.78	8.10	20.31	83.0	5.70	6.6	7.9
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	SR10B(N2)	4:24	6.8	Bottom	3	2	27.77	8.10	20.30	82.5	5.68	6.9	7.6
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	CS2(A)	6:22	1.0	Surface	1	1	28.41	8.14	17.03	81.6	5.65	7.9	5.7
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	CS2(A)	6:23	1.0	Surface	1	2	28.39	8.14	17.01	82.0	5.68	7.8	6.3
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	CS2(A)	6:23	3.9	Middle	2	1	27.20	8.08	23.77	74.7	5.08	8.4	5.5
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	CS2(A)	6:22	3.9	Middle	2	2	27.17	8.08	23.72	75.8	5.15	8.3	5.3
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	CS2(A)	6:23	6.8	Bottom	3	1	26.91	8.06	26.44	81.2	5.48	8.8	6.5
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	CS2(A)	6:21	6.8	Bottom	3	2	26.92	8.05	26.52	82.1	5.52	8.6	5.7
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	CS(Mf)5	4:34	1.0	Surface	1	1	28.84	8.14	18.70	82.6	5.68	4.9	7.6
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	CS(Mf)5	4:33	1.0	Surface	1	2	28.77	8.14	18.71	81.8	5.55	4.7	7.3
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	CS(Mf)5	4:34	6.2	Middle	2	1	27.84	8.14	22.72	79.2	5.42	5.6	7.5
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	CS(Mf)5	4:33	6.2	Middle	2	2	28.12	8.14	21.07	78.5	5.38	6.0	7.3

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	2018-06-27	Mid-Flood	Fine	CS(Mf)5	4:34	11.3	Bottom	3	1	27.78	8.16	24.00	75.2	5.13	6.9	9.6
HKLR	HY/2011/03	2018-06-27	Mid-Flood	Fine	CS(Mf)5	4:33	11.3	Bottom	3	2	28.02	8.16	22.90	74.0	5.05	7.3	9.8
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS5	12:29	1.0	Surface	1	1	29.72	7.86	19.71	88.9	6.06	6.2	6.0
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS5	12:30	1.0	Surface	1	2	29.65	7.84	20.13	85.3	5.81	6.5	8.1
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS5	12:30	4.5	Middle	2	1	29.49	7.83	21.87	77.0	5.20	13.3	8.3
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS5	12:28	4.5	Middle	2	2	29.53	7.85	21.52	75.9	5.13	13.2	7.0
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS5	12:28	8.0	Bottom	3	1	28.91	7.82	26.64	68.2	4.55	37.1	13.7
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS5	12:29	8.0	Bottom	3	2	28.93	7.80	26.58	68.7	4.57	38.2	12.9
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS(Mf)6	12:44	1.0	Surface	1	1	30.42	7.81	20.22	124.6	8.37	4.7	7.0
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS(Mf)6	12:44	1.0	Surface	1	2	30.56	7.82	20.04	121.1	8.12	4.6	6.9
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS(Mf)6	12:44	2.5	Bottom	3	1	30.38	7.80	20.46	125.1	8.40	4.7	6.6
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS(Mf)6	12:44	2.5	Bottom	3	2	30.06	7.77	20.96	115.7	7.79	4.9	6.3
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS7	12:54	1.0	Surface	1	1	30.01	7.81	20.36	107.3	7.25	5.3	8.2
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS7	12:54	1.0	Surface	1	2	29.96	7.81	20.60	107.7	7.28	5.4	8.4
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS7	12:54	2.6	Bottom	3	1	29.88	7.80	20.95	107.4	7.25	5.5	8.7
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS7	12:54	2.6	Bottom	3	2	29.82	7.80	21.10	104.3	7.04	5.4	9.1
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS8	13:27	1.0	Surface	1	1	30.06	7.95	20.10	105.6	7.15	8.5	8.1
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS8	13:26	1.0	Surface	1	2	30.37	7.99	19.61	113.1	7.63	8.2	8.3
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS8	13:26	3.4	Bottom	3	1	29.56	7.89	21.54	95.2	6.44	14.6	9.0
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS8	13:27	3.4	Bottom	3	2	29.78	7.90	20.76	104.0	7.03	14.5	9.6
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS(Mf)9	13:04	1.0	Surface	1	1	30.35	7.92	19.31	120.2	8.13	5.2	6.9
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS(Mf)9	13:04	1.0	Surface	1	2	30.55	7.94	19.26	121.8	8.21	5.0	7.3
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS(Mf)9	13:03	2.8	Bottom	3	1	30.08	7.88	19.82	119.2	8.07	5.6	6.0
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS(Mf)9	13:04	2.8	Bottom	3	2	30.01	7.87	20.57	125.0	8.44	5.3	8.3
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS10(N)	13:10	1.0	Surface	1	1	29.75	8.19	14.24	87.5	6.14	5.7	5.6
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS10(N)	13:09	1.0	Surface	1	2	29.76	8.19	14.32	88.1	6.18	5.8	5.5
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS10(N)	13:10	5.3	Middle	2	1	29.56	8.17	15.16	82.7	5.79	6.4	6.5
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS10(N)	13:09	5.3	Middle	2	2	29.44	8.16	15.61	81.8	5.73	6.6	5.2
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS10(N)	13:10	9.5	Bottom	3	1	29.33	8.15	17.31	80.6	5.61	8.3	5.0
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	IS10(N)	13:08	9.5	Bottom	3	2	29.34	8.15	17.40	80.1	5.57	8.2	6.6
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR3(N)	12:12	1.0	Surface	1	1	30.05	7.98	20.69	109.4	7.38	8.2	12.9
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR3(N)	12:13	1.0	Surface	1	2	30.06	7.98	20.86	110.4	7.43	8.0	12.5
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR3(N)	12:12	2.8	Bottom	3	1	30.15	7.99	20.55	107.2	7.22	7.9	13.1
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR3(N)	12:13	2.8	Bottom	3	2	30.10	7.99	20.92	110.0	7.40	7.8	14.4
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR4(N)	13:17	1.0	Surface	1	1	30.64	7.94	18.92	118.2	7.97	7.4	10.8
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR4(N)	13:17	1.0	Surface	1	2	30.65	7.94	18.92	122.4	8.25	7.4	11.7
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR4(N)	13:17	2.4	Bottom	3	1	30.55	7.93	18.97	114.7	7.74	7.4	11.1
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR4(N)	13:17	2.4	Bottom	3	2	30.55	7.93	18.98	120.5	8.13	7.9	11.7
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR5(N)	12:57	1.0	Surface	1	1	29.75	8.19	14.30	88.4	6.20	6.5	5.0
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR5(N)	12:58	1.0	Surface	1	2	29.74	8.19	14.35	87.4	6.13	6.4	5.1
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR5(N)	12:57	4.0	Middle	2	1	29.44	8.16	15.49	82.1	5.75	7.0	4.6
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR5(N)	12:58	4.0	Middle	2	2	29.46	8.16	15.72	82.2	5.75	7.1	5.9
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR5(N)	12:58	7.0	Bottom	3	1	29.37	8.16	16.97	80.8	5.63	7.8	5.7
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR5(N)	12:57	7.0	Bottom	3	2	29.30	8.16	16.53	81.2	5.67	7.7	6.4
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR10A(N)	13:49	1.0	Surface	1	1	29.71	8.21	17.92	92.6	6.38	6.9	3.7
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR10A(N)	13:52	1.0	Surface	1	2	29.84	8.23	17.55	93.9	6.47	7.0	4.0
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR10A(N)	13:52	6.8	Middle	2	1	29.75	8.23	17.42	91.8	6.34	7.5	5.3
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR10A(N)	13:49	6.8	Middle	2	2	29.65	8.21	18.13	91.5	6.30	7.3	3.3
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR10A(N)	13:51	12.5	Bottom	3	1	29.52	8.20	18.40	91.1	6.27	8.3	3.4
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR10A(N)	13:49	12.5	Bottom	3	2	29.54	8.20	18.46	90.8	6.25	8.6	3.7
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR10B(N2)	14:00	1.0	Surface	1	1	29.69	8.22	17.84	90.9	6.26	6.4	3.2
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR10B(N2)	14:00	1.0	Surface	1	2	29.63	8.22	18.00	91.0	6.26	6.3	3.3
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR10B(N2)	14:00	3.8	Middle	2	1	29.58	8.21	18.22	90.9	6.26	6.4	3.2
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR10B(N2)	14:00	3.8	Middle	2	2	29.57	8.21	18.26	90.7	6.25	6.5	3.5
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR10B(N2)	14:00	6.6	Bottom	3	1	29.59	8.21	18.32	90.4	6.23	6.9	3.2
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	SR10B(N2)	13:59	6.6	Bottom	3	2	29.53	8.20	18.33	90.1	6.21	7.0	4.5
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	CS2(A)	12:10	1.0	Surface	1	1	29.65	8.25	14.70	78.9	5.53	6.8	2.7
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	CS2(A)	12:09	1.0	Surface	1	2	29.56	8.25	14.58	79.0	5.56	7.0	4.2

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	2018-06-29	Mid-Ebb	Sunny	CS2(A)	12:09	3.8	Middle	2	1	28.88	8.22	19.19	71.7	4.97	7.7	5.1
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	CS2(A)	12:10	3.8	Middle	2	2	28.84	8.18	22.91	73.2	4.93	7.5	4.7
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	CS2(A)	12:09	6.6	Bottom	3	1	28.20	8.14	26.85	68.3	4.59	7.9	6.1
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	CS2(A)	12:08	6.6	Bottom	3	2	28.28	8.14	27.22	69.2	4.63	8.0	5.4
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	CS(Mf)5	13:51	1.0	Surface	1	1	29.62	7.96	18.82	82.5	5.66	10.3	10.5
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	CS(Mf)5	13:52	1.0	Surface	1	2	29.62	7.96	18.74	79.9	5.48	10.0	12.1
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	CS(Mf)5	13:52	6.0	Middle	2	1	29.23	7.96	20.44	73.4	5.02	8.5	12.9
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	CS(Mf)5	13:51	6.0	Middle	2	2	29.20	7.96	20.58	75.6	5.17	8.4	12.1
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	CS(Mf)5	13:51	11.0	Bottom	3	1	27.71	7.94	29.05	72.5	4.85	13.5	13.9
HKLR	HY/2011/03	2018-06-29	Mid-Ebb	Sunny	CS(Mf)5	13:50	11.0	Bottom	3	2	27.51	7.98	29.26	71.8	4.80	13.2	14.1
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS5	7:19	1.0	Surface	1	1	29.73	7.96	19.28	83.3	5.69	6.8	8.3
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS5	7:18	1.0	Surface	1	2	29.72	7.96	19.24	82.7	5.65	7.0	7.8
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS5	7:18	4.5	Middle	2	1	29.65	7.92	20.58	75.8	5.14	7.4	8.1
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS5	7:19	4.5	Middle	2	2	29.62	7.91	20.95	75.5	5.12	7.5	7.0
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS5	7:19	7.9	Bottom	3	1	28.96	7.85	23.77	72.2	4.88	12.8	6.0
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS5	7:18	7.9	Bottom	3	2	28.96	7.85	23.66	71.4	4.82	12.5	6.0
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS(Mf)6	7:10	1.0	Surface	1	1	29.79	7.93	19.16	91.3	6.24	5.8	4.3
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS(Mf)6	7:10	1.0	Surface	1	2	29.74	7.93	18.93	91.2	6.24	5.9	3.5
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS(Mf)6	7:10	2.6	Bottom	3	1	29.83	7.92	19.50	92.1	6.27	5.7	5.0
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS(Mf)6	7:10	2.6	Bottom	3	2	29.82	7.91	19.80	93.2	6.34	5.9	6.5
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS7	7:01	1.0	Surface	1	1	29.71	7.94	18.76	91.6	6.28	4.2	3.4
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS7	7:01	1.0	Surface	1	2	29.68	7.93	18.67	91.2	6.25	4.0	3.7
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS7	7:01	2.4	Bottom	3	1	29.85	7.92	19.51	92.1	6.27	4.5	5.2
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS7	7:01	2.4	Bottom	3	2	29.92	7.91	19.67	90.8	6.17	4.5	5.9
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS8	6:34	1.0	Surface	1	1	29.65	7.86	17.55	83.4	5.76	10.2	7.8
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS8	6:34	1.0	Surface	1	2	29.63	7.86	17.58	83.8	5.79	10.0	7.3
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS8	6:34	3.3	Bottom	3	1	29.69	7.85	18.88	84.0	5.75	10.5	7.7
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS8	6:34	3.3	Bottom	3	2	29.66	7.85	19.02	82.9	5.67	10.1	7.5
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS(Mf)9	6:52	1.0	Surface	1	1	29.70	7.89	17.99	90.2	6.21	5.2	7.1
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS(Mf)9	6:52	1.0	Surface	1	2	29.69	7.89	17.97	92.6	6.38	5.3	6.6
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS(Mf)9	6:52	3.0	Bottom	3	1	29.75	7.91	19.30	94.0	6.41	5.4	6.0
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS(Mf)9	6:52	3.0	Bottom	3	2	29.70	7.89	19.05	90.5	6.19	5.2	6.6
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS10(N)	6:52	1.0	Surface	1	1	29.61	8.27	16.54	87.4	6.07	4.2	6.1
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS10(N)	6:53	1.0	Surface	1	2	29.57	8.26	16.73	87.1	6.05	4.3	6.4
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS10(N)	6:51	5.4	Middle	2	1	29.35	8.20	17.67	80.8	5.61	4.6	6.8
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS10(N)	6:53	5.4	Middle	2	2	29.36	8.20	17.66	81.1	5.63	4.5	6.7
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS10(N)	6:53	9.8	Bottom	3	1	29.33	8.20	17.90	80.8	5.60	5.6	6.4
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	IS10(N)	6:51	9.8	Bottom	3	2	29.32	8.19	17.90	80.7	5.59	5.6	6.2
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR3(N)	7:29	1.0	Surface	1	1	29.65	7.93	19.74	81.5	5.56	6.2	6.5
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR3(N)	7:28	1.0	Surface	1	2	29.61	7.93	19.74	80.3	5.48	6.2	7.0
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR3(N)	7:28	2.5	Bottom	3	1	29.45	7.90	21.94	80.4	5.44	6.5	6.0
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR3(N)	7:29	2.5	Bottom	3	2	29.61	7.92	20.78	81.3	5.52	6.6	5.1
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR4(N)	6:41	1.0	Surface	1	1	29.71	7.87	18.37	89.2	6.13	5.8	5.8
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR4(N)	6:41	1.0	Surface	1	2	29.69	7.87	18.23	86.1	5.92	5.5	6.6
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR4(N)	6:41	2.8	Bottom	3	1	29.77	7.87	18.77	87.6	5.99	6.0	5.0
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR4(N)	6:41	2.8	Bottom	3	2	29.74	7.86	18.76	92.0	6.30	6.1	7.0
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR5(N)	7:09	1.0	Surface	1	1	29.52	8.24	16.76	84.4	5.86	5.4	4.6
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR5(N)	7:10	1.0	Surface	1	2	29.50	8.24	16.70	84.3	5.86	5.3	5.4
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR5(N)	7:09	4.2	Middle	2	1	29.42	8.22	17.43	80.7	5.60	6.4	5.0
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR5(N)	7:09	4.2	Middle	2	2	29.42	8.22	17.50	81.2	5.63	6.5	5.0
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR5(N)	7:09	7.3	Bottom	3	1	28.85	8.16	19.81	79.1	5.47	7.3	5.1
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR5(N)	7:08	7.3	Bottom	3	2	29.01	8.18	18.14	79.0	5.50	7.1	6.8
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR10A(N)	6:04	1.0	Surface	1	1	29.54	8.19	16.10	82.0	5.72	3.4	4.3
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR10A(N)	6:05	1.0	Surface	1	2	29.52	8.19	16.10	81.8	5.71	3.4	4.2
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR10A(N)	6:05	6.9	Middle	2	1	29.36	8.19	18.23	80.2	5.54	4.0	2.9
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR10A(N)	6:04	6.9	Middle	2	2	29.36	8.18	18.27	80.1	5.54	3.8	3.4
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR10A(N)	6:04	12.7	Bottom	3	1	28.89	8.17	21.04	79.3	5.44	4.8	3.2
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR10A(N)	6:03	12.7	Bottom	3	2	28.83	8.16	21.63	79.2	5.42	4.6	3.9

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	2018-06-29	Mid-Flood	Sunny	SR10B(N2)	5:47	1.0	Surface	1	1	29.55	8.18	16.17	83.8	5.84	3.1	3.7
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR10B(N2)	5:49	1.0	Surface	1	2	29.55	8.19	16.17	83.1	5.79	3.1	4.3
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR10B(N2)	5:47	4.1	Middle	2	1	29.44	8.18	18.12	81.1	5.60	3.3	5.1
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR10B(N2)	5:48	4.1	Middle	2	2	29.34	8.18	18.45	80.8	5.58	3.2	3.6
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR10B(N2)	5:48	7.1	Bottom	3	1	28.80	8.15	21.62	80.3	5.50	4.2	4.5
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	SR10B(N2)	5:47	7.1	Bottom	3	2	29.02	8.15	21.35	80.1	5.48	4.0	4.0
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	CS2(A)	7:58	1.0	Surface	1	1	29.00	8.18	13.28	81.8	5.85	5.2	5.2
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	CS2(A)	7:57	1.0	Surface	1	2	28.99	8.19	13.28	82.4	5.89	5.1	5.2
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	CS2(A)	7:57	4.1	Middle	2	1	28.90	8.19	14.38	80.8	5.75	6.6	2.9
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	CS2(A)	7:58	4.1	Middle	2	2	28.93	8.17	14.68	80.6	5.72	6.4	3.7
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	CS2(A)	7:58	7.1	Bottom	3	1	29.08	8.15	16.64	79.8	5.59	6.9	4.1
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	CS2(A)	7:57	7.1	Bottom	3	2	28.99	8.17	18.93	79.0	5.47	7.0	5.5
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	CS(Mf)5	6:11	1.0	Surface	1	1	29.52	7.79	16.72	73.7	5.13	5.3	6.2
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	CS(Mf)5	6:10	1.0	Surface	1	2	29.52	7.78	16.80	74.6	5.18	5.1	6.4
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	CS(Mf)5	6:10	6.2	Middle	2	1	29.02	7.77	21.78	72.2	5.02	5.4	7.1
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	CS(Mf)5	6:11	6.2	Middle	2	2	28.92	7.79	22.17	72.4	5.06	5.3	6.8
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	CS(Mf)5	6:09	11.4	Bottom	3	1	27.64	7.74	28.18	69.2	4.66	9.8	5.6
HKLR	HY/2011/03	2018-06-29	Mid-Flood	Sunny	CS(Mf)5	6:10	11.4	Bottom	3	2	27.71	7.76	28.01	70.3	4.73	9.6	5.4
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS5	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS5	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS5	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS5	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS5	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS5	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS(Mf)6	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS(Mf)6	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS(Mf)6	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS(Mf)6	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS7	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS7	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS7	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS7	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS8	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS8	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS8	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS8	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS(Mf)9	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS(Mf)9	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS(Mf)9	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS(Mf)9	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS10(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS10(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS10(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS10(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS10(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	IS10(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR3(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR3(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR3(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR3(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR4(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR4(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR4(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR4(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR5(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR5(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR5(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR5(N)	-	-	Middle	2	2	-	-	-	-	-	-	-

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	2018-07-02	Mid-Ebb	Rainy	SR5(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR5(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR10A(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR10A(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR10A(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR10A(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR10A(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR10A(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR10B(N2)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR10B(N2)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR10B(N2)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR10B(N2)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	SR10B(N2)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	CS2(A)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	CS2(A)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	CS2(A)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	CS2(A)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	CS2(A)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	CS2(A)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	CS(Mf)5	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	CS(Mf)5	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	CS(Mf)5	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	CS(Mf)5	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	CS(Mf)5	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Ebb	Rainy	CS(Mf)5	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS5	9:11	1.0	Surface	1	1	29.57	8.07	19.99	87.0	5.94	8.8	6.7
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS5	9:11	1.0	Surface	1	2	29.54	8.06	20.12	88.6	5.99	8.2	8.2
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS5	9:11	4.4	Middle	2	1	29.35	8.03	20.60	87.8	5.93	8.5	6.7
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS5	9:11	4.4	Middle	2	2	29.24	8.04	20.34	83.8	5.72	8.5	6.5
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS5	9:11	7.8	Bottom	3	1	28.76	7.97	24.11	77.1	5.28	8.8	7.0
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS5	9:11	7.8	Bottom	3	2	29.24	8.00	24.35	81.2	5.49	8.1	6.8
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS(Mf)6	9:04	1.0	Surface	1	1	29.67	8.06	19.88	93.6	6.38	6.4	7.6
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS(Mf)6	9:03	1.0	Surface	1	2	29.68	8.06	19.77	92.6	6.31	6.1	6.7
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS(Mf)6	9:04	2.4	Bottom	3	1	29.63	8.05	20.13	93.5	6.37	6.3	6.7
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS(Mf)6	9:03	2.4	Bottom	3	2	29.70	8.04	19.91	89.9	6.13	6.5	7.4
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS7	8:55	1.0	Surface	1	1	29.66	8.10	19.26	97.7	6.68	5.8	6.6
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS7	8:55	1.0	Surface	1	2	29.64	8.10	19.31	99.2	6.79	5.5	6.4
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS7	8:55	2.4	Bottom	3	1	29.65	8.09	19.45	98.8	6.75	5.8	6.5
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS7	8:54	2.4	Bottom	3	2	29.68	8.08	19.74	97.7	6.66	5.8	6.4
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS8	8:25	1.0	Surface	1	1	29.47	8.00	18.08	91.1	6.29	8.5	8.5
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS8	8:25	1.0	Surface	1	2	29.47	8.00	17.96	92.7	6.41	8.3	7.4
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS8	8:25	3.2	Bottom	3	1	29.48	8.00	19.12	91.1	6.25	8.2	8.5
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS8	8:24	3.2	Bottom	3	2	29.47	8.01	18.92	93.9	6.45	8.5	7.2
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS(Mf)9	8:46	1.0	Surface	1	1	29.57	8.06	18.33	97.7	6.73	5.2	5.9
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS(Mf)9	8:46	1.0	Surface	1	2	29.56	8.06	18.23	97.3	6.71	5.3	5.3
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS(Mf)9	8:46	2.8	Bottom	3	1	29.61	8.08	19.39	97.0	6.64	5.4	6.2
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS(Mf)9	8:45	2.8	Bottom	3	2	29.59	8.08	19.12	97.1	6.65	5.5	4.6
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS10(N)	8:39	1.0	Surface	1	1	29.60	8.25	14.83	84.8	5.95	3.9	6.3
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS10(N)	8:38	1.0	Surface	1	2	29.58	8.26	15.00	84.6	5.93	3.7	5.7
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS10(N)	8:38	5.3	Middle	2	1	28.94	8.24	18.50	75.3	5.24	4.6	4.3
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS10(N)	8:39	5.3	Middle	2	2	28.85	8.22	18.52	79.4	5.41	4.5	4.8
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS10(N)	8:37	9.6	Bottom	3	1	28.43	8.20	23.51	73.7	5.05	6.5	4.7
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	IS10(N)	8:39	9.6	Bottom	3	2	27.99	8.15	24.16	72.7	5.06	6.7	6.3
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR3(N)	9:19	1.0	Surface	1	1	29.44	8.05	20.78	93.1	6.34	8.4	7.0
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR3(N)	9:19	1.0	Surface	1	2	29.49	8.05	20.10	92.4	6.31	8.2	7.8
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR3(N)	9:19	2.6	Bottom	3	1	29.40	8.05	21.12	95.6	6.50	8.3	6.9
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR3(N)	9:19	2.6	Bottom	3	2	29.45	8.04	20.87	92.5	6.29	8.5	6.4

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	2018-07-02	Mid-Flood	Sunny	SR4(N)	8:32	1.0	Surface	1	1	29.58	8.02	18.57	97.2	6.68	5.5	6.1
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR4(N)	8:31	1.0	Surface	1	2	29.58	8.01	18.58	97.9	6.73	5.7	5.1
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR4(N)	8:32	2.9	Bottom	3	1	29.58	8.01	18.65	97.5	6.70	5.7	6.2
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR4(N)	8:31	2.9	Bottom	3	2	29.54	8.02	18.75	98.9	6.80	5.7	5.1
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR5(N)	8:51	1.0	Surface	1	1	29.54	8.25	14.97	88.5	6.21	3.6	6.3
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR5(N)	8:51	1.0	Surface	1	2	29.56	8.24	14.97	87.7	6.15	3.6	6.2
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR5(N)	8:50	3.9	Middle	2	1	29.44	8.27	16.47	87.6	6.11	3.6	5.0
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR5(N)	8:51	3.9	Middle	2	2	29.41	8.25	16.49	88.2	6.15	3.5	5.8
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR5(N)	8:51	6.8	Bottom	3	1	29.44	8.24	18.09	88.4	6.11	5.5	5.2
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR5(N)	8:50	6.8	Bottom	3	2	29.28	8.24	18.23	86.2	5.96	5.2	6.2
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR10A(N)	7:48	1.0	Surface	1	1	29.34	8.15	15.76	81.4	5.70	4.6	2.9
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR10A(N)	7:48	1.0	Surface	1	2	29.21	8.16	15.88	80.8	5.66	4.5	3.9
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR10A(N)	7:48	6.6	Middle	2	1	28.25	8.10	22.66	78.3	5.37	4.4	4.8
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR10A(N)	7:47	6.6	Middle	2	2	28.14	8.09	22.77	77.2	5.27	4.5	5.4
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR10A(N)	7:47	12.2	Bottom	3	1	28.17	8.07	23.91	73.7	5.06	4.6	3.6
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR10A(N)	7:48	12.2	Bottom	3	2	28.40	8.09	22.63	76.8	5.39	4.5	4.2
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR10B(N2)	7:35	1.0	Surface	1	1	29.37	8.13	16.00	84.4	5.80	3.4	4.0
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR10B(N2)	7:35	1.0	Surface	1	2	29.40	8.11	16.38	83.1	5.80	3.6	4.3
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR10B(N2)	7:35	3.4	Middle	2	1	29.34	8.12	16.69	82.3	5.74	4.4	3.8
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR10B(N2)	7:35	3.4	Middle	2	2	29.25	8.13	16.65	82.2	5.75	4.0	4.3
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR10B(N2)	7:34	5.7	Bottom	3	1	28.52	8.13	21.81	80.4	5.62	4.7	4.1
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	SR10B(N2)	7:35	5.7	Bottom	3	2	28.81	8.12	21.73	81.4	5.57	4.4	4.6
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	CS2(A)	9:42	1.0	Surface	1	1	29.25	8.25	15.45	88.9	6.25	4.5	4.1
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	CS2(A)	9:43	1.0	Surface	1	2	29.24	8.23	15.48	88.8	6.24	4.4	4.9
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	CS2(A)	9:42	3.7	Middle	2	1	29.16	8.26	15.97	87.2	6.12	5.5	4.4
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	CS2(A)	9:43	3.7	Middle	2	2	29.15	8.23	15.91	88.2	6.20	5.6	5.3
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	CS2(A)	9:43	6.3	Bottom	3	1	29.18	8.23	16.39	88.3	6.18	6.3	4.2
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	CS2(A)	9:42	6.3	Bottom	3	2	29.15	8.29	16.25	86.4	6.06	6.0	4.9
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	CS(Mf)5	7:58	1.0	Surface	1	1	29.42	7.97	16.43	77.4	5.40	5.8	5.3
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	CS(Mf)5	7:59	1.0	Surface	1	2	29.31	7.97	16.28	75.4	5.27	5.4	4.7
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	CS(Mf)5	7:58	6.0	Middle	2	1	29.07	8.00	20.82	73.2	5.05	5.9	4.7
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	CS(Mf)5	7:59	6.0	Middle	2	2	28.60	7.98	22.32	73.8	5.08	5.7	4.0
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	CS(Mf)5	7:59	11.0	Bottom	3	1	27.05	7.96	29.09	70.6	4.83	5.8	5.3
HKLR	HY/2011/03	2018-07-02	Mid-Flood	Sunny	CS(Mf)5	7:58	11.0	Bottom	3	2	27.07	7.98	29.02	69.6	4.77	5.6	5.6
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS5	15:26	1.0	Surface	1	1	29.38	7.97	19.32	80.8	5.55	8.2	8.0
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS5	15:25	1.0	Surface	1	2	29.36	7.97	19.46	80.2	5.50	8.1	9.1
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS5	15:25	4.2	Middle	2	1	29.16	7.96	19.94	76.1	5.23	8.2	8.4
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS5	15:26	4.2	Middle	2	2	29.00	7.95	20.00	77.2	5.28	8.2	7.8
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS5	15:25	7.4	Bottom	3	1	28.72	7.93	22.06	74.9	5.16	8.8	11.4
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS5	15:25	7.4	Bottom	3	2	28.61	7.94	22.07	76.0	5.21	8.3	10.4
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS(Mf)6	15:34	1.0	Surface	1	1	29.45	7.82	20.33	84.0	5.73	6.9	9.8
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS(Mf)6	15:33	1.0	Surface	1	2	29.41	7.83	20.35	86.6	5.91	7.1	9.4
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS(Mf)6	15:33	2.1	Bottom	3	1	29.37	7.82	20.47	84.6	5.77	6.9	9.9
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS(Mf)6	15:33	2.1	Bottom	3	2	29.31	7.85	20.51	90.5	6.18	6.8	9.1
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS7	15:43	1.0	Surface	1	1	29.55	7.87	19.84	87.9	6.01	6.3	7.9
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS7	15:42	1.0	Surface	1	2	29.53	7.88	19.85	88.3	6.03	6.2	7.5
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS7	15:42	2.1	Bottom	3	1	29.40	7.87	20.04	88.9	6.08	6.2	12.5
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS7	15:42	2.1	Bottom	3	2	29.47	7.87	19.97	87.9	6.01	6.5	12.4
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS8	16:09	1.0	Surface	1	1	29.76	7.81	19.40	91.8	6.26	4.5	6.4
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS8	16:09	1.0	Surface	1	2	29.70	7.80	19.47	90.7	6.20	4.7	6.0
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS8	16:08	2.9	Bottom	3	1	29.38	7.79	19.92	93.3	6.39	4.8	9.7
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS8	16:09	2.9	Bottom	3	2	29.53	7.78	19.78	91.6	6.26	4.8	8.9
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS(Mf)9	15:51	1.0	Surface	1	1	29.70	7.98	19.58	94.7	6.46	6.2	7.3
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS(Mf)9	15:50	1.0	Surface	1	2	29.68	7.99	19.65	94.4	6.44	6.0	7.7
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS(Mf)9	15:50	2.6	Bottom	3	1	29.62	8.00	19.90	95.6	6.52	6.1	7.6
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS(Mf)9	15:51	2.6	Bottom	3	2	29.65	7.97	19.89	94.3	6.43	6.2	8.1
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS10(N)	16:08	1.0	Surface	1	1	29.06	8.19	15.08	81.7	5.71	5.5	7.3
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS10(N)	16:07	1.0	Surface	1	2	29.57	8.22	14.90	83.0	5.71	5.9	8.0

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	2018-07-04	Mid-Ebb	Sunny	IS10(N)	16:07	5.3	Middle	2	1	27.90	8.10	21.87	78.8	5.55	6.8	7.5
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS10(N)	16:07	5.3	Middle	2	2	27.86	8.10	21.18	80.4	5.64	7.0	7.9
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS10(N)	16:07	9.5	Bottom	3	1	27.28	8.07	24.90	72.1	5.01	8.2	8.6
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	IS10(N)	16:07	9.5	Bottom	3	2	27.60	8.12	24.62	74.1	5.24	8.8	9.8
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR3(N)	15:18	1.0	Surface	1	1	29.78	8.00	19.06	93.7	6.40	5.6	11.4
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR3(N)	15:17	1.0	Surface	1	2	29.82	7.97	18.93	93.5	6.39	5.5	11.1
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR3(N)	15:17	2.4	Bottom	3	1	29.80	7.98	19.02	93.8	6.41	5.5	12.9
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR3(N)	15:17	2.4	Bottom	3	2	29.77	7.94	19.04	92.6	6.33	5.4	13.4
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR4(N)	16:02	1.0	Surface	1	1	30.63	7.83	18.43	93.0	6.29	6.6	9.3
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR4(N)	16:02	1.0	Surface	1	2	30.65	7.86	18.50	95.3	6.44	6.6	9.2
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR4(N)	16:02	2.5	Bottom	3	1	29.85	7.81	18.95	93.6	6.39	6.7	14.9
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR4(N)	16:02	2.5	Bottom	3	2	29.91	7.84	18.87	95.5	6.51	6.5	15.7
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR5(N)	15:58	1.0	Surface	1	1	29.44	8.21	15.05	82.3	5.78	6.1	9.9
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR5(N)	15:57	1.0	Surface	1	2	29.08	8.20	15.22	79.3	5.60	6.1	11.0
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR5(N)	15:57	4.2	Middle	2	1	28.68	8.17	17.37	74.9	5.27	6.3	10.6
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR5(N)	15:58	4.2	Middle	2	2	28.66	8.16	16.99	73.5	5.17	6.6	9.9
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR5(N)	15:57	7.3	Bottom	3	1	28.28	8.12	19.49	73.7	5.15	8.0	10.2
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR5(N)	15:57	7.3	Bottom	3	2	28.28	8.13	18.59	75.0	5.27	7.9	10.2
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR10A(N)	16:52	1.0	Surface	1	1	29.54	8.21	16.97	91.9	6.38	4.2	7.1
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR10A(N)	16:53	1.0	Surface	1	2	29.53	8.21	16.98	90.7	6.29	4.4	7.9
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR10A(N)	16:52	6.6	Middle	2	1	28.96	8.17	17.96	87.7	6.11	4.4	6.6
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR10A(N)	16:53	6.6	Middle	2	2	28.81	8.16	18.35	90.2	6.27	4.3	7.6
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR10A(N)	16:53	12.1	Bottom	3	1	28.83	8.16	18.35	87.1	6.07	5.5	10.0
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR10A(N)	16:52	12.1	Bottom	3	2	29.18	8.19	17.68	85.7	5.97	5.7	9.9
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR10B(N2)	17:03	1.0	Surface	1	1	29.64	8.21	16.73	94.5	6.55	3.5	6.6
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR10B(N2)	17:04	1.0	Surface	1	2	29.60	8.20	16.82	92.3	6.43	3.6	7.3
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR10B(N2)	17:04	3.7	Middle	2	1	29.09	8.17	17.50	92.1	6.39	3.5	9.0
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR10B(N2)	17:03	3.7	Middle	2	2	29.53	8.20	17.01	90.5	6.28	3.9	9.7
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR10B(N2)	17:04	6.3	Bottom	3	1	29.14	8.18	17.44	90.0	6.27	5.0	9.4
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	SR10B(N2)	17:03	6.3	Bottom	3	2	29.28	8.18	17.26	87.7	6.10	4.7	10.3
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	CS2(A)	15:11	1.0	Surface	1	1	29.39	8.24	16.02	83.7	5.71	6.7	8.8
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	CS2(A)	15:11	1.0	Surface	1	2	29.33	8.21	16.04	82.6	5.66	7.2	8.0
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	CS2(A)	15:11	3.8	Middle	2	1	27.90	8.11	22.93	77.5	5.39	7.4	8.8
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	CS2(A)	15:10	3.8	Middle	2	2	27.81	8.09	22.45	78.3	5.48	8.0	9.0
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	CS2(A)	15:10	6.6	Bottom	3	1	27.19	8.12	24.69	74.1	5.13	8.5	9.5
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	CS2(A)	15:11	6.6	Bottom	3	2	27.55	8.15	26.13	73.3	5.08	8.8	8.1
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	CS(Mf)5	16:39	1.0	Surface	1	1	29.29	8.13	17.71	81.6	5.60	5.0	4.6
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	CS(Mf)5	16:38	1.0	Surface	1	2	29.31	8.11	17.74	80.4	5.58	4.9	6.2
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	CS(Mf)5	16:38	5.9	Middle	2	1	28.69	8.05	20.74	77.1	5.24	5.5	5.3
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	CS(Mf)5	16:39	5.9	Middle	2	2	28.78	8.07	20.41	80.5	5.47	5.5	4.4
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	CS(Mf)5	16:39	10.7	Bottom	3	1	27.26	8.03	27.58	75.7	5.22	5.7	5.1
HKLR	HY/2011/03	2018-07-04	Mid-Ebb	Sunny	CS(Mf)5	16:38	10.7	Bottom	3	2	27.19	7.99	27.67	73.3	5.05	6.1	6.0
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS5	10:32	1.0	Surface	1	1	28.97	8.13	20.90	77.0	5.28	5.5	4.9
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS5	10:31	1.0	Surface	1	2	28.97	8.13	20.86	76.0	5.21	5.4	4.7
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS5	10:32	4.3	Middle	2	1	28.85	8.12	21.50	73.1	5.00	6.4	3.5
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS5	10:31	4.3	Middle	2	2	28.88	8.12	21.36	73.2	5.01	6.3	4.4
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS5	10:31	7.6	Bottom	3	1	28.25	8.09	23.82	71.5	4.88	11.8	6.8
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS5	10:31	7.6	Bottom	3	2	28.32	8.09	24.22	72.5	4.93	11.6	5.9
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS(Mf)6	10:23	1.0	Surface	1	1	29.09	8.11	20.63	84.1	5.76	5.5	8.2
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS(Mf)6	10:23	1.0	Surface	1	2	29.08	8.11	20.61	86.0	5.89	5.6	7.5
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS(Mf)6	10:22	2.3	Bottom	3	1	29.03	8.12	20.63	89.3	6.13	5.7	9.0
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS(Mf)6	10:23	2.3	Bottom	3	2	29.07	8.11	20.63	85.1	5.83	5.6	8.7
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS7	10:15	1.0	Surface	1	1	28.94	8.10	20.19	88.0	6.06	5.4	3.8
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS7	10:15	1.0	Surface	1	2	28.94	8.10	20.22	89.1	6.13	5.3	4.6
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS7	10:15	2.2	Bottom	3	1	28.94	8.10	20.25	88.6	6.10	5.0	6.4
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS7	10:14	2.2	Bottom	3	2	28.92	8.10	20.40	91.0	6.26	5.5	5.1
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS8	9:48	1.0	Surface	1	1	28.80	8.03	19.08	82.2	5.71	5.0	9.4
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS8	9:47	1.0	Surface	1	2	28.80	8.04	19.09	86.0	5.97	5.2	9.3

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	2018-07-04	Mid-Flood	Sunny	IS8	9:48	3.2	Bottom	3	1	28.77	8.02	20.21	83.1	5.74	5.2	11.9
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS8	9:47	3.2	Bottom	3	2	28.76	8.04	20.11	88.5	6.12	5.4	11.6
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS(Mf)9	10:07	1.0	Surface	1	1	28.84	8.06	19.54	83.9	5.80	7.0	8.1
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS(Mf)9	10:06	1.0	Surface	1	2	28.85	8.06	19.49	85.5	5.92	6.9	9.3
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS(Mf)9	10:06	2.8	Bottom	3	1	28.82	8.06	19.80	84.9	5.87	6.8	9.2
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS(Mf)9	10:06	2.8	Bottom	3	2	28.83	8.06	19.78	83.0	5.74	6.9	10.7
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS10(N)	9:55	1.0	Surface	1	1	28.89	8.22	15.86	82.6	5.83	4.2	10.5
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS10(N)	9:55	1.0	Surface	1	2	28.90	8.22	15.85	82.2	5.80	4.5	10.8
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS10(N)	9:55	5.3	Middle	2	1	28.63	8.16	17.90	77.5	5.36	6.1	10.1
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS10(N)	9:54	5.3	Middle	2	2	28.17	8.14	18.14	78.1	5.35	6.4	10.7
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS10(N)	9:55	9.6	Bottom	3	1	28.14	8.11	21.98	74.6	5.23	6.3	10.4
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	IS10(N)	9:54	9.6	Bottom	3	2	28.41	8.13	22.68	72.5	5.12	6.6	9.2
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR3(N)	10:41	1.0	Surface	1	1	28.94	8.16	21.11	86.1	5.89	5.8	7.9
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR3(N)	10:40	1.0	Surface	1	2	28.93	8.16	21.07	81.1	5.56	5.8	8.0
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR3(N)	10:40	2.5	Bottom	3	1	28.89	8.15	21.45	79.0	5.41	6.0	9.2
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR3(N)	10:40	2.5	Bottom	3	2	28.83	8.15	21.79	80.1	5.48	5.8	8.3
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR4(N)	9:54	1.0	Surface	1	1	28.80	8.01	19.97	85.6	5.92	10.0	10.5
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR4(N)	9:55	1.0	Surface	1	2	28.80	8.02	19.83	81.9	5.67	9.3	11.8
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR4(N)	9:55	2.7	Bottom	3	1	28.75	8.01	20.36	83.4	5.75	11.1	11.2
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR4(N)	9:54	2.7	Bottom	3	2	28.71	8.00	20.58	89.4	6.17	11.8	9.4
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR5(N)	10:06	1.0	Surface	1	1	28.78	8.19	15.99	80.6	5.69	3.7	6.3
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR5(N)	10:07	1.0	Surface	1	2	28.80	8.19	15.90	80.0	5.66	3.6	5.2
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR5(N)	10:06	4.0	Middle	2	1	28.67	8.16	17.22	79.4	5.59	4.0	5.4
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR5(N)	10:07	4.0	Middle	2	2	28.66	8.15	17.23	78.5	5.52	4.2	4.3
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR5(N)	10:06	7.0	Bottom	3	1	28.55	8.15	17.92	80.4	5.64	4.5	6.3
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR5(N)	10:06	7.0	Bottom	3	2	28.67	8.15	17.99	79.5	5.57	4.6	6.1
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR10A(N)	9:03	1.0	Surface	1	1	28.65	8.14	15.98	78.8	5.41	3.0	3.9
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR10A(N)	9:03	1.0	Surface	1	2	28.71	8.15	15.96	80.1	5.59	2.9	4.8
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR10A(N)	9:03	6.6	Middle	2	1	27.40	8.08	24.46	75.7	5.20	3.1	4.9
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR10A(N)	9:03	6.6	Middle	2	2	27.58	8.09	22.07	75.7	5.36	3.3	6.0
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR10A(N)	9:03	12.2	Bottom	3	1	27.75	8.07	24.23	74.3	5.26	3.4	5.7
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR10A(N)	9:02	12.2	Bottom	3	2	27.56	8.06	24.67	76.6	5.27	3.2	7.5
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR10B(N2)	8:48	1.0	Surface	1	1	28.70	8.11	15.99	83.5	5.91	3.3	5.3
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR10B(N2)	8:49	1.0	Surface	1	2	28.70	8.12	16.01	82.7	5.85	3.2	3.1
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR10B(N2)	8:48	3.6	Middle	2	1	28.66	8.10	16.87	82.3	5.80	4.2	5.0
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR10B(N2)	8:49	3.6	Middle	2	2	28.65	8.11	17.01	82.3	5.80	4.5	3.9
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR10B(N2)	8:48	6.1	Bottom	3	1	28.65	8.10	16.91	82.7	5.83	4.7	7.2
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	SR10B(N2)	8:49	6.1	Bottom	3	2	28.65	8.10	17.06	82.8	5.83	5.0	5.9
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	CS2(A)	10:58	1.0	Surface	1	1	29.03	8.19	14.13	87.4	6.21	4.2	7.1
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	CS2(A)	10:58	1.0	Surface	1	2	28.98	8.18	14.73	87.4	6.20	4.5	7.1
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	CS2(A)	10:57	3.9	Middle	2	1	28.76	8.16	16.15	85.1	6.01	3.7	6.7
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	CS2(A)	10:58	3.9	Middle	2	2	28.75	8.16	16.28	85.1	6.00	3.6	6.6
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	CS2(A)	10:57	6.7	Bottom	3	1	28.70	8.18	16.70	85.1	5.99	4.9	6.9
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	CS2(A)	10:58	6.7	Bottom	3	2	28.71	8.16	16.99	86.3	6.07	4.8	7.5
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	CS(Mf)5	9:14	1.0	Surface	1	1	28.75	7.93	17.62	77.2	5.41	4.3	6.0
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	CS(Mf)5	9:15	1.0	Surface	1	2	28.71	7.94	17.60	75.9	5.32	4.4	5.2
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	CS(Mf)5	9:15	6.2	Middle	2	1	28.34	7.93	21.57	72.4	5.00	4.4	5.4
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	CS(Mf)5	9:14	6.2	Middle	2	2	28.29	7.93	22.05	72.8	5.02	4.2	5.8
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	CS(Mf)5	9:14	11.3	Bottom	3	1	26.67	7.91	29.35	70.9	4.81	4.6	7.4
HKLR	HY/2011/03	2018-07-04	Mid-Flood	Sunny	CS(Mf)5	9:13	11.3	Bottom	3	2	26.70	7.89	29.54	70.7	4.80	4.4	7.9
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS5	17:00	1.0	Surface	1	1	30.02	8.05	17.40	89.1	6.04	6.4	5.7
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS5	17:01	1.0	Surface	1	2	30.05	8.06	17.35	90.0	6.18	6.2	5.2
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS5	17:01	4.3	Middle	2	1	29.75	7.95	19.80	84.8	5.69	6.2	7.3
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS5	17:00	4.3	Middle	2	2	29.82	7.91	19.75	79.3	5.45	6.5	6.3
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS5	17:00	7.5	Bottom	3	1	27.56	7.89	26.58	78.9	5.31	6.7	6.5
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS5	17:00	7.5	Bottom	3	2	28.44	7.91	26.51	80.0	5.45	6.7	7.5
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS(Mf)6	17:12	1.0	Surface	1	1	30.23	8.13	18.49	107.3	7.30	10.0	2.5
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS(Mf)6	17:12	1.0	Surface	1	2	30.21	8.13	18.53	107.9	7.34	9.4	3.0

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	2018-07-06	Mid-Ebb	Sunny	IS(Mf)6	17:12	2.2	Bottom	3	1	30.02	8.09	18.98	100.6	6.85	10.6	3.9
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS(Mf)6	17:12	2.2	Bottom	3	2	30.20	8.12	18.67	106.3	7.23	10.4	5.2
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS7	17:21	1.0	Surface	1	1	30.03	8.10	17.90	101.8	6.97	3.6	5.2
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS7	17:21	1.0	Surface	1	2	30.01	8.08	18.05	99.7	6.83	3.6	4.2
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS7	17:21	2.0	Bottom	3	1	29.99	8.06	18.30	100.5	6.87	3.5	3.5
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS7	17:21	2.0	Bottom	3	2	29.86	8.04	18.41	97.9	6.70	3.6	3.9
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS8	17:46	1.0	Surface	1	1	29.61	8.06	18.30	94.4	6.50	5.6	2.7
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS8	17:46	1.0	Surface	1	2	29.64	8.07	18.26	91.4	6.29	5.4	2.8
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS8	17:46	2.8	Bottom	3	1	29.67	8.03	20.09	95.4	6.50	5.5	5.1
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS8	17:46	2.8	Bottom	3	2	29.14	7.92	19.22	90.5	6.24	5.5	7.2
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS(Mf)9	17:28	1.0	Surface	1	1	29.42	8.01	18.77	94.4	6.50	6.6	5.3
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS(Mf)9	17:29	1.0	Surface	1	2	29.56	8.02	18.68	93.5	6.43	6.5	6.3
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS(Mf)9	17:28	2.5	Bottom	3	1	29.50	8.01	18.87	96.8	6.65	6.5	11.9
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS(Mf)9	17:29	2.5	Bottom	3	2	29.39	7.99	18.95	93.7	6.45	6.5	12.0
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS10(N)	17:45	1.0	Surface	1	1	29.29	8.22	13.12	84.8	6.04	3.4	4.7
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS10(N)	17:43	1.0	Surface	1	2	29.60	8.25	12.77	85.6	6.07	3.3	5.1
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS10(N)	17:44	5.3	Middle	2	1	28.88	8.17	17.18	83.5	5.85	3.8	5.3
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS10(N)	17:43	5.3	Middle	2	2	28.96	8.18	16.35	82.0	5.77	3.9	3.8
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS10(N)	17:43	9.6	Bottom	3	1	28.27	8.14	20.61	81.3	5.65	4.0	5.5
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	IS10(N)	17:44	9.6	Bottom	3	2	28.23	8.15	19.37	80.6	5.64	4.1	5.3
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR3(N)	16:52	1.0	Surface	1	1	30.13	8.06	17.30	101.1	6.94	6.0	7.8
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR3(N)	16:52	1.0	Surface	1	2	30.15	8.09	17.21	101.4	6.96	6.4	7.5
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR3(N)	16:52	2.4	Bottom	3	1	30.19	8.06	18.66	101.9	6.93	6.3	9.4
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR3(N)	16:52	2.4	Bottom	3	2	30.19	8.06	18.08	101.4	6.92	6.4	9.1
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR4(N)	17:39	1.0	Surface	1	1	30.50	8.12	17.72	107.1	7.29	7.4	11.5
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR4(N)	17:40	1.0	Surface	1	2	30.50	8.12	17.74	108.7	7.39	7.3	11.2
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR4(N)	17:39	2.7	Bottom	3	1	30.41	8.11	17.76	104.4	7.11	7.6	11.3
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR4(N)	17:39	2.7	Bottom	3	2	30.48	8.11	17.76	107.8	7.34	7.3	13.0
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR5(N)	17:33	1.0	Surface	1	1	29.75	8.28	12.67	88.2	6.25	4.2	4.2
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR5(N)	17:34	1.0	Surface	1	2	29.72	8.27	12.69	88.3	6.26	4.1	6.3
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR5(N)	17:33	4.0	Middle	2	1	28.81	8.19	17.40	81.0	5.67	4.3	5.2
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR5(N)	17:34	4.0	Middle	2	2	28.77	8.18	17.78	81.3	5.69	4.4	6.9
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR5(N)	17:33	7.0	Bottom	3	1	28.14	8.14	20.32	79.5	5.54	4.6	5.5
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR5(N)	17:33	7.0	Bottom	3	2	28.48	8.19	18.59	80.1	5.61	4.5	5.9
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR10A(N)	18:26	1.0	Surface	1	1	29.57	8.31	15.81	100.3	7.00	2.8	5.4
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR10A(N)	18:27	1.0	Surface	1	2	29.56	8.30	15.83	99.9	6.98	2.9	4.2
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR10A(N)	18:26	6.8	Middle	2	1	29.45	8.28	15.92	95.8	6.70	3.3	3.5
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR10A(N)	18:26	6.8	Middle	2	2	29.50	8.30	15.91	96.3	6.72	3.2	4.5
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR10A(N)	18:25	12.5	Bottom	3	1	29.04	8.24	17.35	92.3	6.45	3.4	3.8
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR10A(N)	18:26	12.5	Bottom	3	2	29.07	8.23	17.34	93.5	6.53	3.6	5.1
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR10B(N2)	18:34	1.0	Surface	1	1	29.55	8.30	15.86	101.1	7.06	3.2	4.0
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR10B(N2)	18:35	1.0	Surface	1	2	29.56	8.30	15.87	101.4	7.08	3.2	5.7
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR10B(N2)	18:35	3.8	Middle	2	1	29.53	8.29	15.95	98.9	6.90	3.5	4.0
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR10B(N2)	18:34	3.8	Middle	2	2	29.43	8.27	16.22	98.1	6.85	3.5	6.2
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR10B(N2)	18:34	6.5	Bottom	3	1	29.14	8.24	17.20	96.2	6.72	3.5	6.2
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	SR10B(N2)	18:33	6.5	Bottom	3	2	29.03	8.23	17.55	95.3	6.65	3.6	5.8
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	CS2(A)	16:50	1.0	Surface	1	1	29.68	8.37	11.98	90.6	6.47	6.3	4.9
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	CS2(A)	16:49	1.0	Surface	1	2	29.66	8.37	12.05	90.2	6.42	6.5	5.0
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	CS2(A)	16:49	3.8	Middle	2	1	26.20	8.07	28.93	84.2	5.74	6.6	4.3
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	CS2(A)	16:48	3.8	Middle	2	2	26.22	8.09	27.27	85.8	5.86	6.8	4.0
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	CS2(A)	16:49	6.6	Bottom	3	1	26.26	8.12	29.95	7.3	5.04	6.8	5.3
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	CS2(A)	16:48	6.6	Bottom	3	2	26.26	8.13	29.96	72.0	4.99	7.0	6.2
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	CS(Mf)5	18:11	1.0	Surface	1	1	29.32	8.03	16.38	78.2	5.46	3.4	3.9
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	CS(Mf)5	18:10	1.0	Surface	1	2	28.99	8.01	16.36	76.8	5.34	3.4	5.2
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	CS(Mf)5	18:10	6.1	Middle	2	1	28.51	7.92	20.92	76.0	5.20	3.4	4.9
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	CS(Mf)5	18:11	6.1	Middle	2	2	28.11	7.89	21.85	75.5	5.15	3.3	4.5
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	CS(Mf)5	18:10	11.1	Bottom	3	1	26.78	7.86	28.57	69.9	4.84	3.3	4.5
HKLR	HY/2011/03	2018-07-06	Mid-Ebb	Sunny	CS(Mf)5	18:10	11.1	Bottom	3	2	26.66	7.86	28.70	71.1	4.91	3.5	3.2

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	2018-07-06	Mid-Flood	Sunny	IS5	12:47	1.0	Surface	1	1	29.43	8.00	19.30	80.0	5.37	5.0	3.8
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS5	12:47	1.0	Surface	1	2	29.51	8.02	19.27	82.5	5.51	5.1	5.4
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS5	12:47	4.3	Middle	2	1	28.83	7.90	21.58	75.9	5.21	6.7	3.8
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS5	12:46	4.3	Middle	2	2	28.92	7.92	21.67	77.7	5.33	6.5	5.7
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS5	12:46	7.5	Bottom	3	1	28.15	7.86	28.34	70.6	4.82	6.5	8.0
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS5	12:47	7.5	Bottom	3	2	27.62	7.88	28.74	70.7	4.84	6.6	8.9
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS(Mf)6	12:38	1.0	Surface	1	1	29.67	8.06	18.85	91.8	6.30	7.4	5.0
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS(Mf)6	12:38	1.0	Surface	1	2	29.51	8.05	18.80	92.5	6.35	7.9	4.7
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS(Mf)6	12:38	2.3	Bottom	3	1	29.46	8.05	19.19	91.8	6.29	7.8	5.1
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS(Mf)6	12:38	2.3	Bottom	3	2	29.34	8.03	19.54	91.1	6.26	7.5	4.8
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS7	12:29	1.0	Surface	1	1	29.86	8.06	18.64	94.5	6.46	4.9	3.7
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS7	12:29	1.0	Surface	1	2	29.81	8.06	18.62	96.7	6.60	5.1	4.9
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS7	12:29	2.2	Bottom	3	1	29.68	8.05	19.01	93.9	6.43	5.3	5.5
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS7	12:29	2.2	Bottom	3	2	29.67	8.07	19.67	94.8	6.49	5.5	5.8
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS8	12:03	1.0	Surface	1	1	29.33	7.97	18.21	87.1	6.03	4.0	7.0
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS8	12:03	1.0	Surface	1	2	29.31	7.97	18.30	84.5	5.84	4.2	6.8
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS8	12:02	3.3	Bottom	3	1	29.17	7.96	19.05	86.1	5.94	4.6	8.0
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS8	12:03	3.3	Bottom	3	2	29.18	7.97	19.56	84.4	5.82	4.5	7.8
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS(Mf)9	12:21	1.0	Surface	1	1	29.25	7.94	19.08	89.6	6.17	5.2	4.8
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS(Mf)9	12:21	1.0	Surface	1	2	29.24	7.96	18.88	88.3	6.10	5.2	6.0
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS(Mf)9	12:21	2.8	Bottom	3	1	29.15	7.90	19.96	90.7	6.23	5.5	4.7
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS(Mf)9	12:21	2.8	Bottom	3	2	29.14	7.94	20.41	89.0	6.10	5.5	4.5
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS10(N)	12:03	1.0	Surface	1	1	29.45	8.22	14.49	92.3	6.50	3.1	7.1
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS10(N)	12:02	1.0	Surface	1	2	29.49	8.23	14.35	91.1	6.42	3.3	7.1
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS10(N)	12:01	5.4	Middle	2	1	29.20	8.20	15.82	80.8	5.68	4.0	6.8
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS10(N)	12:02	5.4	Middle	2	2	29.33	8.21	15.78	81.5	5.72	4.0	5.4
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS10(N)	12:01	9.8	Bottom	3	1	28.14	8.10	20.02	73.2	5.12	4.2	7.4
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	IS10(N)	12:02	9.8	Bottom	3	2	27.86	8.07	21.67	73.2	5.09	4.1	6.9
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR3(N)	12:55	1.0	Surface	1	1	29.43	8.00	20.06	86.4	5.91	5.4	7.9
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR3(N)	12:55	1.0	Surface	1	2	29.42	8.00	20.05	88.0	6.01	5.6	8.0
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR3(N)	12:55	2.4	Bottom	3	1	29.42	8.00	20.95	87.4	5.94	5.6	6.3
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR3(N)	12:54	2.4	Bottom	3	2	29.21	7.98	21.01	91.3	6.23	5.6	6.8
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR4(N)	12:10	1.0	Surface	1	1	29.13	7.98	19.55	87.2	6.01	6.1	6.1
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR4(N)	12:10	1.0	Surface	1	2	29.19	7.99	19.17	83.2	5.73	5.9	6.5
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR4(N)	12:10	2.8	Bottom	3	1	29.15	7.99	19.49	83.2	5.73	5.9	5.6
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR4(N)	12:10	2.8	Bottom	3	2	29.14	7.98	19.59	84.2	5.80	6.0	5.2
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR5(N)	12:12	1.0	Surface	1	1	29.31	8.21	14.85	91.7	6.46	4.2	4.7
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR5(N)	12:13	1.0	Surface	1	2	29.38	8.21	14.75	92.6	6.52	4.1	4.8
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR5(N)	12:13	4.2	Middle	2	1	29.30	8.21	15.72	85.6	6.00	4.5	5.8
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR5(N)	12:12	4.2	Middle	2	2	29.28	8.21	16.09	84.0	5.88	4.6	6.5
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR5(N)	12:11	7.3	Bottom	3	1	27.67	8.05	23.83	74.8	5.16	4.8	7.2
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR5(N)	12:12	7.3	Bottom	3	2	27.88	8.09	20.27	75.1	5.26	4.9	5.4
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR10A(N)	11:15	1.0	Surface	1	1	28.96	8.17	15.57	78.9	5.57	2.7	5.7
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR10A(N)	11:16	1.0	Surface	1	2	29.13	8.17	15.48	82.2	5.79	2.8	6.0
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR10A(N)	11:15	6.8	Middle	2	1	28.34	8.13	18.43	74.4	5.22	3.0	6.6
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR10A(N)	11:15	6.8	Middle	2	2	28.24	8.11	19.33	74.1	5.19	3.2	6.2
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR10A(N)	11:15	12.6	Bottom	3	1	27.32	8.07	23.56	72.7	5.05	3.8	5.1
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR10A(N)	11:14	12.6	Bottom	3	2	27.22	8.06	24.71	72.5	5.01	4.0	5.1
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR10B(N2)	11:00	1.0	Surface	1	1	28.92	8.17	15.59	77.6	5.49	2.6	5.3
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR10B(N2)	10:59	1.0	Surface	1	2	28.75	8.16	15.97	76.7	5.43	2.6	4.9
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR10B(N2)	11:00	4.0	Middle	2	1	28.19	8.13	18.93	72.2	5.07	3.1	5.6
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR10B(N2)	10:59	4.0	Middle	2	2	28.20	8.13	18.95	72.2	5.07	3.3	5.1
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR10B(N2)	10:59	6.9	Bottom	3	1	27.44	8.08	23.04	70.7	4.91	3.6	5.3
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	SR10B(N2)	10:59	6.9	Bottom	3	2	27.47	8.08	22.91	70.9	4.93	3.7	5.2
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	CS2(A)	13:02	1.0	Surface	1	1	29.67	8.25	10.20	94.2	6.77	4.2	5.2
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	CS2(A)	13:03	1.0	Surface	1	2	29.64	8.24	10.22	94.3	6.78	4.1	5.5
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	CS2(A)	13:01	4.0	Middle	2	1	29.34	8.23	14.73	77.9	5.49	4.5	6.6
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	CS2(A)	13:03	4.0	Middle	2	2	29.33	8.21	15.76	78.6	5.51	4.6	6.1

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	2018-07-06	Mid-Flood	Sunny	CS2(A)	13:01	7.0	Bottom	3	1	27.86	8.11	21.87	72.1	5.01	4.6	7.3
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	CS2(A)	13:02	7.0	Bottom	3	2	28.03	8.08	20.99	72.4	5.04	4.6	5.9
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	CS(Mf)5	11:39	1.0	Surface	1	1	29.37	7.96	16.57	78.7	5.49	4.4	6.0
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	CS(Mf)5	11:40	1.0	Surface	1	2	29.35	7.96	16.54	78.0	5.45	4.3	5.2
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	CS(Mf)5	11:39	6.1	Middle	2	1	27.65	7.95	25.03	74.3	5.02	6.5	5.3
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	CS(Mf)5	11:40	6.1	Middle	2	2	27.67	7.96	24.93	75.2	5.09	6.3	6.0
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	CS(Mf)5	11:40	11.2	Bottom	3	1	25.64	7.94	33.36	70.3	4.83	6.7	10.0
HKLR	HY/2011/03	2018-07-06	Mid-Flood	Sunny	CS(Mf)5	11:39	11.2	Bottom	3	2	25.56	7.95	33.62	70.8	4.85	6.2	7.9
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS5	10:28	1.0	Surface	1	15	29.15	8.22	20.05	85.4	5.86	5.6	7.2
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS5	10:29	1.0	Surface	1	2	29.08	8.21	20.28	86.3	5.93	5.5	6.4
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS5	10:28	4.1	Middle	2	1	26.80	7.83	29.02	79.1	5.32	5.5	5.2
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS5	10:28	4.1	Middle	2	2	26.67	7.82	29.43	79.9	5.40	5.9	5.2
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS5	10:28	7.1	Bottom	3	1	26.66	7.86	30.23	72.3	4.89	5.8	6.5
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS5	10:28	7.1	Bottom	3	2	26.61	7.81	30.28	71.8	4.86	5.6	7.5
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS(Mf)6	10:20	1.0	Surface	1	1	28.80	8.15	20.70	84.2	5.79	3.5	6.4
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS(Mf)6	10:20	1.0	Surface	1	2	29.11	8.18	20.49	83.8	5.74	3.5	6.6
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS(Mf)6	10:20	2.0	Bottom	3	1	27.91	7.92	25.82	86.6	5.88	3.5	6.7
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS(Mf)6	10:20	2.0	Bottom	3	2	28.31	7.97	25.52	84.7	5.73	3.6	5.5
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS7	10:11	1.0	Surface	1	1	29.46	8.39	19.64	121.8	8.34	3.2	5.4
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS7	10:11	1.0	Surface	1	2	29.47	8.38	19.67	123.7	8.47	3.3	6.3
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS7	10:11	2.2	Bottom	3	1	29.43	8.35	19.80	117.8	8.07	3.5	5.7
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS7	10:11	2.2	Bottom	3	2	29.28	8.26	21.59	109.3	7.43	3.4	6.9
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS8	9:40	1.0	Surface	1	1	29.00	8.23	20.70	81.7	5.61	4.3	7.7
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS8	9:40	1.0	Surface	1	2	28.85	8.11	21.02	83.8	5.70	4.2	9.2
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS8	9:40	3.1	Bottom	3	1	27.04	7.91	28.15	78.5	5.39	5.6	10.0
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS8	9:40	3.1	Bottom	3	2	26.99	7.83	27.66	77.6	5.30	5.5	9.4
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS(Mf)9	10:00	1.0	Surface	1	1	29.42	8.41	19.46	95.8	6.57	5.2	6.8
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS(Mf)9	9:59	1.0	Surface	1	2	29.31	8.37	19.43	95.1	6.53	5.1	7.5
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS(Mf)9	9:59	2.5	Bottom	3	1	28.47	7.99	22.50	87.9	6.02	5.4	7.7
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS(Mf)9	9:59	2.5	Bottom	3	2	28.49	7.99	22.45	87.6	6.00	5.2	6.8
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS10(N)	10:06	1.0	Surface	1	1	28.47	8.23	18.22	81.5	5.77	3.8	10.1
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS10(N)	10:06	1.0	Surface	1	2	28.42	8.25	18.26	80.0	5.65	3.7	9.3
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS10(N)	10:06	5.3	Middle	2	1	26.52	8.09	26.12	80.9	5.71	4.3	10.0
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS10(N)	10:05	5.3	Middle	2	2	26.71	8.11	25.54	78.7	5.53	4.4	8.0
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS10(N)	10:06	9.5	Bottom	3	1	26.67	8.12	26.77	80.5	5.68	4.7	8.3
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	IS10(N)	10:05	9.5	Bottom	3	2	26.35	8.14	27.05	77.9	5.46	5.1	9.7
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR3(N)	10:37	1.0	Surface	1	1	29.33	8.29	19.96	108.9	7.46	3.8	6.6
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR3(N)	10:37	1.0	Surface	1	2	29.20	8.25	20.07	103.8	7.12	4.0	6.8
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR3(N)	10:37	2.3	Bottom	3	1	29.04	8.15	20.35	99.5	6.84	4.3	5.9
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR3(N)	10:37	2.3	Bottom	3	2	29.17	8.20	20.20	99.9	6.86	4.1	5.0
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR4(N)	9:47	1.0	Surface	1	1	28.67	8.05	20.19	87.4	6.04	5.3	6.3
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR4(N)	9:47	1.0	Surface	1	2	28.86	8.09	18.47	89.5	6.23	5.4	6.6
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR4(N)	9:47	2.7	Bottom	3	1	28.52	8.00	22.20	88.8	6.09	5.5	7.9
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR4(N)	9:47	2.7	Bottom	3	2	28.53	8.02	21.98	89.3	6.13	5.5	8.2
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR5(N)	10:18	1.0	Surface	1	1	28.25	8.22	18.28	82.2	5.80	4.5	4.3
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR5(N)	10:17	1.0	Surface	1	2	28.38	8.24	18.23	80.9	5.69	4.7	3.9
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR5(N)	10:17	4.2	Middle	2	1	27.30	8.11	23.31	82.1	5.79	5.5	2.3
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR5(N)	10:17	4.2	Middle	2	2	27.43	8.12	22.10	79.5	5.58	5.1	2.7
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR5(N)	10:17	7.4	Bottom	3	1	27.36	8.13	24.94	81.7	5.76	5.8	3.4
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR5(N)	10:17	7.4	Bottom	3	2	26.69	8.11	25.70	78.9	5.53	5.5	2.8
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR10A(N)	8:58	1.0	Surface	1	1	27.09	8.22	23.91	78.2	5.44	2.2	6.6
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR10A(N)	8:58	1.0	Surface	1	2	26.73	8.20	25.13	76.9	5.33	2.3	5.8
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR10A(N)	8:58	6.7	Middle	2	1	26.28	8.16	27.07	74.0	5.14	3.2	8.2
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR10A(N)	8:57	6.7	Middle	2	2	26.34	8.16	26.86	77.1	5.34	3.0	7.8
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR10A(N)	8:58	12.3	Bottom	3	1	26.40	8.17	26.82	72.7	5.04	3.6	7.4
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR10A(N)	8:57	12.3	Bottom	3	2	26.38	8.16	26.84	73.3	5.08	3.5	6.0
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR10B(N2)	8:46	1.0	Surface	1	1	26.92	8.17	24.67	79.5	5.52	2.6	7.6
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR10B(N2)	8:47	1.0	Surface	1	2	26.96	8.20	24.61	80.6	5.61	2.4	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	2018-07-09	Mid-Ebb	Sunny	SR10B(N2)	8:46	3.5	Middle	2	1	26.57	8.16	26.03	77.6	5.39	2.5	7.7
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR10B(N2)	8:46	3.5	Middle	2	1	26.49	8.13	26.41	77.6	5.38	2.7	8.5
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR10B(N2)	8:46	5.9	Bottom	3	1	26.35	8.14	26.93	75.4	5.22	3.6	10.3
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	SR10B(N2)	8:45	5.9	Bottom	3	2	26.47	8.15	26.78	74.6	5.18	3.3	9.0
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	CS2(A)	11:08	1.0	Surface	1	1	28.83	8.24	17.07	79.8	5.59	4.1	7.2
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	CS2(A)	11:08	1.0	Surface	1	2	28.85	8.22	17.00	79.5	5.53	4.4	6.0
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	CS2(A)	11:08	3.9	Middle	2	1	26.25	8.02	28.52	79.0	5.49	4.7	5.7
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	CS2(A)	11:08	3.9	Middle	2	2	26.33	8.04	28.20	79.2	5.53	4.6	6.3
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	CS2(A)	11:08	6.7	Bottom	3	1	26.05	8.03	29.52	80.5	5.64	4.7	6.6
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	CS2(A)	11:07	6.7	Bottom	3	2	26.04	8.03	29.39	78.2	5.46	5.0	6.3
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	CS(Mf)5	9:07	1.0	Surface	1	1	27.88	8.10	23.12	78.4	5.41	2.4	8.3
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	CS(Mf)5	9:08	1.0	Surface	1	2	27.95	8.12	22.76	79.9	5.50	2.5	7.4
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	CS(Mf)5	9:07	6.3	Middle	2	1	25.73	7.93	30.27	73.4	5.07	3.3	7.0
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	CS(Mf)5	9:08	6.3	Middle	2	2	25.26	7.91	30.92	74.4	5.09	3.3	7.1
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	CS(Mf)5	9:07	11.5	Bottom	3	1	25.07	7.89	32.48	71.4	4.90	3.2	6.6
HKLR	HY/2011/03	2018-07-09	Mid-Ebb	Sunny	CS(Mf)5	9:08	11.5	Bottom	3	2	25.14	7.90	32.82	70.7	4.87	3.2	6.9
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS5	15:07	1.0	Surface	1	1	29.67	8.45	20.52	120.2	8.16	10.4	9.0
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS5	15:08	1.0	Surface	1	2	29.63	8.45	20.57	122.0	8.29	10.5	8.8
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS5	15:07	4.3	Middle	2	1	28.90	8.19	22.96	86.3	5.87	10.1	9.1
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS5	15:07	4.3	Middle	2	2	28.57	8.17	23.71	83.1	5.62	10.3	8.9
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS5	15:07	7.6	Bottom	3	1	27.61	8.06	26.98	81.9	5.56	10.5	9.7
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS5	15:07	7.6	Bottom	3	2	27.43	7.90	26.97	82.3	5.58	10.2	9.6
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS(Mf)6	15:16	1.0	Surface	1	1	29.35	8.49	21.71	143.5	9.73	8.1	13.2
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS(Mf)6	15:15	1.0	Surface	1	2	29.26	8.48	21.75	136.4	9.25	8.3	13.8
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS(Mf)6	15:16	2.2	Bottom	3	1	29.33	8.49	21.73	120.3	8.18	8.3	14.3
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS(Mf)6	15:15	2.2	Bottom	3	2	29.27	8.48	21.76	120.9	8.21	8.4	14.4
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS7	15:34	1.0	Surface	1	1	29.37	8.49	21.72	150.6	10.21	7.8	11.5
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS7	15:34	1.0	Surface	1	2	29.40	8.50	21.69	152.2	10.32	7.7	12.9
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS7	15:34	2.2	Bottom	3	1	29.36	8.49	21.73	146.7	9.94	8.0	14.7
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS7	15:34	2.2	Bottom	3	2	29.38	8.50	21.72	149.6	10.14	7.8	13.2
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS8	16:02	1.0	Surface	1	1	29.38	8.40	21.72	114.4	7.75	7.4	8.7
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS8	16:01	1.0	Surface	1	2	29.29	8.43	21.79	115.4	7.88	7.5	9.3
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS8	16:01	3.3	Bottom	3	1	27.88	8.08	25.16	106.1	7.20	7.5	9.3
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS8	16:02	3.3	Bottom	3	2	27.72	8.12	25.35	108.1	7.31	7.2	9.7
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS(Mf)9	15:44	1.0	Surface	1	1	28.72	8.34	22.91	117.6	8.00	5.5	10.5
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS(Mf)9	15:44	1.0	Surface	1	2	28.60	8.32	22.95	116.7	7.96	5.5	10.9
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS(Mf)9	15:44	2.7	Bottom	3	1	28.63	8.29	23.27	114.3	7.79	6.0	10.8
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS(Mf)9	15:44	2.7	Bottom	3	2	28.60	8.29	23.25	113.8	7.76	5.9	12.2
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS10(N)	16:00	1.0	Surface	1	1	27.83	8.26	22.89	80.1	5.58	5.8	7.6
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS10(N)	15:59	1.0	Surface	1	2	27.76	8.26	22.93	79.3	5.49	5.5	7.7
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS10(N)	15:59	5.2	Middle	2	1	26.50	8.10	26.35	77.2	5.34	7.3	8.0
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS10(N)	15:59	5.2	Middle	2	2	26.49	8.07	26.28	78.2	5.45	7.6	7.1
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS10(N)	15:58	9.3	Bottom	3	1	26.65	8.13	26.35	75.8	5.22	7.8	6.3
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	IS10(N)	15:59	9.3	Bottom	3	2	26.48	8.09	27.44	76.0	5.26	8.0	6.1
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR3(N)	14:58	1.0	Surface	1	1	28.85	8.23	21.63	103.7	7.03	7.3	11.6
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR3(N)	14:59	1.0	Surface	1	2	28.80	8.19	23.00	103.4	7.03	7.3	10.9
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR3(N)	14:59	2.5	Bottom	3	1	28.70	8.15	23.67	100.8	6.90	7.4	11.3
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR3(N)	14:58	2.5	Bottom	3	2	28.60	8.14	23.44	102.7	6.99	7.5	11.7
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR4(N)	15:55	1.0	Surface	1	1	28.35	8.15	23.12	95.7	6.52	7.4	11.1
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR4(N)	15:55	1.0	Surface	1	2	28.45	8.19	23.14	94.5	6.46	6.9	11.0
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR4(N)	15:55	2.8	Bottom	3	1	28.28	8.10	24.11	93.6	6.41	7.2	15.5
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR4(N)	15:55	2.8	Bottom	3	2	28.17	8.13	23.69	91.0	6.22	7.2	15.4
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR5(N)	15:47	1.0	Surface	1	1	27.92	8.32	22.75	86.6	5.98	5.6	11.8
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR5(N)	15:48	1.0	Surface	1	2	27.83	8.28	22.85	88.7	6.17	5.7	11.2
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR5(N)	15:47	4.2	Middle	2	1	26.74	8.13	25.53	82.9	5.74	7.7	10.8
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR5(N)	15:48	4.2	Middle	2	2	26.69	8.12	25.69	79.1	5.47	7.4	12.2
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR5(N)	15:47	7.3	Bottom	3	1	26.81	8.19	25.66	76.9	5.33	8.2	12.4
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR5(N)	15:48	7.3	Bottom	3	2	26.68	8.14	25.93	77.0	5.32	8.9	10.2

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	2018-07-09	Mid-Flood	Sunny	SR10A(N)	17:00	1.0	Surface	1	1	26.45	8.24	26.69	80.6	5.58	3.4	8.9
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR10A(N)	17:01	1.0	Surface	1	2	26.55	8.24	26.62	83.0	5.79	3.6	8.7
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR10A(N)	17:00	6.4	Middle	2	1	25.95	8.15	28.17	78.9	5.44	3.4	8.5
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR10A(N)	17:00	6.4	Middle	2	2	25.61	8.15	28.45	78.4	5.41	3.7	7.8
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR10A(N)	17:00	11.8	Bottom	3	1	26.09	8.20	27.95	76.4	5.29	3.9	8.1
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR10A(N)	17:00	11.8	Bottom	3	2	25.46	8.17	29.63	75.5	5.23	4.2	8.7
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR10B(N2)	17:11	1.0	Surface	1	1	26.55	8.23	26.72	83.0	5.74	4.0	8.0
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR10B(N2)	17:10	1.0	Surface	1	2	26.57	8.23	26.68	81.9	5.66	3.9	9.0
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR10B(N2)	17:11	3.4	Middle	2	1	26.44	8.21	27.08	81.2	5.61	3.6	8.7
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR10B(N2)	17:10	3.4	Middle	2	2	26.40	8.20	27.16	80.6	5.57	3.4	8.2
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR10B(N2)	17:10	5.7	Bottom	3	1	26.30	8.20	27.48	76.1	5.26	3.8	8.9
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	SR10B(N2)	17:10	5.7	Bottom	3	2	26.06	8.16	27.93	75.5	5.23	3.6	9.0
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	CS2(A)	14:40	1.0	Surface	1	1	28.49	8.26	21.03	79.3	5.52	6.3	7.5
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	CS2(A)	14:39	1.0	Surface	1	2	28.54	8.27	20.96	79.1	5.50	6.5	8.2
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	CS2(A)	14:40	3.8	Middle	2	1	26.52	7.98	27.68	77.7	5.38	6.6	8.0
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	CS2(A)	14:39	3.8	Middle	2	2	26.43	8.02	27.31	78.4	5.44	6.4	7.6
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	CS2(A)	14:39	6.6	Bottom	3	1	26.19	7.97	29.12	79.9	5.57	7.3	7.3
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	CS2(A)	14:38	6.6	Bottom	3	2	26.18	8.02	29.58	77.7	5.38	7.2	8.0
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	CS(Mf)5	16:29	1.0	Surface	1	1	27.83	8.28	25.63	89.2	6.07	5.3	7.5
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	CS(Mf)5	16:28	1.0	Surface	1	2	27.79	8.27	25.71	90.4	6.16	5.2	7.4
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	CS(Mf)5	16:28	6.1	Middle	2	1	25.32	7.93	31.98	79.3	5.41	5.4	8.6
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	CS(Mf)5	16:28	6.1	Middle	2	2	25.40	7.93	31.84	78.2	5.32	5.2	9.9
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	CS(Mf)5	16:27	11.2	Bottom	3	1	24.93	7.91	33.57	72.0	4.92	5.5	9.8
HKLR	HY/2011/03	2018-07-09	Mid-Flood	Sunny	CS(Mf)5	16:28	11.2	Bottom	3	2	25.11	7.93	33.42	71.5	4.89	5.2	10.9
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS5	12:04	1.0	Surface	1	1	28.48	8.29	23.31	86.5	5.90	6.2	11.3
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS5	12:04	1.0	Surface	1	2	28.51	8.29	23.39	93.3	6.36	6.2	12.3
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS5	12:04	4.1	Middle	2	1	27.78	8.14	25.06	86.7	5.93	10.5	12.1
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS5	12:04	4.1	Middle	2	2	27.49	8.10	25.65	81.3	5.53	10.5	13.3
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS5	12:04	7.1	Bottom	3	1	27.72	8.08	27.32	77.9	5.35	10.3	13.2
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS5	12:03	7.1	Bottom	3	2	27.27	8.04	27.52	76.6	5.24	10.7	13.5
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS(Mf)6	11:56	1.0	Surface	1	1	28.89	8.25	24.21	99.4	6.74	6.8	9.5
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS(Mf)6	11:56	1.0	Surface	1	2	28.88	8.25	24.27	102.4	6.90	6.8	9.1
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS(Mf)6	11:56	2.0	Bottom	3	1	28.28	8.20	24.75	97.9	6.65	6.8	11.3
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS(Mf)6	11:56	2.0	Bottom	3	2	28.32	8.17	24.77	99.4	6.70	6.9	9.9
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS7	11:48	1.0	Surface	1	1	28.46	8.37	24.63	119.2	8.09	5.5	6.2
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS7	11:48	1.0	Surface	1	2	28.39	8.36	24.71	123.0	8.34	5.4	7.9
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS7	11:48	2.1	Bottom	3	1	28.12	8.31	24.99	108.1	7.35	5.5	7.4
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS7	11:48	2.1	Bottom	3	2	28.31	8.34	24.79	116.7	7.90	5.5	7.0
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS8	11:20	1.0	Surface	1	1	28.52	8.35	24.60	121.4	8.22	5.9	10.5
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS8	11:19	1.0	Surface	1	2	28.55	8.36	24.49	120.3	8.14	6.1	10.4
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS8	11:19	3.0	Bottom	3	1	28.52	8.33	24.54	112.7	7.63	6.5	10.5
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS8	11:20	3.0	Bottom	3	2	28.55	8.35	24.57	116.8	7.91	6.5	9.1
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS(Mf)9	11:37	1.0	Surface	1	1	28.65	8.34	24.59	107.9	7.29	6.2	8.4
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS(Mf)9	11:37	1.0	Surface	1	2	28.73	8.34	24.56	110.8	7.47	6.4	8.2
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS(Mf)9	11:37	2.5	Bottom	3	1	28.62	8.29	24.64	103.7	7.00	6.6	10.4
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS(Mf)9	11:37	2.5	Bottom	3	2	28.17	8.24	24.99	99.1	6.73	6.5	10.5
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS10(N)	11:53	1.0	Surface	1	1	28.87	8.42	19.89	101.6	7.04	6.6	7.0
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS10(N)	11:52	1.0	Surface	1	2	28.66	8.37	19.89	100.3	6.94	6.9	6.0
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS10(N)	11:52	5.3	Middle	2	1	27.62	8.21	22.83	94.2	6.54	7.7	7.0
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS10(N)	11:52	5.3	Middle	2	2	27.76	8.22	22.57	96.7	6.69	7.5	9.1
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS10(N)	11:52	9.5	Bottom	3	1	27.49	8.21	23.70	93.3	6.47	8.4	8.0
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	IS10(N)	11:52	9.5	Bottom	3	2	27.44	8.21	24.05	92.7	6.38	8.4	6.8
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR3(N)	12:13	1.0	Surface	1	1	29.27	8.40	22.95	129.3	8.72	4.6	8.1
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR3(N)	12:13	1.0	Surface	1	2	29.22	8.38	23.07	130.8	8.82	4.4	8.0
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR3(N)	12:12	2.4	Bottom	3	1	29.22	8.39	23.13	114.3	7.71	4.6	9.3
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR3(N)	12:13	2.4	Bottom	3	2	29.14	8.37	23.36	123.6	8.33	4.6	8.7
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR4(N)	11:25	1.0	Surface	1	1	28.43	8.25	24.54	108.5	7.36	7.5	10.0
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR4(N)	11:26	1.0	Surface	1	2	28.50	8.25	24.53	110.4	7.48	7.1	8.0

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	2018-07-11	Mid-Ebb	Sunny	SR4(N)	11:26	2.8	Bottom	3	1	28.35	8.23	24.73	105.9	7.18	7.3	13.1
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR4(N)	11:25	2.8	Bottom	3	2	28.26	8.22	24.76	102.1	6.93	7.2	12.0
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR5(N)	12:04	1.0	Surface	1	1	29.10	8.40	19.55	115.2	7.94	6.9	7.0
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR5(N)	12:04	1.0	Surface	1	2	29.07	8.46	19.66	112.5	7.82	7.1	6.6
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR5(N)	12:04	4.0	Middle	2	1	27.91	8.24	21.87	94.6	6.57	8.6	6.3
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR5(N)	12:04	4.0	Middle	2	2	27.78	8.25	21.92	98.2	6.79	8.6	8.2
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR5(N)	12:04	6.9	Bottom	3	1	27.93	8.19	24.02	80.7	5.63	8.8	7.8
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR5(N)	12:03	6.9	Bottom	3	2	27.24	8.17	24.48	80.3	5.60	8.6	7.3
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR10A(N)	10:32	1.0	Surface	1	1	27.74	8.38	24.61	100.9	6.96	3.5	7.2
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR10A(N)	10:31	1.0	Surface	1	2	27.15	8.31	25.24	102.2	7.02	3.2	7.5
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR10A(N)	10:30	6.5	Middle	2	1	26.63	8.24	26.71	99.4	6.86	3.6	7.8
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR10A(N)	10:31	6.5	Middle	2	2	26.67	8.24	26.86	97.2	6.70	3.6	7.5
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR10A(N)	10:30	11.9	Bottom	3	1	26.62	8.26	27.04	96.1	6.64	3.6	6.6
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR10A(N)	10:31	11.9	Bottom	3	2	26.66	8.24	26.94	98.5	6.79	3.9	7.3
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR10B(N2)	10:19	1.0	Surface	1	1	27.40	8.33	24.86	97.9	6.74	2.8	7.2
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR10B(N2)	10:19	1.0	Surface	1	2	27.39	8.34	25.00	99.6	6.87	3.0	8.1
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR10B(N2)	10:19	3.5	Middle	2	1	26.60	8.23	26.84	96.6	6.62	3.0	7.9
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR10B(N2)	10:18	3.5	Middle	2	2	26.42	8.20	27.29	97.0	6.70	3.1	8.2
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR10B(N2)	10:18	5.9	Bottom	3	1	26.37	8.20	27.58	91.9	6.34	5.0	9.0
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	SR10B(N2)	10:19	5.9	Bottom	3	2	26.61	8.24	27.03	89.4	6.17	5.0	8.4
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	CS2(A)	12:55	1.0	Surface	1	1	28.94	8.28	20.76	88.3	6.06	9.4	8.4
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	CS2(A)	12:55	1.0	Surface	1	2	28.80	8.33	21.07	91.9	6.31	9.2	8.4
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	CS2(A)	12:54	3.5	Middle	2	1	27.34	8.15	24.62	87.7	6.05	9.8	10.0
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	CS2(A)	12:55	3.5	Middle	2	2	27.29	8.13	24.73	82.1	5.67	10.0	10.1
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	CS2(A)	12:54	5.9	Bottom	3	1	27.21	8.13	25.04	79.7	5.50	11.2	10.8
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	CS2(A)	12:55	5.9	Bottom	3	2	27.24	8.14	24.96	77.0	5.31	11.0	11.3
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	CS(Mf)5	10:51	1.0	Surface	1	1	27.88	8.22	23.17	92.6	6.39	7.3	12.8
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	CS(Mf)5	10:51	1.0	Surface	1	2	27.91	8.22	23.19	95.7	6.60	7.4	12.7
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	CS(Mf)5	10:50	6.2	Middle	2	1	27.06	8.08	26.81	82.9	5.68	9.1	14.6
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	CS(Mf)5	10:51	6.2	Middle	2	2	27.06	8.09	26.71	87.8	6.00	9.3	15.8
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	CS(Mf)5	10:50	11.3	Bottom	3	1	26.23	7.99	29.40	82.6	5.65	10.1	17.5
HKLR	HY/2011/03	2018-07-11	Mid-Ebb	Sunny	CS(Mf)5	10:51	11.3	Bottom	3	2	26.49	8.00	28.99	84.8	5.81	10.1	16.2
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS5	17:02	1.0	Surface	1	1	29.44	8.43	24.66	132.0	8.80	6.7	14.8
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS5	17:03	1.0	Surface	1	2	29.11	8.41	24.92	141.1	9.44	6.5	15.3
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS5	17:02	4.3	Middle	2	1	28.67	8.29	25.62	129.2	8.68	10.8	15.0
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS5	17:02	4.3	Middle	2	2	28.56	8.29	25.69	122.8	8.26	10.6	13.9
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS5	17:02	7.6	Bottom	3	1	28.43	8.22	26.24	109.9	7.38	10.5	15.7
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS5	17:01	7.6	Bottom	3	2	28.32	8.20	26.31	106.7	7.18	10.4	15.4
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS(Mf)6	17:12	1.0	Surface	1	1	29.53	8.44	24.95	134.9	9.00	6.0	9.6
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS(Mf)6	17:12	1.0	Surface	1	2	29.48	8.44	24.94	139.3	9.26	6.2	9.7
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS(Mf)6	17:11	2.1	Bottom	3	1	28.74	8.34	25.78	122.7	8.22	6.4	9.6
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS(Mf)6	17:12	2.1	Bottom	3	2	29.07	8.36	25.52	131.3	8.72	6.5	8.0
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS7	17:23	1.0	Surface	1	1	29.53	8.46	24.69	138.6	9.22	7.3	8.0
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS7	17:23	1.0	Surface	1	2	29.55	8.44	24.71	130.6	8.75	7.5	8.5
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS7	17:23	2.3	Bottom	3	1	28.88	8.36	25.29	124.6	8.29	9.3	11.1
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS7	17:23	2.3	Bottom	3	2	28.61	8.35	25.41	114.6	7.71	9.5	9.4
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS8	17:52	1.0	Surface	1	1	29.07	8.51	23.56	148.7	10.03	8.5	14.5
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS8	17:52	1.0	Surface	1	2	28.96	8.47	23.67	147.5	9.95	8.4	14.9
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS8	17:52	3.4	Bottom	3	1	29.01	8.46	24.91	138.0	9.25	8.8	13.6
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS8	17:51	3.4	Bottom	3	2	28.71	8.39	24.84	129.4	8.74	8.6	14.0
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS(Mf)9	17:33	1.0	Surface	1	1	28.93	8.48	24.18	142.6	9.59	14.2	12.5
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS(Mf)9	17:34	1.0	Surface	1	2	28.94	8.48	24.21	147.8	9.95	13.8	12.9
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS(Mf)9	17:33	2.8	Bottom	3	1	28.75	8.39	25.06	136.9	9.22	13.8	14.9
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS(Mf)9	17:33	2.8	Bottom	3	2	28.91	8.44	24.62	138.2	9.33	13.7	16.6
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS10(N)	17:50	1.0	Surface	1	1	29.70	8.48	16.94	127.0	8.79	11.2	14.7
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS10(N)	17:51	1.0	Surface	1	2	29.64	8.48	17.15	126.9	8.79	10.8	14.5
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS10(N)	17:50	5.4	Middle	2	1	28.19	8.41	23.50	120.0	8.22	14.2	15.5
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS10(N)	17:50	5.4	Middle	2	2	28.23	8.42	23.47	121.1	8.29	15.0	14.8

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	2018-07-11	Mid-Flood	Sunny	IS10(N)	17:50	9.7	Bottom	3	1	28.13	8.40	23.74	124.1	8.49	14.7	14.4
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	IS10(N)	17:50	9.7	Bottom	3	2	28.18	8.42	23.72	126.8	8.67	15.4	14.7
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR3(N)	16:52	1.0	Surface	1	1	29.22	8.33	24.31	130.7	8.75	15.8	21.9
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR3(N)	16:52	1.0	Surface	1	2	29.32	8.33	24.08	130.0	8.72	15.5	23.1
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR3(N)	16:52	2.6	Bottom	3	1	29.13	8.30	24.41	129.5	8.67	15.5	21.9
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR3(N)	16:52	2.6	Bottom	3	2	29.02	8.28	24.13	123.1	8.28	15.6	23.2
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR4(N)	17:46	1.0	Surface	1	1	29.16	8.51	23.40	159.0	10.72	8.5	14.0
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR4(N)	17:46	1.0	Surface	1	2	29.20	8.52	23.37	156.6	10.53	8.6	13.4
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR4(N)	17:46	2.8	Bottom	3	1	29.09	8.48	24.15	151.7	10.22	8.7	15.9
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR4(N)	17:46	2.8	Bottom	3	2	29.13	8.49	24.00	153.1	10.25	8.5	18.4
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR5(N)	17:43	1.0	Surface	1	1	29.72	8.51	16.82	128.0	8.86	8.8	9.3
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR5(N)	17:43	1.0	Surface	1	2	29.44	8.52	17.19	124.0	8.61	9.0	9.2
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR5(N)	17:43	4.0	Middle	2	1	28.33	8.49	23.23	116.1	7.95	10.3	10.5
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR5(N)	17:43	4.0	Middle	2	2	28.36	8.47	23.22	115.5	7.89	9.6	10.7
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR5(N)	17:43	6.9	Bottom	3	1	28.54	8.47	23.22	108.7	7.43	10.4	10.6
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR5(N)	17:43	6.9	Bottom	3	2	28.32	8.50	23.32	111.1	7.60	10.5	12.2
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR10A(N)	18:49	1.0	Surface	1	1	27.14	8.32	25.49	85.1	5.86	7.1	8.8
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR10A(N)	18:48	1.0	Surface	1	2	27.05	8.32	25.56	82.1	5.65	6.8	8.5
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR10A(N)	18:49	6.3	Middle	2	1	26.57	8.26	27.22	83.7	5.74	7.1	8.3
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR10A(N)	18:48	6.3	Middle	2	2	26.34	8.24	27.53	79.5	5.49	6.5	8.6
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR10A(N)	18:48	11.6	Bottom	3	1	26.33	8.27	28.29	77.6	5.33	8.6	10.5
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR10A(N)	18:48	11.6	Bottom	3	2	26.64	8.28	27.89	79.3	5.47	8.9	8.7
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR10B(N2)	18:56	1.0	Surface	1	1	26.93	8.30	26.23	84.7	5.83	7.1	8.5
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR10B(N2)	18:56	1.0	Surface	1	2	26.90	8.29	26.26	84.5	5.82	6.9	8.4
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR10B(N2)	18:55	3.3	Middle	2	1	26.68	8.27	27.05	83.1	5.72	6.1	9.2
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR10B(N2)	18:56	3.3	Middle	2	2	26.71	8.27	27.02	81.0	5.58	6.2	8.9
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR10B(N2)	18:56	5.6	Bottom	3	1	26.45	8.25	27.88	83.5	5.75	7.4	9.0
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	SR10B(N2)	18:55	5.6	Bottom	3	2	26.59	8.27	27.21	86.0	5.93	7.1	8.8
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	CS2(A)	16:51	1.0	Surface	1	1	29.06	8.34	19.87	93.5	6.44	12.5	12.8
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	CS2(A)	16:50	1.0	Surface	1	2	29.20	8.37	20.20	92.5	6.34	11.5	14.7
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	CS2(A)	16:50	3.3	Middle	2	1	27.88	8.30	22.25	87.7	6.08	12.5	13.0
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	CS2(A)	16:51	3.3	Middle	2	2	27.80	8.28	22.26	91.8	6.31	12.9	14.2
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	CS2(A)	16:50	5.6	Bottom	3	1	27.51	8.26	24.76	80.5	5.61	14.9	13.0
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	CS2(A)	16:50	5.6	Bottom	3	2	27.34	8.25	24.81	80.7	5.63	13.9	14.8
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	CS(Mf)5	18:18	1.0	Surface	1	1	28.07	8.32	25.54	89.4	6.06	4.3	9.0
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	CS(Mf)5	18:17	1.0	Surface	1	2	28.01	8.31	25.58	89.7	6.07	4.2	9.5
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	CS(Mf)5	18:18	6.2	Middle	2	1	26.47	8.06	30.08	85.1	5.78	4.4	8.8
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	CS(Mf)5	18:17	6.2	Middle	2	2	26.39	8.06	30.19	84.8	5.74	4.3	9.4
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	CS(Mf)5	18:18	11.4	Bottom	3	1	26.25	8.05	31.48	79.3	5.39	4.2	9.5
HKLR	HY/2011/03	2018-07-11	Mid-Flood	Sunny	CS(Mf)5	18:17	11.4	Bottom	3	2	26.12	8.03	31.70	77.0	5.24	4.5	9.5
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS5	11:34	1.0	Surface	1	1	28.32	8.15	23.58	86.30	5.87	11.7	10.0
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS5	11:34	1.0	Surface	1	2	28.15	8.12	24.09	82.80	5.62	11.5	10.0
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS5	11:34	4.1	Middle	2	1	28.03	8.09	24.98	83.20	5.68	11.8	10.8
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS5	11:34	4.1	Middle	2	2	27.91	8.08	25.45	80.90	5.52	11.7	10.5
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS5	11:34	7.2	Bottom	3	1	27.87	8.06	25.65	82.10	5.59	11.4	11.7
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS5	11:34	7.2	Bottom	3	2	27.92	8.07	25.80	80.80	5.50	11.8	11.1
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS(Mf)6	12:02	1.0	Surface	1	1	28.49	8.23	23.09	97.30	6.64	6.8	8.8
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS(Mf)6	12:03	1.0	Surface	1	2	28.47	8.22	23.07	95.30	6.51	6.6	7.5
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS(Mf)6	12:02	2.1	Bottom	3	1	28.42	8.18	23.92	97.70	6.64	6.8	8.8
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS(Mf)6	12:02	2.1	Bottom	3	2	28.38	8.17	23.94	94.90	6.46	6.8	8.8
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS7	12:10	1.0	Surface	1	1	28.47	8.21	23.42	96.80	6.60	7.6	10.5
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS7	12:10	1.0	Surface	1	2	28.45	8.21	23.41	99.30	6.77	7.6	11.2
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS7	12:10	2.1	Bottom	3	1	28.43	8.20	23.45	99.90	6.81	7.5	10.1
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS7	12:10	2.1	Bottom	3	2	28.41	8.18	23.74	97.40	6.63	7.8	10.8
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS8	12:36	1.0	Surface	1	1	27.73	8.13	24.84	87.40	5.99	5.5	8.5
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS8	12:37	1.0	Surface	1	2	27.74	8.14	24.81	88.30	6.05	5.7	9.2
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS8	12:37	2.9	Bottom	3	1	27.70	8.13	25.10	88.30	6.04	5.6	8.6
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS8	12:36	2.9	Bottom	3	2	27.61	8.11	25.44	87.00	5.95	5.6	8.9

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	2018-07-13	Mid-Ebb	Sunny	IS(Mf)9	12:20	1.0	Surface	1	1	28.46	8.22	23.25	94.50	6.45	6.5	8.5
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS(Mf)9	12:20	1.0	Surface	1	2	28.39	8.21	23.16	92.80	6.35	6.6	9.8
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS(Mf)9	12:20	2.6	Bottom	3	1	28.47	8.19	23.69	94.30	6.42	6.2	9.6
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS(Mf)9	12:20	2.6	Bottom	3	2	28.31	8.14	24.52	94.70	6.44	6.5	9.6
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS10(N)	12:23	1.0	Surface	1	1	27.48	8.15	24.13	79.80	5.39	7.5	19.5
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS10(N)	12:23	1.0	Surface	1	2	27.50	8.15	24.14	79.50	5.37	7.0	18.7
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS10(N)	12:22	5.4	Middle	2	1	26.91	8.07	27.67	76.40	5.16	7.7	20.7
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS10(N)	12:23	5.4	Middle	2	2	26.91	8.08	27.67	75.60	5.11	7.4	22.1
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS10(N)	12:22	9.7	Bottom	3	1	26.91	8.08	27.72	79.30	5.33	8.5	21.2
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	IS10(N)	12:23	9.7	Bottom	3	2	26.94	8.08	27.64	78.20	5.26	9.0	22.1
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR3(N)	11:26	1.0	Surface	1	1	28.48	8.12	23.45	88.10	6.00	8.7	9.3
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR3(N)	11:26	1.0	Surface	1	2	28.49	8.12	23.24	89.10	6.08	8.8	9.9
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR3(N)	11:26	2.4	Bottom	3	1	28.42	8.11	23.69	88.30	6.01	8.6	10.8
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR3(N)	11:26	2.4	Bottom	3	2	28.38	8.10	23.77	92.10	6.28	8.8	11.7
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR4(N)	12:32	1.0	Surface	1	1	27.89	8.15	24.48	90.30	6.18	5.8	9.4
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR4(N)	12:32	1.0	Surface	1	2	27.82	8.15	24.54	89.90	6.16	5.6	8.3
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR4(N)	12:31	2.8	Bottom	3	1	27.80	8.13	24.70	90.00	6.16	5.7	10.2
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR4(N)	12:32	2.8	Bottom	3	2	27.78	8.13	24.87	90.10	6.16	5.5	10.7
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR5(N)	12:14	1.0	Surface	1	1	27.56	8.12	24.05	82.50	5.58	8.7	15.6
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR5(N)	12:13	1.0	Surface	1	2	27.33	8.11	24.33	81.60	5.52	9.0	15.5
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR5(N)	12:13	4.1	Middle	2	1	26.97	8.07	27.30	80.30	5.43	10.6	17.4
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR5(N)	12:13	4.1	Middle	2	2	26.98	8.07	27.26	80.00	5.41	11.3	17.1
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR5(N)	12:13	7.2	Bottom	3	1	27.01	8.08	27.50	81.90	5.54	12.9	17.2
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR5(N)	12:13	7.2	Bottom	3	2	26.95	8.07	27.54	80.70	5.46	12.2	18.2
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR10A(N)	13:04	1.0	Surface	1	1	27.22	8.21	24.52	81.60	5.48	4.3	6.7
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR10A(N)	13:04	1.0	Surface	1	2	27.32	8.22	24.02	81.70	5.50	4.1	6.6
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR10A(N)	13:04	6.8	Middle	2	1	26.96	8.19	25.43	79.20	5.31	4.4	6.3
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR10A(N)	13:04	6.8	Middle	2	2	26.92	8.20	25.59	81.00	5.44	4.6	6.4
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR10A(N)	13:04	12.6	Bottom	3	1	26.99	8.20	25.39	80.00	5.37	5.0	7.0
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR10A(N)	13:03	12.6	Bottom	3	2	26.96	8.22	25.53	81.80	5.48	4.8	7.2
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR10B(N2)	13:10	1.0	Surface	1	1	27.51	8.24	23.05	81.60	5.49	4.5	5.9
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR10B(N2)	13:10	1.0	Surface	1	2	27.43	8.23	23.44	81.90	5.51	4.8	5.5
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR10B(N2)	13:10	3.4	Middle	2	1	27.27	8.21	24.35	81.00	5.45	5.2	5.2
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR10B(N2)	13:10	3.4	Middle	2	2	27.23	8.21	24.02	81.00	5.45	5.4	6.0
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR10B(N2)	13:10	5.8	Bottom	3	1	27.23	8.21	24.69	81.50	5.48	5.5	9.3
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	SR10B(N2)	13:10	5.8	Bottom	3	2	27.01	8.19	25.33	81.00	5.44	5.1	10.8
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	CS2(A)	11:24	1.0	Surface	1	1	27.41	8.11	24.18	90.50	6.04	6.9	16.2
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	CS2(A)	11:24	1.0	Surface	1	2	27.38	8.08	24.61	89.60	6.05	7.2	15.3
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	CS2(A)	11:24	3.6	Middle	2	1	27.00	8.05	27.17	88.50	5.98	7.5	18.2
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	CS2(A)	11:24	3.6	Middle	2	2	27.00	8.01	27.15	86.40	5.76	7.7	18.4
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	CS2(A)	11:24	6.2	Bottom	3	1	27.05	8.05	27.15	85.20	5.69	8.8	19.8
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	CS2(A)	11:23	6.2	Bottom	3	2	27.08	8.03	27.14	81.60	5.44	9.3	20.8
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	CS(Mf)5	13:04	1.0	Surface	1	1	27.67	8.13	25.13	84.20	5.76	6.2	8.1
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	CS(Mf)5	13:03	1.0	Surface	1	2	27.60	8.12	25.02	82.70	5.63	6.5	8.7
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	CS(Mf)5	13:04	6.0	Middle	2	1	27.16	8.06	27.35	76.50	5.21	7.5	9.4
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	CS(Mf)5	13:02	6.0	Middle	2	2	27.23	8.06	26.96	79.60	5.46	7.7	7.4
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	CS(Mf)5	13:03	11.0	Bottom	3	1	27.05	8.05	27.98	74.00	5.05	7.7	7.8
HKLR	HY/2011/03	2018-07-13	Mid-Ebb	Sunny	CS(Mf)5	13:02	11.0	Bottom	3	2	27.11	8.05	27.68	78.40	5.35	7.8	8.6
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS5	6:36	1.0	Surface	1	1	28.72	8.24	23.48	100.90	6.84	6.3	8.3
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS5	6:36	1.0	Surface	1	2	28.71	8.25	23.46	100.60	6.83	6.3	7.5
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS5	6:35	4.4	Middle	2	1	28.73	8.23	23.58	100.40	6.82	6.6	8.3
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS5	6:36	4.4	Middle	2	2	28.74	8.24	23.59	100.30	6.80	6.5	8.3
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS5	6:35	7.7	Bottom	3	1	28.74	8.23	23.72	100.40	6.81	6.5	8.0
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS5	6:36	7.7	Bottom	3	2	28.75	8.23	23.78	100.50	6.80	6.8	8.8
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS(Mf)6	6:29	1.0	Surface	1	1	28.69	8.25	23.42	102.70	6.97	5.7	7.0
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS(Mf)6	6:29	1.0	Surface	1	2	28.69	8.24	23.42	102.40	6.96	5.7	7.3
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS(Mf)6	6:29	2.3	Bottom	3	1	28.66	8.25	23.41	102.40	6.96	5.8	8.6
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS(Mf)6	6:29	2.3	Bottom	3	2	28.69	8.25	23.43	102.60	6.97	5.7	8.1

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	2018-07-13	Mid-Flood	Sunny	IS7	6:21	1.0	Surface	1	1	28.56	8.24	23.19	102.40	6.98	4.8	8.4
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS7	6:21	1.0	Surface	1	2	28.60	8.24	23.17	102.40	6.97	4.8	9.0
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS7	6:21	2.3	Bottom	3	1	28.66	8.25	23.40	102.40	6.96	4.9	9.4
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS7	6:21	2.3	Bottom	3	2	28.64	8.25	23.41	102.30	6.95	4.9	8.8
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS8	5:53	1.0	Surface	1	1	28.40	8.15	21.98	96.90	6.67	5.6	9.6
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS8	5:53	1.0	Surface	1	2	28.38	8.14	22.00	94.60	6.51	5.9	8.9
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS8	5:52	3.3	Bottom	3	1	28.49	8.19	23.33	98.00	6.68	5.8	9.7
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS8	5:53	3.3	Bottom	3	2	28.39	8.16	23.13	95.70	6.54	5.9	11.2
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS(Mf)9	6:11	1.0	Surface	1	1	28.34	8.17	22.52	96.80	6.64	6.8	8.0
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS(Mf)9	6:12	1.0	Surface	1	2	28.34	8.17	22.64	95.00	6.52	6.8	8.4
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS(Mf)9	6:11	2.8	Bottom	3	1	28.35	8.17	23.42	95.30	6.51	6.8	8.3
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS(Mf)9	6:11	2.8	Bottom	3	2	28.36	8.18	23.83	97.90	6.67	6.7	8.4
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS10(N)	5:40	1.0	Surface	1	1	27.94	8.22	22.06	87.50	6.15	10.2	11.7
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS10(N)	5:39	1.0	Surface	1	2	27.99	8.24	21.93	88.40	6.22	8.8	11.2
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS10(N)	5:39	5.4	Middle	2	1	26.85	8.09	27.55	85.90	6.01	11.5	10.5
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS10(N)	5:38	5.4	Middle	2	2	26.85	8.08	27.56	86.80	6.08	10.7	9.8
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS10(N)	5:38	9.7	Bottom	3	1	26.94	8.10	27.49	86.90	6.06	11.6	11.1
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	IS10(N)	5:39	9.7	Bottom	3	2	26.93	8.10	27.47	85.80	5.96	12.7	10.8
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR3(N)	6:45	1.0	Surface	1	1	28.81	8.20	23.58	98.70	6.69	9.9	8.5
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR3(N)	6:44	1.0	Surface	1	2	28.81	8.19	23.63	99.70	6.75	10.1	8.9
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR3(N)	6:44	2.6	Bottom	3	1	28.79	8.19	23.67	101.10	6.85	10.5	11.9
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR3(N)	6:45	2.6	Bottom	3	2	28.82	8.19	23.64	99.20	6.72	10.2	13.8
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR4(N)	6:00	1.0	Surface	1	1	28.38	8.15	21.78	93.10	6.41	5.8	4.3
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR4(N)	5:59	1.0	Surface	1	2	28.38	8.15	21.86	93.40	6.43	5.7	5.5
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR4(N)	5:59	2.8	Bottom	3	1	28.38	8.16	22.77	93.20	6.38	5.8	5.2
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR4(N)	6:00	2.8	Bottom	3	2	28.38	8.15	22.68	93.20	6.39	5.8	5.9
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR5(N)	5:49	1.0	Surface	1	1	27.93	8.23	21.98	86.50	6.09	9.8	10.9
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR5(N)	5:49	1.0	Surface	1	2	27.82	8.21	22.08	86.30	6.08	10.2	10.7
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR5(N)	5:49	4.0	Middle	2	1	27.01	8.10	26.97	86.10	6.02	11.1	10.1
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR5(N)	5:48	4.0	Middle	2	2	26.96	8.10	27.08	86.70	6.07	11.5	9.7
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR5(N)	5:49	7.0	Bottom	3	1	27.17	8.13	27.27	86.00	6.01	13.8	10.6
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR5(N)	5:48	7.0	Bottom	3	2	26.88	8.09	27.55	87.00	6.08	13.1	11.4
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR10A(N)	4:46	1.0	Surface	1	1	27.93	8.23	21.91	83.10	5.82	3.8	4.8
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR10A(N)	4:45	1.0	Surface	1	2	27.94	8.23	21.88	84.00	5.88	4.1	5.2
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR10A(N)	4:45	6.8	Middle	2	1	26.88	8.11	27.36	82.90	5.75	5.0	6.8
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR10A(N)	4:45	6.8	Middle	2	2	26.92	8.06	23.86	82.30	5.71	5.3	7.1
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR10A(N)	4:44	12.6	Bottom	3	1	26.88	8.09	23.81	83.80	5.81	5.7	8.2
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR10A(N)	4:45	12.6	Bottom	3	2	26.91	8.09	24.71	83.30	5.77	5.6	6.1
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR10B(N2)	4:34	1.0	Surface	1	1	27.96	8.22	21.88	90.90	6.34	4.1	6.2
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR10B(N2)	4:35	1.0	Surface	1	2	27.99	8.23	21.97	89.90	6.30	3.8	6.6
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR10B(N2)	4:35	3.3	Middle	2	1	27.30	8.12	24.41	88.20	6.17	4.5	5.6
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR10B(N2)	4:34	3.3	Middle	2	2	27.43	8.12	24.44	87.80	6.14	4.4	5.4
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR10B(N2)	4:35	5.6	Bottom	3	1	26.91	8.10	27.59	86.60	6.06	6.8	4.5
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	SR10B(N2)	4:34	5.6	Bottom	3	2	26.87	8.13	27.64	86.90	6.08	6.3	5.7
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	CS2(A)	6:35	1.0	Surface	1	1	27.86	8.20	22.08	92.30	6.50	12.9	7.4
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	CS2(A)	6:36	1.0	Surface	1	2	27.81	8.19	22.24	92.00	6.48	13.1	7.7
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	CS2(A)	6:35	3.4	Middle	2	1	27.50	8.13	24.35	92.20	6.42	13.1	9.7
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	CS2(A)	6:35	3.4	Middle	2	2	27.33	8.13	24.53	89.30	6.25	12.7	9.8
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	CS2(A)	6:35	5.8	Bottom	3	1	26.98	8.11	27.51	88.60	6.20	15.5	11.9
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	CS2(A)	6:35	5.8	Bottom	3	2	27.01	8.11	27.33	91.20	6.38	14.7	9.7
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	CS(Mf)5	5:37	1.0	Surface	1	1	28.37	8.11	21.75	75.90	5.23	7.3	8.3
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	CS(Mf)5	5:36	1.0	Surface	1	2	28.32	8.08	21.42	75.30	5.20	7.7	7.9
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	CS(Mf)5	5:37	6.2	Middle	2	1	26.22	7.96	29.86	74.00	5.05	7.5	6.9
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	CS(Mf)5	5:36	6.2	Middle	2	2	26.31	7.96	29.80	75.20	5.13	7.6	8.1
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	CS(Mf)5	5:36	11.3	Bottom	3	1	26.16	7.96	30.33	69.80	4.88	7.5	6.9
HKLR	HY/2011/03	2018-07-13	Mid-Flood	Sunny	CS(Mf)5	5:36	11.3	Bottom	3	2	26.11	7.95	30.31	69.40	4.86	7.6	6.8
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	ISS	14:00	1.0	Surface	1	1	27.27	7.95	24.99	87.9	5.99	10.7	8.0
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	ISS	14:01	1.0	Surface	1	2	27.19	7.95	25.88	81.5	5.54	10.8	8.0

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	2018-07-16	Mid-Ebb	Rainly	IS5	14:00	4.4	Middle	2	1	27.11	7.96	26.79	83.8	5.74	11.5	9.2
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS5	14:00	4.4	Middle	2	2	27.10	7.96	27.42	80.1	5.46	11.5	8.6
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS5	14:00	7.8	Bottom	3	1	27.09	7.97	27.68	82.5	5.69	11.4	7.3
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS5	14:00	7.8	Bottom	3	2	27.17	7.96	27.72	79.0	5.43	11.6	7.3
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS(Mf)6	14:31	1.0	Surface	1	1	27.37	7.95	24.25	86.9	6.00	5.2	8.1
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS(Mf)6	14:31	1.0	Surface	1	2	27.38	7.96	24.19	88.8	6.14	5.0	8.7
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS(Mf)6	14:31	2.3	Bottom	3	1	27.36	7.95	24.25	87.7	6.06	5.0	8.6
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS(Mf)6	14:30	2.3	Bottom	3	2	27.39	7.97	24.13	92.7	6.41	5.2	8.8
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS7	14:39	1.0	Surface	1	1	27.53	7.96	24.24	93.5	6.45	5.0	9.2
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS7	14:40	1.0	Surface	1	2	27.53	7.96	24.28	89.7	6.18	5.1	9.7
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS7	14:40	2.2	Bottom	3	1	27.53	7.96	24.27	91.5	6.31	5.1	8.5
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS7	14:39	2.2	Bottom	3	2	27.51	7.96	24.24	96.7	6.67	5.1	9.3
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS8	15:08	1.0	Surface	1	1	27.67	7.98	23.95	97.2	6.70	4.6	8.3
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS8	15:08	1.0	Surface	1	2	27.64	7.97	24.03	90.9	6.26	4.5	8.4
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS8	15:08	3.1	Bottom	3	1	27.63	7.97	24.17	89.6	6.18	4.4	8.0
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS8	15:07	3.1	Bottom	3	2	27.58	7.99	24.15	93.1	6.42	4.8	7.8
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS(Mf)9	14:47	1.0	Surface	1	1	27.51	7.97	24.44	97.0	6.68	4.3	7.5
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS(Mf)9	14:48	1.0	Surface	1	2	27.51	7.96	24.49	90.5	6.23	4.0	7.1
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS(Mf)9	14:47	2.7	Bottom	3	1	27.48	7.98	24.45	92.9	6.40	4.4	7.8
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS(Mf)9	14:48	2.7	Bottom	3	2	27.51	7.97	24.49	89.4	6.16	4.4	7.4
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS10(N)	14:51	1.0	Surface	1	1	27.50	8.12	23.55	79.3	5.49	6.8	7.3
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS10(N)	14:52	1.0	Surface	1	2	27.51	8.12	23.54	79.3	5.49	6.3	7.9
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS10(N)	14:52	5.4	Middle	2	1	27.24	8.13	24.60	78.1	5.39	7.5	8.9
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS10(N)	14:51	5.4	Middle	2	2	27.23	8.14	24.69	78.7	5.44	7.7	9.5
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS10(N)	14:51	9.7	Bottom	3	1	27.28	8.13	24.62	76.3	5.27	8.6	8.2
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	IS10(N)	14:52	9.7	Bottom	3	2	27.28	8.13	24.95	75.4	5.22	8.5	8.4
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR3(N)	13:52	1.0	Surface	1	1	27.26	7.91	24.81	79.8	5.51	7.3	8.0
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR3(N)	13:52	1.0	Surface	1	2	27.26	7.92	24.86	79.0	5.45	7.4	8.5
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR3(N)	13:52	2.4	Bottom	3	1	27.17	7.90	25.23	81.8	5.64	7.5	9.6
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR3(N)	13:52	2.4	Bottom	3	2	27.20	7.91	25.23	79.3	5.47	7.7	8.7
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR4(N)	15:02	1.0	Surface	1	1	27.45	7.95	23.25	83.9	5.83	10.5	10.2
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR4(N)	15:02	1.0	Surface	1	2	27.50	7.95	23.55	88.6	6.13	10.6	9.6
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR4(N)	15:02	2.7	Bottom	3	1	27.35	7.95	24.35	84.9	5.87	10.8	10.6
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR4(N)	15:02	2.7	Bottom	3	2	27.39	7.96	24.03	92.9	6.43	10.5	12.0
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR5(N)	14:41	1.0	Surface	1	1	27.49	8.13	23.55	83.4	5.76	7.8	6.2
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR5(N)	14:40	1.0	Surface	1	2	27.47	8.15	23.58	80.1	5.55	8.1	6.9
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR5(N)	14:41	4.0	Middle	2	1	27.34	8.14	24.03	79.1	5.48	9.4	5.5
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR5(N)	14:40	4.0	Middle	2	2	27.30	8.18	24.24	79.4	5.50	9.1	5.9
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR5(N)	14:40	6.9	Bottom	3	1	27.19	8.20	24.85	76.6	5.30	10.7	6.8
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR5(N)	14:41	6.9	Bottom	3	2	27.21	8.18	24.77	77.1	5.33	9.7	7.7
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR10A(N)	15:35	1.0	Surface	1	1	27.32	8.10	24.15	75.1	5.19	3.8	5.2
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR10A(N)	15:35	1.0	Surface	1	2	27.27	8.11	24.17	77.8	5.30	3.9	6.0
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR10A(N)	15:34	6.8	Middle	2	1	26.87	8.10	25.74	73.9	5.13	5.3	5.8
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR10A(N)	15:35	6.8	Middle	2	2	26.88	8.09	25.55	73.6	5.10	5.0	5.2
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR10A(N)	15:35	12.5	Bottom	3	1	26.85	8.09	25.87	73.3	5.07	5.5	6.3
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR10A(N)	15:34	12.5	Bottom	3	2	26.90	8.11	25.63	72.7	5.03	5.6	5.7
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR10B(N2)	15:45	1.0	Surface	1	1	27.26	8.09	24.44	74.4	5.15	3.0	8.0
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR10B(N2)	15:45	1.0	Surface	1	2	27.35	8.09	24.24	75.4	5.21	2.9	7.4
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR10B(N2)	15:45	3.4	Middle	2	1	27.12	8.08	25.01	73.9	5.11	3.4	11.8
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR10B(N2)	15:45	3.4	Middle	2	2	27.13	8.08	24.94	73.2	5.06	3.6	12.1
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR10B(N2)	15:44	5.8	Bottom	3	1	26.96	8.08	25.25	74.0	5.13	3.6	13.9
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	SR10B(N2)	15:45	5.8	Bottom	3	2	27.05	8.08	25.09	74.8	5.17	3.6	12.5
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	CS2(A)	13:52	1.0	Surface	1	1	27.24	8.20	27.23	86.8	5.96	5.3	6.3
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	CS2(A)	13:52	1.0	Surface	1	2	27.25	8.18	27.19	87.1	5.95	5.1	6.7
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	CS2(A)	13:52	3.8	Middle	2	1	27.22	8.20	27.50	86.2	5.92	5.2	6.9
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	CS2(A)	13:51	3.8	Middle	2	2	27.23	8.22	27.40	85.4	5.83	5.5	5.6
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	CS2(A)	13:52	6.5	Bottom	3	1	27.20	8.20	27.62	84.8	5.80	6.7	6.1
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	CS2(A)	13:51	6.5	Bottom	3	2	27.22	8.23	27.58	83.4	5.70	6.6	7.5

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	2018-07-16	Mid-Ebb	Rainly	CS(Mf)5	15:33	1.0	Surface	1	1	27.39	7.96	25.31	75.9	5.21	8.5	9.2
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	CS(Mf)5	15:32	1.0	Surface	1	2	27.36	7.96	25.19	83.3	5.69	8.7	7.8
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	CS(Mf)5	15:32	6.1	Middle	2	1	26.98	7.94	26.50	76.8	5.29	10.7	10.5
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	CS(Mf)5	15:33	6.1	Middle	2	2	26.87	7.93	26.80	75.0	5.15	10.4	11.3
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	CS(Mf)5	15:32	11.1	Bottom	3	1	26.72	7.93	28.24	74.1	5.06	10.9	13.3
HKLR	HY/2011/03	2018-07-16	Mid-Ebb	Rainly	CS(Mf)5	15:33	11.1	Bottom	3	2	26.79	7.92	28.29	70.7	4.86	10.5	12.5
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS5	9:02	1.0	Surface	1	1	27.00	7.91	24.93	82.2	5.69	8.1	15.8
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS5	9:02	1.0	Surface	1	2	27.00	7.92	24.95	88.9	6.16	8.1	14.6
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS5	9:02	4.4	Middle	2	1	26.99	7.92	25.01	81.3	5.63	8.2	14.6
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS5	9:02	4.4	Middle	2	2	27.00	7.92	25.03	85.8	5.94	8.2	15.6
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS5	9:02	7.8	Bottom	3	1	27.00	7.92	25.04	81.0	5.61	8.1	17.4
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS5	9:02	7.8	Bottom	3	2	27.00	7.92	25.05	83.8	5.80	8.1	17.1
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS(Mf)6	8:55	1.0	Surface	1	1	26.99	7.92	24.80	86.2	5.98	6.0	12.5
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS(Mf)6	8:55	1.0	Surface	1	2	26.99	7.92	24.80	83.5	5.79	5.9	13.6
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS(Mf)6	8:54	2.3	Bottom	3	1	26.98	7.93	24.82	90.4	6.27	6.2	12.5
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS(Mf)6	8:55	2.3	Bottom	3	2	26.99	7.92	24.83	85.1	5.90	6.1	13.4
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS7	8:48	1.0	Surface	1	1	26.97	7.92	24.74	83.7	5.81	6.0	8.6
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS7	8:48	1.0	Surface	1	2	26.98	7.93	24.72	86.2	5.99	5.9	8.1
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS7	8:47	2.3	Bottom	3	1	26.97	7.93	24.75	91.2	6.33	6.0	8.5
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS7	8:48	2.3	Bottom	3	2	26.98	7.92	24.77	84.7	5.87	5.9	9.6
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS8	8:19	1.0	Surface	1	1	27.14	7.91	23.91	86.6	6.02	7.5	7.9
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS8	8:20	1.0	Surface	1	2	27.18	7.91	23.85	91.7	6.35	7.1	7.1
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS8	8:19	3.2	Bottom	3	1	27.10	7.91	24.87	84.1	5.82	8.0	9.4
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS8	8:20	3.2	Bottom	3	2	27.12	7.91	24.73	81.7	5.68	8.0	11.1
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS(Mf)9	8:40	1.0	Surface	1	1	27.08	7.92	24.91	89.9	6.22	5.6	7.7
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS(Mf)9	8:40	1.0	Surface	1	2	27.09	7.92	24.92	82.8	5.73	5.8	6.7
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS(Mf)9	8:40	2.9	Bottom	3	1	27.07	7.91	25.04	86.5	5.98	5.8	7.9
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS(Mf)9	8:40	2.9	Bottom	3	2	27.01	7.93	25.05	97.3	6.74	5.6	7.7
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS10(N)	8:26	1.0	Surface	1	1	27.00	8.11	23.70	82.7	5.78	8.6	10.3
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS10(N)	8:27	1.0	Surface	1	2	27.08	8.09	22.76	83.0	5.80	8.3	10.9
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS10(N)	8:27	5.5	Middle	2	1	26.96	8.10	24.17	81.4	5.68	9.0	10.6
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS10(N)	8:26	5.5	Middle	2	2	26.94	8.12	24.37	80.6	5.63	8.8	10.2
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS10(N)	8:27	9.9	Bottom	3	1	26.94	8.15	24.35	81.8	5.68	10.3	10.6
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	IS10(N)	8:26	9.9	Bottom	3	2	26.94	8.15	24.43	80.3	5.59	9.5	10.9
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR3(N)	9:11	1.0	Surface	1	1	27.00	7.93	25.16	86.3	5.97	8.5	12.1
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR3(N)	9:11	1.0	Surface	1	2	27.01	7.92	25.16	81.3	5.63	8.5	12.8
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR3(N)	9:11	2.5	Bottom	3	1	27.00	7.93	25.19	83.2	5.75	8.4	14.0
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR3(N)	9:10	2.5	Bottom	3	2	26.97	7.93	25.20	90.8	6.29	8.5	14.3
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR4(N)	8:28	1.0	Surface	1	1	27.18	7.91	24.25	84.5	5.86	6.4	7.3
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR4(N)	8:27	1.0	Surface	1	2	27.19	7.90	24.15	83.2	5.77	6.2	7.8
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR4(N)	8:28	2.7	Bottom	3	1	27.14	7.86	24.68	94.3	6.53	6.5	7.6
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR4(N)	8:27	2.7	Bottom	3	2	27.15	7.89	24.72	88.1	6.10	6.5	6.2
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR5(N)	8:38	1.0	Surface	1	1	27.13	8.10	22.14	81.4	5.70	9.5	8.5
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR5(N)	8:39	1.0	Surface	1	2	27.15	8.10	21.86	81.1	5.68	8.9	9.7
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR5(N)	8:39	4.1	Middle	2	1	26.96	8.08	24.08	79.7	5.56	10.0	8.7
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR5(N)	8:38	4.1	Middle	2	2	26.96	8.09	24.08	81.1	5.66	9.2	10.2
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR5(N)	8:38	7.1	Bottom	3	1	26.97	8.08	24.12	82.6	5.73	10.2	10.2
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR5(N)	8:39	7.1	Bottom	3	2	26.96	8.08	24.10	80.8	5.61	10.3	9.8
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR10A(N)	7:44	1.0	Surface	1	1	26.67	8.10	25.21	89.1	6.19	3.1	5.5
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR10A(N)	7:44	1.0	Surface	1	2	26.77	8.10	24.96	89.9	6.24	3.0	4.8
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR10A(N)	7:44	6.6	Middle	2	1	26.50	8.09	27.03	89.1	6.16	3.3	5.7
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR10A(N)	7:44	6.6	Middle	2	2	26.52	8.09	26.95	87.5	6.05	3.4	6.5
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR10A(N)	7:43	12.2	Bottom	3	1	26.59	8.08	26.76	81.8	5.66	3.5	6.1
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR10A(N)	7:44	12.2	Bottom	3	2	26.52	8.09	27.03	85.6	5.92	3.8	6.3
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR10B(N2)	7:30	1.0	Surface	1	1	26.80	8.11	24.62	83.2	5.84	3.4	5.4
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR10B(N2)	7:31	1.0	Surface	1	2	26.81	8.10	24.64	82.9	5.83	3.5	4.6
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR10B(N2)	7:30	3.4	Middle	2	1	26.70	8.10	25.66	81.5	5.66	4.2	6.2
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR10B(N2)	7:31	3.4	Middle	2	2	26.69	8.10	25.70	82.1	5.71	3.9	5.0

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	2018-07-16	Mid-Flood	Fine	SR10B(N2)	7:30	5.7	Bottom	3	1	26.60	8.11	26.20	80.3	5.58	5.1	7.1
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	SR10B(N2)	7:31	5.7	Bottom	3	2	26.68	8.09	25.87	81.0	5.63	5.0	5.2
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	CS2(A)	9:29	1.0	Surface	1	1	27.00	8.20	25.16	88.2	6.17	14.0	6.9
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	CS2(A)	9:28	1.0	Surface	1	2	26.98	8.22	25.17	87.5	6.12	13.7	6.8
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	CS2(A)	9:28	3.7	Middle	2	1	26.91	8.20	26.86	86.9	6.05	13.9	7.9
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	CS2(A)	9:28	3.7	Middle	2	2	26.88	8.23	27.57	86.6	6.02	14.1	7.3
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	CS2(A)	9:28	6.3	Bottom	3	1	26.89	8.20	27.76	86.0	5.99	16.6	6.1
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	CS2(A)	9:28	6.3	Bottom	3	2	26.88	8.25	27.75	85.2	5.94	15.5	5.9
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	CS(Mf)5	7:58	1.0	Surface	1	1	27.15	7.91	24.02	75.0	5.21	9.2	6.7
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	CS(Mf)5	7:58	1.0	Surface	1	2	27.15	7.90	23.89	77.2	5.30	9.1	6.1
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	CS(Mf)5	7:58	6.1	Middle	2	1	26.96	7.89	25.41	73.4	5.02	11.5	5.2
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	CS(Mf)5	7:57	6.1	Middle	2	2	26.96	7.89	25.42	76.0	5.28	11.4	5.7
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	CS(Mf)5	7:57	11.2	Bottom	3	1	26.59	7.88	27.80	70.7	4.89	11.7	5.8
HKLR	HY/2011/03	2018-07-16	Mid-Flood	Fine	CS(Mf)5	7:58	11.2	Bottom	3	2	26.66	7.88	28.07	70.6	4.88	11.7	5.8
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS5	15:50	1.0	Surface	1	1	27.78	7.98	26.24	91.4	6.15	10.0	5.8
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS5	15:50	1.0	Surface	1	2	27.80	7.98	25.95	85.4	5.74	9.8	6.9
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS5	15:50	4.3	Middle	2	1	27.63	8.00	28.24	84.0	5.71	12.3	7.3
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS5	15:50	4.3	Middle	2	2	27.65	7.99	28.05	87.1	5.86	12.8	6.1
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS5	15:50	7.5	Bottom	3	1	27.64	7.99	28.44	84.2	5.67	12.4	7.0
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS5	15:49	7.5	Bottom	3	2	27.64	7.99	28.43	86.1	5.85	12.7	6.3
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS(Mf)6	15:58	1.0	Surface	1	1	27.94	7.97	25.61	93.3	6.34	4.0	6.1
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS(Mf)6	15:58	1.0	Surface	1	2	27.97	7.97	25.56	91.3	6.20	3.8	5.5
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS(Mf)6	15:58	2.2	Bottom	3	1	27.89	7.97	25.82	96.5	6.56	4.1	6.6
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS(Mf)6	15:58	2.2	Bottom	3	2	27.95	7.97	25.88	92.1	6.26	4.0	6.0
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS7	16:05	1.0	Surface	1	1	27.97	7.99	25.17	96.5	6.57	4.2	7.0
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS7	16:05	1.0	Surface	1	2	27.98	7.99	25.21	95.1	6.47	4.2	8.2
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS7	16:05	2.0	Bottom	3	1	27.94	8.00	25.16	98.8	6.73	4.3	7.4
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS7	16:05	2.0	Bottom	3	2	27.98	7.99	25.20	95.2	6.48	4.3	7.0
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS8	16:31	1.0	Surface	1	1	28.05	8.02	25.37	97.9	6.65	3.4	5.2
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS8	16:32	1.0	Surface	1	2	28.09	8.01	25.42	95.7	6.49	3.5	6.0
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS8	16:31	2.8	Bottom	3	1	27.99	8.03	25.37	100.1	6.81	3.6	8.4
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS8	16:32	2.8	Bottom	3	2	28.05	8.01	25.42	96.4	6.54	3.6	7.4
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS(Mf)9	16:14	1.0	Surface	1	1	28.05	8.01	25.29	96.0	6.53	2.3	5.0
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS(Mf)9	16:14	1.0	Surface	1	2	28.05	8.01	25.30	96.8	6.58	2.4	5.8
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS(Mf)9	16:14	2.5	Bottom	3	1	28.04	8.01	25.32	97.4	6.62	2.3	6.0
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS(Mf)9	16:14	2.5	Bottom	3	2	28.05	8.01	25.30	96.9	6.58	2.3	6.7
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS10(N)	17:09	1.0	Surface	1	1	28.05	8.13	23.17	87.2	5.99	9.8	4.6
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS10(N)	17:08	1.0	Surface	1	2	28.00	8.15	23.17	83.5	5.75	9.7	5.4
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS10(N)	17:09	5.1	Middle	2	1	27.72	8.15	25.24	82.5	5.63	11.7	4.9
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS10(N)	17:08	5.1	Middle	2	2	27.71	8.15	25.15	80.9	5.53	11.2	4.9
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS10(N)	17:09	9.2	Bottom	3	1	27.73	8.15	25.25	82.9	5.66	12.1	10.6
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	IS10(N)	17:08	9.2	Bottom	3	2	27.66	8.15	25.55	82.2	5.61	11.6	11.2
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR3(N)	15:41	1.0	Surface	1	1	27.99	7.94	24.90	92.7	6.33	4.7	7.3
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR3(N)	15:41	1.0	Surface	1	2	27.96	7.94	24.81	90.2	6.16	4.9	8.0
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR3(N)	15:41	2.4	Bottom	3	1	27.96	7.95	25.09	88.4	6.02	4.8	7.7
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR3(N)	15:41	2.4	Bottom	3	2	27.97	7.95	24.63	89.4	6.09	4.8	8.1
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR4(N)	16:25	1.0	Surface	1	1	28.10	7.99	23.80	89.4	6.12	5.4	7.9
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR4(N)	16:25	1.0	Surface	1	2	28.16	8.01	23.48	93.1	6.38	5.5	7.1
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR4(N)	16:25	2.6	Bottom	3	1	28.00	7.97	24.92	90.8	6.19	5.5	8.8
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR4(N)	16:25	2.6	Bottom	3	2	28.11	7.99	24.77	96.3	6.56	5.3	8.8
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR5(N)	16:57	1.0	Surface	1	1	28.04	8.14	23.18	87.2	5.99	3.1	5.4
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR5(N)	16:57	1.0	Surface	1	2	28.02	8.14	23.22	86.0	5.92	3.3	4.7
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR5(N)	16:57	4.2	Middle	2	1	27.81	8.15	24.36	84.3	5.78	5.6	5.1
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR5(N)	16:56	4.2	Middle	2	2	27.88	8.15	24.06	85.5	5.87	5.7	5.0
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR5(N)	16:57	7.3	Bottom	3	1	27.81	8.14	24.86	85.7	5.86	6.6	5.6
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR5(N)	16:56	7.3	Bottom	3	2	27.81	8.15	24.71	87.1	5.96	6.2	5.3
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR10A(N)	17:54	1.0	Surface	1	1	27.40	8.14	26.54	79.6	5.43	3.2	3.8
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR10A(N)	17:53	1.0	Surface	1	2	27.39	8.15	26.51	79.3	5.41	3.2	3.1

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	2018-07-18	Mid-Ebb	Fine	SR10A(N)	17:53	6.6	Middle	2	1	27.33	8.14	26.88	79.5	5.42	3.2	3.5
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR10A(N)	17:53	6.6	Middle	2	2	27.38	8.14	26.57	79.3	5.41	3.3	3.9
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR10A(N)	17:52	12.2	Bottom	3	1	27.33	8.14	26.94	78.8	5.34	3.4	4.0
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR10A(N)	17:53	12.2	Bottom	3	2	27.39	8.14	26.59	79.6	5.43	3.1	4.4
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR10B(N2)	18:04	1.0	Surface	1	1	27.37	8.14	26.65	79.4	5.41	3.2	5.0
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR10B(N2)	18:05	1.0	Surface	1	2	27.36	8.14	26.72	79.0	5.39	3.3	4.6
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR10B(N2)	18:05	3.4	Middle	2	1	27.37	8.14	26.70	79.0	5.39	3.4	6.3
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR10B(N2)	18:04	3.4	Middle	2	2	27.38	8.14	26.61	79.3	5.41	3.5	6.1
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR10B(N2)	18:05	5.8	Bottom	3	1	27.37	8.14	26.67	78.9	5.38	3.4	6.3
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	SR10B(N2)	18:04	5.8	Bottom	3	2	27.38	8.14	26.60	79.4	5.42	3.5	6.6
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	CS2(A)	16:04	1.0	Surface	1	1	27.70	8.24	27.72	88.4	5.96	3.3	4.9
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	CS2(A)	16:03	1.0	Surface	1	2	27.69	8.24	27.72	88.5	5.97	3.4	5.8
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	CS2(A)	16:03	3.8	Middle	2	1	27.59	8.25	28.49	87.8	5.91	3.6	6.4
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	CS2(A)	16:04	3.8	Middle	2	2	27.59	8.24	28.45	86.9	5.84	3.3	7.3
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	CS2(A)	16:04	6.5	Bottom	3	1	27.54	8.24	28.64	86.6	5.83	4.2	7.9
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	CS2(A)	16:03	6.5	Bottom	3	2	27.59	8.25	28.55	87.9	5.91	4.4	7.2
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	CS(Mf)5	16:58	1.0	Surface	1	1	27.65	7.97	27.02	77.5	5.21	6.2	6.4
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	CS(Mf)5	16:58	1.0	Surface	1	2	27.73	7.97	26.92	82.9	5.57	6.2	7.0
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	CS(Mf)5	16:58	6.0	Middle	2	1	27.31	7.95	28.17	79.5	5.38	9.6	6.8
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	CS(Mf)5	16:58	6.0	Middle	2	2	27.32	7.95	28.36	75.5	5.12	9.4	6.4
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	CS(Mf)5	16:57	11.0	Bottom	3	1	27.22	7.96	29.71	78.9	5.34	9.5	7.9
HKLR	HY/2011/03	2018-07-18	Mid-Ebb	Fine	CS(Mf)5	16:58	11.0	Bottom	3	2	27.26	7.95	29.77	74.7	5.05	9.1	7.0
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS5	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS5	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS5	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS5	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS5	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS5	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS(Mf)6	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS(Mf)6	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS(Mf)6	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS(Mf)6	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS7	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS7	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS7	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS7	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS8	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS8	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS8	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS8	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS(Mf)9	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS(Mf)9	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS(Mf)9	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS(Mf)9	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS10(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS10(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS10(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS10(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS10(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	IS10(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR3(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR3(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR3(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR3(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR4(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR4(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR4(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR4(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-

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	2018-07-18	Mid-Flood	Fine	SR5(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR5(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR5(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR5(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR5(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR5(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR10A(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR10A(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR10A(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR10A(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR10A(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR10A(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR10B(N2)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR10B(N2)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR10B(N2)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR10B(N2)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR10B(N2)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	SR10B(N2)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	CS2(A)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	CS2(A)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	CS2(A)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	CS2(A)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	CS2(A)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	CS2(A)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	CS(Mf)5	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	CS(Mf)5	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	CS(Mf)5	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	CS(Mf)5	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	CS(Mf)5	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-18	Mid-Flood	Fine	CS(Mf)5	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS5	7:45	1.0	Surface	1	1	27.77	8.00	27.56	84.7	5.71	4.3	4.8
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS5	7:46	1.0	Surface	1	2	27.78	8.00	27.59	84.7	5.72	4.3	4.7
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS5	7:45	4.5	Middle	2	1	27.72	8.03	28.35	83.6	5.61	5.8	4.9
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS5	7:44	4.5	Middle	2	2	27.71	8.02	28.37	83.8	5.63	5.7	5.8
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS5	7:44	7.9	Bottom	3	1	27.69	8.03	28.98	85.2	5.70	6.6	6.1
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS5	7:45	7.9	Bottom	3	2	27.69	8.04	28.96	84.6	5.67	6.6	6.4
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS(Mf)6	7:37	1.0	Surface	1	1	27.82	7.96	26.99	85.9	5.80	4.6	7.4
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS(Mf)6	7:38	1.0	Surface	1	2	27.82	7.97	26.92	86.0	5.81	4.3	6.5
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS(Mf)6	7:37	2.2	Bottom	3	1	27.85	7.96	27.25	86.4	5.82	5.1	7.8
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS(Mf)6	7:36	2.2	Bottom	3	2	27.83	7.96	27.23	86.3	5.82	5.3	8.4
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS7	7:30	1.0	Surface	1	1	27.77	7.96	26.69	82.1	5.56	4.6	5.4
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS7	7:30	1.0	Surface	1	2	27.74	7.96	26.72	82.8	5.61	4.8	5.3
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS7	7:30	2.3	Bottom	3	1	27.71	7.93	27.05	83.0	5.62	5.2	5.7
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS7	7:29	2.3	Bottom	3	2	27.69	7.93	27.16	84.0	5.68	5.3	6.1
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS8	7:05	1.0	Surface	1	1	27.74	7.94	26.83	84.8	5.74	4.6	4.8
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS8	7:05	1.0	Surface	1	2	27.73	7.94	26.81	84.3	5.71	4.7	5.6
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS8	7:04	2.9	Bottom	3	1	27.74	7.94	26.99	85.2	5.76	6.3	5.9
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS8	7:05	2.9	Bottom	3	2	27.75	7.95	26.94	84.6	5.72	6.0	6.1
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS(Mf)9	7:22	1.0	Surface	1	1	27.68	7.97	26.75	85.2	5.78	3.1	4.2
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS(Mf)9	7:23	1.0	Surface	1	2	27.67	7.97	26.71	85.3	5.78	3.2	4.3
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS(Mf)9	7:22	2.6	Bottom	3	1	27.66	7.95	27.03	85.9	5.81	3.4	5.0
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS(Mf)9	7:22	2.6	Bottom	3	2	27.66	7.95	27.04	86.4	5.85	3.2	5.2
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS10(N)	7:22	1.0	Surface	1	1	27.70	8.15	24.62	80.7	5.53	3.8	4.7
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS10(N)	7:23	1.0	Surface	1	2	27.70	8.16	24.56	80.3	5.51	3.7	5.4
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS10(N)	7:21	5.4	Middle	2	1	27.68	8.19	25.16	79.4	5.43	4.4	5.4
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS10(N)	7:23	5.4	Middle	2	2	27.68	8.18	25.10	79.5	5.44	4.3	6.5
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS10(N)	7:21	9.8	Bottom	3	1	27.62	8.18	25.66	79.0	5.39	4.9	7.4
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	IS10(N)	7:22	9.8	Bottom	3	2	27.61	8.17	25.68	78.5	5.37	4.8	6.3

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	2018-07-20	Mid-Ebb	Sunny	SR3(N)	7:55	1.0	Surface	1	1	27.86	7.99	27.43	84.6	5.70	3.6	3.8
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR3(N)	7:54	1.0	Surface	1	2	27.85	7.98	27.48	85.2	5.74	3.8	4.2
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR3(N)	7:55	2.8	Bottom	3	1	27.78	7.99	27.86	84.9	5.71	3.8	4.7
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR3(N)	7:54	2.8	Bottom	3	2	27.78	7.98	27.88	85.6	5.75	3.9	4.8
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR4(N)	7:12	1.0	Surface	1	1	27.60	7.90	24.85	77.7	5.29	5.3	2.9
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR4(N)	7:12	1.0	Surface	1	2	27.60	7.89	24.83	77.9	5.35	5.5	3.6
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR4(N)	7:12	2.7	Bottom	3	1	27.63	7.89	26.58	79.1	5.38	5.7	3.7
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR4(N)	7:11	2.7	Bottom	3	2	27.62	7.88	26.68	79.6	5.41	5.8	4.8
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR5(N)	7:36	1.0	Surface	1	1	27.73	8.17	24.31	80.6	5.54	4.7	4.9
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR5(N)	7:37	1.0	Surface	1	2	27.75	8.17	24.07	80.7	5.55	4.7	5.2
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR5(N)	7:36	4.2	Middle	2	1	27.68	8.19	25.15	79.4	5.43	5.0	5.7
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR5(N)	7:37	4.2	Middle	2	2	27.68	8.19	25.08	79.4	5.43	4.8	5.9
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR5(N)	7:35	7.3	Bottom	3	1	27.60	8.17	25.76	78.9	5.39	5.5	7.0
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR5(N)	7:36	7.3	Bottom	3	2	27.62	8.19	25.77	78.8	5.38	5.6	6.1
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR10A(N)	6:19	1.0	Surface	1	1	27.42	8.14	27.82	76.8	5.20	3.1	5.4
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR10A(N)	6:19	1.0	Surface	1	2	27.41	8.14	28.27	76.5	5.17	3.1	6.2
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR10A(N)	6:18	6.8	Middle	2	1	27.41	8.14	28.17	76.5	5.17	3.2	5.7
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR10A(N)	6:19	6.8	Middle	2	2	27.41	8.14	28.33	76.4	5.16	3.1	6.4
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR10A(N)	6:18	12.6	Bottom	3	1	27.41	8.14	28.38	76.5	5.16	3.4	7.1
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR10A(N)	6:19	12.6	Bottom	3	2	27.41	8.14	28.33	76.5	5.17	3.3	6.7
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR10B(N2)	6:02	1.0	Surface	1	1	27.40	8.14	28.65	75.9	5.12	2.9	4.3
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR10B(N2)	6:01	1.0	Surface	1	2	27.40	8.14	28.63	76.1	5.13	2.8	3.9
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR10B(N2)	6:01	4.1	Middle	2	1	27.40	8.14	28.70	76.0	5.12	2.8	5.0
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR10B(N2)	6:02	4.1	Middle	2	2	27.40	8.14	28.63	75.9	5.12	2.9	4.4
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR10B(N2)	6:01	7.1	Bottom	3	1	27.40	8.14	28.64	75.8	5.11	3.1	5.2
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	SR10B(N2)	6:01	7.1	Bottom	3	2	27.40	8.13	28.71	76.0	5.12	3.2	4.8
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	CS2(A)	8:29	1.0	Surface	1	1	27.74	8.20	25.64	87.5	5.96	3.7	4.1
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	CS2(A)	8:28	1.0	Surface	1	2	27.70	8.22	25.80	84.8	5.78	3.8	5.2
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	CS2(A)	8:28	4.0	Middle	2	1	27.61	8.20	27.83	82.8	5.59	4.2	4.8
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	CS2(A)	8:27	4.0	Middle	2	2	27.61	8.21	27.82	82.8	5.59	4.1	5.9
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	CS2(A)	8:28	7.0	Bottom	3	1	27.54	8.20	28.77	82.3	5.53	4.4	5.7
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	CS2(A)	8:27	7.0	Bottom	3	2	27.54	8.21	28.78	82.4	5.54	4.3	6.7
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	CS(Mf)5	6:21	1.0	Surface	1	1	27.55	7.96	26.97	78.6	5.34	2.9	3.4
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	CS(Mf)5	6:20	1.0	Surface	1	2	27.58	7.95	27.02	78.8	5.35	3.0	4.3
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	CS(Mf)5	6:21	6.4	Middle	2	1	27.49	7.96	28.71	77.4	5.20	3.3	4.3
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	CS(Mf)5	6:20	6.4	Middle	2	2	27.52	7.94	28.74	77.9	5.23	3.2	5.4
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	CS(Mf)5	6:19	11.8	Bottom	3	1	27.46	7.95	30.59	79.1	5.27	4.1	4.7
HKLR	HY/2011/03	2018-07-20	Mid-Ebb	Sunny	CS(Mf)5	6:21	11.8	Bottom	3	2	27.46	7.97	30.58	79.2	5.27	4.4	5.6
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS5	11:32	1.0	Surface	1	1	28.10	8.02	29.04	92.7	6.17	7.4	6.3
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS5	11:31	1.0	Surface	1	2	28.11	8.01	29.05	92.6	6.15	7.6	5.5
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS5	11:31	4.3	Middle	2	1	28.01	8.02	29.45	89.1	5.92	8.2	6.7
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS5	11:30	4.3	Middle	2	2	28.00	8.02	29.45	89.2	5.92	8.4	6.2
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS5	11:30	7.6	Bottom	3	1	27.86	8.01	30.17	88.8	5.89	8.9	7.2
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS5	11:31	7.6	Bottom	3	2	27.90	8.00	30.12	88.3	5.85	8.8	6.2
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS(Mf)6	12:08	1.0	Surface	1	1	28.21	8.01	27.83	92.3	6.16	4.4	6.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS(Mf)6	12:07	1.0	Surface	1	2	28.24	8.01	27.83	92.7	6.19	4.1	7.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS(Mf)6	12:07	2.4	Bottom	3	1	28.11	8.01	27.85	92.4	6.17	4.6	8.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS(Mf)6	12:06	2.4	Bottom	3	2	28.13	8.01	27.86	93.2	6.23	4.6	7.7
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS7	12:16	1.0	Surface	1	1	28.27	8.00	28.23	90.6	6.04	3.5	5.8
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS7	12:15	1.0	Surface	1	2	28.28	8.01	28.23	90.6	6.03	3.5	4.7
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS7	12:16	2.5	Bottom	3	1	28.15	8.00	28.34	90.9	6.07	3.6	6.4
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS7	12:15	2.5	Bottom	3	2	28.14	8.01	28.35	91.2	6.08	3.5	5.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS8	12:42	1.0	Surface	1	1	28.32	8.04	27.93	91.0	6.06	2.3	4.8
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS8	12:43	1.0	Surface	1	2	28.32	8.03	27.88	90.5	6.04	2.2	4.7
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS8	12:42	3.0	Bottom	3	1	28.20	8.04	28.22	90.4	6.02	2.5	7.8
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS8	12:43	3.0	Bottom	3	2	28.20	8.02	28.19	90.1	6.01	2.7	8.4
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS(Mf)9	12:24	1.0	Surface	1	1	28.22	8.04	28.05	91.9	6.13	3.9	3.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS(Mf)9	12:25	1.0	Surface	1	2	28.26	8.04	28.00	92.2	6.14	3.8	4.7

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	2018-07-20	Mid-Flood	Sunny	IS(Mf)9	12:24	2.7	Bottom	3	1	27.82	7.99	28.86	89.7	5.99	5.6	5.3
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS(Mf)9	12:24	2.7	Bottom	3	2	27.82	7.99	28.87	90.0	6.01	5.5	6.3
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS10(N)	12:38	1.0	Surface	1	1	28.22	8.13	23.61	83.2	5.69	3.2	5.1
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS10(N)	12:37	1.0	Surface	1	2	28.11	8.13	23.72	82.3	5.64	3.3	4.5
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS10(N)	12:37	5.3	Middle	2	1	27.81	8.12	24.72	80.5	5.51	3.5	7.6
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS10(N)	12:38	5.3	Middle	2	2	27.80	8.12	24.73	80.1	5.48	3.6	7.3
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS10(N)	12:38	9.5	Bottom	3	1	27.66	8.12	25.55	79.8	5.45	4.5	8.3
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	IS10(N)	12:37	9.5	Bottom	3	2	27.65	8.12	25.52	80.2	5.48	4.3	7.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR3(N)	11:21	1.0	Surface	1	1	27.99	8.01	30.16	88.7	5.87	5.9	6.6
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR3(N)	11:22	1.0	Surface	1	2	28.00	8.01	30.16	88.6	5.86	5.9	6.4
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR3(N)	11:21	3.0	Bottom	3	1	27.98	8.02	30.19	89.5	5.92	5.9	10.6
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR3(N)	11:22	3.0	Bottom	3	2	27.98	8.01	30.19	89.1	5.90	6.0	10.8
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR4(N)	12:36	1.0	Surface	1	1	28.22	7.99	27.96	86.0	5.74	4.1	5.6
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR4(N)	12:37	1.0	Surface	1	2	28.23	7.98	27.93	85.7	5.73	4.0	5.5
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR4(N)	12:36	2.9	Bottom	3	1	27.90	7.99	28.37	84.9	5.68	4.3	6.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR4(N)	12:37	2.9	Bottom	3	2	27.91	7.98	28.34	84.3	5.65	4.3	6.6
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR5(N)	12:20	1.0	Surface	1	1	28.21	8.15	23.61	84.3	5.77	4.0	4.5
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR5(N)	12:21	1.0	Surface	1	2	28.23	8.13	23.63	83.5	5.71	3.8	4.2
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR5(N)	12:20	4.1	Middle	2	1	27.82	8.15	24.64	80.7	5.53	4.2	6.0
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR5(N)	12:21	4.1	Middle	2	2	27.82	8.13	24.67	80.4	5.50	4.1	5.0
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR5(N)	12:20	7.1	Bottom	3	1	27.65	8.13	25.55	79.8	5.45	4.6	7.3
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR5(N)	12:19	7.1	Bottom	3	2	27.64	8.15	25.59	79.1	5.40	4.4	7.6
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR10A(N)	13:37	1.0	Surface	1	1	27.53	8.17	28.25	78.6	5.29	3.5	4.0
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR10A(N)	13:38	1.0	Surface	1	2	27.58	8.15	28.00	79.0	5.33	3.4	3.4
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR10A(N)	13:38	6.8	Middle	2	1	27.48	8.16	28.49	77.3	5.21	4.3	3.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR10A(N)	13:37	6.8	Middle	2	2	27.50	8.17	28.42	77.5	5.23	4.3	4.5
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR10A(N)	13:36	12.5	Bottom	3	1	27.49	8.18	28.47	77.2	5.20	4.5	5.5
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR10A(N)	13:37	12.5	Bottom	3	2	27.43	8.16	29.06	77.2	5.20	4.3	4.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR10B(N2)	13:49	1.0	Surface	1	1	27.60	8.14	27.95	75.8	5.11	3.3	3.4
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR10B(N2)	13:50	1.0	Surface	1	2	27.61	8.14	27.94	76.3	5.14	3.2	4.2
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR10B(N2)	13:50	3.8	Middle	2	1	27.48	8.14	28.52	74.2	5.00	4.0	4.6
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR10B(N2)	13:49	3.8	Middle	2	2	27.48	8.14	28.49	74.2	5.00	3.9	5.1
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR10B(N2)	13:49	6.5	Bottom	3	1	27.43	8.14	28.78	73.8	4.97	4.5	5.2
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	SR10B(N2)	13:50	6.5	Bottom	3	2	27.42	8.13	28.92	73.7	4.96	4.6	5.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	CS2(A)	11:27	1.0	Surface	1	1	28.11	8.21	23.59	85.7	5.87	4.2	5.4
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	CS2(A)	11:28	1.0	Surface	1	2	28.19	8.18	23.51	85.9	5.88	4.1	4.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	CS2(A)	11:26	3.8	Middle	2	1	27.78	8.22	25.04	83.8	5.73	4.6	6.2
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	CS2(A)	11:28	3.8	Middle	2	2	27.78	8.21	25.02	84.0	5.74	4.6	5.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	CS2(A)	11:26	6.5	Bottom	3	1	27.57	8.24	28.31	81.8	5.51	5.2	6.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	CS2(A)	11:27	6.5	Bottom	3	2	27.54	8.22	28.83	81.6	5.48	5.1	7.3
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	CS(Mf)5	13:09	1.0	Surface	1	1	28.17	8.02	28.33	85.1	5.67	2.4	2.6
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	CS(Mf)5	13:10	1.0	Surface	1	2	28.18	8.00	28.36	84.1	5.63	2.2	1.8
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	CS(Mf)5	13:08	6.5	Middle	2	1	27.57	7.99	29.76	81.0	5.41	4.3	3.1
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	CS(Mf)5	13:10	6.5	Middle	2	2	27.55	8.00	29.71	80.8	5.36	4.0	3.9
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	CS(Mf)5	13:09	12	Bottom	3	1	27.49	8.01	32.53	84.3	5.55	5.5	3.5
HKLR	HY/2011/03	2018-07-20	Mid-Flood	Sunny	CS(Mf)5	13:08	12	Bottom	3	2	27.51	8.01	32.57	85.4	5.62	5.2	3.8
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	ISS	11:13	1.0	Surface	1	1	29.99	8.58	20.97	106.0	7.14	7.3	9.2
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	ISS	11:15	1.0	Surface	1	2	30.00	8.51	21.15	109.9	7.39	7.3	8.9
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	ISS	11:14	4.3	Middle	2	1	28.62	8.13	29.34	91.0	5.99	7.7	9.4
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	ISS	11:13	4.3	Middle	2	2	28.51	8.11	30.04	90.3	5.93	7.5	9.1
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	ISS	11:14	7.5	Bottom	3	1	28.19	8.07	32.01	85.6	5.59	8.1	9.6
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	ISS	11:13	7.5	Bottom	3	2	28.21	8.07	31.92	83.5	5.45	7.9	9.3
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS(Mf)6	11:04	1.0	Surface	1	1	29.72	8.66	20.37	159.6	10.84	4.4	9.6
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS(Mf)6	11:03	1.0	Surface	1	2	29.75	8.59	20.75	156.8	10.62	4.5	8.4
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS(Mf)6	11:02	2.2	Bottom	3	1	29.67	8.48	21.55	134.6	9.09	5.5	9.6
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS(Mf)6	11:04	2.2	Bottom	3	2	29.46	8.60	21.59	134.5	9.07	5.4	10.0
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS7	10:54	1.0	Surface	1	1	29.48	8.62	20.63	147.1	9.99	4.2	9.2
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS7	10:54	1.0	Surface	1	2	29.47	8.61	20.63	147.7	10.06	4.0	9.3

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	2018-07-23	Mid-Ebb	Fine	IS7	10:54	2.2	Bottom	3	1	29.31	8.47	20.75	143.5	9.72	5.0	9.7
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS7	10:54	2.2	Bottom	3	2	29.14	8.33	22.11	144.3	9.80	4.8	9.8
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS8	10:26	1.0	Surface	1	1	29.74	8.61	21.58	164.5	11.10	5.9	9.6
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS8	10:27	1.0	Surface	1	2	29.76	8.62	21.58	166.2	11.20	5.8	9.9
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS8	10:26	3.2	Bottom	3	1	29.65	8.40	24.19	154.9	10.31	6.0	11.6
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS8	10:27	3.2	Bottom	3	2	29.48	8.30	25.31	154.0	10.22	6.1	10.4
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS(Mf)9	10:45	1.0	Surface	1	1	29.61	8.63	21.31	161.0	10.90	3.8	9.6
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS(Mf)9	10:46	1.0	Surface	1	2	29.55	8.61	21.19	154.3	10.46	3.7	10.4
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS(Mf)9	10:45	2.7	Bottom	3	1	29.15	8.14	25.60	146.7	9.77	4.7	11.5
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS(Mf)9	10:45	2.7	Bottom	3	2	29.39	8.47	21.53	146.9	9.96	4.9	11.2
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS10(N)	10:28	1.0	Surface	1	1	29.15	8.30	18.83	105.2	7.28	7.6	11.5
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS10(N)	10:28	1.0	Surface	1	2	29.14	8.30	18.67	107.8	7.26	7.9	10.5
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS10(N)	10:28	5.3	Middle	2	1	28.50	8.28	24.29	95.1	6.45	8.0	11.3
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS10(N)	10:27	5.3	Middle	2	2	28.48	8.29	24.38	101.6	7.03	7.8	10.6
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS10(N)	10:28	9.6	Bottom	3	1	28.67	8.36	24.90	93.4	6.31	8.9	13.5
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	IS10(N)	10:27	9.6	Bottom	3	2	28.46	8.32	24.99	88.6	6.00	8.6	13.1
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR3(N)	11:22	1.0	Surface	1	1	29.86	8.73	19.11	155.1	10.58	5.6	8.4
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR3(N)	11:21	1.0	Surface	1	2	29.87	8.69	18.24	148.1	10.15	5.5	7.3
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR3(N)	11:21	2.3	Bottom	3	1	28.92	8.17	28.53	140.3	9.23	7.1	8.6
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR3(N)	11:21	2.3	Bottom	3	2	29.75	8.46	23.45	139.7	9.32	7.2	8.2
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR4(N)	10:34	1.0	Surface	1	1	29.76	8.49	22.66	168.2	11.27	6.2	8.1
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR4(N)	10:35	1.0	Surface	1	2	29.69	8.49	22.93	165.8	11.11	6.3	7.2
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR4(N)	10:34	2.6	Bottom	3	1	29.37	8.23	24.75	152.7	10.18	7.3	9.7
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR4(N)	10:33	2.6	Bottom	3	2	29.47	8.30	23.73	150.9	10.10	7.2	9.5
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR5(N)	10:39	1.0	Surface	1	1	29.16	8.35	18.73	109.3	7.40	8.2	9.8
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR5(N)	10:40	1.0	Surface	1	2	29.12	8.35	18.85	109.2	7.55	7.9	9.8
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR5(N)	10:40	4.0	Middle	2	1	28.60	8.24	23.56	97.3	6.62	11.5	10.8
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR5(N)	10:39	4.0	Middle	2	2	28.55	8.24	23.83	106.4	7.36	11.3	11.7
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR5(N)	10:40	7.0	Bottom	3	1	28.62	8.29	24.16	95.5	6.48	12.1	11.2
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR5(N)	10:39	7.0	Bottom	3	2	28.49	8.23	24.24	92.1	6.26	12.5	11.6
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR10A(N)	9:20	1.0	Surface	1	1	28.62	8.33	23.72	108.4	7.36	2.5	7.4
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR10A(N)	9:20	1.0	Surface	1	2	28.60	8.32	24.35	107.4	7.27	2.4	8.6
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR10A(N)	9:19	6.8	Middle	2	1	28.47	8.28	26.21	105.9	7.11	2.5	10.0
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR10A(N)	9:20	6.8	Middle	2	2	28.45	8.27	26.51	104.0	6.97	2.8	8.9
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR10A(N)	9:19	12.6	Bottom	3	1	28.48	8.28	26.17	107.7	7.23	3.2	11.8
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR10A(N)	9:20	12.6	Bottom	3	2	28.45	8.27	26.52	106.0	7.11	2.9	12.8
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR10B(N2)	9:08	1.0	Surface	1	1	28.63	8.33	23.68	111.0	7.46	2.5	8.7
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR10B(N2)	9:09	1.0	Surface	1	2	28.64	8.34	23.47	111.0	7.55	2.4	8.5
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR10B(N2)	9:09	3.4	Middle	2	1	28.53	8.30	25.26	109.4	7.38	3.0	8.9
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR10B(N2)	9:08	3.4	Middle	2	2	28.54	8.28	25.11	108.3	7.36	2.9	9.3
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR10B(N2)	9:09	5.7	Bottom	3	1	28.55	8.30	25.89	103.9	7.01	3.3	10.1
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	SR10B(N2)	9:08	5.7	Bottom	3	2	28.51	8.26	25.74	103.0	6.93	3.0	9.8
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	CS2(A)	11:26	1.0	Surface	1	1	28.95	8.43	20.95	106.3	7.04	8.1	8.8
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	CS2(A)	11:27	1.0	Surface	1	2	28.92	8.41	21.02	106.5	7.30	8.3	9.5
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	CS2(A)	11:26	3.7	Middle	2	1	28.06	8.23	29.33	104.3	7.15	9.2	9.2
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	CS2(A)	11:26	3.7	Middle	2	2	28.08	8.21	29.34	101.8	7.02	9.0	9.8
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	CS2(A)	11:26	6.3	Bottom	3	1	28.21	8.24	29.39	82.7	5.49	9.3	9.8
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	CS2(A)	11:26	6.3	Bottom	3	2	28.04	8.23	29.61	82.8	5.49	9.6	9.8
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	CS(Mf)5	9:59	1.0	Surface	1	1	29.15	8.40	21.85	110.0	7.48	3.7	7.9
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	CS(Mf)5	9:58	1.0	Surface	1	2	29.06	8.35	21.87	105.5	7.18	3.6	7.5
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	CS(Mf)5	9:58	6.3	Middle	2	1	28.65	8.12	25.46	97.0	6.52	3.8	8.3
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	CS(Mf)5	9:59	6.3	Middle	2	2	28.52	8.11	25.81	95.5	6.42	3.9	8.3
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	CS(Mf)5	9:57	11.5	Bottom	3	1	28.35	8.05	27.72	91.4	6.10	4.1	8.9
HKLR	HY/2011/03	2018-07-23	Mid-Ebb	Fine	CS(Mf)5	9:58	11.5	Bottom	3	2	28.35	8.06	28.13	93.0	6.19	4.0	8.5
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	ISS	16:06	1.0	Surface	1	1	29.65	8.72	20.84	149.0	10.11	7.0	9.9
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	ISS	16:07	1.0	Surface	1	2	29.66	8.69	21.20	148.1	10.02	6.9	9.0
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	ISS	16:07	4.2	Middle	2	1	29.17	8.36	25.30	123.3	8.23	7.8	9.9
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	ISS	16:05	4.2	Middle	2	2	29.46	8.53	23.14	124.6	8.37	7.8	10.8

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	2018-07-23	Mid-Flood	Cloudy	IS5	16:06	7.4	Bottom	3	1	28.41	8.06	30.49	111.9	7.34	7.8	11.1
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS5	16:05	7.4	Bottom	3	2	28.60	8.12	27.74	110.2	7.32	7.9	11.0
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS(Mf)6	16:16	1.0	Surface	1	1	29.73	8.68	21.74	161.1	10.77	9.7	10.1
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS(Mf)6	16:17	1.0	Surface	1	2	29.78	8.68	22.00	163.2	10.97	9.8	10.5
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS(Mf)6	16:17	2.5	Bottom	3	1	29.92	8.65	22.69	150.4	10.04	10.1	13.4
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS(Mf)6	16:16	2.5	Bottom	3	2	29.92	8.64	22.67	150.7	10.07	10.0	14.2
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS7	16:28	1.0	Surface	1	1	30.02	8.66	22.68	164.6	10.98	6.9	12.5
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS7	16:29	1.0	Surface	1	2	29.83	8.71	21.97	166.1	11.16	6.7	11.4
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS7	16:29	2.4	Bottom	3	1	29.98	8.67	22.55	160.2	10.70	7.5	13.7
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS7	16:27	2.4	Bottom	3	2	30.04	8.65	22.76	161.5	10.76	7.4	13.0
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS8	16:59	1.0	Surface	1	1	29.71	8.63	22.78	156.7	10.50	11.2	10.9
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS8	17:00	1.0	Surface	1	2	29.73	8.65	22.70	155.3	10.41	11.3	10.6
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS8	16:59	3.4	Bottom	3	1	29.30	8.35	24.66	144.5	9.65	11.4	10.7
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS8	16:58	3.4	Bottom	3	2	29.37	8.39	24.47	141.8	9.46	11.3	11.8
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS(Mf)9	16:39	1.0	Surface	1	1	30.00	8.64	22.91	165.8	11.05	10.3	15.6
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS(Mf)9	16:38	1.0	Surface	1	2	30.03	8.65	22.94	167.2	11.14	10.1	16.2
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS(Mf)9	16:38	2.6	Bottom	3	1	30.02	8.63	23.10	163.0	10.85	10.8	16.9
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS(Mf)9	16:39	2.6	Bottom	3	2	29.88	8.54	23.56	160.6	10.69	10.8	17.2
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS10(N)	16:51	1.0	Surface	1	1	28.96	8.46	22.84	110.3	7.49	8.3	10.8
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS10(N)	16:50	1.0	Surface	1	2	28.92	8.42	22.89	108.4	7.31	8.5	10.2
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS10(N)	16:50	5.4	Middle	2	1	28.45	8.17	25.01	101.0	6.85	8.7	12.7
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS10(N)	16:51	5.4	Middle	2	2	28.45	8.16	24.98	102.5	6.88	9.0	13.3
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS10(N)	16:50	9.8	Bottom	3	1	28.41	8.17	25.27	90.4	6.11	10.2	14.0
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	IS10(N)	16:50	9.8	Bottom	3	2	28.53	8.25	25.15	91.8	6.21	9.8	13.2
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR3(N)	15:56	1.0	Surface	1	1	29.76	8.65	21.35	158.7	10.71	6.8	10.7
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR3(N)	15:57	1.0	Surface	1	2	29.77	8.66	21.23	161.5	10.90	6.6	9.4
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR3(N)	15:56	2.5	Bottom	3	1	29.65	8.55	22.99	150.8	10.10	7.3	11.4
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR3(N)	15:57	2.5	Bottom	3	2	29.55	8.51	23.28	155.5	10.42	7.4	11.4
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR4(N)	16:52	1.0	Surface	1	1	29.38	8.30	24.98	127.1	8.46	11.6	13.1
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR4(N)	16:51	1.0	Surface	1	2	29.38	8.31	24.97	128.1	8.53	11.5	13.9
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR4(N)	16:51	2.6	Bottom	3	1	29.22	8.21	25.45	120.5	8.02	11.9	14.5
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR4(N)	16:52	2.6	Bottom	3	2	29.20	8.21	25.51	122.3	8.14	11.8	14.2
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR5(N)	16:41	1.0	Surface	1	1	28.92	8.42	22.91	98.3	6.67	8.0	11.4
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR5(N)	16:42	1.0	Surface	1	2	28.89	8.38	22.92	94.6	6.42	7.7	11.1
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR5(N)	16:42	3.9	Middle	2	1	28.52	8.18	24.58	86.0	5.81	10.9	14.2
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR5(N)	16:41	3.9	Middle	2	2	28.51	8.18	24.67	85.4	5.76	11.4	15.3
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR5(N)	16:42	6.8	Bottom	3	1	28.37	8.15	25.53	83.0	5.62	12.0	15.5
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR5(N)	16:41	6.8	Bottom	3	2	28.32	8.17	25.81	80.9	5.48	11.8	14.9
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR10A(N)	17:48	1.0	Surface	1	1	28.61	8.38	25.90	104.6	6.97	3.3	5.5
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR10A(N)	17:49	1.0	Surface	1	2	28.68	8.39	25.68	106.9	7.17	3.2	4.9
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR10A(N)	17:48	6.7	Middle	2	1	28.53	8.34	27.18	102.7	6.85	3.4	6.0
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR10A(N)	17:48	6.7	Middle	2	2	28.37	8.31	28.06	96.0	6.39	3.6	6.5
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR10A(N)	17:48	12.3	Bottom	3	1	28.39	8.34	28.09	99.8	6.64	4.3	8.6
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR10A(N)	17:48	12.3	Bottom	3	2	28.52	8.34	27.48	98.7	6.62	4.6	8.5
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR10B(N2)	17:59	1.0	Surface	1	1	28.68	8.37	25.93	108.9	7.30	3.7	7.8
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR10B(N2)	17:58	1.0	Surface	1	2	28.70	8.38	25.90	113.3	7.59	3.5	7.4
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR10B(N2)	17:59	3.6	Middle	2	1	28.60	8.34	26.31	106.1	7.10	5.3	7.7
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR10B(N2)	17:58	3.6	Middle	2	2	28.61	8.35	26.36	110.8	7.41	5.4	8.8
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR10B(N2)	17:59	6.1	Bottom	3	1	28.41	8.29	27.84	106.7	7.10	5.5	8.3
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	SR10B(N2)	17:58	6.1	Bottom	3	2	28.61	8.36	26.55	112.3	7.50	5.3	9.1
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	CS2(A)	15:47	1.0	Surface	1	1	28.60	8.31	23.36	95.0	6.47	7.3	15.0
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	CS2(A)	15:46	1.0	Surface	1	2	28.63	8.34	23.41	98.6	6.51	7.3	15.0
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	CS2(A)	15:47	3.5	Middle	2	1	28.40	8.19	26.06	91.9	6.18	9.2	15.1
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	CS2(A)	15:46	3.5	Middle	2	2	28.33	8.18	26.25	96.6	6.57	8.8	16.7
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	CS2(A)	15:46	5.9	Bottom	3	1	28.24	8.22	29.81	83.5	5.62	11.2	15.9
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	CS2(A)	15:46	5.9	Bottom	3	2	28.02	8.15	30.01	82.3	5.45	10.0	17.1
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	CS(Mf)5	17:28	1.0	Surface	1	1	28.61	8.20	27.73	104.1	6.91	3.2	8.8
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	CS(Mf)5	17:26	1.0	Surface	1	2	28.66	8.21	27.29	103.8	6.91	3.1	9.7

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	2018-07-23	Mid-Flood	Cloudy	CS(Mf)5	17:26	6.4	Middle	2	1	28.53	8.15	28.58	98.6	6.53	3.7	9.1
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	CS(Mf)5	17:28	6.4	Middle	2	2	28.50	8.15	29.11	99.3	6.56	3.6	9.8
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	CS(Mf)5	17:27	11.7	Bottom	3	1	28.33	8.09	30.23	94.9	6.25	4.8	9.5
HKLR	HY/2011/03	2018-07-23	Mid-Flood	Cloudy	CS(Mf)5	17:25	11.7	Bottom	3	2	28.33	8.08	30.36	95.3	6.26	4.7	9.2
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS5	12:13	1.0	Surface	1	1	29.29	8.33	23.29	109.5	7.37	6.5	11.8
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS5	12:13	1.0	Surface	1	2	29.29	8.34	23.31	108.0	7.27	6.5	10.5
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS5	12:13	4.2	Middle	2	1	29.10	8.28	23.67	108.1	7.29	6.9	11.5
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS5	12:13	4.2	Middle	2	2	29.09	8.29	23.81	103.6	6.98	7.1	11.6
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS5	12:13	7.3	Bottom	3	1	29.07	8.28	24.00	103.4	6.96	7.2	11.7
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS5	12:13	7.3	Bottom	3	2	29.14	8.28	23.71	110.3	7.42	6.8	11.7
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS(Mf)6	12:06	1.0	Surface	1	1	29.36	8.32	23.76	109.6	7.35	7.0	14.2
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS(Mf)6	12:06	1.0	Surface	1	2	29.31	8.31	23.71	110.6	7.42	7.2	13.5
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS(Mf)6	12:05	2.3	Bottom	3	1	29.35	8.31	23.95	107.3	7.19	7.4	14.8
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS(Mf)6	12:06	2.3	Bottom	3	2	29.34	8.30	23.83	110.4	7.40	7.2	13.7
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS7	11:57	1.0	Surface	1	1	29.06	8.24	23.78	98.9	6.66	5.8	10.8
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS7	11:57	1.0	Surface	1	2	29.09	8.26	23.73	102.0	6.87	5.7	11.1
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS7	11:57	2.6	Bottom	3	1	29.06	8.20	24.12	100.4	6.75	6.8	11.8
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS7	11:57	2.6	Bottom	3	2	29.01	8.17	24.91	99.8	6.69	6.4	12.9
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS8	11:30	1.0	Surface	1	1	29.47	8.29	23.54	109.0	7.31	4.3	9.8
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS8	11:30	1.0	Surface	1	2	29.31	8.28	23.67	109.3	7.34	4.6	10.6
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS8	11:30	2.6	Bottom	3	1	29.16	8.27	24.23	102.6	6.88	5.0	10.5
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS8	11:30	2.6	Bottom	3	2	29.19	8.26	24.11	107.0	7.17	4.8	11.1
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS(Mf)9	11:48	1.0	Surface	1	1	29.22	8.32	24.04	108.4	7.27	5.4	10.7
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS(Mf)9	11:49	1.0	Surface	1	2	29.30	8.32	23.87	109.1	7.31	5.5	10.5
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS(Mf)9	11:49	2.6	Bottom	3	1	28.99	8.21	24.35	104.4	7.02	6.0	12.0
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS(Mf)9	11:48	2.6	Bottom	3	2	29.35	8.31	24.03	105.9	7.10	5.8	11.0
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS10(N)	11:57	1.0	Surface	1	1	29.19	8.37	19.32	106.6	7.34	7.6	8.3
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS10(N)	11:56	1.0	Surface	1	2	29.35	8.34	19.06	105.7	7.27	7.4	9.1
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS10(N)	11:56	5.3	Middle	2	1	28.99	8.37	19.75	99.9	6.89	8.0	8.5
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS10(N)	11:57	5.3	Middle	2	2	28.99	8.39	19.96	100.3	6.91	7.8	9.4
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS10(N)	11:56	9.5	Bottom	3	1	28.74	8.29	23.02	98.0	6.67	8.4	9.6
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	IS10(N)	11:56	9.5	Bottom	3	2	28.76	8.32	22.84	98.5	6.70	8.2	9.1
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR3(N)	12:23	1.0	Surface	1	1	29.30	8.33	23.20	113.1	7.62	6.0	10.9
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR3(N)	12:24	1.0	Surface	1	2	29.30	8.33	23.19	115.0	7.74	6.1	10.4
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR3(N)	12:23	2.9	Bottom	3	1	29.14	8.30	23.50	112.3	7.57	6.5	11.0
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR3(N)	12:23	2.9	Bottom	3	2	29.21	8.31	23.35	114.2	7.69	6.4	11.6
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR4(N)	11:39	1.0	Surface	1	1	29.33	8.27	23.56	109.9	7.38	4.5	10.7
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR4(N)	11:39	1.0	Surface	1	2	29.41	8.28	23.46	109.8	7.37	4.1	10.2
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR4(N)	11:38	2.7	Bottom	3	1	29.15	8.27	23.80	108.0	7.27	4.8	10.8
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR4(N)	11:39	2.7	Bottom	3	2	29.19	8.26	23.90	110.3	7.41	4.6	11.0
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR5(N)	12:11	1.0	Surface	1	1	29.48	8.32	18.94	107.2	7.36	7.5	9.4
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR5(N)	12:12	1.0	Surface	1	2	29.40	8.32	19.02	106.5	7.33	7.6	9.7
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR5(N)	12:12	4.1	Middle	2	1	29.01	8.39	19.74	102.6	7.07	7.9	10.8
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR5(N)	12:11	4.1	Middle	2	2	29.02	8.40	19.81	102.6	7.07	8.1	10.9
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR5(N)	12:11	7.1	Bottom	3	1	28.76	8.32	22.83	99.1	6.75	8.4	13.1
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR5(N)	12:12	7.1	Bottom	3	2	28.77	8.33	22.69	99.1	6.75	8.3	12.0
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR10A(N)	10:46	1.0	Surface	1	1	29.08	8.43	22.91	117.6	7.96	4.5	9.4
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR10A(N)	10:48	1.0	Surface	1	2	28.94	8.41	22.92	116.4	7.90	4.3	9.1
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR10A(N)	10:48	6.8	Middle	2	1	28.89	8.39	23.36	113.0	7.65	5.3	9.7
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR10A(N)	10:46	6.8	Middle	2	2	28.84	8.37	23.76	109.3	7.39	5.5	9.5
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR10A(N)	10:47	12.5	Bottom	3	1	28.87	8.37	23.86	111.3	7.52	5.6	10.0
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR10A(N)	10:46	12.5	Bottom	3	2	28.84	8.37	23.89	108.5	7.33	5.7	9.6
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR10B(N2)	10:32	1.0	Surface	1	1	28.87	8.41	23.06	113.5	7.70	4.1	7.1
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR10B(N2)	10:31	1.0	Surface	1	2	28.85	8.40	23.00	112.9	7.66	4.0	7.7
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR10B(N2)	10:32	3.8	Middle	2	1	28.84	8.39	23.53	111.7	7.56	4.3	8.4
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR10B(N2)	10:31	3.8	Middle	2	2	28.82	8.38	23.56	110.6	7.49	4.5	8.8
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR10B(N2)	10:31	6.6	Bottom	3	1	28.82	8.36	23.99	110.0	7.43	4.7	9.6
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	SR10B(N2)	10:32	6.6	Bottom	3	2	28.82	8.38	23.79	111.4	7.54	4.6	8.5

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	2018-07-25	Mid-Ebb	Sunny	CS2(A)	13:03	1.0	Surface	1	1	29.35	8.37	19.33	103.7	7.12	8.0	9.5
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	CS2(A)	13:04	1.0	Surface	1	2	29.32	8.38	19.41	105.4	7.24	8.2	10.6
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	CS2(A)	13:03	3.8	Middle	2	1	28.73	8.28	21.38	88.8	6.09	8.5	10.4
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	CS2(A)	13:04	3.8	Middle	2	2	28.78	8.30	21.12	90.1	6.19	8.6	11.2
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	CS2(A)	13:02	6.6	Bottom	3	1	28.64	8.24	23.36	87.6	5.96	8.7	10.4
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	CS2(A)	13:04	6.6	Bottom	3	2	28.60	8.24	23.94	86.5	5.87	8.7	11.6
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	CS(Mf)5	10:59	1.0	Surface	1	1	29.13	8.17	22.03	92.5	6.28	5.7	9.4
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	CS(Mf)5	11:00	1.0	Surface	1	2	29.14	8.18	22.21	94.8	6.44	5.8	8.6
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	CS(Mf)5	10:59	6.2	Middle	2	1	28.68	8.10	26.98	89.3	5.95	5.9	10.1
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	CS(Mf)5	11:00	6.2	Middle	2	2	28.69	8.10	26.74	88.3	5.89	5.8	9.4
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	CS(Mf)5	10:59	11.3	Bottom	3	1	28.69	8.10	27.19	92.6	6.16	5.8	9.4
HKLR	HY/2011/03	2018-07-25	Mid-Ebb	Sunny	CS(Mf)5	11:00	11.3	Bottom	3	2	28.67	8.09	27.10	91.0	6.06	5.6	10.2
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS5	17:36	1.0	Surface	1	1	29.63	8.29	25.30	114.9	7.60	12.0	12.4
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS5	17:35	1.0	Surface	1	2	29.65	8.28	25.24	116.6	7.72	11.4	11.9
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS5	17:36	4.3	Middle	2	1	29.46	8.27	25.58	112.1	7.43	12.1	12.1
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS5	17:35	4.3	Middle	2	2	29.54	8.28	25.47	114.0	7.55	12.3	13.1
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS5	17:36	7.5	Bottom	3	1	29.40	8.24	25.74	114.5	7.58	12.1	12.8
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS5	17:35	7.5	Bottom	3	2	29.50	8.27	25.55	113.4	7.51	12.3	12.4
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS(Mf)6	17:49	1.0	Surface	1	1	29.63	8.30	25.31	117.9	7.80	9.9	16.0
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS(Mf)6	17:48	1.0	Surface	1	2	29.64	8.30	25.23	116.2	7.69	9.8	14.8
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS(Mf)6	17:48	2.1	Bottom	3	1	29.60	8.32	25.12	107.3	7.11	12.1	16.9
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS(Mf)6	17:49	2.1	Bottom	3	2	29.63	8.30	25.27	115.2	7.62	11.8	16.5
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS7	18:00	1.0	Surface	1	1	29.64	8.34	25.23	118.2	7.82	9.2	13.6
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS7	18:00	1.0	Surface	1	2	29.64	8.34	25.14	121.0	8.02	9.0	13.6
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS7	17:59	2.4	Bottom	3	1	29.65	8.34	25.31	113.9	7.54	12.1	13.6
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS7	18:00	2.4	Bottom	3	2	29.64	8.33	25.20	119.9	7.94	11.7	14.7
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS8	18:29	1.0	Surface	1	1	29.50	8.32	22.44	118.0	7.95	11.8	10.5
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS8	18:29	1.0	Surface	1	2	29.50	8.32	22.51	116.2	7.83	11.6	10.7
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS8	18:29	3.1	Bottom	3	1	29.45	8.23	24.55	117.5	7.83	12.6	12.6
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS8	18:28	3.1	Bottom	3	2	29.37	8.16	25.18	112.0	7.45	13.2	12.2
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS(Mf)9	18:11	1.0	Surface	1	1	29.66	8.33	23.65	118.3	7.90	9.8	13.0
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS(Mf)9	18:11	1.0	Surface	1	2	29.62	8.32	23.75	114.5	7.60	9.6	14.1
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS(Mf)9	18:11	2.8	Bottom	3	1	29.48	8.23	25.30	108.1	7.22	11.2	15.3
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS(Mf)9	18:11	2.8	Bottom	3	2	29.56	8.24	25.42	105.1	6.96	11.0	15.2
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS10(N)	18:42	1.0	Surface	1	1	29.47	8.40	20.70	114.8	7.81	7.1	12.1
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS10(N)	18:41	1.0	Surface	1	2	29.47	8.39	20.68	114.6	7.80	6.9	11.0
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS10(N)	18:41	5.5	Middle	2	1	29.43	8.42	21.25	113.5	7.71	7.4	12.0
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS10(N)	18:40	5.5	Middle	2	2	29.42	8.43	21.47	113.3	7.68	7.5	11.9
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS10(N)	18:40	9.9	Bottom	3	1	29.32	8.39	21.75	112.3	7.62	8.0	12.5
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	IS10(N)	18:41	9.9	Bottom	3	2	29.28	8.37	21.84	111.8	7.59	8.1	12.8
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR3(N)	17:24	1.0	Surface	1	1	29.71	8.31	25.10	118.8	7.86	11.3	14.8
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR3(N)	17:24	1.0	Surface	1	2	29.65	8.29	25.17	119.4	7.91	11.6	13.7
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR3(N)	17:24	2.9	Bottom	3	1	29.66	8.30	25.23	116.7	7.72	10.8	14.7
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR3(N)	17:24	2.9	Bottom	3	2	29.73	8.31	25.06	112.6	7.45	11.5	16.0
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR4(N)	18:24	1.0	Surface	1	1	29.48	8.30	22.67	111.6	7.45	11.6	11.1
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR4(N)	18:24	1.0	Surface	1	2	29.48	8.31	22.70	116.9	7.87	12.0	10.4
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR4(N)	18:23	2.8	Bottom	3	1	29.36	8.17	24.68	101.4	6.77	13.5	12.1
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR4(N)	18:24	2.8	Bottom	3	2	29.43	8.22	24.42	108.3	7.29	13.1	11.6
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR5(N)	18:26	1.0	Surface	1	1	29.46	8.42	20.79	113.2	7.71	8.8	12.0
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR5(N)	18:27	1.0	Surface	1	2	29.47	8.40	20.71	114.3	7.78	8.6	11.9
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR5(N)	18:26	4.1	Middle	2	1	29.42	8.43	21.33	112.8	7.66	10.0	13.5
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR5(N)	18:27	4.1	Middle	2	2	29.42	8.43	21.35	114.5	7.77	10.2	14.6
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR5(N)	18:27	7.2	Bottom	3	1	29.43	8.44	21.67	114.4	7.75	11.0	14.1
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR5(N)	18:25	7.2	Bottom	3	2	29.42	8.46	21.74	111.7	7.57	10.9	15.3
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR10A(N)	19:45	1.0	Surface	1	1	28.91	8.34	24.63	91.8	6.17	8.6	6.0
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR10A(N)	19:46	1.0	Surface	1	2	28.95	8.32	24.10	92.4	6.23	8.4	5.6
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR10A(N)	19:45	6.8	Middle	2	1	28.87	8.34	24.99	90.7	6.09	8.8	7.4
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR10A(N)	19:45	6.8	Middle	2	2	28.90	8.32	24.68	90.7	6.10	8.6	7.1

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	2018-07-25	Mid-Flood	Sunny	SR10A(N)	19:45	12.6	Bottom	3	1	28.76	8.34	26.84	90.3	6.01	9.3	7.4
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR10A(N)	19:45	12.6	Bottom	3	2	28.78	8.31	26.70	90.3	6.02	9.2	7.5
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR10B(N2)	19:57	1.0	Surface	1	1	28.91	8.31	24.93	92.2	6.19	7.0	7.4
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR10B(N2)	19:58	1.0	Surface	1	2	28.93	8.31	24.16	92.1	6.21	6.8	6.5
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR10B(N2)	19:57	3.9	Middle	2	1	28.87	8.31	25.48	90.8	6.08	7.0	7.2
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR10B(N2)	19:57	3.9	Middle	2	2	28.88	8.31	25.38	90.9	6.09	7.1	7.5
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR10B(N2)	19:57	6.8	Bottom	3	1	28.80	8.30	26.40	90.5	6.04	7.2	8.3
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	SR10B(N2)	19:56	6.8	Bottom	3	2	28.79	8.30	26.64	90.7	6.04	7.5	8.6
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	CS2(A)	17:29	1.0	Surface	1	1	29.44	8.36	18.90	103.8	7.14	9.7	13.2
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	CS2(A)	17:28	1.0	Surface	1	2	29.46	8.32	18.55	103.1	7.10	9.8	12.1
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	CS2(A)	17:29	4.0	Middle	2	1	29.20	8.36	20.53	96.9	6.63	10.4	13.4
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	CS2(A)	17:28	4.0	Middle	2	2	29.22	8.34	20.42	97.0	6.64	10.6	14.4
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	CS2(A)	17:29	7.0	Bottom	3	1	28.73	8.28	23.75	93.6	6.34	10.9	15.0
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	CS2(A)	17:28	7.0	Bottom	3	2	28.86	8.26	22.02	91.8	6.27	11.0	15.8
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	CS(Mf)5	19:01	1.0	Surface	1	1	29.25	8.15	23.95	92.1	6.18	4.0	7.0
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	CS(Mf)5	19:00	1.0	Surface	1	2	29.06	8.09	25.02	90.2	5.91	4.1	8.1
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	CS(Mf)5	18:59	6.3	Middle	2	1	28.70	8.07	28.98	87.1	5.73	4.7	8.6
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	CS(Mf)5	19:00	6.3	Middle	2	2	28.78	8.08	27.41	88.8	5.94	4.5	8.0
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	CS(Mf)5	18:59	11.5	Bottom	3	1	28.68	8.06	29.78	86.9	5.71	5.4	9.4
HKLR	HY/2011/03	2018-07-25	Mid-Flood	Sunny	CS(Mf)5	19:00	11.5	Bottom	3	2	28.68	8.06	29.45	85.7	5.69	5.7	10.5
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS5	11:32	1.0	Surface	1	1	29.76	8.16	24.04	94.0	6.25	5.1	9.9
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS5	11:34	1.0	Surface	1	2	29.77	8.17	24.07	93.3	6.21	5.0	9.4
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS5	11:32	4.2	Middle	2	1	29.61	8.14	24.53	91.2	6.06	6.6	11.9
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS5	11:33	4.2	Middle	2	2	29.59	8.13	24.48	90.9	6.05	6.7	11.2
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS5	11:31	7.4	Bottom	3	1	29.53	8.12	24.92	90.8	6.03	7.9	16.0
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS5	11:33	7.4	Bottom	3	2	29.54	8.10	24.93	90.6	6.01	7.6	17.1
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS(Mf)6	11:45	1.0	Surface	1	1	29.82	8.24	23.15	103.3	6.90	4.9	5.7
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS(Mf)6	11:46	1.0	Surface	1	2	29.81	8.23	23.19	102.9	6.87	5.1	6.3
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS(Mf)6	11:46	2.3	Bottom	3	1	29.77	8.19	23.87	100.2	6.67	5.8	10.0
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS(Mf)6	11:45	2.3	Bottom	3	2	29.77	8.19	23.88	100.5	6.69	5.6	11.1
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS7	11:57	1.0	Surface	1	1	29.94	8.23	22.69	106.2	7.11	4.8	5.8
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS7	11:56	1.0	Surface	1	2	29.93	8.23	22.72	106.5	7.12	4.6	6.9
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS7	11:56	2.5	Bottom	3	1	29.66	8.17	23.58	98.0	6.54	10.1	8.2
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS7	11:57	2.5	Bottom	3	2	29.68	8.18	23.56	98.3	6.56	9.8	8.3
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS8	12:30	1.0	Surface	1	1	30.26	8.25	22.83	111.0	7.37	4.5	9.9
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS8	12:30	1.0	Surface	1	2	30.28	8.25	22.81	111.0	7.37	4.4	9.3
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS8	12:29	2.8	Bottom	3	1	29.81	8.23	23.60	105.8	7.05	6.3	10.7
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS8	12:30	2.8	Bottom	3	2	29.84	8.24	23.57	105.8	7.06	5.9	10.1
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS(Mf)9	12:07	1.0	Surface	1	1	30.29	8.24	22.85	105.7	7.01	4.6	7.3
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS(Mf)9	12:07	1.0	Surface	1	2	30.32	8.24	22.86	106.3	7.05	4.5	8.0
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS(Mf)9	12:06	2.6	Bottom	3	1	29.75	8.17	23.62	97.6	6.50	7.7	8.2
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS(Mf)9	12:07	2.6	Bottom	3	2	29.79	8.19	23.62	98.1	6.54	7.6	9.2
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS10(N)	12:16	1.0	Surface	1	1	29.83	8.25	19.33	91.0	6.21	5.5	4.0
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS10(N)	12:17	1.0	Surface	1	2	29.89	8.24	19.30	91.3	6.22	5.3	3.5
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS10(N)	12:16	5.3	Middle	2	1	29.55	8.26	20.61	89.6	6.09	5.7	3.8
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS10(N)	12:17	5.3	Middle	2	2	29.56	8.26	20.64	89.4	6.08	5.6	4.0
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS10(N)	12:16	9.5	Bottom	3	1	29.40	8.25	22.48	89.2	6.02	6.2	4.2
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	IS10(N)	12:16	9.5	Bottom	3	2	29.45	8.27	21.65	89.6	6.07	6.0	4.9
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR3(N)	11:21	1.0	Surface	1	1	30.07	8.21	23.00	103.1	6.85	4.7	5.0
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR3(N)	11:20	1.0	Surface	1	2	30.08	8.21	23.04	102.6	6.83	4.5	6.1
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR3(N)	11:20	3.0	Bottom	3	1	29.75	8.12	23.40	100.6	6.72	4.5	9.1
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR3(N)	11:21	3.0	Bottom	3	2	29.78	8.13	23.40	100.2	6.68	4.7	9.5
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR4(N)	12:21	1.0	Surface	1	1	30.08	8.25	22.74	111.2	7.41	5.6	9.6
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR4(N)	12:22	1.0	Surface	1	2	30.07	8.25	22.78	111.8	7.44	5.4	10.1
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR4(N)	12:20	2.9	Bottom	3	1	29.69	8.24	23.56	105.2	7.03	9.6	10.5
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR4(N)	12:21	2.9	Bottom	3	2	29.71	8.23	23.53	105.3	7.03	9.4	10.4
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR5(N)	12:09	1.0	Surface	1	1	29.97	8.24	19.21	92.0	6.26	4.3	3.6
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR5(N)	12:08	1.0	Surface	1	2	29.95	8.24	19.21	91.7	6.24	4.2	4.1

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	2018-07-27	Mid-Ebb	Sunny	SR5(N)	12:08	4.0	Middle	2	1	29.57	8.26	20.36	89.0	6.06	4.7	4.4
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR5(N)	12:09	4.0	Middle	2	2	29.58	8.26	20.41	89.0	6.06	4.6	3.7
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR5(N)	12:08	7.0	Bottom	3	1	29.43	8.28	21.70	88.7	6.01	5.0	5.6
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR5(N)	12:09	7.0	Bottom	3	2	29.42	8.28	21.80	88.4	5.99	5.1	4.5
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR10A(N)	12:59	1.0	Surface	1	1	29.73	8.32	22.11	100.8	6.78	3.2	4.6
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR10A(N)	12:58	1.0	Surface	1	2	29.57	8.31	22.45	98.4	6.62	3.1	3.8
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR10A(N)	12:57	6.8	Middle	2	1	29.55	8.30	22.57	97.6	6.57	4.4	6.6
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR10A(N)	12:59	6.8	Middle	2	2	29.66	8.31	22.30	99.8	6.71	4.2	5.7
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR10A(N)	12:57	12.5	Bottom	3	1	29.52	8.30	23.07	96.9	6.51	5.2	6.7
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR10A(N)	12:58	12.5	Bottom	3	2	29.64	8.31	22.55	99.4	6.68	5.1	6.2
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR10B(N2)	13:08	1.0	Surface	1	1	29.66	8.31	22.20	100.9	6.79	4.8	4.1
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR10B(N2)	13:08	1.0	Surface	1	2	29.62	8.31	22.36	99.8	6.71	4.7	3.7
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR10B(N2)	13:07	3.8	Middle	2	1	29.59	8.30	22.46	98.9	6.65	4.9	5.4
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR10B(N2)	13:08	3.8	Middle	2	2	29.67	8.31	22.24	100.8	6.78	5.0	4.8
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR10B(N2)	13:08	6.6	Bottom	3	1	29.72	8.31	22.23	100.5	6.75	5.3	7.2
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	SR10B(N2)	13:07	6.6	Bottom	3	2	29.63	8.30	22.41	98.4	6.62	5.2	6.3
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	CS2(A)	11:20	1.0	Surface	1	1	29.32	8.31	22.16	80.6	5.45	4.3	3.8
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	CS2(A)	11:21	1.0	Surface	1	2	29.33	8.31	22.47	81.1	5.48	4.4	4.3
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	CS2(A)	11:19	3.9	Middle	2	1	29.01	8.27	25.58	74.4	4.97	6.5	4.6
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	CS2(A)	11:20	3.9	Middle	2	2	28.95	8.26	26.40	73.9	4.92	6.7	5.1
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	CS2(A)	11:20	6.7	Bottom	3	1	28.76	8.22	27.24	72.1	4.79	7.2	6.1
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	CS2(A)	11:19	6.7	Bottom	3	2	28.76	8.22	27.24	71.7	4.76	7.4	6.3
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	CS(Mf)5	12:56	1.0	Surface	1	1	29.79	8.14	23.48	90.9	6.06	5.2	6.5
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	CS(Mf)5	12:58	1.0	Surface	1	2	29.83	8.13	23.44	90.1	6.00	5.5	5.7
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	CS(Mf)5	12:56	6.0	Middle	2	1	29.33	8.11	26.59	81.7	5.40	7.7	7.7
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	CS(Mf)5	12:57	6.0	Middle	2	2	29.30	8.10	26.61	81.5	5.38	7.6	8.5
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	CS(Mf)5	12:55	11.0	Bottom	3	1	29.00	8.08	30.05	77.3	5.04	13.6	11.9
HKLR	HY/2011/03	2018-07-27	Mid-Ebb	Sunny	CS(Mf)5	12:57	11.0	Bottom	3	2	29.01	8.07	30.02	77.4	5.06	12.8	10.8
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS5	6:11	1.0	Surface	1	1	29.41	8.12	21.54	90.1	6.07	3.5	3.3
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS5	6:12	1.0	Surface	1	2	29.43	8.12	21.55	90.4	6.09	3.4	2.9
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS5	6:12	4.2	Middle	2	1	29.01	8.10	24.76	82.3	5.49	6.7	3.5
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS5	6:11	4.2	Middle	2	2	29.00	8.11	24.73	82.5	5.50	6.8	4.6
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS5	6:12	7.4	Bottom	3	1	28.66	8.07	29.41	79.0	5.15	7.6	6.6
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS5	6:10	7.4	Bottom	3	2	28.64	8.06	29.37	78.3	5.12	7.7	5.6
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS(Mf)6	6:01	1.0	Surface	1	1	29.37	8.11	21.67	93.2	6.28	2.8	5.5
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS(Mf)6	6:00	1.0	Surface	1	2	29.38	8.12	21.67	93.3	6.30	2.8	4.5
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS(Mf)6	6:01	2.4	Bottom	3	1	29.26	8.12	23.23	94.8	6.35	2.8	8.2
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS(Mf)6	6:00	2.4	Bottom	3	2	29.21	8.13	23.26	94.5	6.34	2.9	7.6
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS7	5:51	1.0	Surface	1	1	29.42	8.11	21.62	93.9	6.33	2.6	5.0
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS7	5:52	1.0	Surface	1	2	29.43	8.11	21.64	93.8	6.32	2.5	4.5
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS7	5:52	2.5	Bottom	3	1	29.21	8.12	23.21	93.6	6.27	3.0	5.9
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS7	5:51	2.5	Bottom	3	2	29.23	8.12	23.18	93.7	6.28	3.0	4.8
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS8	5:25	1.0	Surface	1	1	29.09	8.12	22.03	94.6	6.39	2.6	8.7
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS8	5:24	1.0	Surface	1	2	29.12	8.13	22.09	95.1	6.42	2.6	8.9
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS8	5:24	3.0	Bottom	3	1	28.86	8.11	26.32	93.5	6.20	2.2	9.4
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS8	5:25	3.0	Bottom	3	2	28.90	8.11	26.29	93.3	6.18	2.4	9.3
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS(Mf)9	5:44	1.0	Surface	1	1	29.37	8.12	21.74	93.2	6.29	2.8	7.4
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS(Mf)9	5:43	1.0	Surface	1	2	29.36	8.12	21.74	93.4	6.29	2.9	7.3
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS(Mf)9	5:43	2.7	Bottom	3	1	29.18	8.12	23.29	93.2	6.25	3.2	9.0
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS(Mf)9	5:44	2.7	Bottom	3	2	29.19	8.12	23.27	93.0	6.23	3.3	7.8
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS10(N)	5:09	1.0	Surface	1	1	29.41	8.29	21.26	83.3	5.66	6.5	11.0
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS10(N)	5:10	1.0	Surface	1	2	29.39	8.29	21.18	82.5	5.60	6.6	10.0
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS10(N)	5:09	5.4	Middle	2	1	29.28	8.26	23.09	80.7	5.44	6.7	11.5
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS10(N)	5:10	5.4	Middle	2	2	29.22	8.25	23.45	80.2	5.40	6.8	10.8
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS10(N)	5:08	9.8	Bottom	3	1	29.09	8.21	24.70	78.8	5.28	8.0	13.0
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	IS10(N)	5:09	9.8	Bottom	3	2	29.08	8.22	25.07	79.1	5.29	7.9	13.5
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR3(N)	6:20	1.0	Surface	1	1	29.43	8.12	21.51	94.0	6.33	2.9	6.0
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR3(N)	6:21	1.0	Surface	1	2	29.43	8.12	21.52	94.3	6.35	2.8	5.1

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	2018-07-27	Mid-Flood	Sunny	SR3(N)	6:21	2.9	Bottom	3	1	29.27	8.13	22.76	93.8	6.31	3.3	6.0
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR3(N)	6:20	2.9	Bottom	3	2	29.26	8.13	22.79	93.7	6.29	3.1	7.2
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR4(N)	5:33	1.0	Surface	1	1	29.34	8.11	21.87	92.5	6.23	3.1	7.3
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR4(N)	5:34	1.0	Surface	1	2	29.34	8.11	21.84	92.4	6.23	3.1	8.2
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR4(N)	5:33	3.0	Bottom	3	1	29.19	8.11	23.48	92.0	6.16	3.2	10.0
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR4(N)	5:32	3.0	Bottom	3	2	29.17	8.11	23.52	92.2	6.17	3.3	10.1
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR5(N)	5:21	1.0	Surface	1	1	29.47	8.31	21.04	84.8	5.76	7.1	11.7
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR5(N)	5:20	1.0	Surface	1	2	29.44	8.30	21.17	84.5	5.74	7.1	11.7
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR5(N)	5:21	4.1	Middle	2	1	29.27	8.27	23.08	81.6	5.50	7.3	12.9
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR5(N)	5:20	4.1	Middle	2	2	29.24	8.26	23.33	81.6	5.49	7.4	13.7
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR5(N)	5:20	7.2	Bottom	3	1	29.09	8.22	24.90	80.0	5.35	7.7	13.7
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR5(N)	5:19	7.2	Bottom	3	2	29.08	8.22	24.95	79.8	5.34	7.8	13.2
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR10A(N)	4:21	1.0	Surface	1	1	29.13	8.28	24.44	83.7	5.61	3.1	4.6
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR10A(N)	4:20	1.0	Surface	1	2	29.11	8.28	24.50	83.1	5.57	3.2	5.1
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR10A(N)	4:21	6.8	Middle	2	1	29.01	8.26	26.59	81.1	5.38	3.6	6.2
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR10A(N)	4:20	6.8	Middle	2	2	29.00	8.26	26.84	81.1	5.38	3.8	5.9
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR10A(N)	4:20	12.6	Bottom	3	1	28.85	8.24	28.98	80.5	5.28	5.0	8.1
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR10A(N)	4:21	12.6	Bottom	3	2	28.86	8.24	28.98	80.1	5.26	4.8	7.1
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR10B(N2)	4:11	1.0	Surface	1	1	29.15	8.27	24.35	84.9	5.69	3.2	7.6
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR10B(N2)	4:12	1.0	Surface	1	2	29.15	8.28	24.33	84.9	5.70	3.3	8.4
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR10B(N2)	4:12	4.0	Middle	2	1	29.02	8.26	26.58	81.7	5.43	3.8	9.1
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR10B(N2)	4:11	4.0	Middle	2	2	29.03	8.26	26.27	82.2	5.39	3.6	9.2
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR10B(N2)	4:11	7.0	Bottom	3	1	28.90	8.24	29.11	81.2	5.40	4.3	10.1
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	SR10B(N2)	4:12	7.0	Bottom	3	2	28.88	8.24	28.75	81.2	5.34	4.4	11.1
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	CS2(A)	6:08	1.0	Surface	1	1	29.28	8.31	22.13	78.2	5.30	4.3	4.4
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	CS2(A)	6:07	1.0	Surface	1	2	29.15	8.30	22.73	75.7	5.12	4.2	3.8
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	CS2(A)	6:07	4.0	Middle	2	1	28.86	8.25	26.64	73.1	4.87	5.7	4.0
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	CS2(A)	6:08	4.0	Middle	2	2	28.91	8.25	26.21	72.2	4.81	5.7	5.3
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	CS2(A)	6:06	7.0	Bottom	3	1	28.78	8.23	27.11	72.9	4.85	6.0	4.7
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	CS2(A)	6:07	7.0	Bottom	3	2	28.77	8.23	27.14	71.5	4.75	5.8	5.2
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	CS(Mf)5	4:56	1.0	Surface	1	1	29.22	8.12	21.66	87.8	5.94	2.9	7.3
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	CS(Mf)5	4:57	1.0	Surface	1	2	29.18	8.13	21.60	88.4	5.98	3.1	8.1
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	CS(Mf)5	4:56	6.2	Middle	2	1	28.83	8.11	29.23	80.7	5.35	4.1	8.9
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	CS(Mf)5	4:57	6.2	Middle	2	2	28.83	8.09	29.13	80.8	5.30	4.2	8.9
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	CS(Mf)5	4:55	11.4	Bottom	3	1	28.59	8.08	30.14	84.9	5.57	4.8	9.7
HKLR	HY/2011/03	2018-07-27	Mid-Flood	Sunny	CS(Mf)5	4:56	11.4	Bottom	3	2	28.56	8.08	30.17	85.6	5.58	5.1	8.7
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS5	13:11	1.0	Surface	1	1	30.48	8.15	23.05	99.6	6.58	5.8	9.3
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS5	13:10	1.0	Surface	1	2	30.57	8.17	22.98	98.8	6.52	5.8	8.4
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS5	13:11	4.2	Middle	2	1	30.36	8.14	23.24	99.0	6.54	5.8	9.2
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS5	13:10	4.2	Middle	2	2	30.42	8.17	23.15	97.0	6.41	5.8	10.2
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS5	13:10	7.4	Bottom	3	1	30.30	8.15	23.51	96.2	6.36	5.8	10.4
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS5	13:11	7.4	Bottom	3	2	30.42	8.13	23.33	98.6	6.52	5.9	9.8
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS(Mf)6	13:21	1.0	Surface	1	1	31.18	8.23	22.02	110.5	7.27	3.1	4.9
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS(Mf)6	13:22	1.0	Surface	1	2	31.14	8.21	22.09	112.8	7.41	3.2	4.9
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS(Mf)6	13:21	2.1	Bottom	3	1	31.11	8.24	22.29	103.5	6.80	3.2	5.6
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS(Mf)6	13:21	2.1	Bottom	3	2	30.78	8.18	22.82	110.4	7.25	3.2	5.1
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS7	13:29	1.0	Surface	1	1	30.95	8.16	22.19	105.2	6.93	5.9	6.6
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS7	13:30	1.0	Surface	1	2	30.70	8.12	22.76	104.4	6.88	5.8	6.6
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS7	13:29	2.1	Bottom	3	1	30.75	8.13	22.70	105.9	6.98	5.9	12.0
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS7	13:29	2.1	Bottom	3	2	30.59	8.13	23.05	101.6	6.70	5.8	12.4
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS8	13:54	1.0	Surface	1	1	30.77	8.20	22.16	106.6	7.05	6.1	8.1
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS8	13:54	1.0	Surface	1	2	30.66	8.19	22.29	107.7	7.13	5.9	7.4
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS8	13:54	2.9	Bottom	3	1	30.56	8.14	23.23	108.8	7.17	6.4	8.2
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS8	13:54	2.9	Bottom	3	2	30.57	8.15	23.16	106.2	7.00	6.4	7.3
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS(Mf)9	13:37	1.0	Surface	1	1	30.95	8.18	22.30	109.7	7.22	4.4	6.3
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS(Mf)9	13:37	1.0	Surface	1	2	30.93	8.19	22.26	107.6	7.09	4.3	7.2
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS(Mf)9	13:37	2.7	Bottom	3	1	30.85	8.14	22.61	109.5	7.21	4.5	8.3
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS(Mf)9	13:37	2.7	Bottom	3	2	30.72	8.18	22.67	106.6	7.03	4.5	7.2

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	2018-07-30	Mid-Ebb	Sunny	IS10(N)	13:56	1.0	Surface	1	1	30.72	8.27	19.25	93.7	6.30	4.7	3.8
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS10(N)	13:57	1.0	Surface	1	2	30.61	8.27	19.49	93.3	6.28	4.6	4.6
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS10(N)	13:56	5.2	Middle	2	1	30.11	8.24	20.61	85.7	5.77	5.5	4.1
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS10(N)	13:57	5.2	Middle	2	2	30.12	8.24	20.56	86.2	5.81	5.6	5.0
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS10(N)	13:55	9.4	Bottom	3	1	29.87	8.21	22.65	84.6	5.66	5.9	6.2
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	IS10(N)	13:57	9.4	Bottom	3	2	29.93	8.23	21.83	84.6	5.68	6.0	5.2
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR3(N)	13:02	1.0	Surface	1	1	31.24	8.20	22.08	113.2	7.43	4.6	8.2
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR3(N)	13:02	1.0	Surface	1	2	30.99	8.18	22.05	111.3	7.33	4.8	7.9
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR3(N)	13:02	2.4	Bottom	3	1	30.79	8.17	22.17	113.1	7.47	4.7	9.4
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR3(N)	13:02	2.4	Bottom	3	2	30.79	8.20	22.01	111.3	7.36	4.8	8.0
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR4(N)	13:48	1.0	Surface	1	1	30.62	8.09	22.01	96.4	6.38	8.4	9.8
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR4(N)	13:49	1.0	Surface	1	2	30.40	8.06	22.43	92.4	6.12	8.8	9.6
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR4(N)	13:48	2.6	Bottom	3	1	30.38	8.05	22.94	93.0	6.17	8.5	10.8
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR4(N)	13:48	2.6	Bottom	3	2	30.40	8.04	22.66	90.9	6.04	8.8	11.0
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR5(N)	13:42	1.0	Surface	1	1	30.53	8.27	19.41	89.1	6.00	4.8	4.9
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR5(N)	13:41	1.0	Surface	1	2	30.44	8.27	19.52	88.5	5.97	4.8	4.7
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR5(N)	13:41	4.0	Middle	2	1	30.12	8.25	20.48	84.0	5.66	5.0	5.8
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR5(N)	13:41	4.0	Middle	2	2	30.08	8.25	20.75	84.1	5.66	4.9	5.5
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR5(N)	13:40	7.0	Bottom	3	1	29.92	8.23	21.90	82.6	5.55	6.1	6.8
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR5(N)	13:41	7.0	Bottom	3	2	29.90	8.23	22.03	82.4	5.53	6.4	6.7
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR10A(N)	14:35	1.0	Surface	1	1	30.72	8.39	21.08	112.5	7.48	3.3	4.3
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR10A(N)	14:33	1.0	Surface	1	2	30.67	8.40	21.32	111.9	7.42	3.4	4.5
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR10A(N)	14:35	6.7	Middle	2	1	30.28	8.35	22.42	107.6	7.15	4.5	4.7
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR10A(N)	14:33	6.7	Middle	2	2	30.22	8.36	22.43	107.1	7.12	4.3	5.0
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR10A(N)	14:34	12.4	Bottom	3	1	30.10	8.34	23.22	101.4	6.74	5.1	5.5
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR10A(N)	14:33	12.4	Bottom	3	2	29.51	8.32	23.87	101.1	6.71	4.9	5.6
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR10B(N2)	14:52	1.0	Surface	1	1	30.39	8.34	21.86	101.1	6.74	4.1	3.1
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR10B(N2)	14:53	1.0	Surface	1	2	30.43	8.33	21.78	102.8	6.84	4.2	3.2
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR10B(N2)	14:51	3.8	Middle	2	1	30.20	8.33	22.46	99.9	6.66	4.7	3.6
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR10B(N2)	14:52	3.8	Middle	2	2	30.14	8.31	22.66	100.4	6.69	4.6	2.6
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR10B(N2)	14:52	6.6	Bottom	3	1	29.97	8.31	23.48	99.0	6.58	4.9	4.0
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	SR10B(N2)	14:51	6.6	Bottom	3	2	29.93	8.32	23.65	99.5	6.62	5.0	3.9
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	CS2(A)	12:56	1.0	Surface	1	1	30.12	8.31	19.63	81.0	5.48	3.6	3.0
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	CS2(A)	12:58	1.0	Surface	1	2	30.15	8.31	19.65	84.7	5.73	3.7	2.6
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	CS2(A)	12:56	3.8	Middle	2	1	29.31	8.23	26.95	72.0	4.75	4.5	3.8
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	CS2(A)	12:57	3.8	Middle	2	2	29.37	8.23	26.54	72.1	4.76	4.6	3.2
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	CS2(A)	12:56	6.6	Bottom	3	1	29.09	8.20	27.46	69.6	4.59	5.5	3.9
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	CS2(A)	12:57	6.6	Bottom	3	2	29.09	8.19	27.48	70.8	4.67	5.4	4.0
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	CS(Mf)5	14:25	1.0	Surface	1	1	30.33	8.13	23.83	84.9	5.54	6.8	6.8
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	CS(Mf)5	14:24	1.0	Surface	1	2	30.51	8.15	23.49	91.2	6.01	6.7	7.0
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	CS(Mf)5	14:24	6.1	Middle	2	1	29.52	8.09	26.03	80.0	5.20	11.2	7.3
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	CS(Mf)5	14:25	6.1	Middle	2	2	29.69	8.05	26.52	84.0	5.51	11.3	8.5
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	CS(Mf)5	14:24	11.1	Bottom	3	1	29.04	8.07	30.31	77.4	5.11	11.8	9.5
HKLR	HY/2011/03	2018-07-30	Mid-Ebb	Sunny	CS(Mf)5	14:25	11.1	Bottom	3	2	29.16	8.03	30.49	79.2	5.20	11.5	9.2
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS5	7:56	1.0	Surface	1	1	30.25	8.11	23.58	96.9	6.40	5.6	6.5
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS5	7:56	1.0	Surface	1	2	30.24	8.11	23.55	94.1	6.23	5.5	6.7
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS5	7:56	4.3	Middle	2	1	30.25	8.10	23.70	95.3	6.30	5.8	7.1
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS5	7:56	4.3	Middle	2	2	30.25	8.11	23.72	94.0	6.20	6.0	7.3
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS5	7:56	7.6	Bottom	3	1	30.25	8.10	23.89	93.4	6.17	6.4	7.6
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS5	7:55	7.6	Bottom	3	2	30.25	8.10	23.75	95.0	6.28	6.0	7.0
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS(Mf)6	7:49	1.0	Surface	1	1	30.19	8.09	23.43	97.4	6.45	10.5	9.9
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS(Mf)6	7:49	1.0	Surface	1	2	30.19	8.10	23.41	95.2	6.31	10.5	9.8
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS(Mf)6	7:48	2.3	Bottom	3	1	30.16	8.10	23.40	100.8	6.68	10.5	9.6
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS(Mf)6	7:49	2.3	Bottom	3	2	30.20	8.09	23.42	96.0	6.36	10.5	10.2
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS7	7:41	1.0	Surface	1	1	30.20	8.09	23.22	92.4	6.13	4.8	7.5
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS7	7:41	1.0	Surface	1	2	30.19	8.08	23.19	94.7	6.28	5.1	7.1
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS7	7:41	2.2	Bottom	3	1	30.26	8.08	23.53	97.1	6.43	4.9	7.3
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS7	7:41	2.2	Bottom	3	2	30.27	8.09	23.47	93.9	6.22	4.8	7.6

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	2018-07-30	Mid-Flood	Sunny	IS8	7:14	1.0	Surface	1	1	30.06	8.03	21.90	89.4	5.98	6.9	5.8
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS8	7:14	1.0	Surface	1	2	30.10	8.03	22.03	86.5	5.78	6.8	6.0
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS8	7:14	3.2	Bottom	3	1	30.16	8.01	23.89	88.5	5.85	7.1	6.1
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS8	7:14	3.2	Bottom	3	2	30.16	8.01	24.12	94.5	6.24	7.2	6.6
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS(Mf)9	7:34	1.0	Surface	1	1	30.09	8.08	22.21	101.5	6.76	4.5	7.2
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS(Mf)9	7:33	1.0	Surface	1	2	30.12	8.08	21.94	98.9	6.61	4.6	7.7
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS(Mf)9	7:33	2.8	Bottom	3	1	30.04	8.11	23.02	96.1	6.34	4.6	8.1
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS(Mf)9	7:33	2.8	Bottom	3	2	30.11	8.07	24.58	93.3	6.23	4.5	7.6
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS10(N)	7:31	1.0	Surface	1	1	30.18	8.20	18.70	85.2	5.79	4.4	3.4
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS10(N)	7:32	1.0	Surface	1	2	30.18	8.19	18.70	84.7	5.76	4.5	3.9
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS10(N)	7:32	5.5	Middle	2	1	30.02	8.23	19.32	84.4	5.74	4.8	5.0
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS10(N)	7:31	5.5	Middle	2	2	30.04	8.23	19.66	84.4	5.72	4.9	4.9
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS10(N)	7:31	9.9	Bottom	3	1	29.89	8.22	22.36	83.9	5.62	5.5	4.9
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	IS10(N)	7:32	9.9	Bottom	3	2	29.95	8.21	21.89	84.0	5.64	5.6	5.3
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR3(N)	8:04	1.0	Surface	1	1	30.28	8.09	23.54	98.7	6.53	8.5	9.7
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR3(N)	8:04	1.0	Surface	1	2	30.31	8.10	23.57	94.0	6.21	8.2	9.3
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR3(N)	8:04	2.5	Bottom	3	1	30.29	8.09	23.57	93.2	6.16	8.0	10.6
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR3(N)	8:03	2.5	Bottom	3	2	30.25	8.09	23.56	95.5	6.32	8.1	11.1
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR4(N)	7:22	1.0	Surface	1	1	30.06	8.04	21.98	89.7	6.00	4.9	6.5
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR4(N)	7:21	1.0	Surface	1	2	30.05	8.04	21.97	95.6	6.40	5.0	5.5
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR4(N)	7:21	2.8	Bottom	3	1	30.03	8.03	22.11	91.8	6.15	5.6	6.4
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR4(N)	7:21	2.8	Bottom	3	2	30.05	8.04	22.12	89.0	5.96	5.5	7.3
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR5(N)	7:43	1.0	Surface	1	1	30.12	8.20	18.91	85.3	5.80	3.4	5.8
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR5(N)	7:42	1.0	Surface	1	2	30.15	8.19	18.67	85.1	5.79	3.5	5.5
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR5(N)	7:43	4.1	Middle	2	1	30.04	8.21	19.50	84.3	5.72	3.6	5.7
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR5(N)	7:42	4.1	Middle	2	2	30.00	8.23	19.34	84.4	5.74	3.7	6.1
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR5(N)	7:42	7.2	Bottom	3	1	29.95	8.19	22.32	84.3	5.64	4.6	11.2
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR5(N)	7:42	7.2	Bottom	3	2	29.92	8.22	21.96	84.4	5.66	4.5	10.3
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR10A(N)	6:44	1.0	Surface	1	1	29.96	8.17	20.21	87.0	5.89	2.4	3.6
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR10A(N)	6:43	1.0	Surface	1	2	29.96	8.17	20.12	86.7	5.87	2.4	4.1
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR10A(N)	6:43	6.9	Middle	2	1	29.97	8.18	20.98	84.5	5.70	2.7	3.8
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR10A(N)	6:42	6.9	Middle	2	2	29.96	8.18	21.00	84.6	5.70	2.6	4.3
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR10A(N)	6:43	12.7	Bottom	3	1	29.60	8.16	24.42	84.0	5.59	3.1	5.0
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR10A(N)	6:42	12.7	Bottom	3	2	29.49	8.16	25.03	84.2	5.60	3.0	5.2
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR10B(N2)	6:27	1.0	Surface	1	1	29.97	8.12	19.97	86.6	5.87	2.2	3.3
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR10B(N2)	6:28	1.0	Surface	1	2	29.95	8.14	20.11	86.8	5.88	2.3	2.6
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR10B(N2)	6:28	4.1	Middle	2	1	29.93	8.15	21.11	83.6	5.64	2.3	3.4
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR10B(N2)	6:27	4.1	Middle	2	2	29.94	8.13	20.65	84.4	5.70	2.2	3.2
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR10B(N2)	6:28	7.1	Bottom	3	1	29.62	8.13	24.20	83.0	5.53	2.7	3.5
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	SR10B(N2)	6:27	7.1	Bottom	3	2	29.63	8.10	24.04	84.1	5.60	2.5	3.7
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	CS2(A)	8:29	1.0	Surface	1	1	29.57	8.22	18.28	80.3	5.53	4.4	3.0
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	CS2(A)	8:28	1.0	Surface	1	2	29.49	8.22	18.26	80.6	5.56	4.5	3.3
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	CS2(A)	8:29	4.0	Middle	2	1	29.80	8.24	20.54	75.6	5.13	4.8	3.0
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	CS2(A)	8:28	4.0	Middle	2	2	29.55	8.22	23.44	75.5	5.00	4.7	3.6
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	CS2(A)	8:28	7.0	Bottom	3	1	29.20	8.22	26.43	72.6	4.86	5.8	6.2
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	CS2(A)	8:29	7.0	Bottom	3	2	29.24	8.20	26.41	72.8	4.88	6.0	5.0
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	CS(Mf)5	6:49	1.0	Surface	1	1	30.15	7.96	21.41	82.8	5.46	6.0	5.7
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	CS(Mf)5	6:50	1.0	Surface	1	2	30.06	7.98	21.45	81.2	5.42	5.9	6.0
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	CS(Mf)5	6:50	6.1	Middle	2	1	29.79	7.99	24.91	80.7	5.24	7.5	6.2
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	CS(Mf)5	6:49	6.1	Middle	2	2	29.71	7.97	24.86	81.4	5.37	7.6	6.3
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	CS(Mf)5	6:49	11.1	Bottom	3	1	29.45	7.97	30.15	79.1	5.23	7.3	6.2
HKLR	HY/2011/03	2018-07-30	Mid-Flood	Sunny	CS(Mf)5	6:49	11.1	Bottom	3	2	29.16	7.94	30.47	78.6	5.21	7.5	6.9
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	ISS	14:12	1.0	Surface	1	1	30.38	8.09	20.51	98.6	6.58	8.2	9.0
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	ISS	14:13	1.0	Surface	1	2	30.37	8.09	20.64	97.4	6.53	8.2	9.6
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	ISS	14:13	4.2	Middle	2	1	30.37	8.06	21.22	96.9	6.46	8.4	9.3
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	ISS	14:12	4.2	Middle	2	2	30.36	8.05	21.44	96.1	6.45	8.3	9.6
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	ISS	14:12	7.3	Bottom	3	1	30.33	8.04	21.75	94.8	6.33	8.5	10.5
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	ISS	14:12	7.3	Bottom	3	2	30.33	8.03	21.83	95.3	6.37	8.5	9.3

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	2018-08-01	Mid-Ebb	Sunny	IS(Mf)6	14:38	1.0	Surface	1	1	31.62	8.27	21.30	118.8	7.81	4.1	4.7
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS(Mf)6	14:38	1.0	Surface	1	2	31.50	8.26	21.47	120.7	7.91	4.0	5.8
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS(Mf)6	14:37	2.2	Bottom	3	1	31.16	8.22	21.59	109.6	7.22	4.4	5.3
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS(Mf)6	14:38	2.2	Bottom	3	2	31.28	8.22	21.60	116.1	7.60	4.4	6.4
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS7	14:46	1.0	Surface	1	1	31.21	8.23	20.93	117.1	7.74	6.2	4.8
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS7	14:45	1.0	Surface	1	2	31.13	8.24	21.09	118.0	7.79	6.4	4.8
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS7	14:45	2.2	Bottom	3	1	30.64	8.12	22.01	108.3	7.18	6.4	5.5
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS7	14:46	2.2	Bottom	3	2	30.82	8.15	22.15	115.4	7.63	6.2	5.3
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS8	15:09	1.0	Surface	1	1	30.86	8.25	21.36	119.1	7.90	6.8	7.6
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS8	15:10	1.0	Surface	1	2	30.78	8.24	21.50	120.5	7.99	6.7	6.5
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS8	15:09	2.7	Bottom	3	1	30.94	8.24	21.21	110.9	7.35	6.8	8.6
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS8	15:10	2.7	Bottom	3	2	30.75	8.21	21.66	116.5	7.72	6.9	7.6
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS(Mf)9	14:53	1.0	Surface	1	1	30.84	8.21	21.25	112.3	7.45	5.4	4.5
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS(Mf)9	14:53	1.0	Surface	1	2	30.74	8.19	21.30	110.5	7.34	5.4	4.9
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS(Mf)9	14:53	2.8	Bottom	3	1	30.63	8.11	22.04	113.5	7.52	5.8	5.0
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS(Mf)9	14:53	2.8	Bottom	3	2	30.60	8.09	22.24	111.8	7.41	5.8	5.3
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS10(N)	14:56	1.0	Surface	1	1	30.76	8.26	18.25	97.4	6.58	6.1	3.5
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS10(N)	14:55	1.0	Surface	1	2	30.71	8.26	18.28	94.8	6.41	6.3	3.9
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS10(N)	14:56	5.2	Middle	2	1	30.52	8.23	18.74	88.2	5.96	7.2	4.2
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS10(N)	14:55	5.2	Middle	2	2	30.31	8.21	20.07	88.0	5.93	7.5	3.4
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS10(N)	14:56	9.3	Bottom	3	1	29.87	8.15	22.00	85.6	5.75	7.9	4.1
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	IS10(N)	14:55	9.3	Bottom	3	2	29.87	8.15	21.98	85.5	5.74	7.8	5.3
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR3(N)	14:05	1.0	Surface	1	1	30.67	8.13	20.23	104.9	7.02	6.7	7.6
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR3(N)	14:06	1.0	Surface	1	2	30.66	8.12	20.34	105.3	7.04	6.5	8.8
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR3(N)	14:05	2.4	Bottom	3	1	30.72	8.15	20.18	103.5	6.92	6.8	9.6
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR3(N)	14:05	2.4	Bottom	3	2	30.68	8.13	20.38	105.0	7.02	6.9	10.4
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR4(N)	15:04	1.0	Surface	1	1	31.03	8.16	20.64	110.7	7.35	6.3	8.9
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR4(N)	15:04	1.0	Surface	1	2	31.43	8.20	20.28	112.3	7.41	6.2	8.9
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR4(N)	15:04	2.7	Bottom	3	1	30.87	8.11	21.21	104.6	6.94	6.8	9.6
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR4(N)	15:04	2.7	Bottom	3	2	31.17	8.13	21.25	108.6	7.17	6.8	10.1
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR5(N)	14:48	1.0	Surface	1	1	30.69	8.26	18.34	92.7	6.26	8.4	3.2
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR5(N)	14:47	1.0	Surface	1	2	30.63	8.27	18.49	91.0	6.15	8.3	4.1
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR5(N)	14:47	4.0	Middle	2	1	30.39	8.24	19.07	84.7	5.73	8.9	5.1
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR5(N)	14:48	4.0	Middle	2	2	30.43	8.23	18.74	85.1	5.76	8.4	4.5
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR5(N)	14:48	6.9	Bottom	3	1	29.93	8.17	21.38	82.6	5.56	9.2	5.5
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR5(N)	14:47	6.9	Bottom	3	2	29.93	8.19	21.36	81.7	5.50	9.1	5.7
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR10A(N)	15:38	1.0	Surface	1	1	30.60	8.38	20.78	114.4	7.64	3.3	7.2
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR10A(N)	15:39	1.0	Surface	1	2	30.81	8.40	20.21	116.3	7.76	3.2	6.6
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR10A(N)	15:38	6.7	Middle	2	1	30.55	8.37	21.01	113.2	7.56	3.7	7.2
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR10A(N)	15:39	6.7	Middle	2	2	30.62	8.38	20.75	113.6	7.58	3.6	8.4
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR10A(N)	15:37	12.4	Bottom	3	1	30.51	8.38	21.11	111.6	7.45	4.1	11.5
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR10A(N)	15:38	12.4	Bottom	3	2	30.60	8.37	20.90	112.3	7.50	4.0	11.8
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR10B(N2)	15:50	1.0	Surface	1	1	30.92	8.41	19.95	119.7	7.99	3.2	7.2
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR10B(N2)	15:49	1.0	Surface	1	2	30.93	8.41	19.89	118.5	7.91	3.3	6.0
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR10B(N2)	15:49	3.8	Middle	2	1	30.67	8.38	20.65	116.9	7.80	3.6	7.2
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR10B(N2)	15:49	3.8	Middle	2	2	30.71	8.38	20.51	117.2	7.82	3.4	7.3
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR10B(N2)	15:49	6.5	Bottom	3	1	30.67	8.37	20.69	115.8	7.73	3.7	11.0
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	SR10B(N2)	15:48	6.5	Bottom	3	2	30.61	8.37	20.83	115.3	7.70	3.8	10.3
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	CS2(A)	14:00	1.0	Surface	1	1	29.97	8.30	17.71	83.9	5.76	5.8	6.4
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	CS2(A)	14:01	1.0	Surface	1	2	30.10	8.30	17.62	85.1	5.83	5.7	5.4
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	CS2(A)	14:00	3.8	Middle	2	1	29.60	8.22	25.25	79.5	5.25	5.9	6.5
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	CS2(A)	14:01	3.8	Middle	2	2	29.59	8.22	25.11	79.8	5.29	5.8	5.9
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	CS2(A)	13:59	6.5	Bottom	3	1	29.09	8.16	27.44	78.9	5.22	6.3	6.7
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	CS2(A)	14:00	6.5	Bottom	3	2	29.07	8.16	27.74	77.4	5.10	6.5	6.5
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	CS(Mf)5	15:32	1.0	Surface	1	1	30.51	8.15	21.93	87.6	5.82	7.3	8.5
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	CS(Mf)5	15:31	1.0	Surface	1	2	30.50	8.15	21.80	88.3	5.87	7.6	9.5
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	CS(Mf)5	15:31	6.0	Middle	2	1	28.94	8.03	25.52	83.3	5.46	10.1	9.3
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	CS(Mf)5	15:32	6.0	Middle	2	2	29.54	8.05	24.62	75.6	5.03	10.4	8.3

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	2018-08-01	Mid-Ebb	Sunny	CS(Mf)5	15:32	11.0	Bottom	3	1	28.46	8.00	30.63	76.5	5.01	10.5	9.7
HKLR	HY/2011/03	2018-08-01	Mid-Ebb	Sunny	CS(Mf)5	15:31	11.0	Bottom	3	2	28.56	8.01	30.27	78.1	5.22	10.2	10.4
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS5	9:26	1.0	Surface	1	1	30.34	8.12	22.61	98.1	6.50	5.4	6.9
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS5	9:25	1.0	Surface	1	2	30.35	8.11	22.53	98.6	6.54	5.3	7.3
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS5	9:26	4.5	Middle	2	1	30.34	8.11	22.85	97.8	6.50	5.8	8.5
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS5	9:25	4.5	Middle	2	2	30.34	8.11	22.72	98.5	6.53	5.9	8.1
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS5	9:25	7.9	Bottom	3	1	30.34	8.09	23.03	97.7	6.48	5.8	8.8
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS5	9:25	7.9	Bottom	3	2	30.34	8.10	22.97	97.6	6.47	5.9	8.1
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS(Mf)6	9:17	1.0	Surface	1	1	30.34	8.12	22.08	99.7	6.64	4.8	3.6
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS(Mf)6	9:18	1.0	Surface	1	2	30.33	8.12	22.10	100.5	6.69	4.8	2.7
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS(Mf)6	9:17	2.3	Bottom	3	1	30.36	8.10	22.74	100.8	6.68	4.9	3.8
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS(Mf)6	9:17	2.3	Bottom	3	2	30.34	8.12	22.18	100.1	6.66	4.7	2.9
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS7	9:10	1.0	Surface	1	1	30.37	8.14	22.04	100.7	6.71	3.5	3.6
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS7	9:10	1.0	Surface	1	2	30.35	8.13	22.09	100.6	6.69	3.4	4.4
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS7	9:10	2.3	Bottom	3	1	30.34	8.12	22.22	101.2	6.73	3.4	5.4
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS7	9:10	2.3	Bottom	3	2	30.36	8.13	22.25	100.8	6.70	3.5	5.2
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS8	8:43	1.0	Surface	1	1	30.29	8.05	20.21	92.2	6.21	7.6	6.0
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS8	8:44	1.0	Surface	1	2	30.33	8.05	20.22	90.2	6.07	7.3	6.9
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS8	8:43	3.2	Bottom	3	1	30.39	8.04	22.34	94.8	6.30	7.6	7.0
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS8	8:44	3.2	Bottom	3	2	30.40	8.04	22.51	91.3	6.06	7.8	6.8
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS(Mf)9	9:02	1.0	Surface	1	1	30.30	8.09	21.67	97.7	6.53	5.1	7.9
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS(Mf)9	9:02	1.0	Surface	1	2	30.29	8.09	21.66	98.6	6.58	5.5	7.0
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS(Mf)9	9:02	2.8	Bottom	3	1	30.31	8.10	22.17	99.3	6.61	5.5	8.3
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS(Mf)9	9:02	2.8	Bottom	3	2	30.31	8.10	22.02	98.1	6.54	5.3	9.2
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS10(N)	9:02	1.0	Surface	1	1	30.11	8.27	19.93	85.0	5.75	6.3	8.4
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS10(N)	9:03	1.0	Surface	1	2	30.10	8.26	19.79	85.0	5.76	6.5	9.1
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS10(N)	9:02	5.3	Middle	2	1	30.03	8.25	20.55	83.0	5.60	6.9	9.1
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS10(N)	9:03	5.3	Middle	2	2	30.05	8.24	20.97	83.3	5.61	6.8	8.7
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS10(N)	9:03	9.6	Bottom	3	1	29.80	8.22	22.05	82.0	5.51	7.1	8.8
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	IS10(N)	9:02	9.6	Bottom	3	2	29.84	8.23	21.88	82.0	5.51	7.2	9.4
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR3(N)	9:33	1.0	Surface	1	1	30.45	8.10	22.74	94.4	6.25	7.2	9.2
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR3(N)	9:34	1.0	Surface	1	2	30.45	8.10	22.73	93.9	6.22	7.1	9.4
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR3(N)	9:34	2.5	Bottom	3	1	30.40	8.09	22.82	94.1	6.23	7.6	11.2
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR3(N)	9:33	2.5	Bottom	3	2	30.39	8.09	22.83	94.7	6.28	7.5	12.1
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR4(N)	8:52	1.0	Surface	1	1	30.26	8.04	20.47	91.9	6.18	6.8	9.7
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR4(N)	8:51	1.0	Surface	1	2	30.26	8.04	20.45	94.2	6.34	6.8	8.9
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR4(N)	8:51	2.8	Bottom	3	1	30.25	8.03	20.72	92.7	6.23	6.8	10.1
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR4(N)	8:51	2.8	Bottom	3	2	30.24	8.03	20.76	97.0	6.51	6.8	9.3
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR5(N)	9:16	1.0	Surface	1	1	30.15	8.27	19.56	87.7	5.94	5.2	10.2
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR5(N)	9:17	1.0	Surface	1	2	30.15	8.26	19.57	87.7	5.94	5.3	10.1
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR5(N)	9:15	4.1	Middle	2	1	30.09	8.25	20.04	84.3	5.70	6.5	10.4
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR5(N)	9:16	4.1	Middle	2	2	30.10	8.25	19.94	84.8	5.73	6.4	10.9
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR5(N)	9:16	7.2	Bottom	3	1	29.85	8.22	21.76	82.7	5.56	6.6	12.1
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR5(N)	9:15	7.2	Bottom	3	2	29.85	8.22	21.80	82.7	5.56	6.8	11.6
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR10A(N)	8:14	1.0	Surface	1	1	30.08	8.24	19.84	84.6	5.73	3.0	4.1
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR10A(N)	8:13	1.0	Surface	1	2	30.06	8.24	19.67	84.3	5.71	3.1	4.2
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR10A(N)	8:14	6.8	Middle	2	1	29.82	8.23	22.36	82.0	5.50	3.6	4.2
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR10A(N)	8:13	6.8	Middle	2	2	29.86	8.23	22.05	82.6	5.54	3.8	4.3
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR10A(N)	8:13	12.5	Bottom	3	1	29.65	8.22	23.26	80.7	5.40	4.5	5.1
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR10A(N)	8:14	12.5	Bottom	3	2	29.58	8.21	23.79	81.2	5.42	4.5	4.7
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR10B(N2)	7:58	1.0	Surface	1	1	30.08	8.23	19.49	86.2	5.85	2.4	2.7
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR10B(N2)	7:57	1.0	Surface	1	2	30.07	8.23	19.73	86.1	5.83	2.6	2.1
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR10B(N2)	7:57	4.0	Middle	2	1	30.05	8.22	21.42	85.3	5.73	3.4	3.3
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR10B(N2)	7:58	4.0	Middle	2	2	30.02	8.23	21.01	84.4	5.68	3.2	4.1
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR10B(N2)	7:58	7.0	Bottom	3	1	29.73	8.21	23.18	83.7	5.60	3.6	6.2
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	SR10B(N2)	7:57	7.0	Bottom	3	2	29.77	8.20	22.91	83.6	5.60	3.5	4.9
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	CS2(A)	10:07	1.0	Surface	1	1	29.72	8.26	17.10	83.6	5.78	5.5	5.0
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	CS2(A)	10:07	1.0	Surface	1	2	29.71	8.23	17.34	83.8	5.79	5.6	6.2

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	2018-08-01	Mid-Flood	Sunny	CS2(A)	10:07	3.9	Middle	2	1	29.77	8.25	18.78	82.6	5.65	5.6	6.0
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	CS2(A)	10:06	3.9	Middle	2	2	29.76	8.28	18.65	82.0	5.59	5.7	5.3
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	CS2(A)	10:07	6.8	Bottom	3	1	29.80	8.25	22.67	81.9	5.48	5.9	5.9
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	CS2(A)	10:06	6.8	Bottom	3	2	29.69	8.27	23.34	81.7	5.46	6.0	6.3
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	CS(Mf)5	8:19	1.0	Surface	1	1	30.24	8.01	19.59	83.1	5.62	5.9	4.6
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	CS(Mf)5	8:18	1.0	Surface	1	2	30.25	8.01	19.61	84.2	5.69	5.9	5.9
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	CS(Mf)5	8:18	6.2	Middle	2	1	29.86	8.01	24.08	83.1	5.46	5.8	4.7
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	CS(Mf)5	8:19	6.2	Middle	2	2	29.71	8.02	24.31	81.1	5.32	5.8	6.1
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	CS(Mf)5	8:19	11.4	Bottom	3	1	29.19	7.99	28.31	78.9	5.24	5.8	5.8
HKLR	HY/2011/03	2018-08-01	Mid-Flood	Sunny	CS(Mf)5	8:18	11.4	Bottom	3	2	29.15	7.98	28.03	80.3	5.33	5.8	6.6
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS5	15:30	1.0	Surface	1	1	30.51	8.12	21.31	95.8	6.39	6.8	6.7
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS5	15:29	1.0	Surface	1	2	30.50	8.11	21.24	94.6	6.28	6.7	6.9
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS5	15:29	4.2	Middle	2	1	30.43	8.07	22.26	94.3	6.21	6.9	8.3
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS5	15:29	4.2	Middle	2	2	30.36	8.06	22.07	94.2	6.25	6.8	8.4
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS5	15:29	7.3	Bottom	3	1	30.02	7.98	24.66	88.4	5.88	6.8	9.3
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS5	15:29	7.3	Bottom	3	2	30.17	8.00	24.60	90.3	6.00	6.9	9.8
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS(Mf)6	15:36	1.0	Surface	1	1	30.58	8.13	22.48	105.2	6.96	5.5	10.8
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS(Mf)6	15:36	1.0	Surface	1	2	30.54	8.13	22.56	103.6	6.86	5.6	10.5
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS(Mf)6	15:36	2.2	Bottom	3	1	30.55	8.13	22.59	104.3	6.90	5.5	11.8
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS(Mf)6	15:36	2.2	Bottom	3	2	30.48	8.13	22.74	103.3	6.84	5.5	11.4
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS7	15:43	1.0	Surface	1	1	30.55	8.20	22.60	112.7	7.46	5.4	10.7
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS7	15:43	1.0	Surface	1	2	30.43	8.21	22.66	111.5	7.38	5.6	10.5
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS7	15:42	2.1	Bottom	3	1	30.44	8.15	22.64	104.5	6.93	5.7	11.6
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS7	15:43	2.1	Bottom	3	2	30.52	8.18	22.64	110.2	7.30	5.5	12.1
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS8	16:06	1.0	Surface	1	1	30.66	8.24	22.18	112.4	7.44	6.1	8.5
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS8	16:06	1.0	Surface	1	2	30.70	8.24	22.16	114.1	7.55	5.8	9.0
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS8	16:06	2.8	Bottom	3	1	30.51	8.19	22.40	106.7	7.07	5.9	9.4
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS8	16:06	2.8	Bottom	3	2	30.69	8.22	22.25	108.9	7.21	5.9	10.3
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS(Mf)9	15:50	1.0	Surface	1	1	30.55	8.20	22.17	112.1	7.44	4.8	9.6
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS(Mf)9	15:50	1.0	Surface	1	2	30.56	8.21	22.13	111.5	7.40	4.9	9.2
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS(Mf)9	15:50	2.6	Bottom	3	1	30.49	8.20	22.09	106.7	7.09	4.9	10.0
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS(Mf)9	15:50	2.6	Bottom	3	2	30.52	8.19	22.17	110.1	7.30	4.9	9.0
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS10(N)	16:14	1.0	Surface	1	1	30.33	8.38	18.58	99.1	6.73	4.7	3.6
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS10(N)	16:12	1.0	Surface	1	2	30.33	8.39	18.58	98.9	6.72	4.6	3.3
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS10(N)	16:12	5.2	Middle	2	1	30.14	8.34	19.14	90.4	6.13	4.9	4.0
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS10(N)	16:13	5.2	Middle	2	2	30.07	8.32	19.34	88.8	6.03	4.8	3.6
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS10(N)	16:12	9.3	Bottom	3	1	29.52	8.25	21.99	85.4	5.77	5.0	4.1
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	IS10(N)	16:13	9.3	Bottom	3	2	29.53	8.25	21.95	84.9	5.74	4.9	4.2
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR3(N)	15:22	1.0	Surface	1	1	30.58	8.13	20.76	105.1	7.02	5.1	6.3
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR3(N)	15:21	1.0	Surface	1	2	30.58	8.13	20.00	104.1	6.98	5.2	7.5
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR3(N)	15:21	2.3	Bottom	3	1	30.61	8.13	20.89	104.3	6.96	5.2	7.8
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR3(N)	15:21	2.3	Bottom	3	2	30.63	8.14	20.57	103.1	6.89	5.3	7.2
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR4(N)	16:00	1.0	Surface	1	1	30.50	8.13	22.07	102.2	6.78	7.2	9.3
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR4(N)	16:01	1.0	Surface	1	2	30.56	8.14	22.11	100.8	6.69	7.3	8.8
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR4(N)	16:00	2.6	Bottom	3	1	30.53	8.12	22.21	100.4	6.66	7.1	9.7
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR4(N)	16:00	2.6	Bottom	3	2	30.46	8.10	22.27	100.0	6.64	7.3	10.1
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR5(N)	16:04	1.0	Surface	1	1	30.28	8.39	18.66	96.9	6.58	4.2	4.2
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR5(N)	16:03	1.0	Surface	1	2	30.30	8.40	18.65	97.4	6.61	4.1	3.5
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR5(N)	16:03	3.9	Middle	2	1	30.11	8.35	19.11	87.7	5.96	4.2	4.5
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR5(N)	16:04	3.9	Middle	2	2	30.12	8.34	19.10	88.1	5.99	4.3	5.2
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR5(N)	16:03	6.8	Bottom	3	1	29.75	8.30	21.07	83.4	5.64	5.2	5.2
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR5(N)	16:03	6.8	Bottom	3	2	29.51	8.26	22.06	84.0	5.67	5.3	6.0
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR10A(N)	16:56	1.0	Surface	1	1	30.18	8.40	19.68	104.4	7.06	3.3	4.9
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR10A(N)	16:57	1.0	Surface	1	2	30.17	8.40	19.73	103.6	7.01	3.2	4.4
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR10A(N)	16:55	6.7	Middle	2	1	30.01	8.38	20.39	100.6	6.80	3.4	5.5
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR10A(N)	16:57	6.7	Middle	2	2	30.02	8.37	20.43	100.5	6.79	3.2	5.2
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR10A(N)	16:55	12.3	Bottom	3	1	29.92	8.37	20.85	100.5	6.78	4.3	5.7
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR10A(N)	16:56	12.3	Bottom	3	2	29.93	8.35	20.78	99.7	6.73	4.2	5.8

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	2018-08-03	Mid-Ebb	Sunny	SR10B(N2)	17:05	1.0	Surface	1	1	30.17	8.39	19.72	105.1	7.11	3.1	5.7
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR10B(N2)	17:04	1.0	Surface	1	2	30.15	8.39	19.79	104.2	7.05	3.2	6.6
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR10B(N2)	17:04	3.7	Middle	2	1	30.06	8.37	20.17	102.5	6.93	3.5	6.7
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR10B(N2)	17:05	3.7	Middle	2	2	30.08	8.37	20.14	103.9	7.02	3.4	6.2
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR10B(N2)	17:05	6.4	Bottom	3	1	30.10	8.38	20.07	102.0	6.90	3.5	8.1
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	SR10B(N2)	17:03	6.4	Bottom	3	2	30.03	8.36	20.38	101.6	6.87	3.7	8.3
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	CS2(A)	15:16	1.0	Surface	1	1	30.00	8.35	16.93	87.3	5.93	7.2	6.8
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	CS2(A)	15:17	1.0	Surface	1	2	29.92	8.34	17.09	87.6	5.96	7.3	6.8
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	CS2(A)	15:17	3.8	Middle	2	1	28.94	8.17	26.11	81.4	5.35	7.4	7.2
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	CS2(A)	15:16	3.8	Middle	2	2	28.92	8.18	26.37	81.2	5.33	7.3	7.6
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	CS2(A)	15:17	6.5	Bottom	3	1	28.74	8.16	27.51	79.7	5.18	7.9	7.6
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	CS2(A)	15:15	6.5	Bottom	3	2	28.77	8.18	27.36	80.0	5.20	7.8	7.9
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	CS(Mf)5	16:30	1.0	Surface	1	1	29.99	8.11	22.69	85.7	5.72	4.0	5.3
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	CS(Mf)5	16:31	1.0	Surface	1	2	29.93	8.10	22.72	86.8	5.70	4.1	6.3
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	CS(Mf)5	16:30	5.9	Middle	2	1	29.29	8.02	24.98	84.1	5.62	4.1	7.3
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	CS(Mf)5	16:30	5.9	Middle	2	2	29.57	8.05	24.61	77.0	5.12	4.1	7.5
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	CS(Mf)5	16:30	10.8	Bottom	3	1	27.87	7.98	31.21	76.0	5.01	4.2	7.7
HKLR	HY/2011/03	2018-08-03	Mid-Ebb	Sunny	CS(Mf)5	16:30	10.8	Bottom	3	2	28.11	8.01	31.27	79.3	5.29	4.1	8.2
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS5	11:23	1.0	Surface	1	1	30.43	8.12	22.63	93.9	6.23	7.0	6.3
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS5	11:23	1.0	Surface	1	2	30.45	8.12	22.65	95.9	6.31	6.8	6.2
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS5	11:23	4.3	Middle	2	1	30.27	8.10	22.89	90.7	5.99	7.7	6.8
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS5	11:23	4.3	Middle	2	2	30.22	8.10	22.98	95.0	6.29	7.4	6.9
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS5	11:23	7.5	Bottom	3	1	30.21	8.06	24.54	93.5	6.20	7.6	7.8
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS5	11:23	7.5	Bottom	3	2	29.87	8.02	24.89	89.4	5.93	7.8	8.0
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS(Mf)6	11:16	1.0	Surface	1	1	30.45	8.15	22.42	99.3	6.59	3.9	4.3
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS(Mf)6	11:15	1.0	Surface	1	2	30.47	8.16	22.36	98.6	6.54	3.9	3.5
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS(Mf)6	11:15	2.2	Bottom	3	1	30.27	8.15	22.61	99.5	6.61	5.2	5.9
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS(Mf)6	11:15	2.2	Bottom	3	2	30.42	8.11	22.52	99.2	6.58	5.1	5.7
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS7	11:07	1.0	Surface	1	1	30.45	8.18	22.26	104.8	6.96	3.5	6.8
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS7	11:07	1.0	Surface	1	2	30.47	8.19	22.33	105.8	7.02	3.5	6.3
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS7	11:07	2.2	Bottom	3	1	30.46	8.18	22.29	105.2	6.99	3.5	8.2
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS7	11:06	2.2	Bottom	3	2	30.35	8.18	22.16	103.5	6.89	3.6	9.2
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS8	10:41	1.0	Surface	1	1	30.38	8.13	21.52	99.5	6.64	4.6	6.4
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS8	10:40	1.0	Surface	1	2	30.39	8.14	21.45	100.6	6.72	4.6	5.9
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS8	10:40	3.2	Bottom	3	1	30.39	8.14	21.68	101.3	6.75	4.8	7.3
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS8	10:41	3.2	Bottom	3	2	30.40	8.13	21.72	99.5	6.63	4.7	7.1
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS(Mf)9	10:57	1.0	Surface	1	1	30.39	8.12	21.99	97.3	6.47	8.0	9.8
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS(Mf)9	10:58	1.0	Surface	1	2	30.36	8.12	22.03	96.1	6.40	8.2	9.2
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS(Mf)9	10:57	2.9	Bottom	3	1	30.14	8.10	22.45	98.6	6.58	8.2	10.2
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS(Mf)9	10:58	2.9	Bottom	3	2	30.15	8.10	22.45	96.0	6.40	8.1	9.2
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS10(N)	10:38	1.0	Surface	1	1	29.82	8.27	20.73	83.1	5.62	4.5	7.3
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS10(N)	10:39	1.0	Surface	1	2	29.88	8.27	20.49	83.7	5.67	4.3	6.1
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS10(N)	10:39	5.3	Middle	2	1	29.61	8.25	21.60	80.3	5.42	5.1	8.4
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS10(N)	10:37	5.3	Middle	2	2	29.61	8.26	21.59	79.7	5.39	5.3	8.0
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS10(N)	10:38	9.6	Bottom	3	1	29.29	8.22	23.24	78.2	5.27	5.3	8.7
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	IS10(N)	10:37	9.6	Bottom	3	2	29.17	8.22	23.52	76.9	5.18	5.5	8.9
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR3(N)	11:32	1.0	Surface	1	1	30.42	8.10	22.87	93.3	6.18	5.8	6.6
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR3(N)	11:31	1.0	Surface	1	2	30.45	8.10	22.81	94.7	6.27	5.8	7.6
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR3(N)	11:31	2.5	Bottom	3	1	30.25	8.06	23.22	93.7	6.21	5.8	8.6
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR3(N)	11:31	2.5	Bottom	3	2	30.29	8.06	23.13	93.1	6.17	5.7	8.3
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR4(N)	10:47	1.0	Surface	1	1	30.34	8.13	21.64	101.2	6.76	5.1	8.1
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR4(N)	10:48	1.0	Surface	1	2	30.39	8.14	21.77	101.2	6.74	4.9	7.6
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR4(N)	10:48	2.8	Bottom	3	1	30.39	8.13	21.99	99.9	6.65	4.9	8.2
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR4(N)	10:47	2.8	Bottom	3	2	30.37	8.14	21.72	101.2	6.75	4.9	7.6
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR5(N)	10:53	1.0	Surface	1	1	29.75	8.25	21.11	82.5	5.58	5.8	7.0
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR5(N)	10:53	1.0	Surface	1	2	29.76	8.25	21.01	81.9	5.54	5.7	7.2
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR5(N)	10:53	4.1	Middle	2	1	29.65	8.24	21.42	79.7	5.38	5.9	7.2
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR5(N)	10:52	4.1	Middle	2	2	29.62	8.24	21.54	79.5	5.37	6.0	7.5

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	2018-08-03	Mid-Flood	Sunny	SR5(N)	10:52	7.2	Bottom	3	1	29.14	8.19	23.65	76.5	5.15	6.6	7.5
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR5(N)	10:53	7.2	Bottom	3	2	29.17	8.20	23.53	77.1	5.19	6.5	8.1
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR10A(N)	9:43	1.0	Surface	1	1	29.69	8.18	20.44	79.7	5.41	3.2	5.4
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR10A(N)	9:44	1.0	Surface	1	2	29.89	8.18	20.32	82.4	5.58	3.3	4.5
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR10A(N)	9:43	6.9	Middle	2	1	29.21	8.15	23.31	77.5	5.22	3.5	5.3
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR10A(N)	9:44	6.9	Middle	2	2	29.23	8.15	23.29	77.2	5.20	3.7	4.8
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR10A(N)	9:43	12.7	Bottom	3	1	29.12	8.14	23.67	77.3	5.20	3.8	5.7
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR10A(N)	9:43	12.7	Bottom	3	2	29.03	8.14	23.99	77.1	5.19	3.9	5.8
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR10B(N2)	9:31	1.0	Surface	1	1	29.80	8.15	20.53	82.4	5.58	2.9	5.4
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR10B(N2)	9:32	1.0	Surface	1	2	29.87	8.16	20.38	83.6	5.66	3.0	5.3
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR10B(N2)	9:32	4.1	Middle	2	1	29.56	8.14	21.99	80.8	5.45	3.1	5.6
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR10B(N2)	9:31	4.1	Middle	2	2	29.54	8.14	22.08	80.4	5.42	3.0	5.4
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR10B(N2)	9:31	7.1	Bottom	3	1	29.10	8.13	23.74	79.4	5.35	3.7	6.3
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	SR10B(N2)	9:30	7.1	Bottom	3	2	29.06	8.12	23.89	78.4	5.28	3.5	5.6
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	CS2(A)	11:47	1.0	Surface	1	1	30.28	8.29	16.62	88.9	6.11	7.2	4.7
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	CS2(A)	11:48	1.0	Surface	1	2	30.20	8.29	16.87	89.8	6.17	7.3	4.6
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	CS2(A)	11:48	3.9	Middle	2	1	29.61	8.24	19.37	82.1	5.61	7.6	4.7
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	CS2(A)	11:47	3.9	Middle	2	2	29.61	8.24	19.43	82.0	5.61	7.5	5.4
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	CS2(A)	11:46	6.7	Bottom	3	1	29.48	8.21	20.69	78.8	5.36	8.4	5.5
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	CS2(A)	11:47	6.7	Bottom	3	2	29.46	8.20	20.87	79.2	5.39	8.6	5.4
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	CS(Mf)5	10:18	1.0	Surface	1	1	30.02	8.05	21.12	83.3	5.61	5.4	5.7
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	CS(Mf)5	10:19	1.0	Surface	1	2	30.01	8.05	21.04	83.3	5.61	5.4	5.1
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	CS(Mf)5	10:18	6.2	Middle	2	1	29.53	7.99	25.39	78.7	5.17	5.7	6.0
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	CS(Mf)5	10:18	6.2	Middle	2	2	29.47	7.98	24.37	77.9	5.16	5.8	6.3
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	CS(Mf)5	10:17	11.4	Bottom	3	1	28.22	7.94	31.08	71.5	4.77	5.6	6.3
HKLR	HY/2011/03	2018-08-03	Mid-Flood	Sunny	CS(Mf)5	10:18	11.4	Bottom	3	2	28.21	7.95	30.82	76.2	5.00	5.8	6.7
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS5	8:50	1.0	Surface	1	1	30.43	8.08	21.79	80.2	5.34	3.2	4.3
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS5	8:50	1.0	Surface	1	2	30.38	8.05	21.77	79.8	5.22	3.2	5.1
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS5	8:49	4.1	Middle	2	1	28.94	7.89	30.08	78.1	5.05	5.8	5.1
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS5	8:50	4.1	Middle	2	2	29.03	7.90	29.02	78.5	5.07	5.7	5.4
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS5	8:50	7.2	Bottom	3	1	28.82	7.92	30.86	76.7	4.98	5.7	5.4
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS5	8:49	7.2	Bottom	3	2	28.73	7.89	30.95	76.3	4.96	5.6	6.5
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS(Mf)6	8:42	1.0	Surface	1	1	30.32	8.08	22.50	89.6	5.91	4.1	5.0
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS(Mf)6	8:41	1.0	Surface	1	2	30.30	8.08	22.60	92.4	6.11	4.0	5.9
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS(Mf)6	8:42	2.1	Bottom	3	1	30.27	8.05	23.83	88.6	5.88	4.0	7.5
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS(Mf)6	8:41	2.1	Bottom	3	2	30.24	8.04	23.73	90.0	5.98	4.1	8.0
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS7	8:34	1.0	Surface	1	1	30.19	8.13	22.65	91.5	6.09	2.8	5.1
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS7	8:33	1.0	Surface	1	2	30.19	8.13	22.62	90.9	6.05	2.9	6.0
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS7	8:33	2.2	Bottom	3	1	29.99	8.06	22.90	86.8	5.79	3.1	6.5
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS7	8:33	2.2	Bottom	3	2	30.12	8.08	22.85	91.3	6.08	3.0	6.2
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS8	8:05	1.0	Surface	1	1	30.07	8.07	22.97	87.8	5.82	3.6	6.6
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS8	8:05	1.0	Surface	1	2	30.08	8.07	23.22	86.1	5.72	3.4	5.8
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS8	8:05	3.2	Bottom	3	1	30.10	8.06	23.32	85.2	5.66	3.8	7.3
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS8	8:05	3.2	Bottom	3	2	29.94	8.01	24.07	85.5	5.69	3.8	6.1
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS(Mf)9	8:23	1.0	Surface	1	1	30.16	8.12	22.56	90.5	6.03	3.9	4.9
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS(Mf)9	8:24	1.0	Surface	1	2	30.15	8.11	22.59	90.9	6.02	3.8	4.6
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS(Mf)9	8:24	2.7	Bottom	3	1	30.14	8.06	23.83	89.6	5.97	3.7	5.4
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS(Mf)9	8:23	2.7	Bottom	3	2	30.07	8.03	23.95	91.1	6.03	3.8	4.6
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS10(N)	8:34	1.0	Surface	1	1	30.09	8.20	18.74	70.7	4.81	3.6	4.6
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS10(N)	8:33	1.0	Surface	1	2	30.13	8.22	18.10	72.2	4.93	3.8	4.1
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS10(N)	8:33	5.3	Middle	2	1	29.56	8.16	21.87	65.2	4.40	4.3	4.5
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS10(N)	8:34	5.3	Middle	2	2	29.45	8.13	22.64	64.2	4.32	4.5	4.7
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS10(N)	8:33	9.5	Bottom	3	1	28.94	8.13	24.28	63.5	4.27	4.8	6.5
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	IS10(N)	8:32	9.5	Bottom	3	2	28.88	8.15	24.33	64.4	4.34	4.7	5.4
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR3(N)	8:59	1.0	Surface	1	1	30.42	8.07	21.61	87.5	5.83	3.5	4.6
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR3(N)	8:59	1.0	Surface	1	2	30.38	8.06	21.62	90.3	5.95	3.6	4.9
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR3(N)	8:59	2.2	Bottom	3	1	30.39	8.05	23.39	87.3	5.77	3.7	5.3
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR3(N)	8:58	2.2	Bottom	3	2	30.35	8.04	24.03	87.3	5.82	3.8	5.1
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR4(N)	8:12	1.0	Surface	1	1	30.00	8.05	22.91	80.5	5.37	9.4	7.9

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	2018-08-06	Mid-Ebb	Sunny	SR4(N)	8:13	1.0	Surface	1	2	30.00	8.06	22.75	79.8	5.32	9.5	7.1
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR4(N)	8:12	2.6	Bottom	3	1	29.85	7.99	23.96	77.7	5.16	9.4	8.2
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR4(N)	8:12	2.6	Bottom	3	2	29.88	7.99	24.04	79.1	5.25	9.7	7.3
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR5(N)	9:08	1.0	Surface	1	1	30.11	8.20	19.02	72.5	4.93	3.3	5.3
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR5(N)	9:06	1.0	Surface	1	2	30.12	8.20	18.43	72.6	4.95	3.2	4.8
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR5(N)	9:06	4.1	Middle	2	1	29.76	8.16	21.08	66.4	4.49	3.7	5.0
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR5(N)	9:08	4.1	Middle	2	2	29.77	8.15	22.42	67.8	4.55	3.6	6.0
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR5(N)	9:06	7.1	Bottom	3	1	28.98	8.12	24.23	63.6	4.28	4.0	6.1
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR5(N)	9:07	7.1	Bottom	3	2	28.96	8.12	24.26	64.8	4.36	4.2	5.5
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR10A(N)	7:34	1.0	Surface	1	1	29.42	8.15	21.62	81.6	5.53	2.2	3.4
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR10A(N)	7:35	1.0	Surface	1	2	29.40	8.16	22.18	81.4	5.50	2.2	3.9
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR10A(N)	7:34	6.8	Middle	2	1	29.23	8.15	23.44	80.8	5.44	2.5	3.6
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR10A(N)	7:34	6.8	Middle	2	2	29.25	8.15	23.38	81.0	5.45	2.5	4.2
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR10A(N)	7:34	12.5	Bottom	3	1	29.23	8.15	23.46	80.7	5.43	2.7	5.0
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR10A(N)	7:33	12.5	Bottom	3	2	29.20	8.14	23.60	80.6	5.43	2.8	4.7
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR10B(N2)	7:18	1.0	Surface	1	1	29.36	8.12	22.85	81.6	5.50	2.4	3.4
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR10B(N2)	7:19	1.0	Surface	1	2	29.36	8.13	22.95	81.4	5.48	2.5	4.3
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR10B(N2)	7:19	3.8	Middle	2	1	29.26	8.13	23.44	80.5	5.41	2.6	4.2
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR10B(N2)	7:18	3.8	Middle	2	2	29.21	8.11	23.65	80.4	5.41	2.7	4.0
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR10B(N2)	7:18	6.5	Bottom	3	1	29.13	8.09	23.89	80.1	5.39	3.1	5.9
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	SR10B(N2)	7:19	6.5	Bottom	3	2	29.20	8.12	23.60	80.3	5.40	3.2	5.0
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	CS2(A)	9:59	1.0	Surface	1	1	30.18	8.20	15.01	77.3	5.37	3.4	4.1
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	CS2(A)	10:00	1.0	Surface	1	2	30.18	8.20	15.37	76.5	5.30	3.6	3.9
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	CS2(A)	9:59	3.8	Middle	2	1	30.18	8.17	22.09	75.9	5.06	4.7	3.7
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	CS2(A)	9:58	3.8	Middle	2	2	29.95	8.14	23.46	76.5	5.09	4.9	4.9
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	CS2(A)	9:58	6.5	Bottom	3	1	28.45	8.09	29.04	75.2	4.97	5.0	5.0
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	CS2(A)	9:59	6.5	Bottom	3	2	28.45	8.08	28.91	74.3	4.92	5.2	5.8
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	CS(Mf)5	7:40	1.0	Surface	1	1	29.54	8.04	23.90	77.2	5.16	1.8	3.9
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	CS(Mf)5	7:39	1.0	Surface	1	2	29.53	8.03	24.66	79.3	5.28	1.7	4.2
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	CS(Mf)5	7:39	6.1	Middle	2	1	29.33	8.02	26.07	76.4	5.01	2.0	4.5
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	CS(Mf)5	7:38	6.1	Middle	2	2	29.34	8.01	26.39	76.3	5.04	2.0	4.1
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	CS(Mf)5	7:39	11.1	Bottom	3	1	27.20	7.96	33.90	74.0	4.90	2.1	4.5
HKLR	HY/2011/03	2018-08-06	Mid-Ebb	Sunny	CS(Mf)5	7:38	11.1	Bottom	3	2	27.11	7.93	35.46	73.8	4.81	2.0	4.5
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS5	13:15	1.0	Surface	1	1	30.72	8.18	22.21	85.0	5.62	7.7	5.8
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS5	13:14	1.0	Surface	1	2	30.70	8.18	22.12	87.0	5.69	7.7	5.9
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS5	13:15	4.4	Middle	2	1	29.42	7.93	26.01	82.2	5.45	11.2	7.3
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS5	13:14	4.4	Middle	2	2	29.45	7.96	25.61	85.3	5.65	11.2	6.4
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS5	13:14	7.8	Bottom	3	1	29.27	7.89	28.48	72.5	4.80	11.9	7.2
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS5	13:15	7.8	Bottom	3	2	28.94	7.88	29.11	76.6	5.02	11.5	7.9
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS(Mf)6	-	1.0	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS(Mf)6	-	1.0	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS(Mf)6	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS(Mf)6	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS7	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS7	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS7	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS7	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS8	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS8	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS8	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS8	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS(Mf)9	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS(Mf)9	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS(Mf)9	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS(Mf)9	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS10(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS10(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS10(N)	-	-	Middle	2	1	-	-	-	-	-	-	-

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	2018-08-06	Mid-Flood	Rainy	IS10(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS10(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	IS10(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR3(N)	13:05	1.0	Surface	1	1	30.62	8.07	21.90	87.9	5.83	7.6	9.0
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR3(N)	13:06	1.0	Surface	1	2	30.39	8.05	22.12	86.0	5.68	7.8	8.4
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR3(N)	13:06	2.6	Bottom	3	1	30.15	7.99	24.25	83.8	5.57	7.7	9.0
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR3(N)	13:05	2.6	Bottom	3	2	30.17	8.01	23.74	87.5	5.79	7.9	9.7
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR4(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR4(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR4(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR4(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR5(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR5(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR5(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR5(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR5(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR5(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR10A(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR10A(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR10A(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR10A(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR10A(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR10A(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR10B(N2)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR10B(N2)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR10B(N2)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR10B(N2)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR10B(N2)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	SR10B(N2)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	CS2(A)	13:12	1.0	Surface	1	1	30.42	8.19	17.55	80.8	5.51	6.4	4.9
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	CS2(A)	13:11	1.0	Surface	1	2	30.41	8.18	17.58	80.0	5.45	6.5	5.6
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	CS2(A)	13:11	4.0	Middle	2	1	30.21	8.18	21.71	78.9	5.27	6.7	4.8
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	CS2(A)	13:12	4.0	Middle	2	2	30.25	8.15	25.39	79.5	5.20	6.6	5.7
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	CS2(A)	13:11	7.0	Bottom	3	1	28.54	8.06	29.15	75.6	4.99	7.6	7.6
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	CS2(A)	13:10	7.0	Bottom	3	2	28.24	8.07	29.82	76.2	5.04	7.5	6.8
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	CS(Mf)5	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	CS(Mf)5	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	CS(Mf)5	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	CS(Mf)5	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	CS(Mf)5	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-06	Mid-Flood	Rainy	CS(Mf)5	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS5	10:34	1.0	Surface	1	1	29.50	8.00	25.69	86.4	5.64	4.4	5.2
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS5	10:33	1.0	Surface	1	2	29.53	8.00	25.96	85.9	5.60	4.3	4.3
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS5	10:34	4.1	Middle	2	1	28.90	7.93	30.56	76.1	5.05	7.1	5.9
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS5	10:33	4.1	Middle	2	2	28.92	7.95	29.26	77.3	5.05	7.3	5.8
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS5	10:33	7.2	Bottom	3	1	28.67	7.94	31.29	72.2	4.74	7.2	5.9
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS5	10:33	7.2	Bottom	3	2	28.67	7.93	31.50	73.9	4.89	7.4	6.2
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS(Mf)6	10:26	1.0	Surface	1	1	29.93	8.12	24.23	81.6	5.40	3.4	3.7
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS(Mf)6	10:26	1.0	Surface	1	2	29.85	8.10	24.43	77.7	5.15	3.4	3.1
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS(Mf)6	10:26	2.1	Bottom	3	1	29.81	8.04	26.03	80.2	5.27	3.5	4.6
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS(Mf)6	10:25	2.1	Bottom	3	2	29.49	7.97	26.89	78.2	5.14	3.5	4.8
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS7	10:18	1.0	Surface	1	1	29.79	8.01	25.23	81.3	5.37	10.0	6.2
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS7	10:17	1.0	Surface	1	2	29.58	7.96	25.78	79.8	5.28	10.1	6.7
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS7	10:17	2.2	Bottom	3	1	28.84	7.93	28.11	76.3	5.05	10.2	6.7
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS7	10:17	2.2	Bottom	3	2	29.58	7.96	26.09	75.8	5.01	10.5	6.6
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS8	9:51	1.0	Surface	1	1	29.96	8.09	24.38	84.1	5.53	3.6	2.2
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS8	9:51	1.0	Surface	1	2	29.85	8.07	24.47	80.2	5.24	3.5	2.8
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS8	9:51	3.1	Bottom	3	1	29.67	7.95	26.53	78.5	5.19	3.5	3.6

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	2018-08-08	Mid-Ebb	Sunny	IS8	9:51	3.1	Bottom	3	2	29.91	8.01	26.67	77.0	5.10	3.6	3.3
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS(Mf)9	10:08	1.0	Surface	1	1	29.95	8.04	24.70	78.0	5.13	9.6	5.4
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS(Mf)9	10:09	1.0	Surface	1	2	29.99	8.04	24.68	77.8	5.14	9.8	6.2
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS(Mf)9	10:08	2.7	Bottom	3	1	29.63	7.93	26.41	77.2	5.10	9.6	6.5
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS(Mf)9	10:09	2.7	Bottom	3	2	29.83	7.97	25.92	76.2	5.01	9.5	5.8
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS10(N)	10:23	1.0	Surface	1	1	29.25	8.20	20.80	81.2	5.69	5.5	4.2
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS10(N)	10:22	1.0	Surface	1	2	29.30	8.20	20.88	80.5	5.63	5.8	4.2
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS10(N)	10:22	5.2	Middle	2	1	28.16	8.12	26.33	79.0	5.52	6.2	4.4
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS10(N)	10:23	5.2	Middle	2	2	28.33	8.12	26.28	80.1	5.61	6.4	5.0
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS10(N)	10:22	9.3	Bottom	3	1	27.49	8.14	29.33	80.2	5.60	6.8	6.0
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	IS10(N)	10:22	9.3	Bottom	3	2	27.57	8.12	29.26	77.9	5.43	6.5	4.8
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR3(N)	10:43	1.0	Surface	1	1	29.98	8.06	24.62	79.7	5.26	2.9	4.8
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR3(N)	10:43	1.0	Surface	1	2	29.94	8.05	24.61	79.0	5.20	2.9	4.4
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR3(N)	10:43	2.4	Bottom	3	1	29.79	8.00	25.30	78.2	5.17	3.1	4.7
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR3(N)	10:43	2.4	Bottom	3	2	29.79	8.00	25.84	77.2	5.10	3.0	5.0
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR4(N)	9:57	1.0	Surface	1	1	29.91	8.03	24.29	81.0	5.37	7.5	5.3
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR4(N)	9:57	1.0	Surface	1	2	30.06	8.06	24.44	79.0	5.22	7.4	4.8
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR4(N)	9:57	2.8	Bottom	3	1	29.68	7.95	26.98	78.4	5.14	7.3	6.1
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR4(N)	9:57	2.8	Bottom	3	2	29.78	8.00	25.25	79.1	5.19	7.4	6.7
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR5(N)	10:35	1.0	Surface	1	1	29.39	8.21	20.90	80.6	5.67	4.8	4.9
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR5(N)	10:35	1.0	Surface	1	2	29.34	8.20	20.85	80.8	5.67	5.2	4.6
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR5(N)	10:35	4.0	Middle	2	1	28.44	8.12	25.99	80.0	5.61	5.7	5.0
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR5(N)	10:35	4.0	Middle	2	2	28.52	8.12	25.75	80.6	5.65	5.6	5.2
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR5(N)	10:35	7.0	Bottom	3	1	28.33	8.12	26.52	81.0	5.67	6.6	5.4
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR5(N)	10:35	7.0	Bottom	3	2	28.69	8.15	26.68	80.4	5.63	6.8	5.0
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR10A(N)	9:15	1.0	Surface	1	1	28.81	8.23	23.15	81.2	5.65	2.4	5.8
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR10A(N)	9:14	1.0	Surface	1	2	28.56	8.23	24.05	80.8	5.62	2.2	6.3
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR10A(N)	9:14	6.9	Middle	2	1	27.98	8.21	26.34	80.0	5.55	2.9	6.2
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR10A(N)	9:14	6.9	Middle	2	2	27.24	8.18	28.77	80.6	5.59	2.8	6.0
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR10A(N)	9:13	12.7	Bottom	3	1	27.91	8.20	26.86	77.7	5.39	4.5	6.1
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR10A(N)	9:14	12.7	Bottom	3	2	27.13	8.17	29.18	79.2	5.50	4.2	6.6
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR10B(N2)	9:01	1.0	Surface	1	1	28.38	8.22	23.67	78.1	5.46	3.2	5.0
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR10B(N2)	9:00	1.0	Surface	1	2	28.57	8.22	25.40	77.6	5.41	3.0	4.0
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR10B(N2)	9:00	3.4	Middle	2	1	28.10	8.22	25.98	76.6	5.31	2.7	4.7
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR10B(N2)	9:01	3.4	Middle	2	2	27.85	8.20	26.91	77.6	5.39	3.0	5.7
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR10B(N2)	9:01	5.8	Bottom	3	1	27.83	8.20	27.12	76.9	5.35	3.4	6.5
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	SR10B(N2)	9:00	5.8	Bottom	3	2	27.14	8.23	29.09	75.8	5.25	3.3	7.2
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	CS2(A)	11:25	1.0	Surface	1	1	29.40	8.17	22.74	82.7	5.82	5.3	5.7
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	CS2(A)	11:24	1.0	Surface	1	2	29.42	8.18	22.71	81.2	5.71	5.1	6.4
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	CS2(A)	11:24	3.7	Middle	2	1	28.82	8.14	25.59	81.7	5.73	6.8	6.0
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	CS2(A)	11:24	3.7	Middle	2	2	28.51	8.13	27.51	79.9	5.58	6.6	6.3
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	CS2(A)	11:23	6.3	Bottom	3	1	28.33	8.12	28.66	78.0	5.44	7.7	6.2
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	CS2(A)	11:24	6.3	Bottom	3	2	28.58	8.11	28.64	81.1	5.69	7.8	7.0
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	CS(Mf)5	9:21	1.0	Surface	1	1	29.15	8.02	26.05	80.9	5.33	2.2	5.6
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	CS(Mf)5	9:22	1.0	Surface	1	2	29.17	8.03	25.69	75.9	5.05	2.2	5.2
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	CS(Mf)5	9:20	5.9	Middle	2	1	27.75	7.99	31.67	75.7	5.03	2.5	5.6
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	CS(Mf)5	9:21	5.9	Middle	2	2	27.25	7.99	31.75	75.6	5.02	2.5	5.8
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	CS(Mf)5	9:20	10.8	Bottom	3	1	26.60	7.96	35.46	71.9	4.73	2.6	6.1
HKLR	HY/2011/03	2018-08-08	Mid-Ebb	Sunny	CS(Mf)5	9:21	10.8	Bottom	3	2	26.70	7.97	34.38	72.4	4.78	2.4	5.8
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	ISS	16:08	1.0	Surface	1	1	30.80	8.18	23.72	93.7	6.14	9.5	9.0
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	ISS	16:07	1.0	Surface	1	2	30.80	8.18	23.67	89.4	5.86	9.2	8.4
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	ISS	16:07	4.2	Middle	2	1	30.42	8.05	25.18	84.1	5.53	9.5	8.6
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	ISS	16:08	4.2	Middle	2	2	29.62	7.98	25.55	83.8	5.51	9.3	8.7
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	ISS	16:07	7.4	Bottom	3	1	29.16	7.87	27.57	76.5	5.06	9.5	9.8
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	ISS	16:08	7.4	Bottom	3	2	29.23	7.90	27.53	76.2	5.05	9.8	9.7
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS(Mf)6	16:18	1.0	Surface	1	1	30.68	8.19	24.23	110.4	7.23	10.3	8.7
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS(Mf)6	16:18	1.0	Surface	1	2	30.67	8.19	24.22	108.7	7.11	10.5	8.1
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS(Mf)6	16:18	2.2	Bottom	3	1	30.64	8.20	24.23	106.1	6.95	10.2	9.4

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	2018-08-08	Mid-Flood	Sunny	IS(Mf)6	16:18	2.2	Bottom	3	2	30.67	8.19	24.26	109.7	7.18	10.4	7.8
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS7	16:34	1.0	Surface	1	1	30.68	8.21	24.23	108.6	7.10	4.8	7.0
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS7	16:34	1.0	Surface	1	2	30.68	8.21	24.18	106.5	6.97	4.7	5.9
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS7	16:34	2.1	Bottom	3	1	30.47	8.16	24.42	102.5	6.73	5.3	7.9
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS7	16:34	2.1	Bottom	3	2	30.54	8.17	24.47	105.9	6.94	5.5	6.8
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS8	17:06	1.0	Surface	1	1	29.88	8.16	25.50	94.2	6.20	14.7	23.3
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS8	17:05	1.0	Surface	1	2	29.76	8.12	25.74	101.8	6.70	14.6	23.3
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS8	17:05	3.2	Bottom	3	1	29.75	8.12	25.75	93.5	6.16	14.5	28.9
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS8	17:05	3.2	Bottom	3	2	29.72	8.12	25.89	94.7	6.24	14.5	31.8
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS(Mf)9	16:46	1.0	Surface	1	1	30.15	8.20	24.38	94.9	6.26	3.5	7.9
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS(Mf)9	16:46	1.0	Surface	1	2	30.10	8.21	24.28	98.2	6.48	3.6	8.0
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS(Mf)9	16:46	2.9	Bottom	3	1	29.59	8.03	26.27	93.1	6.13	3.4	11.3
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS(Mf)9	16:45	2.9	Bottom	3	2	29.63	8.05	25.78	95.4	6.30	3.6	10.6
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS10(N)	16:56	1.0	Surface	1	1	29.69	8.26	23.44	80.1	5.60	8.6	8.5
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS10(N)	16:57	1.0	Surface	1	2	29.69	8.26	23.43	80.3	5.61	8.8	9.7
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS10(N)	16:56	5.3	Middle	2	1	28.71	8.10	25.50	79.5	5.55	9.4	10.3
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS10(N)	16:56	5.3	Middle	2	2	28.80	8.11	25.24	79.7	5.56	9.8	9.5
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS10(N)	16:56	9.5	Bottom	3	1	27.91	8.14	27.78	78.7	5.49	11.9	10.7
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	IS10(N)	16:56	9.5	Bottom	3	2	28.81	8.15	27.09	78.4	5.48	11.5	10.6
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR3(N)	15:58	1.0	Surface	1	1	30.58	8.10	23.40	101.8	6.70	6.3	9.3
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR3(N)	15:57	1.0	Surface	1	2	30.67	8.06	23.04	96.1	6.33	6.4	9.7
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR3(N)	15:57	2.5	Bottom	3	1	30.36	8.01	23.79	96.3	6.35	6.5	9.8
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR3(N)	15:57	2.5	Bottom	3	2	30.25	8.00	23.78	94.2	6.22	6.5	10.1
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR4(N)	16:58	1.0	Surface	1	1	29.55	8.10	25.61	87.8	5.81	11.9	16.1
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR4(N)	16:58	1.0	Surface	1	2	29.63	8.11	25.46	93.4	6.19	11.5	14.6
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR4(N)	16:58	2.8	Bottom	3	1	29.36	8.03	26.10	85.4	5.66	11.9	16.6
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR4(N)	16:58	2.8	Bottom	3	2	29.35	8.06	25.93	83.3	5.51	11.1	17.6
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR5(N)	16:44	1.0	Surface	1	1	29.80	8.30	23.41	80.2	5.60	6.5	12.9
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR5(N)	16:45	1.0	Surface	1	2	29.80	8.30	23.39	81.9	5.72	6.1	11.7
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR5(N)	16:45	3.9	Middle	2	1	28.63	8.14	24.94	79.8	5.58	10.1	13.0
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR5(N)	16:44	3.9	Middle	2	2	29.23	8.20	23.80	79.0	5.51	9.8	12.5
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR5(N)	16:44	6.7	Bottom	3	1	28.32	8.13	27.47	77.1	5.37	12.8	13.1
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR5(N)	16:45	6.7	Bottom	3	2	28.06	8.15	27.73	78.9	5.51	12.1	14.0
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR10A(N)	17:56	1.0	Surface	1	1	28.13	8.26	27.02	74.2	5.14	4.6	9.2
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR10A(N)	17:55	1.0	Surface	1	2	28.03	8.28	27.16	75.2	5.18	4.5	8.7
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR10A(N)	17:55	6.9	Middle	2	1	27.47	8.25	28.68	73.4	5.09	5.2	9.6
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR10A(N)	17:55	6.9	Middle	2	2	27.49	8.28	28.66	73.3	5.08	5.0	9.1
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR10A(N)	17:55	12.7	Bottom	3	1	27.53	8.25	28.63	73.3	5.08	5.6	10.4
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR10A(N)	17:54	12.7	Bottom	3	2	27.65	8.32	28.47	72.7	5.03	5.7	9.8
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR10B(N2)	18:05	1.0	Surface	1	1	28.08	8.26	27.18	74.4	5.15	4.7	9.2
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR10B(N2)	18:06	1.0	Surface	1	2	28.09	8.26	27.14	74.0	5.13	4.8	9.2
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR10B(N2)	18:06	3.3	Middle	2	1	27.89	8.27	27.81	73.7	5.10	4.6	11.1
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR10B(N2)	18:05	3.3	Middle	2	2	27.81	8.27	27.97	73.4	5.08	4.4	10.1
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR10B(N2)	18:06	5.6	Bottom	3	1	27.88	8.27	27.88	74.0	5.12	5.8	11.5
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	SR10B(N2)	18:05	5.6	Bottom	3	2	27.72	8.26	28.18	73.7	5.11	5.5	11.2
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	CS2(A)	15:48	1.0	Surface	1	1	29.39	8.09	23.41	80.7	5.62	11.7	12.0
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	CS2(A)	15:49	1.0	Surface	1	2	29.21	8.09	23.65	81.4	5.66	11.3	12.6
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	CS2(A)	15:48	3.5	Middle	2	1	28.96	8.06	25.57	80.5	5.61	12.3	13.3
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	CS2(A)	15:48	3.5	Middle	2	2	28.98	8.06	25.60	78.7	5.45	12.5	13.9
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	CS2(A)	15:48	6.0	Bottom	3	1	28.92	8.06	25.95	79.9	5.56	12.9	14.5
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	CS2(A)	15:48	6.0	Bottom	3	2	28.93	8.07	26.06	77.4	5.36	12.8	13.6
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	CS(Mf)5	17:33	1.0	Surface	1	1	28.88	8.10	27.80	77.5	5.15	5.5	8.2
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	CS(Mf)5	17:33	1.0	Surface	1	2	28.78	8.09	28.02	76.7	5.11	5.4	9.4
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	CS(Mf)5	17:33	6.3	Middle	2	1	26.89	7.99	32.91	75.6	5.02	8.5	10.8
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	CS(Mf)5	17:33	6.3	Middle	2	2	26.82	7.99	33.22	75.8	5.03	8.6	11.8
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	CS(Mf)5	17:33	11.5	Bottom	3	1	26.84	7.99	33.23	75.1	4.91	8.6	11.8
HKLR	HY/2011/03	2018-08-08	Mid-Flood	Sunny	CS(Mf)5	17:32	11.5	Bottom	3	2	26.81	7.99	33.27	74.3	4.89	8.9	11.1
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	ISS	12:32	1.0	Surface	1	1	29.13	8.08	29.06	84.3	5.51	5.8	7.4

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	2018-08-10	Mid-Ebb	Cloudy	IS5	12:31	1.0	Surface	1	2	29.14	8.08	29.04	89.5	5.85	5.7	7.9
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS5	12:31	4.1	Middle	2	1	29.09	8.07	29.15	81.9	5.35	6.4	8.4
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS5	12:32	4.1	Middle	2	2	29.07	8.06	29.23	79.2	5.18	6.6	7.8
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS5	12:31	7.1	Bottom	3	1	29.07	8.06	29.20	81.0	5.29	7.0	7.9
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS5	12:32	7.1	Bottom	3	2	29.09	8.06	29.21	78.8	5.15	7.2	8.8
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS(Mf)6	12:23	1.0	Surface	1	1	29.34	8.11	28.64	98.8	6.46	5.4	8.3
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS(Mf)6	12:23	1.0	Surface	1	2	29.33	8.10	28.76	90.7	5.92	5.3	9.2
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS(Mf)6	12:23	2.1	Bottom	3	1	29.28	8.09	28.86	88.7	5.79	6.6	8.5
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS(Mf)6	12:23	2.1	Bottom	3	2	29.19	8.09	28.82	93.7	6.12	6.9	9.6
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS7	12:12	1.0	Surface	1	1	29.30	8.12	28.46	92.8	6.07	5.4	7.2
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS7	12:11	1.0	Surface	1	2	29.28	8.12	28.45	94.5	6.18	5.2	7.2
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS7	12:11	2.1	Bottom	3	1	29.26	8.12	28.44	96.0	6.28	5.2	9.4
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS7	12:11	2.1	Bottom	3	2	29.28	8.12	28.47	93.7	6.13	5.1	9.9
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS8	11:45	1.0	Surface	1	1	29.38	8.09	28.61	95.4	6.23	8.7	31.5
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS8	11:46	1.0	Surface	1	2	29.39	8.09	28.63	88.9	5.80	8.6	30.9
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS8	11:45	3.1	Bottom	3	1	29.37	8.09	28.58	90.5	5.91	8.7	20.8
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS8	11:45	3.1	Bottom	3	2	29.39	8.09	28.63	87.5	5.71	8.9	20.0
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS(Mf)9	12:04	1.0	Surface	1	1	29.27	8.09	28.77	87.4	5.71	4.6	6.7
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS(Mf)9	12:03	1.0	Surface	1	2	29.31	8.09	28.74	92.0	6.02	4.4	6.6
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS(Mf)9	12:03	2.8	Bottom	3	1	29.22	8.08	28.73	88.2	5.76	4.6	7.0
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS(Mf)9	12:03	2.8	Bottom	3	2	29.28	8.09	28.75	86.4	5.64	4.5	7.2
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS10(N)	12:17	1.0	Surface	1	1	29.02	8.19	24.82	78.0	5.23	5.0	5.0
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS10(N)	12:19	1.0	Surface	1	2	29.02	8.19	24.83	78.1	5.24	4.9	5.8
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS10(N)	12:17	5.4	Middle	2	1	29.00	8.19	24.92	77.5	5.20	5.2	6.4
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS10(N)	12:18	5.4	Middle	2	2	28.97	8.20	25.10	78.0	5.22	5.1	6.6
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS10(N)	12:18	9.8	Bottom	3	1	28.92	8.23	25.48	77.1	5.16	5.7	7.4
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	IS10(N)	12:16	9.8	Bottom	3	2	28.92	8.25	25.58	77.0	5.15	5.9	8.1
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR3(N)	12:41	1.0	Surface	1	1	29.12	8.07	29.16	86.2	5.63	4.8	3.9
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR3(N)	12:41	1.0	Surface	1	2	29.12	8.07	29.13	95.4	6.23	4.9	4.4
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR3(N)	12:41	2.3	Bottom	3	1	29.12	8.06	29.19	84.1	5.49	4.7	4.9
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR3(N)	12:41	2.3	Bottom	3	2	29.09	8.06	29.20	88.8	5.80	4.8	4.2
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR4(N)	11:52	1.0	Surface	1	1	29.34	8.05	28.36	88.0	5.77	9.8	10.1
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR4(N)	11:52	1.0	Surface	1	2	29.32	8.04	28.11	82.6	5.40	9.8	9.9
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR4(N)	11:51	2.6	Bottom	3	1	29.24	8.02	28.07	83.4	5.45	9.8	10.6
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR4(N)	11:52	2.6	Bottom	3	2	29.35	8.05	28.28	81.7	5.35	9.7	10.1
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR5(N)	12:27	1.0	Surface	1	1	29.00	8.19	24.90	77.0	5.16	4.7	5.9
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR5(N)	12:28	1.0	Surface	1	2	29.01	8.19	24.87	77.1	5.17	4.8	5.3
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR5(N)	12:28	4.1	Middle	2	1	28.94	8.22	25.16	76.7	5.14	5.1	6.8
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR5(N)	12:27	4.1	Middle	2	2	28.97	8.20	25.03	76.9	5.16	5.0	6.1
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR5(N)	12:27	7.2	Bottom	3	1	28.93	8.24	25.51	76.7	5.13	5.8	7.0
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR5(N)	12:26	7.2	Bottom	3	2	28.92	8.23	25.44	76.8	5.14	5.5	6.2
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR10A(N)	11:05	1.0	Surface	1	1	28.04	8.21	27.36	75.2	5.05	4.5	2.2
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR10A(N)	11:04	1.0	Surface	1	2	28.10	8.21	27.23	75.6	5.08	4.7	3.0
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR10A(N)	11:04	6.8	Middle	2	1	27.92	8.21	27.65	74.7	5.02	4.7	2.9
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR10A(N)	11:05	6.8	Middle	2	2	27.90	8.21	27.69	74.4	5.00	4.6	3.2
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR10A(N)	11:04	12.6	Bottom	3	1	27.84	8.21	27.81	74.4	5.00	4.9	3.0
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR10A(N)	11:03	12.6	Bottom	3	2	27.83	8.21	27.82	74.4	5.00	5.1	3.2
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR10B(N2)	10:49	1.0	Surface	1	1	28.33	8.21	26.74	78.1	5.24	4.1	2.4
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR10B(N2)	10:47	1.0	Surface	1	2	28.44	8.20	26.47	79.1	5.30	4.2	3.0
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR10B(N2)	10:48	4.0	Middle	2	1	27.95	8.20	27.62	76.0	5.11	4.4	3.2
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR10B(N2)	10:47	4.0	Middle	2	2	28.17	8.20	27.10	75.6	5.08	4.5	3.7
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR10B(N2)	10:48	7.0	Bottom	3	1	27.76	8.20	27.98	74.8	5.03	4.8	4.3
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	SR10B(N2)	10:47	7.0	Bottom	3	2	27.83	8.20	27.74	74.6	5.02	4.9	4.5
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	CS2(A)	13:17	1.0	Surface	1	1	28.96	8.21	25.21	77.5	5.19	7.5	10.1
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	CS2(A)	13:18	1.0	Surface	1	2	28.95	8.21	25.22	77.2	5.17	7.4	10.3
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	CS2(A)	13:17	4.1	Middle	2	1	28.96	8.22	25.43	77.0	5.15	7.6	11.3
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	CS2(A)	13:18	4.1	Middle	2	2	28.95	8.21	25.33	77.0	5.15	7.6	11.4
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	CS2(A)	13:17	7.1	Bottom	3	1	28.96	8.22	25.51	76.8	5.14	8.7	12.8

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	2018-08-10	Mid-Ebb	Cloudy	CS2(A)	13:18	7.1	Bottom	3	2	28.96	8.22	25.55	76.8	5.14	8.8	12.2
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	CS(Mf)5	11:16	1.0	Surface	1	1	28.64	8.03	29.92	81.9	5.25	6.5	4.0
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	CS(Mf)5	11:15	1.0	Surface	1	2	28.65	8.02	30.68	84.0	5.39	6.5	4.8
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	CS(Mf)5	11:15	6.1	Middle	2	1	28.18	7.98	32.95	78.5	5.07	6.4	4.9
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	CS(Mf)5	11:16	6.1	Middle	2	2	28.17	7.99	32.08	78.1	5.05	6.3	5.7
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	CS(Mf)5	11:16	11.2	Bottom	3	1	28.31	7.99	32.26	73.8	4.80	6.6	6.9
HKLR	HY/2011/03	2018-08-10	Mid-Ebb	Cloudy	CS(Mf)5	11:15	11.2	Bottom	3	2	27.95	7.97	34.93	73.2	4.78	6.5	6.5
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS5	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS5	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS5	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS5	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS5	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS5	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS(Mf)6	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS(Mf)6	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS(Mf)6	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS(Mf)6	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS7	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS7	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS7	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS7	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS8	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS8	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS8	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS8	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS(Mf)9	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS(Mf)9	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS(Mf)9	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS(Mf)9	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS10(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS10(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS10(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS10(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS10(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	IS10(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR3(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR3(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR3(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR3(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR4(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR4(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR4(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR4(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR5(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR5(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR5(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR5(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR5(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR5(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR10A(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR10A(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR10A(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR10A(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR10A(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR10A(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR10B(N2)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR10B(N2)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR10B(N2)	-	-	Middle	2	1	-	-	-	-	-	-	-

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	2018-08-10	Mid-Flood	Rainy	SR10B(N2)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR10B(N2)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	SR10B(N2)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	CS2(A)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	CS2(A)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	CS2(A)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	CS2(A)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	CS2(A)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	CS2(A)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	CS(Mf)5	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	CS(Mf)5	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	CS(Mf)5	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	CS(Mf)5	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	CS(Mf)5	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-10	Mid-Flood	Rainy	CS(Mf)5	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS5	12:59	1.0	Surface	1	1	29.08	7.99	26.13	84.7	5.59	11.1	11.0
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS5	12:59	1.0	Surface	1	2	29.06	7.99	26.03	80.5	5.35	11.4	10.0
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS5	12:59	4.2	Middle	2	1	28.95	8.02	26.46	78.5	5.23	11.2	12.2
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS5	12:59	4.2	Middle	2	2	28.94	8.01	26.64	77.0	5.08	11.2	11.4
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS5	12:59	7.4	Bottom	3	1	28.96	8.04	27.61	75.7	5.03	11.5	12.8
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS5	12:59	7.4	Bottom	3	2	28.95	8.03	27.80	75.9	5.05	11.5	12.4
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS(Mf)6	13:25	1.0	Surface	1	1	28.79	7.97	26.04	85.5	5.72	9.6	10.0
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS(Mf)6	13:25	1.0	Surface	1	2	28.84	7.98	25.85	81.4	5.44	9.3	9.2
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS(Mf)6	13:25	2.2	Bottom	3	1	28.73	7.97	26.06	77.4	5.17	9.4	9.9
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS(Mf)6	13:25	2.2	Bottom	3	2	28.78	7.99	25.83	78.3	5.24	9.5	10.3
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS7	13:36	1.0	Surface	1	1	29.13	7.99	25.99	83.6	5.56	3.9	6.6
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS7	13:37	1.0	Surface	1	2	29.13	7.99	26.03	86.8	5.77	3.9	6.9
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS7	13:37	2.3	Bottom	3	1	29.13	7.99	26.04	80.2	5.33	4.0	6.7
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS7	13:36	2.3	Bottom	3	2	29.10	7.99	25.97	81.7	5.43	4.0	7.1
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS8	14:04	1.0	Surface	1	1	29.22	8.04	26.00	87.7	5.83	3.6	4.7
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS8	14:04	1.0	Surface	1	2	29.27	8.04	25.94	82.2	5.45	3.7	5.7
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS8	14:04	2.8	Bottom	3	1	29.15	8.03	26.22	80.7	5.36	5.0	7.0
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS8	14:03	2.8	Bottom	3	2	29.05	8.03	26.28	81.3	5.40	5.2	6.9
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS(Mf)9	13:46	1.0	Surface	1	1	29.11	8.00	26.07	85.7	5.70	6.1	9.8
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS(Mf)9	13:46	1.0	Surface	1	2	29.10	8.01	26.00	82.4	5.48	6.2	8.9
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS(Mf)9	13:45	2.8	Bottom	3	1	29.08	8.01	26.05	80.5	5.35	6.1	10.0
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS(Mf)9	13:46	2.8	Bottom	3	2	29.08	8.00	26.17	79.6	5.29	5.9	10.6
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS10(N)	13:55	1.0	Surface	1	1	29.03	8.17	23.81	72.1	4.86	12.8	16.0
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS10(N)	13:54	1.0	Surface	1	2	28.98	8.18	23.98	72.0	4.85	12.7	15.9
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS10(N)	13:55	5.2	Middle	2	1	28.91	8.18	24.90	71.6	4.81	14.3	16.1
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS10(N)	13:54	5.2	Middle	2	2	28.90	8.19	24.95	71.7	4.81	14.4	16.0
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS10(N)	13:54	9.4	Bottom	3	1	28.89	8.19	25.02	71.6	4.81	15.2	16.1
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	IS10(N)	13:54	9.4	Bottom	3	2	28.89	8.19	25.00	71.6	4.81	15.4	16.5
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR3(N)	12:51	1.0	Surface	1	1	28.83	8.05	24.36	77.9	5.24	9.5	12.0
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR3(N)	12:51	1.0	Surface	1	2	28.88	8.03	24.49	75.0	5.05	9.3	11.7
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR3(N)	12:51	2.4	Bottom	3	1	28.80	8.05	24.63	74.6	5.02	9.7	14.2
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR3(N)	12:50	2.4	Bottom	3	2	28.88	8.13	24.64	75.5	5.09	9.7	14.6
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR4(N)	13:57	1.0	Surface	1	1	28.77	8.00	25.77	81.5	5.46	6.6	5.0
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR4(N)	13:57	1.0	Surface	1	2	28.78	7.99	25.61	87.4	5.84	6.5	4.3
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR4(N)	13:57	2.6	Bottom	3	1	28.73	8.00	25.94	77.6	5.20	6.6	6.8
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR4(N)	13:56	2.6	Bottom	3	2	28.76	8.01	25.93	78.9	5.28	6.6	7.5
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR5(N)	13:44	1.0	Surface	1	1	28.93	8.19	24.59	72.3	4.86	16.3	12.3
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR5(N)	13:43	1.0	Surface	1	2	28.91	8.19	24.67	72.2	4.85	16.5	11.6
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR5(N)	13:44	4.0	Middle	2	1	28.91	8.20	24.74	72.2	4.84	17.1	13.9
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR5(N)	13:43	4.0	Middle	2	2	28.90	8.20	24.90	72.1	4.84	17.4	14.3
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR5(N)	13:43	7.0	Bottom	3	1	28.90	8.21	25.12	71.9	4.82	18.0	14.1
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR5(N)	13:44	7.0	Bottom	3	2	28.92	8.20	25.06	71.9	4.83	17.7	14.5
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR10A(N)	14:39	1.0	Surface	1	1	28.80	8.12	24.64	71.1	4.79	4.5	6.9

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	2018-08-13	Mid-Ebb	Sunny	SR10A(N)	14:37	1.0	Surface	1	2	28.47	8.13	25.17	69.5	4.69	4.6	6.7
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR10A(N)	14:37	6.7	Middle	2	2	28.38	8.13	25.44	69.2	4.67	5.5	7.1
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR10A(N)	14:39	6.7	Middle	2	2	28.40	8.12	25.39	69.3	4.68	5.4	7.0
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR10A(N)	14:38	12.4	Bottom	3	1	28.22	8.13	25.74	68.6	4.64	5.3	7.6
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR10A(N)	14:37	12.4	Bottom	3	2	28.34	8.14	25.49	68.7	4.64	5.6	7.5
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR10B(N2)	14:54	1.0	Surface	1	1	28.91	8.11	24.40	71.6	4.82	5.1	5.9
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR10B(N2)	14:53	1.0	Surface	1	2	28.93	8.11	24.32	71.3	4.80	5.3	5.6
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR10B(N2)	14:53	3.8	Middle	2	1	28.70	8.12	24.45	68.2	4.60	5.5	5.8
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR10B(N2)	14:54	3.8	Middle	2	2	28.47	8.11	25.24	69.0	4.66	5.6	6.1
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR10B(N2)	14:53	6.5	Bottom	3	1	28.18	8.11	25.84	67.9	4.59	6.0	7.1
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	SR10B(N2)	14:52	6.5	Bottom	3	2	27.94	8.12	26.37	66.8	4.52	5.8	7.1
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	CS2(A)	12:50	1.0	Surface	1	1	29.18	8.26	26.85	74.3	4.91	14.2	11.5
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	CS2(A)	12:51	1.0	Surface	1	2	29.16	8.26	27.03	74.0	4.89	14.1	11.7
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	CS2(A)	12:50	3.8	Middle	2	1	28.89	8.27	27.79	73.7	4.87	15.6	14.4
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	CS2(A)	12:51	3.8	Middle	2	2	28.90	8.26	27.99	73.8	4.87	15.4	14.0
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	CS2(A)	12:50	6.6	Bottom	3	1	28.79	8.27	28.06	73.0	4.83	15.7	18.8
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	CS2(A)	12:49	6.6	Bottom	3	2	28.78	8.29	28.03	73.5	4.86	15.9	17.8
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	CS(Mf)5	14:31	1.0	Surface	1	1	28.96	8.08	26.73	77.6	5.15	8.8	10.7
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	CS(Mf)5	14:32	1.0	Surface	1	2	29.01	8.08	26.82	78.2	5.17	8.5	10.3
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	CS(Mf)5	14:31	6.0	Middle	2	1	28.47	8.08	28.29	76.8	5.02	10.1	10.9
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	CS(Mf)5	14:32	6.0	Middle	2	2	28.49	8.08	28.37	77.0	5.05	10.3	10.6
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	CS(Mf)5	14:31	11.0	Bottom	3	1	28.18	8.06	28.97	73.4	4.87	10.2	12.0
HKLR	HY/2011/03	2018-08-13	Mid-Ebb	Sunny	CS(Mf)5	14:31	11.0	Bottom	3	2	28.28	8.06	29.07	74.0	4.91	10.4	11.3
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS5	8:12	1.0	Surface	1	1	28.36	7.95	27.64	80.1	5.35	7.6	11.9
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS5	8:12	1.0	Surface	1	2	28.32	7.95	27.59	80.9	5.40	7.4	10.7
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS5	8:12	4.3	Middle	2	1	28.36	7.95	27.64	77.0	5.14	7.4	11.0
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS5	8:12	4.3	Middle	2	2	28.37	7.96	27.64	77.7	5.18	7.6	12.1
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS5	8:12	7.6	Bottom	3	1	28.36	7.95	27.64	76.1	5.07	7.7	13.9
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS5	8:11	7.6	Bottom	3	2	28.35	7.95	27.63	75.8	5.05	7.5	13.0
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS(Mf)6	8:04	1.0	Surface	1	1	28.35	7.94	27.58	79.3	5.29	9.3	13.4
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS(Mf)6	8:04	1.0	Surface	1	2	28.35	7.94	27.60	85.1	5.68	8.9	12.7
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS(Mf)6	8:04	2.2	Bottom	3	1	28.35	7.94	27.60	76.0	5.07	9.0	18.1
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS(Mf)6	8:04	2.2	Bottom	3	2	28.35	7.94	27.61	77.4	5.17	9.2	17.3
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS7	7:57	1.0	Surface	1	1	28.34	7.95	27.49	88.9	5.94	9.8	13.3
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS7	7:57	1.0	Surface	1	2	28.34	7.96	27.51	81.8	5.47	9.5	14.0
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS7	7:57	2.3	Bottom	3	1	28.34	7.95	27.51	78.9	5.27	9.5	15.6
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS7	7:57	2.3	Bottom	3	2	28.34	7.95	27.54	76.4	5.10	9.6	15.8
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS8	7:31	1.0	Surface	1	1	28.47	7.95	26.82	82.3	5.50	10.4	9.0
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS8	7:31	1.0	Surface	1	2	28.48	7.95	26.71	87.0	5.81	10.2	8.5
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS8	7:31	3.2	Bottom	3	1	28.44	7.95	27.31	77.8	5.21	10.1	9.2
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS8	7:31	3.2	Bottom	3	2	28.47	7.95	27.04	79.8	5.33	10.3	9.9
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS(Mf)9	7:49	1.0	Surface	1	1	28.42	7.96	27.59	78.9	5.26	9.0	6.1
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS(Mf)9	7:49	1.0	Surface	1	2	28.41	7.96	27.62	76.2	5.08	8.8	6.2
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS(Mf)9	7:49	2.8	Bottom	3	1	28.42	7.96	27.78	77.5	5.16	9.5	7.5
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS(Mf)9	7:49	2.8	Bottom	3	2	28.42	7.96	27.86	82.9	5.52	9.8	6.8
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS10(N)	7:43	1.0	Surface	1	1	28.38	8.08	23.18	71.9	4.91	9.9	15.9
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS10(N)	7:44	1.0	Surface	1	2	28.37	8.08	23.32	71.1	4.86	9.7	15.6
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS10(N)	7:43	5.5	Middle	2	1	28.35	8.09	23.89	70.3	4.79	10.6	16.2
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS10(N)	7:42	5.5	Middle	2	2	28.36	8.08	23.78	71.1	4.84	10.8	16.6
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS10(N)	7:42	9.9	Bottom	3	1	28.27	8.09	24.62	70.8	4.81	11.8	17.0
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	IS10(N)	7:43	9.9	Bottom	3	2	28.28	8.09	24.54	70.0	4.76	11.6	16.5
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR3(N)	8:20	1.0	Surface	1	1	28.36	7.96	27.09	78.5	5.25	9.5	10.4
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR3(N)	8:20	1.0	Surface	1	2	28.37	7.97	27.27	80.7	5.39	9.7	10.0
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR3(N)	8:20	2.5	Bottom	3	1	28.37	7.96	27.36	76.0	5.08	9.9	10.2
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR3(N)	8:20	2.5	Bottom	3	2	28.36	7.96	27.40	77.1	5.15	9.7	10.7
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR4(N)	7:38	1.0	Surface	1	1	28.47	7.93	26.17	88.9	5.96	8.4	8.0
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR4(N)	7:37	1.0	Surface	1	2	28.47	7.93	26.18	83.4	5.60	8.5	8.5
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR4(N)	7:37	2.8	Bottom	3	1	28.47	7.93	26.27	78.7	5.28	8.2	8.2

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	2018-08-13	Mid-Flood	Sunny	SR4(N)	7:37	2.8	Bottom	3	2	28.45	7.93	26.35	80.8	5.42	8.5	8.5
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR5(N)	7:57	1.0	Surface	1	1	28.36	8.08	23.41	70.3	4.80	12.5	14.7
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR5(N)	7:56	1.0	Surface	1	2	28.37	8.08	23.35	70.2	4.80	12.6	15.3
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR5(N)	7:57	4.1	Middle	2	1	28.35	8.09	23.89	69.5	4.74	13.5	16.1
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR5(N)	7:56	4.1	Middle	2	2	28.35	8.09	23.66	69.5	4.74	13.7	16.0
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR5(N)	7:56	7.2	Bottom	3	1	28.29	8.09	24.53	69.3	4.71	13.8	16.9
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR5(N)	7:56	7.2	Bottom	3	2	28.29	8.09	24.49	69.2	4.70	14.0	16.1
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR10A(N)	6:45	1.0	Surface	1	1	28.43	8.09	23.17	71.3	4.87	5.9	8.8
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR10A(N)	6:44	1.0	Surface	1	2	28.42	8.09	23.08	71.3	4.88	6.0	9.5
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR10A(N)	6:43	6.9	Middle	2	1	28.40	8.10	23.68	69.8	4.75	6.3	10.5
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR10A(N)	6:44	6.9	Middle	2	2	28.37	8.10	23.85	70.1	4.77	6.1	10.2
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR10A(N)	6:44	12.7	Bottom	3	1	28.06	8.09	25.71	68.9	4.67	6.6	10.4
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR10A(N)	6:43	12.7	Bottom	3	2	28.08	8.10	25.44	68.3	4.64	6.8	10.5
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR10B(N2)	6:27	1.0	Surface	1	1	28.44	8.10	23.23	71.9	4.91	5.9	8.3
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR10B(N2)	6:28	1.0	Surface	1	2	28.44	8.09	23.17	71.8	4.90	6.0	7.5
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR10B(N2)	6:27	4.0	Middle	2	1	28.37	8.10	23.90	70.8	4.82	6.3	8.2
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR10B(N2)	6:26	4.0	Middle	2	2	28.40	8.11	23.61	70.9	4.84	6.4	9.1
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR10B(N2)	6:27	7.0	Bottom	3	1	28.11	8.10	25.39	69.9	4.74	6.9	9.5
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	SR10B(N2)	6:26	7.0	Bottom	3	2	28.13	8.11	25.14	70.1	4.76	7.1	8.3
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	CS2(A)	8:51	1.0	Surface	1	1	28.77	8.24	26.37	73.9	4.93	10.8	16.3
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	CS2(A)	8:49	1.0	Surface	1	2	28.75	8.24	26.32	73.9	4.94	11.0	17.1
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	CS2(A)	8:50	4.1	Middle	2	1	28.76	8.25	26.94	72.0	4.79	12.3	17.4
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	CS2(A)	8:49	4.1	Middle	2	2	28.76	8.25	26.92	71.5	4.76	12.2	16.6
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	CS2(A)	8:48	7.1	Bottom	3	1	28.76	8.25	27.01	71.1	4.73	14.0	17.6
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	CS2(A)	8:50	7.1	Bottom	3	2	28.76	8.25	27.01	71.2	4.73	14.2	19.0
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	CS(Mf)5	6:48	1.0	Surface	1	1	28.46	7.94	26.68	76.4	5.09	8.5	10.5
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	CS(Mf)5	6:47	1.0	Surface	1	2	28.49	7.93	26.99	76.9	5.11	8.7	9.3
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	CS(Mf)5	6:48	6.2	Middle	2	1	28.15	7.95	27.74	75.7	5.03	8.5	11.3
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	CS(Mf)5	6:47	6.2	Middle	2	2	28.19	7.93	28.46	75.4	5.02	8.8	11.6
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	CS(Mf)5	6:47	11.3	Bottom	3	1	27.92	7.93	31.48	73.8	4.93	8.8	12.1
HKLR	HY/2011/03	2018-08-13	Mid-Flood	Sunny	CS(Mf)5	6:48	11.3	Bottom	3	2	27.96	7.94	30.31	72.1	4.83	8.9	12.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS5	14:41	1.0	Surface	1	1	29.17	8.08	27.55	88.3	5.81	8.3	7.5
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS5	14:41	1.0	Surface	1	2	29.14	8.09	27.75	83.3	5.47	8.2	8.2
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS5	14:41	4.4	Middle	2	1	29.04	8.10	28.29	82.6	5.43	8.5	7.3
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS5	14:41	4.4	Middle	2	2	29.07	8.09	27.63	85.3	5.62	8.5	8.0
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS5	14:41	7.8	Bottom	3	1	29.00	8.11	28.69	82.3	5.42	8.4	9.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS5	14:40	7.8	Bottom	3	2	28.98	8.12	28.17	84.2	5.55	8.3	8.7
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS(Mf)6	14:49	1.0	Surface	1	1	29.03	8.04	27.12	87.8	5.81	9.0	9.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS(Mf)6	14:49	1.0	Surface	1	2	29.05	8.04	27.18	94.5	6.25	9.3	9.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS(Mf)6	14:49	2.1	Bottom	3	1	28.95	8.06	27.72	80.9	5.35	10.4	9.7
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS(Mf)6	14:48	2.1	Bottom	3	2	28.91	8.07	27.67	82.5	5.45	10.2	10.4
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS7	14:58	1.0	Surface	1	1	29.15	8.02	26.54	92.5	6.13	4.3	7.6
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS7	14:57	1.0	Surface	1	2	29.14	8.03	26.50	88.0	5.83	4.4	7.4
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS7	14:57	2.1	Bottom	3	1	29.11	8.03	26.47	86.1	5.70	4.5	8.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS7	14:58	2.1	Bottom	3	2	29.16	8.03	26.53	84.4	5.59	4.3	8.5
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS8	15:25	1.0	Surface	1	1	29.09	8.06	26.94	92.0	6.09	6.9	6.9
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS8	15:25	1.0	Surface	1	2	29.04	8.06	26.96	88.0	5.83	6.9	6.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS8	15:25	3.0	Bottom	3	1	29.02	8.05	27.08	84.5	5.59	6.8	8.6
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS8	15:25	3.0	Bottom	3	2	28.98	8.06	27.06	85.6	5.67	6.9	8.4
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS(Mf)9	15:06	1.0	Surface	1	1	29.12	8.06	26.77	90.3	5.98	4.4	8.2
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS(Mf)9	15:07	1.0	Surface	1	2	29.10	8.06	26.81	93.8	6.21	4.4	8.8
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS(Mf)9	15:06	2.6	Bottom	3	1	29.08	8.06	26.79	88.1	5.83	4.5	9.4
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS(Mf)9	15:06	2.6	Bottom	3	2	29.07	8.06	26.86	86.8	5.75	4.4	9.7
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS10(N)	15:13	1.0	Surface	1	1	28.96	8.15	23.54	77.3	5.23	8.0	6.0
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS10(N)	15:14	1.0	Surface	1	2	28.96	8.16	23.60	77.1	5.21	7.8	7.3
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS10(N)	15:14	5.2	Middle	2	1	28.85	8.20	24.71	76.3	5.13	8.9	8.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS10(N)	15:13	5.2	Middle	2	2	28.86	8.20	24.94	76.4	5.13	9.1	9.0
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	IS10(N)	15:12	9.3	Bottom	3	1	28.81	8.21	26.17	76.4	5.10	10.7	8.4

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	2018-08-15	Mid-Ebb	Sunny	IS10(N)	15:13	9.3	Bottom	3	2	28.82	8.20	26.08	76.3	5.10	10.5	8.7
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR3(N)	14:33	1.0	Surface	1	1	29.12	8.03	25.77	81.9	5.46	8.5	8.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR3(N)	14:32	1.0	Surface	1	2	29.14	8.03	25.53	80.6	5.37	8.6	7.5
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR3(N)	14:32	2.5	Bottom	3	1	28.98	8.03	26.00	78.8	5.25	8.5	8.4
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR3(N)	14:32	2.5	Bottom	3	2	28.91	8.05	25.98	79.0	5.26	8.5	7.9
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR4(N)	15:19	1.0	Surface	1	1	29.19	8.04	26.08	90.6	6.02	8.4	8.7
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR4(N)	15:19	1.0	Surface	1	2	29.17	8.04	25.87	86.0	5.71	8.2	8.3
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR4(N)	15:18	2.7	Bottom	3	1	28.96	8.04	26.60	82.1	5.44	8.8	8.6
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR4(N)	15:19	2.7	Bottom	3	2	29.02	8.03	26.90	81.7	5.42	8.8	8.5
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR5(N)	15:05	1.0	Surface	1	1	28.97	8.16	23.49	77.6	5.24	8.4	4.3
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR5(N)	15:04	1.0	Surface	1	2	28.93	8.18	23.60	77.8	5.26	8.6	3.8
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR5(N)	15:04	4.0	Middle	2	1	28.86	8.21	24.38	77.5	5.22	9.7	4.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR5(N)	15:04	4.0	Middle	2	2	28.88	8.20	24.35	77.2	5.16	9.6	4.3
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR5(N)	15:04	6.9	Bottom	3	1	28.83	8.20	25.98	77.0	5.19	10.1	4.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR5(N)	15:03	6.9	Bottom	3	2	28.81	8.23	25.96	77.5	5.18	10.3	3.8
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR10A(N)	15:54	1.0	Surface	1	1	28.73	8.16	25.35	73.4	4.93	3.1	6.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR10A(N)	15:55	1.0	Surface	1	2	28.62	8.15	25.71	73.7	4.95	3.0	5.6
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR10A(N)	15:53	6.7	Middle	2	1	28.34	8.17	26.61	72.0	4.83	4.5	6.5
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR10A(N)	15:55	6.7	Middle	2	2	28.58	8.16	25.83	72.9	4.89	4.3	6.2
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR10A(N)	15:55	12.4	Bottom	3	1	28.46	8.16	26.19	69.6	4.67	5.0	7.4
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR10A(N)	15:53	12.4	Bottom	3	2	28.15	8.17	27.10	68.9	4.63	5.0	7.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR10B(N2)	16:11	1.0	Surface	1	1	28.78	8.14	25.03	75.6	5.08	3.4	6.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR10B(N2)	16:12	1.0	Surface	1	2	28.82	8.14	24.94	75.4	5.06	3.4	5.9
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR10B(N2)	16:11	3.7	Middle	2	1	28.57	8.15	25.63	72.4	4.87	4.4	6.4
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR10B(N2)	16:12	3.7	Middle	2	2	28.56	8.14	25.74	72.3	4.86	4.2	6.6
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR10B(N2)	16:12	6.4	Bottom	3	1	28.25	8.15	26.82	71.0	4.77	4.7	7.8
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	SR10B(N2)	16:10	6.4	Bottom	3	2	28.39	8.15	26.36	71.6	4.81	4.8	7.0
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	CS2(A)	14:18	1.0	Surface	1	1	29.00	8.21	25.06	79.4	5.32	5.0	4.9
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	CS2(A)	14:19	1.0	Surface	1	2	29.00	8.22	26.01	79.5	5.29	4.9	5.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	CS2(A)	14:18	3.7	Middle	2	1	28.80	8.21	27.63	78.1	5.17	6.4	4.8
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	CS2(A)	14:19	3.7	Middle	2	2	28.79	8.24	27.71	78.1	5.17	6.2	4.9
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	CS2(A)	14:17	6.4	Bottom	3	1	28.77	8.20	28.01	77.9	5.15	7.0	4.9
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	CS2(A)	14:18	6.4	Bottom	3	2	28.77	8.24	27.98	78.1	5.16	6.8	5.2
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	CS(Mf)5	15:48	1.0	Surface	1	1	28.90	8.07	27.56	82.3	5.44	10.4	9.7
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	CS(Mf)5	15:49	1.0	Surface	1	2	28.76	8.07	27.73	84.3	5.56	10.3	10.0
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	CS(Mf)5	15:48	6.0	Middle	2	1	28.43	8.06	29.09	76.0	5.03	10.5	10.1
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	CS(Mf)5	15:49	6.0	Middle	2	2	28.43	8.06	29.20	76.9	5.08	10.5	10.5
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	CS(Mf)5	15:49	11.0	Bottom	3	1	28.40	8.06	29.59	73.2	4.83	10.4	11.8
HKLR	HY/2011/03	2018-08-15	Mid-Ebb	Sunny	CS(Mf)5	15:48	11.0	Bottom	3	2	28.34	8.06	29.62	73.9	4.87	10.4	11.1
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS5	9:38	1.0	Surface	1	1	28.79	8.02	28.40	79.8	5.27	8.3	10.1
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS5	9:37	1.0	Surface	1	2	28.78	8.01	28.34	86.3	5.68	8.5	10.2
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS5	9:38	4.4	Middle	2	1	28.80	8.03	28.53	78.2	5.15	8.4	10.3
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS5	9:37	4.4	Middle	2	2	28.81	8.04	28.62	82.8	5.45	8.4	9.9
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS5	9:37	7.7	Bottom	3	1	28.81	8.04	28.73	78.4	5.16	8.5	12.2
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS5	9:37	7.7	Bottom	3	2	28.80	8.04	28.65	77.5	5.12	8.5	12.2
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS(Mf)6	9:26	1.0	Surface	1	1	28.76	8.02	28.22	86.3	5.70	12.3	18.1
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS(Mf)6	9:25	1.0	Surface	1	2	28.77	8.03	28.19	86.0	5.66	12.4	17.8
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS(Mf)6	9:26	2.1	Bottom	3	1	28.77	8.03	28.23	79.9	5.28	12.2	18.4
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS(Mf)6	9:25	2.1	Bottom	3	2	28.75	8.04	28.13	82.8	5.47	12.2	18.9
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS7	9:16	1.0	Surface	1	1	28.75	8.04	28.32	85.0	5.62	7.4	12.9
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS7	9:16	1.0	Surface	1	2	28.74	8.03	28.26	82.9	5.48	7.5	12.6
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS7	9:16	2.1	Bottom	3	1	28.72	8.03	28.27	82.2	5.42	7.5	13.4
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS7	9:16	2.1	Bottom	3	2	28.75	8.03	28.34	81.4	5.38	7.4	13.9
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS8	8:50	1.0	Surface	1	1	28.67	8.03	28.24	79.6	5.27	10.3	5.7
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS8	8:51	1.0	Surface	1	2	28.68	8.03	28.29	85.0	5.62	10.4	5.8
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS8	8:51	3.3	Bottom	3	1	28.64	8.04	28.67	76.7	5.07	10.5	6.8
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS8	8:50	3.3	Bottom	3	2	28.66	8.04	28.53	78.1	5.16	10.2	7.0
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS(Mf)9	9:08	1.0	Surface	1	1	28.66	8.04	28.33	87.9	5.81	8.4	7.9

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	2018-08-15	Mid-Flood	Cloudy	IS(Mf)9	9:08	1.0	Surface	1	2	28.66	8.04	28.46	83.2	5.50	8.5	8.0
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS(Mf)9	9:08	2.7	Bottom	3	1	28.66	8.04	28.45	80.4	5.32	8.8	11.3
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS(Mf)9	9:08	2.7	Bottom	3	2	28.65	8.04	28.53	81.3	5.37	8.9	10.8
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS10(N)	9:02	1.0	Surface	1	1	28.62	8.10	23.37	73.3	4.99	9.9	10.4
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS10(N)	9:01	1.0	Surface	1	2	28.60	8.11	23.78	72.9	4.95	9.8	10.3
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS10(N)	9:02	5.4	Middle	2	1	28.57	8.12	24.26	71.7	4.86	10.6	10.7
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS10(N)	9:01	5.4	Middle	2	2	28.57	8.12	24.09	71.9	4.88	10.5	10.5
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS10(N)	9:01	9.7	Bottom	3	1	28.52	8.13	24.94	71.7	4.84	11.4	11.6
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	IS10(N)	9:02	9.7	Bottom	3	2	28.51	8.13	25.01	71.6	4.83	11.3	11.8
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR3(N)	9:51	1.0	Surface	1	1	28.80	8.04	28.46	84.2	5.55	11.7	8.2
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR3(N)	9:51	1.0	Surface	1	2	28.80	8.04	28.54	88.7	5.85	11.2	8.6
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR3(N)	9:51	2.4	Bottom	3	1	28.80	8.04	28.45	81.8	5.39	11.3	8.4
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR3(N)	9:51	2.4	Bottom	3	2	28.80	8.04	28.57	80.5	5.30	11.5	9.3
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR4(N)	8:58	1.0	Surface	1	1	28.73	8.04	28.26	85.0	5.60	8.3	6.9
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR4(N)	8:58	1.0	Surface	1	2	28.71	8.04	28.16	79.8	5.28	8.2	7.0
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR4(N)	8:58	2.9	Bottom	3	1	28.71	8.03	28.54	76.5	5.05	8.4	7.1
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR4(N)	8:58	2.9	Bottom	3	2	28.69	8.03	28.94	78.1	5.15	8.5	7.2
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR5(N)	9:17	1.0	Surface	1	1	28.62	8.11	23.51	72.3	4.92	10.5	10.0
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR5(N)	9:16	1.0	Surface	1	2	28.62	8.10	23.45	72.5	4.93	10.3	9.6
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR5(N)	9:16	4.0	Middle	2	1	28.57	8.12	24.22	71.1	4.82	11.3	9.6
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR5(N)	9:15	4.0	Middle	2	2	28.58	8.12	24.15	70.8	4.80	11.5	10.1
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR5(N)	9:16	7.0	Bottom	3	1	28.52	8.13	24.97	70.5	4.76	11.8	12.4
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR5(N)	9:15	7.0	Bottom	3	2	28.52	8.13	25.00	70.1	4.73	12.0	12.6
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR10A(N)	8:16	1.0	Surface	1	1	28.46	8.09	24.47	74.1	5.02	3.0	8.2
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR10A(N)	8:15	1.0	Surface	1	2	28.47	8.08	24.45	73.8	5.00	3.2	8.4
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR10A(N)	8:15	6.9	Middle	2	1	28.44	8.09	24.60	73.3	4.97	3.6	8.2
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR10A(N)	8:16	6.9	Middle	2	2	28.44	8.09	24.49	73.5	4.98	3.7	7.8
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR10A(N)	8:15	12.7	Bottom	3	1	28.42	8.08	24.82	73.1	4.95	3.9	8.2
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR10A(N)	8:16	12.7	Bottom	3	2	28.41	8.09	24.74	73.1	4.95	3.8	9.0
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR10B(N2)	8:03	1.0	Surface	1	1	28.48	8.08	24.45	74.2	5.03	3.2	6.0
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR10B(N2)	8:02	1.0	Surface	1	2	28.49	8.08	24.48	74.2	5.03	3.4	5.3
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR10B(N2)	8:02	4.1	Middle	2	1	28.46	8.08	24.49	74.0	5.01	3.7	5.8
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR10B(N2)	8:03	4.1	Middle	2	2	28.45	8.08	24.51	74.2	5.02	3.7	6.5
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR10B(N2)	8:02	7.1	Bottom	3	1	28.45	8.08	24.53	73.8	5.00	4.2	6.7
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	SR10B(N2)	8:03	7.1	Bottom	3	2	28.44	8.08	24.56	74.0	5.02	4.3	7.0
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	CS2(A)	10:06	1.0	Surface	1	1	28.73	8.22	24.63	77.3	5.21	8.9	4.2
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	CS2(A)	10:05	1.0	Surface	1	2	28.72	8.22	24.55	77.7	5.24	8.7	5.4
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	CS2(A)	10:04	3.9	Middle	2	1	28.83	8.26	26.50	76.0	5.06	9.9	5.1
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	CS2(A)	10:05	3.9	Middle	2	2	28.83	8.25	26.32	76.2	5.08	9.8	4.7
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	CS2(A)	10:05	6.7	Bottom	3	1	28.84	8.27	27.89	76.1	5.03	10.4	4.9
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	CS2(A)	10:04	6.7	Bottom	3	2	28.84	8.27	27.87	76.0	5.02	10.2	5.1
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	CS(Mf)5	8:26	1.0	Surface	1	1	28.76	8.03	28.84	81.4	5.29	6.6	8.1
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	CS(Mf)5	8:27	1.0	Surface	1	2	28.76	8.04	28.39	80.9	5.25	6.5	7.0
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	CS(Mf)5	8:25	6.1	Middle	2	1	28.54	8.02	30.34	76.0	5.00	8.7	7.9
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	CS(Mf)5	8:26	6.1	Middle	2	2	28.58	8.03	29.63	76.4	5.02	8.5	8.0
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	CS(Mf)5	8:26	11.1	Bottom	3	1	28.28	8.04	31.63	75.2	4.96	8.8	7.2
HKLR	HY/2011/03	2018-08-15	Mid-Flood	Cloudy	CS(Mf)5	8:25	11.1	Bottom	3	2	28.30	8.03	32.74	74.2	4.86	8.9	7.7
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS5	15:59	1.0	Surface	1	1	28.93	8.03	24.98	82.9	5.57	6.5	6.6
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS5	16:00	1.0	Surface	1	2	28.92	8.03	25.11	82.0	5.50	6.5	6.8
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS5	16:00	4.1	Middle	2	1	28.93	8.02	25.74	79.9	5.35	7.2	8.3
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS5	15:59	4.1	Middle	2	2	28.93	8.01	25.38	82.8	5.54	7.5	8.0
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS5	16:00	7.2	Bottom	3	1	28.93	8.01	26.66	79.8	5.33	7.6	9.2
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS5	15:59	7.2	Bottom	3	2	28.95	8.00	26.56	81.3	5.40	7.5	8.8
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS(Mf)6	16:08	1.0	Surface	1	1	28.95	8.03	26.62	92.6	6.15	6.9	7.1
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS(Mf)6	16:07	1.0	Surface	1	2	28.94	8.03	26.60	86.6	5.76	7.2	7.7
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS(Mf)6	16:07	2.1	Bottom	3	1	28.88	8.02	26.92	80.8	5.36	7.8	7.2
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS(Mf)6	16:07	2.1	Bottom	3	2	28.90	8.02	26.92	80.6	5.36	7.9	8.0
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS7	16:15	1.0	Surface	1	1	28.79	8.04	26.17	88.1	5.87	3.2	4.4

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	2018-08-17	Mid-Ebb	Cloudy	IS7	16:15	1.0	Surface	1	2	28.80	8.04	26.01	84.7	5.66	3.2	4.0
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS7	16:15	2.1	Bottom	3	1	28.80	8.03	26.39	79.7	5.32	4.0	6.3
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS7	16:15	2.1	Bottom	3	2	28.79	8.04	26.75	81.4	5.43	4.1	7.0
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS8	16:42	1.0	Surface	1	1	28.82	8.06	26.42	87.1	5.80	5.8	4.9
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS8	16:43	1.0	Surface	1	2	28.83	8.06	26.22	92.1	6.10	5.8	5.3
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS8	16:42	2.8	Bottom	3	1	28.78	8.04	27.72	83.7	5.54	5.8	11.3
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS8	16:43	2.8	Bottom	3	2	28.80	8.03	27.75	82.2	5.49	5.7	10.8
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS(Mf)9	16:23	1.0	Surface	1	1	28.88	8.06	26.79	93.4	6.20	3.5	3.9
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS(Mf)9	16:22	1.0	Surface	1	2	28.88	8.08	26.38	87.9	5.86	3.6	4.4
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS(Mf)9	16:22	2.7	Bottom	3	1	28.86	8.07	27.16	84.6	5.61	3.7	5.6
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS(Mf)9	16:22	2.7	Bottom	3	2	28.87	8.05	27.21	82.7	5.50	3.5	5.2
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS10(N)	17:13	1.0	Surface	1	1	28.85	8.16	20.65	78.5	5.45	5.7	5.7
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS10(N)	17:14	1.0	Surface	1	2	28.85	8.17	20.75	78.0	5.41	5.5	6.4
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS10(N)	17:13	5.3	Middle	2	1	28.84	8.17	22.31	76.0	5.23	6.5	6.4
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS10(N)	17:14	5.3	Middle	2	2	28.84	8.16	22.34	75.5	5.20	6.7	6.2
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS10(N)	17:13	9.5	Bottom	3	1	28.68	8.13	24.00	74.7	5.11	7.2	7.1
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	IS10(N)	17:12	9.5	Bottom	3	2	28.69	8.14	23.85	74.2	5.08	7.1	7.0
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR3(N)	15:52	1.0	Surface	1	1	28.92	7.97	24.70	87.1	5.79	5.6	7.2
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR3(N)	15:52	1.0	Surface	1	2	28.92	7.96	24.67	88.5	5.93	5.4	6.6
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR3(N)	15:52	2.4	Bottom	3	1	28.93	7.96	24.96	81.1	5.45	5.6	9.3
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR3(N)	15:51	2.4	Bottom	3	2	28.94	7.94	24.96	82.1	5.50	5.5	9.6
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR4(N)	16:34	1.0	Surface	1	1	28.80	8.04	25.94	78.4	5.24	4.9	4.2
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR4(N)	16:34	1.0	Surface	1	2	28.83	8.04	25.99	83.0	5.54	5.1	4.1
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR4(N)	16:34	2.7	Bottom	3	1	28.81	8.02	26.20	77.4	5.14	5.7	5.3
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR4(N)	16:34	2.7	Bottom	3	2	28.83	8.00	27.11	75.0	5.01	5.5	5.7
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR5(N)	17:02	1.0	Surface	1	1	28.84	8.16	20.72	80.3	5.57	5.9	4.7
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR5(N)	17:03	1.0	Surface	1	2	28.85	8.16	20.81	81.0	5.61	5.7	5.2
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR5(N)	17:02	3.9	Middle	2	1	28.83	8.18	22.22	75.5	5.20	6.3	6.1
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR5(N)	17:03	3.9	Middle	2	2	28.85	8.18	22.09	75.8	5.22	6.4	5.8
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR5(N)	17:03	6.8	Bottom	3	1	28.73	8.17	23.56	73.8	5.05	6.9	6.8
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR5(N)	17:02	6.8	Bottom	3	2	28.74	8.18	23.40	74.9	5.13	7.0	6.4
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR10A(N)	18:02	1.0	Surface	1	1	28.70	8.18	23.89	77.0	5.30	3.4	3.6
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR10A(N)	18:01	1.0	Surface	1	2	28.70	8.18	24.03	77.2	5.30	3.6	3.9
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR10A(N)	18:01	6.8	Middle	2	1	28.59	8.18	24.80	74.7	5.12	3.6	5.4
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR10A(N)	18:02	6.8	Middle	2	2	28.59	8.18	24.92	75.3	5.16	3.5	5.5
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR10A(N)	18:02	12.5	Bottom	3	1	28.53	8.17	25.48	74.6	5.10	3.6	7.3
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR10A(N)	18:01	12.5	Bottom	3	2	28.44	8.18	26.05	73.9	5.05	3.8	7.1
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR10B(N2)	18:10	1.0	Surface	1	1	28.70	8.18	24.00	78.3	5.35	2.4	5.7
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR10B(N2)	18:11	1.0	Surface	1	2	28.72	8.18	23.68	78.3	5.36	2.3	6.6
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR10B(N2)	18:11	3.8	Middle	2	1	28.64	8.18	24.60	76.2	5.19	2.7	6.4
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR10B(N2)	18:10	3.8	Middle	2	2	28.68	8.18	24.20	76.3	5.21	2.6	5.6
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR10B(N2)	18:11	6.6	Bottom	3	1	28.56	8.17	25.23	75.6	5.14	3.0	6.1
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	SR10B(N2)	18:10	6.6	Bottom	3	2	28.56	8.17	25.22	74.9	5.10	2.8	6.0
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	CS2(A)	16:05	1.0	Surface	1	1	28.87	8.25	21.31	79.5	5.34	5.5	5.2
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	CS2(A)	16:04	1.0	Surface	1	2	28.84	8.27	21.62	79.2	5.29	5.8	5.1
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	CS2(A)	16:04	3.8	Middle	2	1	28.80	8.27	27.47	78.9	5.26	6.8	4.9
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	CS2(A)	16:05	3.8	Middle	2	2	28.81	8.27	26.77	79.2	5.31	6.6	5.4
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	CS2(A)	16:03	6.6	Bottom	3	1	28.76	8.27	28.47	78.7	5.24	7.1	5.9
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	CS2(A)	16:04	6.6	Bottom	3	2	28.75	8.27	28.50	78.7	5.25	7.2	6.1
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	CS(Mf)5	17:05	1.0	Surface	1	1	28.67	8.09	28.28	78.7	5.12	5.6	5.6
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	CS(Mf)5	17:06	1.0	Surface	1	2	28.76	8.09	28.08	79.6	5.17	5.5	5.1
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	CS(Mf)5	17:05	6.1	Middle	2	1	28.36	8.09	30.47	78.0	5.05	5.9	6.0
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	CS(Mf)5	17:06	6.1	Middle	2	2	28.37	8.09	30.54	78.5	5.08	5.7	6.9
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	CS(Mf)5	17:06	11.2	Bottom	3	1	28.38	8.09	32.16	74.4	4.88	5.8	6.1
HKLR	HY/2011/03	2018-08-17	Mid-Ebb	Cloudy	CS(Mf)5	17:05	11.2	Bottom	3	2	28.34	8.10	32.25	73.9	4.85	6.0	7.0
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	ISS	11:39	1.0	Surface	1	1	28.80	8.05	27.56	85.2	5.62	8.9	6.6
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	ISS	11:39	1.0	Surface	1	2	28.84	8.04	27.75	79.5	5.25	8.6	7.2
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	ISS	11:38	4.4	Middle	2	1	28.88	8.04	28.00	82.2	5.42	8.8	7.7

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	2018-08-17	Mid-Flood	Cloudy	IS5	11:39	4.4	Middle	2	2	28.87	8.04	27.88	79.1	5.23	8.5	7.5
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS5	11:38	7.7	Bottom	3	1	28.88	8.04	28.08	80.8	5.35	8.7	9.9
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS5	11:39	7.7	Bottom	3	2	28.87	8.04	28.04	78.9	5.22	8.5	10.7
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS(Mf)6	11:30	1.0	Surface	1	1	28.78	8.04	27.66	90.4	5.98	6.5	6.4
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS(Mf)6	11:30	1.0	Surface	1	2	28.77	8.04	27.69	89.4	5.92	6.9	5.8
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS(Mf)6	11:30	2.2	Bottom	3	1	28.82	8.03	27.87	80.2	5.30	6.9	6.6
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS(Mf)6	11:30	2.2	Bottom	3	2	28.81	8.03	27.86	78.6	5.21	6.9	5.9
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS7	11:22	1.0	Surface	1	1	28.76	8.04	27.78	82.5	5.47	5.6	4.2
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS7	11:22	1.0	Surface	1	2	28.74	8.04	27.74	82.6	5.47	5.6	4.3
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS7	11:21	2.1	Bottom	3	1	28.79	8.03	27.79	81.0	5.36	5.6	4.6
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS7	11:22	2.1	Bottom	3	2	28.79	8.03	27.85	79.5	5.27	5.6	4.9
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS8	10:54	1.0	Surface	1	1	28.82	8.07	26.58	83.2	5.54	7.0	4.4
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS8	10:54	1.0	Surface	1	2	28.82	8.07	26.58	88.3	5.84	7.2	4.7
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS8	10:54	3.2	Bottom	3	1	28.82	8.03	27.73	80.4	5.32	7.5	4.9
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS8	10:54	3.2	Bottom	3	2	28.82	8.04	27.76	78.6	5.23	7.5	5.4
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS(Mf)9	11:13	1.0	Surface	1	1	28.80	8.04	27.72	88.5	5.84	8.1	5.3
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS(Mf)9	11:13	1.0	Surface	1	2	28.82	8.03	27.78	83.2	5.50	8.0	4.2
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS(Mf)9	11:13	2.8	Bottom	3	1	28.85	8.01	28.15	80.7	5.33	8.5	5.8
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS(Mf)9	11:13	2.8	Bottom	3	2	28.84	8.02	28.10	78.8	5.22	8.7	5.7
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS10(N)	11:14	1.0	Surface	1	1	28.72	8.13	18.97	81.8	5.74	7.7	7.7
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS10(N)	11:15	1.0	Surface	1	2	28.73	8.14	19.03	81.5	5.72	7.8	7.3
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS10(N)	11:14	5.5	Middle	2	1	28.80	8.17	19.21	80.4	5.63	8.6	8.4
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS10(N)	11:15	5.5	Middle	2	2	28.79	8.17	20.17	80.4	5.60	8.7	8.9
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS10(N)	11:14	9.9	Bottom	3	1	28.81	8.18	22.60	80.4	5.52	9.7	12.3
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	IS10(N)	11:15	9.9	Bottom	3	2	28.81	8.18	22.59	80.6	5.54	9.6	12.8
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR3(N)	11:48	1.0	Surface	1	1	28.83	8.05	27.54	87.5	5.80	8.8	12.3
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR3(N)	11:48	1.0	Surface	1	2	28.83	8.05	27.63	85.8	5.68	9.1	12.2
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR3(N)	11:48	2.4	Bottom	3	1	28.81	8.06	27.82	83.1	5.51	8.8	13.5
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR3(N)	11:48	2.4	Bottom	3	2	28.83	8.05	27.69	82.5	5.46	9.1	13.1
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR4(N)	11:02	1.0	Surface	1	1	28.77	8.07	26.11	90.7	6.06	5.0	7.3
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR4(N)	11:02	1.0	Surface	1	2	28.77	8.07	26.03	85.3	5.70	5.2	8.0
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR4(N)	11:02	2.8	Bottom	3	1	28.78	8.06	26.27	81.9	5.47	5.5	8.8
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR4(N)	11:02	2.8	Bottom	3	2	28.77	8.06	26.12	83.4	5.57	5.5	8.6
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR5(N)	11:33	1.0	Surface	1	1	28.74	8.14	19.01	81.5	5.71	8.6	6.9
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR5(N)	11:34	1.0	Surface	1	2	28.75	8.14	19.15	81.4	5.70	8.2	7.3
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR5(N)	11:33	4.1	Middle	2	1	28.81	8.18	21.24	80.3	5.56	8.6	7.7
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR5(N)	11:34	4.1	Middle	2	2	28.80	8.19	19.80	80.2	5.59	8.8	8.2
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR5(N)	11:33	7.2	Bottom	3	1	28.82	8.18	22.62	80.8	5.55	9.5	9.1
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR5(N)	11:34	7.2	Bottom	3	2	28.82	8.18	22.95	80.8	5.54	9.4	10.2
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR10A(N)	10:30	1.0	Surface	1	1	28.70	8.13	23.67	76.8	5.32	2.7	4.7
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR10A(N)	10:29	1.0	Surface	1	2	28.70	8.12	23.67	76.9	5.33	2.6	5.1
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR10A(N)	10:29	6.9	Middle	2	1	28.56	8.12	24.83	74.5	5.15	3.2	4.6
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR10A(N)	10:30	6.9	Middle	2	2	28.62	8.13	24.34	74.7	5.17	3.4	4.2
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR10A(N)	10:28	12.7	Bottom	3	1	28.43	8.12	26.08	73.5	5.05	3.9	4.8
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR10A(N)	10:29	12.7	Bottom	3	2	28.45	8.12	25.93	73.6	5.07	3.8	5.1
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR10B(N2)	10:08	1.0	Surface	1	1	28.72	8.09	23.37	76.0	5.21	2.9	2.9
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR10B(N2)	10:07	1.0	Surface	1	2	28.71	8.08	23.34	76.2	5.22	2.8	3.0
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR10B(N2)	10:08	4.0	Middle	2	1	28.68	8.09	23.80	75.1	5.14	3.1	3.0
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR10B(N2)	10:07	4.0	Middle	2	2	28.69	8.08	23.80	75.3	5.15	3.1	3.1
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR10B(N2)	10:07	7.0	Bottom	3	1	28.57	8.09	24.80	74.2	5.06	4.1	3.3
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	SR10B(N2)	10:07	7.0	Bottom	3	2	28.59	8.08	24.52	74.4	5.08	4.0	3.6
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	CS2(A)	12:25	1.0	Surface	1	1	28.76	8.16	19.37	80.8	5.65	8.2	5.9
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	CS2(A)	12:25	1.0	Surface	1	2	28.76	8.16	19.32	80.9	5.66	8.2	6.4
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	CS2(A)	12:25	4.0	Middle	2	1	28.79	8.19	20.91	80.5	5.49	9.4	8.1
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	CS2(A)	12:25	4.0	Middle	2	2	28.81	8.20	19.57	80.4	5.50	9.2	8.6
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	CS2(A)	12:25	7.0	Bottom	3	1	28.81	8.18	24.07	80.0	5.55	10.6	8.9
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	CS2(A)	12:25	7.0	Bottom	3	2	28.82	8.20	23.52	79.9	5.58	10.5	8.8
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	CS(Mf)5	10:27	1.0	Surface	1	1	28.82	8.05	26.75	78.4	5.09	5.3	6.6

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	2018-08-17	Mid-Flood	Cloudy	CS(Mf)5	10:28	1.0	Surface	1	2	28.84	8.06	26.58	76.2	5.07	5.1	6.5
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	CS(Mf)5	10:27	6.2	Middle	2	1	28.73	8.04	28.33	75.6	5.03	8.1	6.3
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	CS(Mf)5	10:28	6.2	Middle	2	2	28.63	8.06	28.01	75.4	5.02	8.2	6.5
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	CS(Mf)5	10:28	11.4	Bottom	3	1	28.51	8.05	31.47	74.3	4.84	8.1	7.0
HKLR	HY/2011/03	2018-08-17	Mid-Flood	Cloudy	CS(Mf)5	10:27	11.4	Bottom	3	2	28.42	8.03	32.30	74.0	4.89	8.5	7.4
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS5	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS5	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS5	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS5	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS5	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS5	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS(Mf)6	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS(Mf)6	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS(Mf)6	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS(Mf)6	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS7	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS7	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS7	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS7	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS8	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS8	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS8	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS8	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS(Mf)9	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS(Mf)9	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS(Mf)9	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS(Mf)9	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS10(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS10(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS10(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS10(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS10(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	IS10(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR3(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR3(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR3(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR3(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR4(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR4(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR4(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR4(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR5(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR5(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR5(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR5(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR5(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR5(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR10A(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR10A(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR10A(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR10A(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR10A(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR10A(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR10B(N2)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR10B(N2)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR10B(N2)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR10B(N2)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	SR10B(N2)	-	-	Bottom	3	1	-	-	-	-	-	-	-

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	2018-08-20	Mid-Ebb	Rainy	SR10B(N2)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	CS2(A)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	CS2(A)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	CS2(A)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	CS2(A)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	CS2(A)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	CS2(A)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	CS(Mf)5	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	CS(Mf)5	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	CS(Mf)5	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	CS(Mf)5	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	CS(Mf)5	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Ebb	Rainy	CS(Mf)5	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS5	14:59	1.0	Surface	1	1	29.63	8.20	19.45	76.4	5.22	3.5	2.6
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS5	14:58	1.0	Surface	1	2	29.63	8.20	19.30	82.9	5.65	3.5	2.5
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS5	14:58	4.2	Middle	2	1	28.97	8.11	24.98	75.5	5.01	7.3	3.4
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS5	14:58	4.2	Middle	2	2	28.94	8.09	25.14	75.5	5.16	7.3	3.0
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS5	14:58	7.4	Bottom	3	1	29.11	8.12	26.33	74.1	4.85	7.5	3.6
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS5	14:57	7.4	Bottom	3	2	28.82	8.15	26.56	75.3	5.00	7.5	4.1
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS(Mf)6	15:07	1.0	Surface	1	1	29.79	8.28	18.54	91.4	6.24	3.5	3.3
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS(Mf)6	15:08	1.0	Surface	1	2	29.73	8.27	18.97	94.4	6.46	3.4	4.0
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS(Mf)6	15:07	2.1	Bottom	3	1	29.58	8.23	19.73	90.4	6.20	3.5	4.8
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS(Mf)6	15:07	2.1	Bottom	3	2	29.47	8.17	20.16	83.5	5.70	3.3	4.5
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS7	15:17	1.0	Surface	1	1	29.52	8.24	18.32	91.0	6.20	3.1	4.4
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS7	15:17	1.0	Surface	1	2	29.44	8.26	18.89	91.9	6.32	3.2	3.8
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS7	15:17	2.0	Bottom	3	1	29.54	8.20	20.19	88.3	6.08	3.1	4.0
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS7	15:17	2.0	Bottom	3	2	29.50	8.23	20.45	89.8	6.12	3.2	3.9
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS8	15:43	1.0	Surface	1	1	29.37	8.23	18.39	78.9	5.32	7.8	4.4
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS8	15:43	1.0	Surface	1	2	29.26	8.18	18.35	80.5	5.43	7.7	3.5
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS8	15:43	3.0	Bottom	3	1	29.28	8.18	23.33	78.5	5.31	7.6	6.3
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS8	15:43	3.0	Bottom	3	2	29.01	8.09	23.64	72.8	5.04	7.8	6.0
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS(Mf)9	15:27	1.0	Surface	1	1	29.58	8.25	18.13	90.7	6.16	6.0	2.6
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS(Mf)9	15:26	1.0	Surface	1	2	29.66	8.30	18.19	92.2	6.34	5.9	3.2
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS(Mf)9	15:26	2.5	Bottom	3	1	29.19	8.12	22.08	82.9	5.62	5.8	2.6
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS(Mf)9	15:27	2.5	Bottom	3	2	29.33	8.18	21.56	87.2	6.01	5.7	3.3
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS10(N)	16:30	1.0	Surface	1	1	29.53	8.15	22.56	92.7	6.57	4.0	3.2
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS10(N)	16:29	1.0	Surface	1	2	29.55	8.15	22.18	92.0	6.53	4.0	2.2
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS10(N)	16:30	5.5	Middle	2	1	29.15	8.08	25.48	85.3	6.02	5.5	3.2
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS10(N)	16:28	5.5	Middle	2	2	29.07	8.07	26.08	83.8	5.91	5.6	3.4
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS10(N)	16:28	9.9	Bottom	3	1	28.84	8.04	28.77	82.5	5.77	6.1	3.4
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	IS10(N)	16:29	9.9	Bottom	3	2	28.87	8.05	27.65	83.4	5.85	6.0	3.6
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR3(N)	14:50	1.0	Surface	1	1	29.52	8.17	18.20	80.8	5.57	6.5	4.2
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR3(N)	14:49	1.0	Surface	1	2	29.50	8.16	18.24	79.4	5.48	6.5	4.0
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR3(N)	14:49	2.5	Bottom	3	1	29.43	8.12	21.50	80.7	5.47	5.8	4.8
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR3(N)	14:49	2.5	Bottom	3	2	29.36	8.09	21.51	80.5	5.46	5.8	5.5
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR4(N)	15:37	1.0	Surface	1	1	29.55	8.28	17.52	87.1	6.03	5.3	3.1
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR4(N)	15:37	1.0	Surface	1	2	29.40	8.24	17.66	94.0	6.36	5.2	3.3
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR4(N)	15:37	2.5	Bottom	3	1	29.21	8.18	22.68	84.9	5.88	5.9	3.4
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR4(N)	15:37	2.5	Bottom	3	2	29.36	8.21	22.12	87.5	5.92	6.1	3.9
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR5(N)	16:16	1.0	Surface	1	1	29.59	8.15	22.07	93.8	6.65	3.9	3.1
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR5(N)	16:17	1.0	Surface	1	2	29.60	8.17	21.58	91.9	6.54	3.7	3.4
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR5(N)	16:17	4.1	Middle	2	1	29.06	8.07	25.84	81.6	5.77	4.8	2.8
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR5(N)	16:16	4.1	Middle	2	2	29.04	8.07	25.26	80.7	5.73	4.9	3.3
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR5(N)	16:17	7.2	Bottom	3	1	28.69	8.03	29.44	79.8	5.59	6.0	3.1
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR5(N)	16:15	7.2	Bottom	3	2	28.69	8.03	28.97	79.1	5.55	5.7	3.4
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR10A(N)	17:20	1.0	Surface	1	1	28.47	8.10	29.85	81.5	5.70	2.4	2.9
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR10A(N)	17:20	1.0	Surface	1	2	28.52	8.10	29.49	81.9	5.73	2.6	3.1
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR10A(N)	17:20	6.8	Middle	2	1	28.44	8.11	30.09	80.5	5.63	2.7	3.4

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	2018-08-20	Mid-Flood	Cloudy	SR10A(N)	17:19	6.8	Middle	2	2	28.31	8.10	30.79	80.1	5.60	2.6	3.7
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR10A(N)	17:19	12.6	Bottom	3	1	28.14	8.09	32.21	79.4	5.53	3.0	3.1
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR10A(N)	17:20	12.6	Bottom	3	2	28.06	8.09	32.25	78.5	5.48	3.1	3.6
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR10B(N2)	17:29	1.0	Surface	1	1	28.55	8.11	29.26	81.6	5.72	2.5	3.3
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR10B(N2)	17:30	1.0	Surface	1	2	28.49	8.11	29.76	81.8	5.72	2.4	3.4
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR10B(N2)	17:29	3.9	Middle	2	1	28.38	8.11	30.37	79.1	5.54	2.7	3.1
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR10B(N2)	17:28	3.9	Middle	2	2	28.38	8.11	30.41	79.3	5.55	2.7	3.6
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR10B(N2)	17:29	6.8	Bottom	3	1	28.14	8.10	31.80	78.3	5.47	3.2	5.7
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	SR10B(N2)	17:28	6.8	Bottom	3	2	28.08	8.09	32.06	78.1	5.45	3.5	6.3
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	CS2(A)	15:22	1.0	Surface	1	1	29.57	8.21	22.04	93.2	6.61	5.0	5.8
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	CS2(A)	15:20	1.0	Surface	1	2	29.64	8.22	21.61	91.6	6.51	4.8	6.2
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	CS2(A)	15:21	4.0	Middle	2	1	29.05	8.12	30.87	80.9	5.60	5.6	6.3
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	CS2(A)	15:20	4.0	Middle	2	2	28.92	8.11	33.68	81.1	5.55	5.5	7.0
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	CS2(A)	15:21	7.0	Bottom	3	1	28.77	8.12	34.94	79.8	5.44	6.4	6.6
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	CS2(A)	15:20	7.0	Bottom	3	2	28.75	8.12	35.90	79.1	5.37	6.2	6.8
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	CS(Mf)5	16:09	1.0	Surface	1	1	29.21	8.27	20.47	73.4	5.09	2.6	3.7
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	CS(Mf)5	16:08	1.0	Surface	1	2	29.00	8.26	20.78	74.5	5.11	2.5	4.0
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	CS(Mf)5	16:08	6.2	Middle	2	1	27.50	8.21	29.89	72.9	5.05	5.2	3.8
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	CS(Mf)5	16:09	6.2	Middle	2	2	27.57	8.20	30.08	72.5	5.02	5.2	3.9
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	CS(Mf)5	16:09	11.4	Bottom	3	1	27.66	8.19	30.90	70.5	4.85	5.5	5.9
HKLR	HY/2011/03	2018-08-20	Mid-Flood	Cloudy	CS(Mf)5	16:08	11.4	Bottom	3	2	27.28	8.20	31.15	69.8	4.78	5.2	6.3
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS5	11:21	1.0	Surface	1	1	29.64	8.19	26.23	86.9	5.72	3.7	3.8
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS5	11:22	1.0	Surface	1	2	29.68	8.20	25.90	83.7	5.52	3.6	4.4
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS5	11:20	4.7	Middle	2	1	28.83	8.12	34.96	69.9	4.48	9.1	5.4
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS5	11:22	4.7	Middle	2	2	28.81	8.12	35.27	69.4	4.40	8.7	5.6
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS5	11:20	8.3	Bottom	3	1	28.80	8.12	35.66	77.9	4.85	10.5	8.5
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS5	11:21	8.3	Bottom	3	2	28.94	8.12	35.65	80.6	5.09	10.3	9.1
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS(Mf)6	11:11	1.0	Surface	1	1	29.68	8.18	26.16	84.0	5.52	5.2	4.9
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS(Mf)6	11:11	1.0	Surface	1	2	29.65	8.18	26.35	88.3	5.71	5.3	4.5
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS(Mf)6	11:11	2.0	Bottom	3	1	29.47	8.14	28.81	83.8	5.47	5.6	5.2
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS(Mf)6	11:11	2.0	Bottom	3	2	29.30	8.12	30.48	84.6	5.56	5.5	5.2
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS7	11:00	1.0	Surface	1	1	29.53	8.14	27.51	80.5	5.27	2.1	3.5
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS7	11:00	1.0	Surface	1	2	29.45	8.15	27.54	83.6	5.44	2.1	3.4
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS7	11:00	2.3	Bottom	3	1	29.24	8.08	28.60	78.9	5.16	2.3	5.1
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS7	11:00	2.3	Bottom	3	2	29.01	8.06	30.09	79.2	5.19	2.3	4.8
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS8	10:27	1.0	Surface	1	1	29.52	8.12	27.13	79.1	5.13	3.3	4.4
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS8	10:27	1.0	Surface	1	2	29.46	8.11	27.40	78.6	5.10	3.5	4.6
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS8	10:27	3.3	Bottom	3	1	28.84	8.02	31.72	77.5	5.09	5.3	7.4
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS8	10:26	3.3	Bottom	3	2	29.02	8.03	30.58	77.5	5.08	5.4	7.7
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS(Mf)9	10:49	1.0	Surface	1	1	29.60	8.17	26.02	87.2	5.75	2.5	4.3
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS(Mf)9	10:49	1.0	Surface	1	2	29.80	8.19	25.76	87.2	5.74	2.3	3.7
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS(Mf)9	10:49	2.5	Bottom	3	1	29.12	8.09	28.89	85.3	5.58	2.6	5.2
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS(Mf)9	10:49	2.5	Bottom	3	2	29.45	8.13	28.56	89.6	5.84	2.8	6.2
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS10(N)	10:34	1.0	Surface	1	1	29.38	7.99	19.48	86.9	5.96	5.1	5.0
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS10(N)	10:35	1.0	Surface	1	2	29.40	7.99	19.37	86.3	5.93	5.2	5.2
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS10(N)	10:34	5.3	Middle	2	1	29.14	7.98	20.99	75.8	5.18	5.7	5.7
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS10(N)	10:35	5.3	Middle	2	2	29.11	7.97	22.33	76.9	5.22	5.9	5.4
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS10(N)	10:34	9.5	Bottom	3	1	28.69	7.87	25.90	75.7	5.07	6.1	7.2
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	IS10(N)	10:33	9.5	Bottom	3	2	28.79	7.90	25.66	75.5	5.06	6.2	7.9
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR3(N)	11:34	1.0	Surface	1	1	29.91	8.21	24.80	88.1	5.81	7.3	4.7
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR3(N)	11:34	1.0	Surface	1	2	29.97	8.19	25.28	87.7	5.77	7.3	4.3
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR3(N)	11:34	2.2	Bottom	3	1	29.56	8.12	28.88	87.4	5.69	7.5	5.1
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR3(N)	11:34	2.2	Bottom	3	2	29.43	8.12	29.32	87.9	5.72	7.2	5.4
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR4(N)	10:36	1.0	Surface	1	1	29.39	8.18	24.03	77.1	5.16	4.6	6.6
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR4(N)	10:36	1.0	Surface	1	2	29.45	8.17	25.71	81.3	5.38	4.8	6.0
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR4(N)	10:36	3.1	Bottom	3	1	28.86	8.04	30.87	78.2	5.08	6.3	9.4
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR4(N)	10:35	3.1	Bottom	3	2	28.77	8.05	30.58	77.1	5.02	6.3	8.9
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR5(N)	10:49	1.0	Surface	1	1	29.41	7.99	19.31	88.6	6.08	5.2	6.3

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	2018-08-22	Mid-Ebb	Rainy	SR5(N)	10:50	1.0	Surface	1	2	29.43	7.98	19.25	90.5	6.21	5.3	6.0
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR5(N)	10:50	4.1	Middle	2	1	29.14	7.97	21.53	77.1	5.25	6.0	6.4
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR5(N)	10:49	4.1	Middle	2	2	29.09	7.97	23.31	75.3	5.08	6.2	6.5
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR5(N)	10:49	7.1	Bottom	3	1	28.63	7.86	26.14	75.0	5.03	6.4	7.4
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR5(N)	10:48	7.1	Bottom	3	2	28.65	7.87	26.03	75.4	5.05	6.5	7.0
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR10A(N)	9:28	1.0	Surface	1	1	28.50	7.93	24.33	81.9	5.55	2.8	5.3
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR10A(N)	9:30	1.0	Surface	1	2	28.59	7.94	23.92	82.7	5.61	2.9	5.8
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR10A(N)	9:29	6.8	Middle	2	1	28.21	7.90	25.90	79.2	5.35	2.8	5.7
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR10A(N)	9:28	6.8	Middle	2	2	28.16	7.89	26.22	79.2	5.34	3.0	5.2
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR10A(N)	9:29	12.6	Bottom	3	1	28.13	7.89	26.32	78.7	5.31	3.0	6.9
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR10A(N)	9:28	12.6	Bottom	3	2	28.03	7.88	26.73	78.6	5.30	3.2	6.8
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR10A(N2)	9:11	1.0	Surface	1	1	28.47	7.92	24.73	83.7	5.67	2.5	5.7
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR10B(N2)	9:12	1.0	Surface	1	2	28.53	7.93	24.47	84.5	5.72	2.7	6.3
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR10B(N2)	9:11	3.8	Middle	2	1	28.25	7.90	25.77	80.1	5.41	3.6	6.3
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR10B(N2)	9:12	3.8	Middle	2	2	28.34	7.91	25.32	82.0	5.54	3.4	6.1
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR10B(N2)	9:12	6.5	Bottom	3	1	28.25	7.90	25.77	81.2	5.49	4.2	7.3
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	SR10B(N2)	9:10	6.5	Bottom	3	2	28.19	7.89	26.06	79.5	5.37	4.4	6.8
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	CS2(A)	12:04	1.0	Surface	1	1	29.78	7.93	17.42	86.8	5.99	6.5	5.4
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	CS2(A)	12:03	1.0	Surface	1	2	29.67	7.94	17.31	84.8	5.86	6.4	5.5
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	CS2(A)	12:03	3.9	Middle	2	1	29.19	7.91	24.27	76.9	5.14	6.6	5.3
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	CS2(A)	12:04	3.9	Middle	2	2	29.22	7.90	22.61	79.7	5.11	6.5	5.7
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	CS2(A)	12:02	6.7	Bottom	3	1	29.17	7.89	28.62	76.4	5.09	7.1	7.4
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	CS2(A)	12:03	6.7	Bottom	3	2	28.78	7.86	27.13	76.4	5.08	7.3	7.7
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	CS(Mf)5	9:53	1.0	Surface	1	1	28.94	8.16	28.40	81.4	5.36	1.6	4.6
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	CS(Mf)5	9:52	1.0	Surface	1	2	29.00	8.15	28.34	84.1	5.53	1.5	4.8
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	CS(Mf)5	9:53	6.6	Middle	2	1	27.87	8.07	33.68	71.8	4.63	2.3	6.0
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	CS(Mf)5	9:50	6.6	Middle	2	2	27.75	8.04	34.66	71.2	4.59	2.3	6.6
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	CS(Mf)5	9:52	12.2	Bottom	3	1	26.74	8.03	37.78	65.9	4.24	4.9	8.5
HKLR	HY/2011/03	2018-08-22	Mid-Ebb	Rainy	CS(Mf)5	9:49	12.2	Bottom	3	2	26.89	7.98	38.28	65.5	4.22	4.9	8.3
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS5	16:44	1.0	Surface	1	1	30.69	8.44	24.76	118.1	7.70	7.4	6.0
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS5	16:44	1.0	Surface	1	2	30.67	8.43	24.79	102.1	6.66	7.4	6.3
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS5	16:44	4.4	Middle	2	1	29.77	8.23	26.26	110.0	7.10	7.4	7.4
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS5	16:43	4.4	Middle	2	2	29.75	8.21	26.59	99.6	6.54	7.5	6.8
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS5	16:44	7.7	Bottom	3	1	29.59	8.14	30.03	80.0	5.19	7.6	7.9
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS5	16:43	7.7	Bottom	3	2	29.08	8.06	30.50	77.7	5.10	7.2	7.8
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS(Mf)6	16:54	1.0	Surface	1	1	30.49	8.42	26.27	121.3	7.88	5.5	6.0
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS(Mf)6	16:54	1.0	Surface	1	2	30.37	8.42	26.00	126.2	8.22	5.6	5.7
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS(Mf)6	16:54	2.0	Bottom	3	1	29.76	8.25	28.95	111.5	7.22	10.5	6.7
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS(Mf)6	16:54	2.0	Bottom	3	2	30.07	8.29	28.49	125.2	8.08	10.4	7.2
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS7	17:04	1.0	Surface	1	1	30.32	8.44	25.14	127.8	8.37	3.8	6.2
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS7	17:04	1.0	Surface	1	2	30.46	8.46	24.98	127.1	8.31	3.8	5.7
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS7	17:04	2.0	Bottom	3	1	29.93	8.33	26.60	123.3	8.07	3.8	7.3
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS7	17:04	2.0	Bottom	3	2	29.86	8.31	25.89	115.0	7.56	3.9	6.8
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS8	17:33	1.0	Surface	1	1	30.37	8.52	23.87	137.1	9.04	6.3	7.1
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS8	17:33	1.0	Surface	1	2	30.22	8.49	23.85	138.6	9.16	6.4	7.2
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS8	17:33	3.2	Bottom	3	1	30.13	8.37	26.67	140.3	9.14	6.5	9.4
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS8	17:33	3.2	Bottom	3	2	29.85	8.37	25.17	136.5	9.01	6.6	10.4
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS(Mf)9	17:16	1.0	Surface	1	1	29.95	8.39	25.08	108.2	7.13	7.4	10.0
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS(Mf)9	17:15	1.0	Surface	1	2	29.99	8.40	25.11	108.8	7.09	7.4	9.7
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS(Mf)9	17:16	2.5	Bottom	3	1	29.68	8.24	27.87	101.2	6.66	7.6	11.4
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS(Mf)9	17:15	2.5	Bottom	3	2	29.32	8.16	26.94	96.6	6.37	7.5	10.9
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS10(N)	17:37	1.0	Surface	1	1	30.15	8.12	19.59	109.8	7.27	5.7	10.0
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS10(N)	17:36	1.0	Surface	1	2	30.04	8.10	20.15	106.4	7.19	5.9	10.4
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS10(N)	17:37	5.4	Middle	2	1	29.24	8.02	23.48	87.5	5.89	6.9	11.1
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS10(N)	17:36	5.4	Middle	2	2	29.11	8.00	23.60	87.0	5.86	6.8	11.3
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS10(N)	17:36	9.8	Bottom	3	1	28.22	7.86	26.69	76.2	5.12	7.3	10.5
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	IS10(N)	17:35	9.8	Bottom	3	2	28.12	7.84	27.65	76.4	5.13	7.2	11.3
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR3(N)	16:34	1.0	Surface	1	1	30.49	8.32	25.20	112.0	7.31	6.4	9.3

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	2018-08-22	Mid-Flood	Fine	SR3(N)	16:34	1.0	Surface	1	2	30.81	8.39	24.86	114.3	7.44	6.3	9.0
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR3(N)	16:34	2.5	Bottom	3	1	29.74	8.19	27.47	113.5	7.41	6.5	9.5
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR3(N)	16:34	2.5	Bottom	3	2	29.82	8.19	27.56	112.1	7.31	6.5	9.6
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR4(N)	17:28	1.0	Surface	1	1	30.22	8.46	24.23	131.8	8.69	11.1	10.8
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR4(N)	17:27	1.0	Surface	1	2	30.30	8.48	24.06	129.8	8.55	11.5	10.2
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR4(N)	17:27	3.0	Bottom	3	1	29.88	8.32	24.78	115.0	7.60	11.8	11.7
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR4(N)	17:28	3.0	Bottom	3	2	30.19	8.43	24.49	123.0	8.11	11.5	11.0
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR5(N)	17:23	1.0	Surface	1	1	30.07	8.10	19.45	103.6	7.03	6.1	7.3
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR5(N)	17:24	1.0	Surface	1	2	30.05	8.09	19.73	102.4	6.94	6.4	7.5
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR5(N)	17:23	4.1	Middle	2	1	29.05	7.98	24.23	83.4	5.61	8.2	7.9
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR5(N)	17:24	4.1	Middle	2	2	29.13	7.98	24.08	85.7	5.76	8.1	7.9
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR5(N)	17:23	7.2	Bottom	3	1	28.35	7.85	26.60	76.1	5.02	8.6	8.7
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR5(N)	17:22	7.2	Bottom	3	2	28.40	7.87	26.57	76.5	5.06	8.9	8.9
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR10A(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR10A(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR10A(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR10A(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR10A(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR10A(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR10B(N2)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR10B(N2)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR10B(N2)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR10B(N2)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR10B(N2)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	SR10B(N2)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	CS2(A)	16:32	1.0	Surface	1	1	30.16	7.99	18.78	92.8	6.31	10.7	8.2
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	CS2(A)	16:31	1.0	Surface	1	2	30.15	7.90	18.85	92.4	6.28	10.5	7.9
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	CS2(A)	16:30	4.1	Middle	2	1	29.42	7.73	23.30	77.0	5.10	10.9	10.7
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	CS2(A)	16:32	4.1	Middle	2	2	29.43	7.90	22.08	77.4	5.13	11.0	10.2
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	CS2(A)	16:31	7.1	Bottom	3	1	28.97	7.82	27.06	76.2	5.05	11.4	11.0
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	CS2(A)	16:30	7.1	Bottom	3	2	28.90	7.66	29.34	76.8	5.08	11.2	11.7
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	CS(Mf)5	18:00	1.0	Surface	1	1	29.64	8.38	25.89	89.8	5.92	3.3	7.5
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	CS(Mf)5	17:59	1.0	Surface	1	2	29.67	8.38	25.87	87.3	5.76	3.3	7.4
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	CS(Mf)5	17:59	6.7	Middle	2	1	27.48	8.09	33.29	86.1	5.60	4.2	9.8
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	CS(Mf)5	18:00	6.7	Middle	2	2	27.42	8.09	33.09	86.5	5.63	4.2	10.1
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	CS(Mf)5	17:59	12.4	Bottom	3	1	26.92	8.08	35.34	74.8	4.89	4.2	10.6
HKLR	HY/2011/03	2018-08-22	Mid-Flood	Fine	CS(Mf)5	17:59	12.4	Bottom	3	2	26.98	8.11	35.20	71.9	4.80	4.2	11.2
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS5	12:42	1.0	Surface	1	1	29.42	8.37	27.54	94.2	6.18	5.0	5.1
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS5	12:43	1.0	Surface	1	2	29.22	8.31	28.10	97.5	6.30	5.2	4.9
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS5	12:42	4.3	Middle	2	1	28.74	8.17	30.00	83.4	5.40	8.2	5.2
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS5	12:43	4.3	Middle	2	2	28.82	8.19	29.92	85.9	5.62	8.3	5.2
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS5	12:42	7.5	Bottom	3	1	28.85	8.17	32.03	77.1	5.05	9.4	6.5
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS5	12:42	7.5	Bottom	3	2	28.56	8.11	32.43	76.8	5.03	9.5	6.3
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS(Mf)6	12:33	1.0	Surface	1	1	29.58	8.46	26.47	115.3	7.59	6.6	4.5
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS(Mf)6	12:32	1.0	Surface	1	2	29.63	8.46	26.51	113.0	7.35	6.8	4.3
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS(Mf)6	12:32	2.2	Bottom	3	1	29.23	8.26	28.89	108.2	7.15	6.8	6.3
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS(Mf)6	12:32	2.2	Bottom	3	2	29.28	8.28	29.50	111.0	7.30	6.8	6.5
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS7	12:23	1.0	Surface	1	1	29.25	8.36	27.39	108.9	7.17	3.3	5.0
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS7	12:22	1.0	Surface	1	2	29.35	8.38	27.35	109.1	7.17	3.1	5.8
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS7	12:22	2.1	Bottom	3	1	28.96	8.30	27.64	98.9	6.53	3.1	6.4
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS7	12:22	2.1	Bottom	3	2	29.05	8.29	28.42	105.9	6.97	3.2	6.2
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS8	11:54	1.0	Surface	1	1	29.07	8.26	26.50	89.4	5.86	7.9	5.8
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS8	11:54	1.0	Surface	1	2	29.33	8.33	26.41	91.9	6.07	7.8	5.5
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS8	11:54	3.1	Bottom	3	1	29.25	8.25	28.26	84.7	5.56	7.8	7.0
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS8	11:54	3.1	Bottom	3	2	28.79	8.12	29.14	82.4	5.47	7.8	6.8
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS(Mf)9	12:14	1.0	Surface	1	1	29.47	8.43	25.93	112.4	7.43	3.8	4.4
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS(Mf)9	12:14	1.0	Surface	1	2	29.53	8.46	25.89	111.0	7.28	3.8	3.8
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS(Mf)9	12:14	2.6	Bottom	3	1	29.27	8.29	27.91	105.6	6.98	3.9	5.6

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	2018-08-24	Mid-Ebb	Sunny	IS(Mf)9	12:14	2.6	Bottom	3	2	29.02	8.22	28.17	96.0	6.31	3.9	5.5
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS10(N)	12:23	1.0	Surface	1	1	29.31	8.04	22.32	102.6	6.94	4.5	6.6
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS10(N)	12:22	1.0	Surface	1	2	29.21	8.06	22.70	99.1	6.70	4.5	6.5
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS10(N)	12:21	5.1	Middle	2	1	28.93	8.05	24.26	89.7	6.04	4.8	7.1
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS10(N)	12:22	5.1	Middle	2	2	29.05	8.07	23.48	89.5	6.04	4.9	6.6
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS10(N)	12:21	9.2	Bottom	3	1	28.26	7.97	27.09	82.8	5.55	5.9	7.1
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	IS10(N)	12:22	9.2	Bottom	3	2	28.48	8.01	26.33	83.6	5.61	6.0	7.8
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR3(N)	12:51	1.0	Surface	1	1	29.83	8.45	26.68	115.5	7.57	4.8	5.4
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR3(N)	12:51	1.0	Surface	1	2	29.62	8.40	27.02	111.7	7.30	4.8	4.6
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR3(N)	12:51	2.4	Bottom	3	1	29.36	8.28	28.13	101.8	6.66	4.8	7.8
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR3(N)	12:51	2.4	Bottom	3	2	29.49	8.33	28.04	106.6	6.99	5.0	7.4
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR4(N)	12:01	1.0	Surface	1	1	29.09	8.21	26.53	85.0	5.64	7.2	9.4
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR4(N)	12:02	1.0	Surface	1	2	28.96	8.17	26.75	84.2	5.54	7.3	9.1
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR4(N)	12:01	2.8	Bottom	3	1	28.88	8.12	28.41	84.6	5.57	7.5	9.5
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR4(N)	12:01	2.8	Bottom	3	2	28.92	8.12	28.51	81.4	5.41	7.4	9.5
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR5(N)	12:36	1.0	Surface	1	1	29.24	8.04	22.20	102.9	6.97	4.3	6.0
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR5(N)	12:37	1.0	Surface	1	2	29.20	8.04	22.77	103.8	7.02	4.4	6.3
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR5(N)	12:37	3.9	Middle	2	1	29.11	8.05	23.28	98.6	6.65	6.4	6.9
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR5(N)	12:36	3.9	Middle	2	2	29.11	8.06	23.35	96.7	6.53	6.3	7.2
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR5(N)	12:35	6.8	Bottom	3	1	28.70	8.02	26.29	90.4	6.04	6.9	7.1
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR5(N)	12:37	6.8	Bottom	3	2	28.89	8.04	25.07	95.2	6.39	6.8	6.8
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR10A(N)	11:11	1.0	Surface	1	1	28.42	8.03	24.95	106.0	7.17	2.4	5.6
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR10A(N)	11:11	1.0	Surface	1	2	28.42	8.03	24.91	105.3	7.12	2.3	5.7
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR10A(N)	11:11	6.7	Middle	2	1	28.37	8.02	25.15	104.6	7.07	2.8	5.5
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR10A(N)	11:10	6.7	Middle	2	2	28.27	8.02	25.45	104.0	7.03	2.9	6.2
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR10A(N)	11:10	12.3	Bottom	3	1	28.23	8.02	25.60	101.2	6.84	3.1	5.6
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR10A(N)	11:11	12.3	Bottom	3	2	28.31	8.02	25.37	102.0	6.90	3.0	5.7
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR10B(N2)	10:52	1.0	Surface	1	1	28.47	8.05	24.91	106.6	7.20	2.5	5.5
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR10B(N2)	10:52	1.0	Surface	1	2	28.51	8.05	24.82	107.7	7.28	2.7	5.8
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR10B(N2)	10:52	3.7	Middle	2	1	28.43	8.05	25.03	106.1	7.18	3.2	6.1
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR10B(N2)	10:51	3.7	Middle	2	2	28.31	8.04	25.36	105.9	7.16	3.3	6.5
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR10B(N2)	10:51	6.4	Bottom	3	1	28.23	8.03	25.59	102.5	6.93	3.4	6.7
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	SR10B(N2)	10:52	6.4	Bottom	3	2	28.36	8.04	25.21	103.4	6.99	3.3	6.8
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	CS2(A)	13:32	1.0	Surface	1	1	29.33	8.11	22.97	105.9	7.14	8.2	9.5
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	CS2(A)	13:34	1.0	Surface	1	2	29.22	8.10	23.23	105.7	7.12	8.2	9.9
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	CS2(A)	13:33	3.7	Middle	2	1	28.98	8.01	24.64	91.4	6.13	8.3	11.1
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	CS2(A)	13:31	3.7	Middle	2	2	28.89	8.00	25.69	91.0	6.09	8.5	11.0
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	CS2(A)	13:32	6.4	Bottom	3	1	28.60	7.93	27.08	80.5	5.37	8.8	12.2
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	CS2(A)	13:31	6.4	Bottom	3	2	28.63	7.94	26.94	78.4	5.23	8.9	12.4
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	CS(Mf)5	11:24	1.0	Surface	1	1	28.80	8.25	27.73	85.0	5.63	3.2	7.2
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	CS(Mf)5	11:23	1.0	Surface	1	2	28.78	8.25	28.11	93.0	6.15	3.0	7.1
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	CS(Mf)5	11:24	6.1	Middle	2	1	28.06	8.11	30.78	76.8	5.05	4.6	8.7
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	CS(Mf)5	11:23	6.1	Middle	2	2	27.82	8.11	31.68	76.4	5.03	4.9	8.3
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	CS(Mf)5	11:24	11.2	Bottom	3	1	26.60	8.04	35.32	76.1	4.92	4.8	9.1
HKLR	HY/2011/03	2018-08-24	Mid-Ebb	Sunny	CS(Mf)5	11:22	11.2	Bottom	3	2	26.65	8.04	35.76	75.9	4.88	4.9	9.5
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS5	17:46	1.0	Surface	1	1	29.65	8.45	27.84	112.8	7.36	7.7	6.2
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS5	17:45	1.0	Surface	1	2	29.59	8.44	28.01	106.8	6.92	8.0	6.4
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS5	17:46	4.2	Middle	2	1	29.23	8.31	28.86	101.1	6.60	10.5	6.3
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS5	17:45	4.2	Middle	2	2	29.13	8.29	29.45	105.3	6.87	10.4	6.5
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS5	17:45	7.3	Bottom	3	1	28.91	8.18	31.15	95.2	6.18	10.2	7.3
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS5	17:45	7.3	Bottom	3	2	28.87	8.18	31.14	92.3	6.02	10.5	7.3
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS(Mf)6	17:55	1.0	Surface	1	1	29.61	8.46	28.31	133.5	8.69	4.8	6.4
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS(Mf)6	17:56	1.0	Surface	1	2	29.69	8.49	28.08	141.1	9.19	4.7	6.0
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS(Mf)6	17:55	2.2	Bottom	3	1	29.49	8.42	28.64	133.7	8.71	4.8	6.7
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS(Mf)6	17:55	2.2	Bottom	3	2	29.24	8.35	29.07	132.3	8.63	4.8	6.3
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS7	18:06	1.0	Surface	1	1	30.02	8.59	27.37	143.0	9.29	2.7	5.7
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS7	18:07	1.0	Surface	1	2	30.09	8.61	27.36	140.1	9.11	2.8	6.4
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS7	18:06	2.0	Bottom	3	1	29.17	8.35	29.30	129.2	8.43	2.9	7.3

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	2018-08-24	Mid-Flood	Sunny	IS7	18:06	2.0	Bottom	3	2	29.51	8.42	29.01	129.7	8.45	2.8	6.9
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS8	18:39	1.0	Surface	1	1	29.37	8.41	26.99	122.3	8.05	11.4	14.8
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS8	18:38	1.0	Surface	1	2	29.50	8.44	26.89	127.7	8.32	11.6	15.0
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS8	18:38	3.2	Bottom	3	1	29.37	8.37	28.94	125.0	8.22	11.5	16.0
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS8	18:38	3.2	Bottom	3	2	29.36	8.39	27.46	119.6	7.86	11.5	15.7
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS(Mf)9	18:18	1.0	Surface	1	1	29.44	8.46	27.41	111.4	7.25	10.5	6.8
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS(Mf)9	18:18	1.0	Surface	1	2	29.33	8.42	27.57	108.6	7.13	10.6	6.4
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS(Mf)9	18:18	2.8	Bottom	3	1	29.03	8.26	30.01	103.6	6.80	10.3	6.9
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS(Mf)9	18:17	2.8	Bottom	3	2	28.87	8.22	30.13	96.3	6.28	10.5	6.8
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS10(N)	18:35	1.0	Surface	1	1	29.57	8.09	21.03	118.4	8.03	3.9	7.4
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS10(N)	18:37	1.0	Surface	1	2	29.54	8.09	21.69	119.0	8.05	4.0	7.2
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS10(N)	18:36	5.4	Middle	2	1	29.01	8.07	24.40	112.3	7.54	4.6	7.7
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS10(N)	18:35	5.4	Middle	2	2	29.01	8.07	24.41	111.7	7.51	4.5	7.5
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS10(N)	18:36	9.7	Bottom	3	1	28.87	8.03	24.87	107.9	7.25	5.4	9.7
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	IS10(N)	18:35	9.7	Bottom	3	2	28.89	8.04	24.87	108.8	7.31	5.3	9.8
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR3(N)	17:36	1.0	Surface	1	1	29.58	8.46	26.97	130.0	8.53	5.3	6.1
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR3(N)	17:36	1.0	Surface	1	2	29.68	8.51	26.20	130.8	8.55	5.2	5.9
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR3(N)	17:35	2.4	Bottom	3	1	29.45	8.43	26.86	121.6	8.00	5.2	8.0
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR3(N)	17:36	2.4	Bottom	3	2	29.49	8.43	27.62	128.2	8.40	5.5	8.0
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR4(N)	18:33	1.0	Surface	1	1	29.48	8.44	26.55	119.0	7.81	8.0	7.9
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR4(N)	18:33	1.0	Surface	1	2	29.43	8.43	26.64	119.6	7.89	7.7	7.9
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR4(N)	18:33	2.7	Bottom	3	1	29.12	8.34	28.05	110.7	7.29	8.4	9.7
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR4(N)	18:33	2.7	Bottom	3	2	29.20	8.36	28.04	111.3	7.35	8.6	9.3
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR5(N)	18:19	1.0	Surface	1	1	29.61	8.08	20.74	118.9	8.07	4.6	6.2
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR5(N)	18:22	1.0	Surface	1	2	29.53	8.10	22.11	120.0	8.10	4.8	6.8
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR5(N)	18:21	4.0	Middle	2	1	28.95	8.06	24.62	109.3	7.34	5.7	7.1
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR5(N)	18:19	4.0	Middle	2	2	28.98	8.07	24.55	110.2	7.40	5.5	7.3
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR5(N)	18:19	7.0	Bottom	3	1	28.90	8.04	24.91	107.0	7.18	5.9	7.4
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR5(N)	18:21	7.0	Bottom	3	2	28.90	8.04	24.83	106.5	7.15	5.8	7.1
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR10A(N)	19:41	1.0	Surface	1	1	27.95	7.97	27.54	82.8	5.57	2.8	4.1
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR10A(N)	19:42	1.0	Surface	1	2	27.64	7.95	28.38	83.9	5.64	3.1	4.6
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR10A(N)	19:42	6.9	Middle	2	1	27.50	7.95	28.73	81.1	5.45	3.6	4.2
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR10A(N)	19:41	6.9	Middle	2	2	27.72	7.95	28.24	80.8	5.43	3.9	4.7
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR10A(N)	19:40	12.7	Bottom	3	1	27.41	7.95	29.03	80.6	5.42	4.4	5.5
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR10A(N)	19:41	12.7	Bottom	3	2	27.42	7.95	29.01	80.6	5.42	4.6	5.7
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR10B(N2)	19:56	1.0	Surface	1	1	27.63	7.95	28.35	79.8	5.37	3.8	4.4
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR10B(N2)	19:56	1.0	Surface	1	2	27.74	7.95	28.09	80.1	5.39	3.7	4.6
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR10B(N2)	19:56	4.0	Middle	2	1	27.50	7.95	28.75	79.7	5.36	4.5	4.9
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR10B(N2)	19:56	4.0	Middle	2	2	27.51	7.95	28.74	79.6	5.35	4.5	4.9
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR10B(N2)	19:55	7.0	Bottom	3	1	27.43	7.94	28.99	79.2	5.33	4.8	5.0
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	SR10B(N2)	19:56	7.0	Bottom	3	2	27.45	7.94	28.96	79.4	5.34	4.9	5.3
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	CS2(A)	17:29	1.0	Surface	1	1	29.76	7.93	19.85	96.0	6.53	9.2	6.2
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	CS2(A)	17:27	1.0	Surface	1	2	29.63	7.95	18.74	99.6	6.83	9.1	6.2
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	CS2(A)	17:27	3.9	Middle	2	1	28.96	7.89	24.85	89.6	6.01	9.3	7.1
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	CS2(A)	17:28	3.9	Middle	2	2	28.95	7.93	25.50	88.8	5.94	9.3	7.4
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	CS2(A)	17:28	6.7	Bottom	3	1	28.39	7.82	28.43	76.8	5.10	9.6	8.0
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	CS2(A)	17:26	6.7	Bottom	3	2	28.44	7.79	27.25	76.1	5.08	9.5	8.5
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	CS(Mf)5	19:05	1.0	Surface	1	1	28.79	8.32	29.18	84.3	5.54	4.4	4.7
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	CS(Mf)5	19:05	1.0	Surface	1	2	28.65	8.29	29.52	87.2	5.77	4.3	4.9
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	CS(Mf)5	19:04	6.3	Middle	2	1	26.76	8.10	35.19	81.4	5.35	5.9	5.4
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	CS(Mf)5	19:05	6.3	Middle	2	2	26.86	8.11	35.00	80.9	5.30	6.0	4.9
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	CS(Mf)5	19:04	11.6	Bottom	3	1	26.70	8.09	35.47	79.5	5.05	5.7	6.4
HKLR	HY/2011/03	2018-08-24	Mid-Flood	Sunny	CS(Mf)5	19:05	11.6	Bottom	3	2	26.85	8.14	35.30	80.1	5.08	5.8	6.5
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	ISS	12:12	1.0	Surface	1	1	28.65	8.17	31.82	84.80	5.48	10.30	13.0
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	ISS	12:12	1.0	Surface	1	2	28.64	8.15	31.75	78.30	5.06	10.10	12.9
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	ISS	12:12	4.3	Middle	2	1	28.65	8.15	32.40	77.10	5.00	10.50	13.2
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	ISS	12:12	4.3	Middle	2	2	28.65	8.17	32.34	81.10	5.25	10.60	14.6
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	ISS	12:12	7.6	Bottom	3	1	28.65	8.15	32.45	77.00	4.98	10.60	17.5

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	2018-08-27	Mid-Ebb	Fine	IS5	12:11	7.6	Bottom	3	2	28.65	8.17	32.58	79.40	5.15	10.50	19.7
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS(Mf)6	12:57	1.0	Surface	1	1	29.21	8.26	29.12	90.20	5.88	4.40	10.0
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS(Mf)6	12:56	1.0	Surface	1	2	29.19	8.27	29.08	91.00	5.93	4.50	11.0
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS(Mf)6	12:57	2.2	Bottom	3	1	29.08	8.24	29.59	89.60	5.85	4.70	9.9
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS(Mf)6	12:56	2.2	Bottom	3	2	29.03	8.25	29.80	90.20	5.89	4.80	11.4
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS7	13:07	1.0	Surface	1	1	28.95	8.25	28.62	93.70	6.14	3.60	9.8
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS7	13:08	1.0	Surface	1	2	28.98	8.24	28.70	91.30	5.99	3.50	9.1
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS7	13:08	2.2	Bottom	3	1	28.86	8.22	29.17	91.30	5.99	3.80	11.8
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS7	13:07	2.2	Bottom	3	2	28.74	8.21	29.55	91.20	5.99	3.80	10.7
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS8	13:38	1.0	Surface	1	1	29.13	8.25	28.97	89.10	5.83	5.10	10.2
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS8	13:39	1.0	Surface	1	2	29.03	8.23	29.14	89.80	5.88	5.10	11.1
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS8	13:39	3.2	Bottom	3	1	28.86	8.20	29.71	86.20	5.64	5.50	9.6
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS8	13:38	3.2	Bottom	3	2	28.85	8.21	29.58	87.80	5.74	5.50	11.0
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS(Mf)9	13:18	1.0	Surface	1	1	29.12	8.24	29.15	89.00	5.82	4.50	11.6
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS(Mf)9	13:18	1.0	Surface	1	2	29.10	8.23	29.25	88.80	5.80	4.50	13.1
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS(Mf)9	13:18	2.7	Bottom	3	1	28.97	8.20	29.50	87.80	5.74	5.30	8.6
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS(Mf)9	13:17	2.7	Bottom	3	2	28.96	8.19	29.53	87.80	5.74	5.60	8.8
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS10(N)	13:03	1.0	Surface	1	1	28.58	7.90	25.67	78.20	5.26	6.30	6.6
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS10(N)	13:02	1.0	Surface	1	2	28.65	7.91	25.51	79.20	5.32	6.40	6.0
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS10(N)	13:01	5.1	Middle	2	1	28.43	7.89	26.08	76.90	5.17	6.70	5.4
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS10(N)	13:03	5.1	Middle	2	2	28.41	7.89	26.14	76.90	5.17	6.50	4.4
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS10(N)	13:02	9.2	Bottom	3	1	28.29	7.88	26.61	75.60	5.08	7.00	4.7
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	IS10(N)	13:01	9.2	Bottom	3	2	28.28	7.89	26.58	75.00	5.04	7.10	5.5
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR3(N)	12:02	1.0	Surface	1	1	29.20	8.25	30.62	97.00	6.26	4.10	5.5
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR3(N)	12:03	1.0	Surface	1	2	29.22	8.24	31.23	93.80	6.04	4.10	7.4
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR3(N)	12:03	2.4	Bottom	3	1	29.21	8.23	31.56	92.70	5.98	4.50	10.6
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR3(N)	12:02	2.4	Bottom	3	2	29.20	8.27	31.09	94.70	6.13	4.50	12.5
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR4(N)	13:31	1.0	Surface	1	1	28.91	8.18	28.97	84.70	5.56	8.60	12.7
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR4(N)	13:31	1.0	Surface	1	2	28.95	8.19	28.67	79.00	5.19	8.50	15.2
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR4(N)	13:31	2.8	Bottom	3	1	28.74	8.17	29.41	81.80	5.37	9.50	15.7
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR4(N)	13:31	2.8	Bottom	3	2	28.64	8.15	29.50	77.60	5.10	9.70	14.8
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR5(N)	12:50	1.0	Surface	1	1	28.62	7.92	25.51	78.00	5.24	5.10	7.8
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR5(N)	12:51	1.0	Surface	1	2	28.67	7.91	25.46	79.20	5.32	5.20	7.9
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR5(N)	12:51	3.8	Middle	2	1	28.43	7.90	26.08	76.90	5.17	5.50	6.5
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR5(N)	12:50	3.8	Middle	2	2	28.40	7.90	26.07	75.80	5.10	5.40	6.1
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR5(N)	12:50	6.6	Bottom	3	1	28.27	7.89	26.70	75.00	5.04	6.30	5.3
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR5(N)	12:49	6.6	Bottom	3	2	28.27	7.89	26.63	75.50	5.07	6.20	7.0
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR10A(N)	13:43	1.0	Surface	1	1	28.11	7.95	26.56	80.20	5.41	2.90	9.0
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR10A(N)	13:45	1.0	Surface	1	2	28.26	7.97	26.33	85.20	5.74	2.80	8.7
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR10A(N)	13:44	6.7	Middle	2	1	27.66	7.92	27.55	78.20	5.28	3.00	6.5
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR10A(N)	13:43	6.7	Middle	2	2	27.69	7.93	27.44	77.00	5.20	2.90	8.3
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR10A(N)	13:42	12.3	Bottom	3	1	27.26	7.91	28.44	75.50	5.10	3.50	7.0
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR10A(N)	13:44	12.3	Bottom	3	2	27.36	7.91	28.24	76.80	5.19	3.40	6.9
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR10B(N2)	13:59	1.0	Surface	1	1	28.19	7.95	26.34	83.00	5.59	2.50	5.9
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR10B(N2)	13:58	1.0	Surface	1	2	28.13	7.95	26.57	81.80	5.51	2.50	5.8
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR10B(N2)	13:58	3.7	Middle	2	1	27.61	7.92	27.63	77.20	5.22	2.50	7.4
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR10B(N2)	13:59	3.7	Middle	2	2	27.71	7.93	27.44	77.90	5.26	2.60	5.1
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR10B(N2)	13:58	6.4	Bottom	3	1	27.13	7.90	28.70	75.20	5.09	2.60	6.4
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	SR10B(N2)	13:59	6.4	Bottom	3	2	27.46	7.90	27.96	75.90	5.13	2.70	6.8
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	CS2(A)	12:00	1.0	Surface	1	1	27.40	7.85	30.35	77.10	5.21	6.30	5.9
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	CS2(A)	12:01	1.0	Surface	1	2	27.43	7.85	30.30	77.20	5.22	6.50	7.8
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	CS2(A)	12:01	3.8	Middle	2	1	27.34	7.85	30.64	77.10	5.21	6.80	7.3
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	CS2(A)	12:00	3.8	Middle	2	2	27.34	7.85	30.63	76.80	5.19	7.00	5.4
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	CS2(A)	12:01	6.5	Bottom	3	1	27.27	7.86	30.89	76.70	5.18	7.30	10.2
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	CS2(A)	12:00	6.5	Bottom	3	2	27.28	7.86	30.87	76.70	5.18	7.40	10.4
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	CS(Mf)5	14:05	1.0	Surface	1	1	28.31	8.16	30.78	77.20	5.08	10.60	16.0
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	CS(Mf)5	14:04	1.0	Surface	1	2	28.34	8.16	30.72	76.50	5.02	10.30	18.2
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	CS(Mf)5	14:05	6.0	Middle	2	1	27.85	8.16	31.82	76.40	5.02	10.50	12.7

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	2018-08-27	Mid-Ebb	Fine	CS(Mf)5	14:04	6.0	Middle	2	2	27.79	8.17	31.90	76.20	5.00	10.50	15.5
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	CS(Mf)5	14:04	11.0	Bottom	3	1	27.42	8.15	33.30	74.30	4.89	10.20	14.8
HKLR	HY/2011/03	2018-08-27	Mid-Ebb	Fine	CS(Mf)5	14:05	11.0	Bottom	3	2	27.55	8.14	33.06	73.70	4.84	10.40	13.1
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS5	7:29	1.0	Surface	1	1	29.06	8.26	30.81	86.60	5.59	5.10	9.3
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS5	7:29	1.0	Surface	1	2	29.10	8.24	31.25	84.50	5.46	5.40	11.1
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS5	7:29	4.5	Middle	2	1	29.04	8.22	31.41	86.00	5.57	6.30	11.3
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS5	7:29	4.5	Middle	2	2	28.97	8.22	31.78	84.50	5.45	6.30	10.3
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS5	7:29	7.9	Bottom	3	1	28.66	8.20	32.86	83.70	5.40	7.50	11.8
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS5	7:28	7.9	Bottom	3	2	28.65	8.21	32.69	84.80	5.48	7.30	10.8
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS(Mf)6	7:20	1.0	Surface	1	1	28.92	8.27	30.64	90.50	5.85	4.20	7.7
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS(Mf)6	7:20	1.0	Surface	1	2	28.93	8.27	30.62	96.20	6.21	4.10	6.9
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS(Mf)6	7:19	2.3	Bottom	3	1	28.99	8.23	31.59	91.90	5.98	4.40	5.7
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS(Mf)6	7:20	2.3	Bottom	3	2	28.98	8.23	31.66	89.50	5.82	4.40	7.5
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS7	7:10	1.0	Surface	1	1	28.85	8.28	30.31	88.50	5.77	3.90	6.1
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS7	7:09	1.0	Surface	1	2	28.86	8.29	30.37	90.80	5.92	4.10	7.1
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS7	7:09	2.2	Bottom	3	1	28.79	8.23	32.01	89.40	5.78	4.50	7.4
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS7	7:09	2.2	Bottom	3	2	28.81	8.21	32.04	90.50	5.85	4.50	9.3
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS8	6:36	1.0	Surface	1	1	28.60	8.20	30.81	89.00	5.81	7.70	14.1
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS8	6:36	1.0	Surface	1	2	28.57	8.20	30.94	94.40	6.15	7.60	15.2
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS8	6:35	3.4	Bottom	3	1	28.52	8.20	31.50	85.50	5.54	7.60	9.7
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS8	6:36	3.4	Bottom	3	2	28.54	8.19	32.48	84.40	5.51	8.00	9.6
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS(Mf)9	6:58	1.0	Surface	1	1	28.86	8.27	30.93	87.70	5.70	6.10	7.4
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS(Mf)9	6:58	1.0	Surface	1	2	28.72	8.26	30.64	88.80	5.73	6.00	6.1
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS(Mf)9	6:58	2.8	Bottom	3	1	28.55	8.21	33.22	85.80	5.53	6.30	6.1
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS(Mf)9	6:58	2.8	Bottom	3	2	28.40	8.19	33.32	86.60	5.65	6.60	5.3
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS10(N)	6:52	1.0	Surface	1	1	28.32	7.92	25.72	79.40	5.36	5.00	9.0
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS10(N)	6:53	1.0	Surface	1	2	28.31	7.91	25.72	79.00	5.33	5.10	9.2
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS10(N)	6:53	5.3	Middle	2	1	28.21	7.91	26.11	77.70	5.24	5.50	10.8
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS10(N)	6:52	5.3	Middle	2	2	28.10	7.91	26.47	77.80	5.25	5.40	9.1
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS10(N)	6:51	9.6	Bottom	3	1	27.70	7.90	27.40	77.00	5.20	5.70	7.6
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	IS10(N)	6:53	9.6	Bottom	3	2	27.75	7.89	27.32	76.40	5.16	5.80	8.5
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR3(N)	7:40	1.0	Surface	1	1	29.10	8.23	31.52	88.10	5.68	7.10	13.4
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR3(N)	7:40	1.0	Surface	1	2	29.09	8.23	31.38	95.10	6.13	7.20	15.5
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR3(N)	7:39	2.5	Bottom	3	1	29.04	8.22	31.71	90.60	5.85	7.50	14.7
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR3(N)	7:40	2.5	Bottom	3	2	29.07	8.22	31.72	86.80	5.60	7.50	15.9
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR4(N)	6:45	1.0	Surface	1	1	28.66	8.23	30.33	85.10	5.57	4.60	6.4
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR4(N)	6:44	1.0	Surface	1	2	28.70	8.23	30.28	86.80	5.68	4.80	6.9
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR4(N)	6:44	2.9	Bottom	3	1	28.59	8.20	31.34	89.00	5.80	5.10	6.8
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR4(N)	6:45	2.9	Bottom	3	2	28.58	8.21	31.90	86.20	5.60	5.10	7.5
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR5(N)	7:02	1.0	Surface	1	1	28.28	7.91	25.81	77.80	5.25	4.70	17.3
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR5(N)	7:03	1.0	Surface	1	2	28.30	7.91	25.75	78.50	5.29	4.90	15.2
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR5(N)	7:03	4.0	Middle	2	1	28.12	7.90	26.39	76.70	5.17	5.80	14.0
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR5(N)	7:02	4.0	Middle	2	2	28.09	7.90	26.45	76.50	5.16	5.70	15.8
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR5(N)	7:01	7.0	Bottom	3	1	27.74	7.89	27.32	75.30	5.08	6.00	11.2
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR5(N)	7:02	7.0	Bottom	3	2	27.78	7.89	27.19	75.00	5.06	6.10	13.1
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR10A(N)	5:49	1.0	Surface	1	1	28.21	7.90	25.57	85.40	5.78	2.20	5.0
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR10A(N)	5:50	1.0	Surface	1	2	28.20	7.90	25.58	84.50	5.72	2.30	5.6
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR10A(N)	5:49	6.8	Middle	2	1	28.11	7.89	25.99	82.10	5.55	2.50	6.8
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR10A(N)	5:50	6.8	Middle	2	2	28.09	7.89	26.04	82.20	5.56	2.60	5.8
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR10A(N)	5:50	12.6	Bottom	3	1	27.79	7.88	27.24	81.10	5.47	2.70	8.4
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR10A(N)	5:48	12.6	Bottom	3	2	27.77	7.88	27.34	81.50	5.50	2.60	8.1
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR10B(N2)	5:37	1.0	Surface	1	1	28.19	7.90	25.65	83.20	5.63	2.60	8.5
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR10B(N2)	5:35	1.0	Surface	1	2	28.19	7.90	25.62	83.70	5.66	2.70	9.7
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR10B(N2)	5:35	3.9	Middle	2	1	28.07	7.89	26.04	81.30	5.50	2.80	11.2
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR10B(N2)	5:36	3.9	Middle	2	2	28.07	7.89	26.14	81.40	5.50	2.70	9.1
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR10B(N2)	5:36	6.8	Bottom	3	1	27.72	7.88	27.48	79.60	5.37	3.00	11.1
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	SR10B(N2)	5:35	6.8	Bottom	3	2	27.73	7.88	27.38	80.10	5.41	2.90	9.1
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	CS2(A)	7:54	1.0	Surface	1	1	28.33	7.88	24.36	76.40	5.20	4.60	10.7

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	2018-08-27	Mid-Flood	Cloudy	CS2(A)	7:53	1.0	Surface	1	2	28.33	7.88	24.37	76.40	5.19	4.70	9.8
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	CS2(A)	7:52	3.9	Middle	2	1	28.23	7.89	26.36	75.40	5.02	4.90	9.0
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	CS2(A)	7:53	3.9	Middle	2	2	28.28	7.87	26.24	75.50	5.05	5.00	11.2
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	CS2(A)	7:53	6.8	Bottom	3	1	27.78	7.88	29.58	74.90	5.04	5.50	9.2
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	CS2(A)	7:53	6.8	Bottom	3	2	28.00	7.87	29.47	75.20	5.02	5.30	11.4
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	CS(Mf)5	6:09	1.0	Surface	1	1	28.73	8.15	32.41	79.40	5.10	4.30	9.0
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	CS(Mf)5	6:10	1.0	Surface	1	2	28.75	8.16	32.04	78.70	5.09	4.10	9.7
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	CS(Mf)5	6:08	5.9	Middle	2	1	27.88	8.14	36.39	79.00	5.04	6.00	11.4
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	CS(Mf)5	6:09	5.9	Middle	2	2	27.89	8.16	35.68	78.20	5.05	6.10	9.5
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	CS(Mf)5	6:09	10.8	Bottom	3	1	26.83	8.13	39.51	75.90	4.86	6.30	10.0
HKLR	HY/2011/03	2018-08-27	Mid-Flood	Cloudy	CS(Mf)5	6:08	10.8	Bottom	3	2	26.77	8.10	41.11	75.00	4.80	6.50	8.9
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS5	13:22	1.0	Surface	1	1	28.17	8.09	29.87	79.0	5.22	8.8	10.7
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS5	13:21	1.0	Surface	1	2	28.18	8.09	29.76	84.0	5.56	8.9	11.7
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS5	13:21	4.1	Middle	2	1	28.10	8.09	30.03	82.0	5.42	8.8	19.2
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS5	13:22	4.1	Middle	2	2	28.09	8.08	30.16	78.4	5.18	8.7	18.9
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS5	13:22	7.2	Bottom	3	1	28.12	8.08	30.13	78.2	5.17	8.8	19.9
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS5	13:21	7.2	Bottom	3	2	28.07	8.09	30.10	79.8	5.28	8.8	20.2
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS(Mf)6	13:33	1.0	Surface	1	1	28.13	8.08	30.21	94.5	6.24	16.6	23.6
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS(Mf)6	13:32	1.0	Surface	1	2	28.13	8.09	30.14	87.1	5.75	16.7	23.8
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS(Mf)6	13:32	2.1	Bottom	3	1	28.13	8.08	30.18	80.1	5.29	16.8	25.0
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS(Mf)6	13:32	2.1	Bottom	3	2	28.10	8.10	30.07	83.3	5.50	16.6	25.8
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS7	13:50	1.0	Surface	1	1	28.08	8.06	30.64	92.3	6.09	7.4	12.4
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS7	13:50	1.0	Surface	1	2	28.08	8.05	30.55	83.9	5.53	7.2	12.3
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS7	13:50	2.1	Bottom	3	1	28.07	8.05	30.66	77.3	5.10	7.3	12.6
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS7	13:50	2.1	Bottom	3	2	28.05	8.04	30.52	79.2	5.22	7.5	12.7
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS8	14:19	1.0	Surface	1	1	28.06	8.10	31.56	89.6	5.88	10.6	16.4
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS8	14:18	1.0	Surface	1	2	28.06	8.10	31.53	82.3	5.40	10.5	16.3
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS8	14:18	3.1	Bottom	3	1	28.07	8.10	31.60	77.1	5.06	10.7	17.8
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS8	14:18	3.1	Bottom	3	2	28.06	8.11	31.58	79.8	5.23	10.7	18.0
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS(Mf)9	13:58	1.0	Surface	1	1	28.13	8.09	30.73	86.9	5.72	6.2	10.7
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS(Mf)9	13:58	1.0	Surface	1	2	28.12	8.09	30.68	83.3	5.49	6.1	11.2
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS(Mf)9	13:58	2.6	Bottom	3	1	28.13	8.09	30.79	79.1	5.21	6.1	11.4
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS(Mf)9	13:58	2.6	Bottom	3	2	28.09	8.10	30.91	81.2	5.34	6.2	11.9
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS10(N)	14:02	1.0	Surface	1	1	28.18	7.80	24.62	77.9	5.30	6.9	8.1
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS10(N)	14:01	1.0	Surface	1	2	28.20	7.79	24.57	78.3	5.33	7.2	8.6
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS10(N)	14:01	5.2	Middle	2	1	27.99	7.80	25.45	75.9	5.16	7.2	9.4
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS10(N)	14:02	5.2	Middle	2	2	28.04	7.81	25.28	76.1	5.17	7.1	9.9
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS10(N)	14:02	9.3	Bottom	3	1	27.94	7.81	25.54	75.5	5.13	8.3	12.3
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	IS10(N)	14:01	9.3	Bottom	3	2	27.93	7.81	25.57	75.6	5.14	8.2	12.1
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR3(N)	13:13	1.0	Surface	1	1	28.11	8.10	27.89	84.4	5.66	10.0	17.8
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR3(N)	13:13	1.0	Surface	1	2	28.25	8.11	27.31	79.0	5.29	10.5	17.2
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR3(N)	13:13	2.5	Bottom	3	1	28.14	8.10	27.73	75.8	5.07	10.0	19.4
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR3(N)	13:13	2.5	Bottom	3	2	28.09	8.12	27.29	77.1	5.16	10.5	18.7
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR4(N)	14:11	1.0	Surface	1	1	28.14	8.11	30.83	88.5	5.82	8.4	13.6
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR4(N)	14:11	1.0	Surface	1	2	28.08	8.12	29.27	84.2	5.59	8.3	13.3
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR4(N)	14:11	2.6	Bottom	3	1	28.12	8.11	31.05	82.4	5.41	8.1	16.2
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR4(N)	14:11	2.6	Bottom	3	2	28.16	8.11	30.99	80.7	5.31	8.5	16.0
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR5(N)	13:50	1.0	Surface	1	1	28.23	7.78	24.47	79.6	5.42	7.3	10.0
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR5(N)	13:49	1.0	Surface	1	2	28.23	7.77	24.45	79.0	5.38	7.4	9.9
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR5(N)	13:50	4.0	Middle	2	1	28.03	7.79	25.31	78.2	5.32	7.5	10.4
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR5(N)	13:49	4.0	Middle	2	2	28.05	7.79	25.25	77.7	5.28	7.4	10.1
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR5(N)	13:49	6.9	Bottom	3	1	27.98	7.80	25.45	77.2	5.25	8.5	12.6
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR5(N)	13:48	6.9	Bottom	3	2	27.94	7.79	25.55	77.1	5.24	8.1	12.8
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR10A(N)	14:45	1.0	Surface	1	1	27.98	7.84	25.60	77.9	5.29	3.2	10.7
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR10A(N)	14:44	1.0	Surface	1	2	27.97	7.84	25.69	77.5	5.26	3.2	11.4
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR10A(N)	14:44	6.7	Middle	2	1	27.82	7.83	26.32	76.0	5.15	4.1	11.7
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR10A(N)	14:44	6.7	Middle	2	2	27.90	7.83	26.15	75.7	5.13	4.0	11.4
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR10A(N)	14:43	12.4	Bottom	3	1	27.64	7.83	26.70	75.5	5.12	4.4	13.2

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	2018-08-29	Mid-Ebb	Cloudy	SR10A(N)	14:44	12.4	Bottom	3	2	27.62	7.83	26.70	75.1	5.10	4.3	12.8
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR10B(N2)	14:56	1.0	Surface	1	1	27.97	7.84	25.58	77.2	5.24	2.4	6.9
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR10B(N2)	14:57	1.0	Surface	1	2	27.78	7.83	26.11	78.6	5.34	2.6	6.7
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR10B(N2)	14:56	3.8	Middle	2	1	27.94	7.83	25.88	77.1	5.23	2.5	8.4
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR10B(N2)	14:57	3.8	Middle	2	2	27.80	7.83	26.79	77.2	5.22	2.6	8.1
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR10B(N2)	14:55	6.5	Bottom	3	1	27.93	7.83	25.97	76.5	5.20	2.9	10.3
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	SR10B(N2)	14:56	6.5	Bottom	3	2	27.60	7.83	26.79	76.3	5.18	3.0	10.0
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	CS2(A)	13:01	1.0	Surface	1	1	28.19	7.84	25.39	77.5	5.25	4.7	9.7
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	CS2(A)	13:00	1.0	Surface	1	2	28.25	7.84	25.25	78.4	5.31	4.9	9.9
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	CS2(A)	12:59	3.8	Middle	2	1	27.81	7.83	26.87	74.8	5.06	7.6	12.3
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	CS2(A)	13:00	3.8	Middle	2	2	27.79	7.83	26.79	74.5	5.04	7.6	12.2
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	CS2(A)	12:59	6.5	Bottom	3	1	27.66	7.84	27.05	74.1	5.02	8.0	13.9
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	CS2(A)	13:00	6.5	Bottom	3	2	27.66	7.83	27.01	74.0	5.01	7.9	13.7
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	CS(Mf)5	14:45	1.0	Surface	1	1	28.01	8.11	31.01	80.2	5.25	10.4	11.5
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	CS(Mf)5	14:45	1.0	Surface	1	2	28.07	8.11	30.80	81.7	5.34	10.8	11.9
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	CS(Mf)5	14:45	6.0	Middle	2	1	27.61	8.11	33.37	76.5	5.02	10.8	14.5
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	CS(Mf)5	14:44	6.0	Middle	2	2	27.58	8.11	33.23	77.0	5.05	10.8	14.9
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	CS(Mf)5	14:45	11.0	Bottom	3	1	27.65	8.10	33.76	74.2	4.84	10.7	15.0
HKLR	HY/2011/03	2018-08-29	Mid-Ebb	Cloudy	CS(Mf)5	14:44	11.0	Bottom	3	2	27.57	8.11	33.46	75.7	4.96	10.8	15.3
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS5	8:37	1.0	Surface	1	1	28.00	8.10	32.47	78.3	5.12	7.6	10.5
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS5	8:38	1.0	Surface	1	2	28.00	8.10	32.58	82.8	5.41	7.4	10.3
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS5	8:37	4.3	Middle	2	1	28.01	8.10	32.72	76.7	5.01	7.5	13.3
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS5	8:38	4.3	Middle	2	2	28.01	8.10	32.62	81.0	5.28	7.5	13.3
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS5	8:37	7.6	Bottom	3	1	28.01	8.11	32.76	75.4	4.92	7.5	14.5
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS5	8:37	7.6	Bottom	3	2	28.00	8.10	32.75	75.9	4.95	7.7	14.6
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS(Mf)6	8:29	1.0	Surface	1	1	27.92	8.11	32.19	86.0	5.61	10.5	6.2
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS(Mf)6	8:29	1.0	Surface	1	2	27.94	8.10	32.17	79.2	5.19	10.5	6.8
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS(Mf)6	8:29	2.2	Bottom	3	1	27.97	8.10	32.40	74.8	4.89	12.5	8.0
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS(Mf)6	8:29	2.2	Bottom	3	2	27.97	8.09	32.59	74.6	4.89	12.9	8.6
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS7	8:19	1.0	Surface	1	1	27.88	8.10	32.10	80.7	5.29	11.1	9.0
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS7	8:19	1.0	Surface	1	2	27.90	8.10	32.18	78.2	5.13	11.2	9.4
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS7	8:19	2.2	Bottom	3	1	27.91	8.09	32.33	75.6	4.96	11.1	11.4
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS7	8:19	2.2	Bottom	3	2	27.91	8.10	32.14	76.8	5.03	11.1	11.1
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS8	7:51	1.0	Surface	1	1	27.87	8.12	32.53	82.2	5.38	10.0	12.3
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS8	7:51	1.0	Surface	1	2	27.88	8.12	32.65	87.4	5.72	9.7	12.3
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS8	7:50	3.2	Bottom	3	1	27.85	8.12	32.67	79.9	5.22	10.3	13.8
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS8	7:51	3.2	Bottom	3	2	27.87	8.12	32.68	78.1	5.11	9.9	13.1
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS(Mf)9	8:10	1.0	Surface	1	1	27.92	8.11	32.95	77.7	5.07	8.9	8.3
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS(Mf)9	8:11	1.0	Surface	1	2	27.93	8.11	32.99	82.5	5.38	8.6	8.9
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS(Mf)9	8:10	2.7	Bottom	3	1	27.90	8.11	33.09	76.2	4.96	8.8	11.1
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS(Mf)9	8:10	2.7	Bottom	3	2	27.93	8.11	33.08	75.7	4.94	8.8	10.8
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS10(N)	8:02	1.0	Surface	1	1	27.87	7.83	25.32	75.1	5.12	6.8	8.6
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS10(N)	8:04	1.0	Surface	1	2	27.87	7.83	25.35	74.8	5.09	6.6	8.1
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS10(N)	8:03	5.4	Middle	2	1	27.84	7.83	25.56	74.3	5.06	7.1	9.8
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS10(N)	8:02	5.4	Middle	2	2	27.84	7.84	25.64	74.8	5.09	7.2	10.4
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS10(N)	8:03	9.7	Bottom	3	1	27.76	7.84	25.95	74.0	5.03	7.9	10.1
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	IS10(N)	8:01	9.7	Bottom	3	2	27.78	7.84	25.93	74.7	5.08	8.0	10.5
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR3(N)	8:48	1.0	Surface	1	1	28.00	8.10	32.46	84.5	5.52	10.6	9.7
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR3(N)	8:48	1.0	Surface	1	2	28.00	8.10	32.37	80.0	5.23	10.9	10.3
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR3(N)	8:48	2.5	Bottom	3	1	28.01	8.10	32.61	77.8	5.08	11.9	12.2
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR3(N)	8:48	2.5	Bottom	3	2	28.01	8.10	32.61	76.2	4.98	11.3	12.5
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR4(N)	7:58	1.0	Surface	1	1	27.85	8.11	33.10	82.0	5.35	10.2	6.6
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR4(N)	7:58	1.0	Surface	1	2	27.85	8.11	33.22	87.0	5.67	10.5	6.2
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR4(N)	7:58	2.7	Bottom	3	1	27.85	8.11	33.16	79.2	5.16	11.8	9.1
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR4(N)	7:58	2.7	Bottom	3	2	27.85	8.11	33.30	77.1	5.03	11.5	9.0
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR5(N)	8:17	1.0	Surface	1	1	27.86	7.83	25.36	74.3	5.06	6.2	10.2
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR5(N)	8:18	1.0	Surface	1	2	27.87	7.83	25.35	74.4	5.07	6.4	10.2
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR5(N)	8:16	4.1	Middle	2	1	27.82	7.83	25.61	73.4	5.00	7.4	11.8

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	2018-08-29	Mid-Flood	Cloudy	SR5(N)	8:17	4.1	Middle	2	2	27.85	7.83	25.48	74.0	5.04	7.2	12.1
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR5(N)	8:17	7.1	Bottom	3	1	27.75	7.83	25.98	73.6	5.01	7.4	12.2
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR5(N)	8:16	7.1	Bottom	3	2	27.73	7.83	26.03	73.1	4.98	7.5	12.9
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR10A(N)	7:14	1.0	Surface	1	1	27.91	7.81	24.85	77.5	5.29	3.7	9.5
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR10A(N)	7:15	1.0	Surface	1	2	27.90	7.81	24.77	77.5	5.29	3.6	9.8
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR10A(N)	7:14	6.9	Middle	2	1	27.89	7.81	25.48	75.2	5.12	4.3	11.2
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR10A(N)	7:15	6.9	Middle	2	2	27.89	7.81	25.53	75.1	5.11	4.2	11.4
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR10A(N)	7:13	12.7	Bottom	3	1	27.75	7.82	26.16	75.0	5.10	4.6	12.7
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR10A(N)	7:14	12.7	Bottom	3	2	27.75	7.82	26.20	74.9	5.09	4.5	13.0
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR10B(N2)	7:02	1.0	Surface	1	1	27.90	7.81	25.14	77.0	5.25	3.0	8.6
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR10B(N2)	7:03	1.0	Surface	1	2	27.91	7.81	24.97	76.9	5.25	2.9	8.7
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR10B(N2)	7:02	4.1	Middle	2	1	27.86	7.82	25.33	76.2	5.19	4.2	9.1
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR10B(N2)	7:02	4.1	Middle	2	2	27.90	7.81	25.31	76.0	5.18	4.1	10.0
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR10B(N2)	7:01	7.1	Bottom	3	1	27.81	7.82	25.88	75.6	5.14	4.5	10.7
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	SR10B(N2)	7:02	7.1	Bottom	3	2	27.74	7.82	26.16	75.3	5.12	4.5	11.1
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	CS2(A)	9:07	1.0	Surface	1	1	27.86	7.84	25.90	78.2	5.31	6.4	12.0
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	CS2(A)	9:08	1.0	Surface	1	2	27.94	7.83	25.60	79.9	5.43	6.5	12.3
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	CS2(A)	9:08	3.8	Middle	2	1	27.76	7.83	26.33	76.3	5.18	6.7	12.1
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	CS2(A)	9:06	3.8	Middle	2	2	27.77	7.84	26.33	76.8	5.21	6.8	12.6
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	CS2(A)	9:07	6.6	Bottom	3	1	27.76	7.83	26.42	76.1	5.16	7.4	13.3
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	CS2(A)	9:06	6.6	Bottom	3	2	27.76	7.84	26.45	76.6	5.19	7.5	13.2
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	CS(Mf)5	7:24	1.0	Surface	1	1	28.02	8.05	32.57	76.6	5.05	7.4	12.1
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	CS(Mf)5	7:23	1.0	Surface	1	2	28.07	8.03	33.18	78.5	5.11	7.0	12.4
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	CS(Mf)5	7:24	6.0	Middle	2	1	27.73	8.07	34.69	76.0	5.01	11.5	13.1
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	CS(Mf)5	7:23	6.0	Middle	2	2	27.67	8.06	36.00	76.2	5.02	11.6	13.2
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	CS(Mf)5	7:22	11.0	Bottom	3	1	27.43	8.04	37.86	73.6	4.79	11.3	15.8
HKLR	HY/2011/03	2018-08-29	Mid-Flood	Cloudy	CS(Mf)5	7:23	11.0	Bottom	3	2	27.53	8.05	36.55	72.7	4.77	11.9	15.6
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS5	14:28	1.0	Surface	1	1	27.83	8.03	31.22	82.1	5.41	9.3	12.6
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS5	14:28	1.0	Surface	1	2	27.84	8.03	31.15	84.6	5.58	9.4	12.9
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS5	14:27	4.2	Middle	2	1	27.81	8.03	31.29	83.3	5.49	9.6	13.9
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS5	14:28	4.2	Middle	2	2	27.82	8.03	31.33	81.5	5.38	9.5	13.9
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS5	14:28	7.4	Bottom	3	1	27.83	8.03	31.32	81.3	5.37	9.4	15.8
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS5	14:27	7.4	Bottom	3	2	27.80	8.03	31.39	82.7	5.46	9.5	16.5
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS(Mf)6	14:37	1.0	Surface	1	1	27.83	8.02	31.06	91.4	6.04	9.8	9.4
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS(Mf)6	14:36	1.0	Surface	1	2	27.83	8.03	31.05	85.1	5.62	9.7	9.3
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS(Mf)6	14:36	2.1	Bottom	3	1	27.83	8.04	31.06	81.6	5.39	9.9	9.7
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS(Mf)6	14:37	2.1	Bottom	3	2	27.83	8.02	31.07	80.3	5.30	9.8	10.3
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS7	14:47	1.0	Surface	1	1	27.96	8.04	28.33	89.7	5.93	4.8	8.1
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS7	14:46	1.0	Surface	1	2	27.94	8.04	28.38	86.7	5.80	5.0	7.6
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS7	14:46	2.3	Bottom	3	1	27.90	8.02	30.15	83.2	5.57	4.8	8.1
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS7	14:46	2.3	Bottom	3	2	27.89	8.03	30.56	83.6	5.55	4.8	7.9
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS8	15:18	1.0	Surface	1	1	27.96	8.03	27.73	82.7	5.55	9.3	8.4
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS8	15:18	1.0	Surface	1	2	27.97	8.02	27.76	85.6	5.75	9.6	7.9
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS8	15:18	3.3	Bottom	3	1	27.86	8.01	29.92	77.0	5.04	10.1	8.0
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS8	15:18	3.3	Bottom	3	2	27.84	8.01	30.07	83.7	5.56	10.2	8.3
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS(Mf)9	14:59	1.0	Surface	1	1	28.02	8.02	27.40	90.7	6.02	7.4	8.1
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS(Mf)9	14:58	1.0	Surface	1	2	28.01	8.02	27.40	85.9	5.78	7.4	8.0
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS(Mf)9	14:58	2.8	Bottom	3	1	27.89	8.00	30.05	82.0	5.51	7.5	9.6
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS(Mf)9	14:58	2.8	Bottom	3	2	27.88	8.01	29.85	82.7	5.49	7.4	10.0
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS10(N)	15:06	1.0	Surface	1	1	28.26	7.71	16.26	81.9	5.83	4.4	7.2
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS10(N)	15:08	1.0	Surface	1	2	28.25	7.70	16.32	81.9	5.83	4.3	7.1
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS10(N)	15:06	5.2	Middle	2	1	28.18	7.76	17.98	80.7	5.70	5.5	7.5
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS10(N)	15:07	5.2	Middle	2	2	28.19	7.75	17.87	80.8	5.71	5.5	7.9
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS10(N)	15:07	9.4	Bottom	3	1	27.86	7.80	20.72	79.8	5.58	6.3	9.1
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	IS10(N)	15:06	9.4	Bottom	3	2	27.87	7.80	20.61	80.0	5.59	6.4	9.4
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR3(N)	14:19	1.0	Surface	1	1	27.86	8.04	30.57	88.8	5.89	7.9	15.2
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR3(N)	14:18	1.0	Surface	1	2	27.85	8.05	30.38	83.2	5.52	8.4	14.7
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR3(N)	14:18	2.5	Bottom	3	1	27.83	8.04	30.81	81.5	5.39	8.9	17.4

Water Quality Monitoring Data

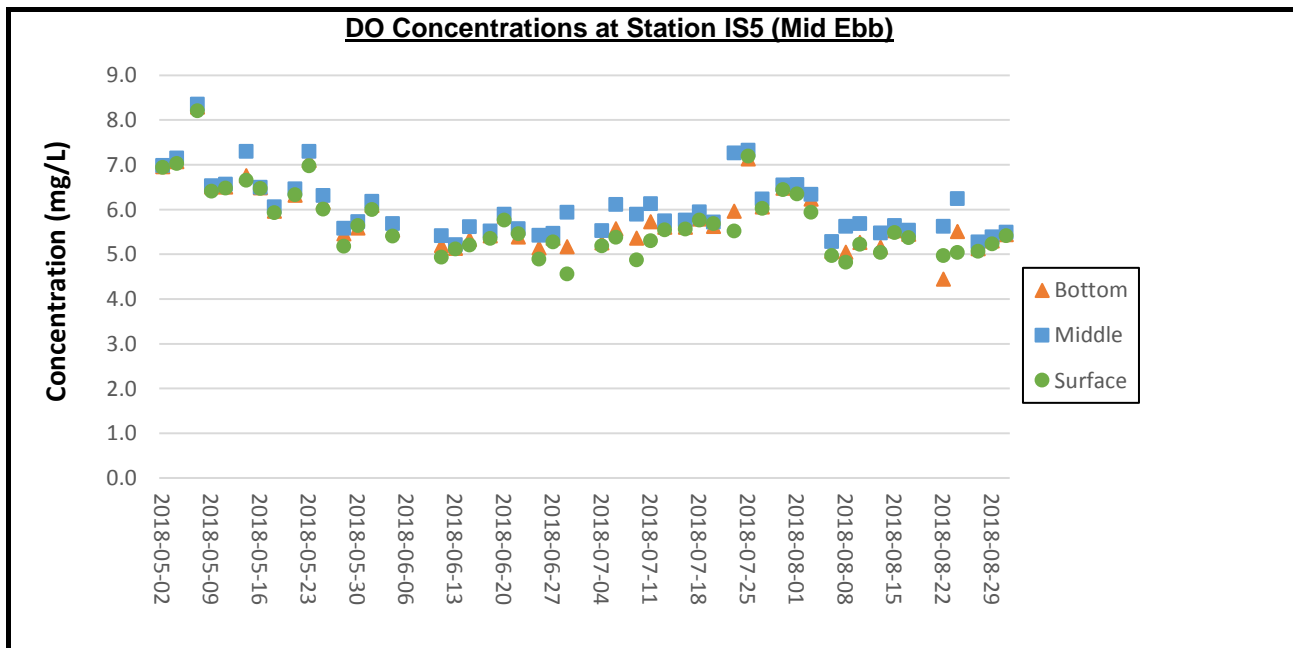
Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR3(N)	14:18	2.5	Bottom	3	2	27.82	8.09	30.33	82.3	5.44	8.2	17.8
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR4(N)	15:12	1.0	Surface	1	1	27.90	7.99	28.40	79.7	5.33	10.9	16.0
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR4(N)	15:12	1.0	Surface	1	2	27.91	8.00	28.61	84.5	5.63	10.5	16.7
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR4(N)	15:11	2.9	Bottom	3	1	27.89	7.99	29.12	76.9	5.13	11.1	17.9
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR4(N)	15:12	2.9	Bottom	3	2	27.89	7.99	29.16	75.9	5.08	11.2	18.3
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR5(N)	14:51	1.0	Surface	1	1	28.25	7.73	16.05	82.7	5.90	4.3	10.5
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR5(N)	14:52	1.0	Surface	1	2	28.27	7.72	16.02	82.3	5.87	4.3	10.4
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR5(N)	14:51	3.9	Middle	2	1	28.05	7.79	18.68	79.5	5.60	4.7	10.2
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR5(N)	14:52	3.9	Middle	2	2	28.16	7.76	17.93	79.8	5.63	4.5	9.7
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR5(N)	14:50	6.8	Bottom	3	1	27.80	7.81	21.59	78.9	5.50	5.1	11.2
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR5(N)	14:52	6.8	Bottom	3	2	27.83	7.80	21.19	79.0	5.51	5.2	11.5
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR10A(N)	15:47	1.0	Surface	1	1	27.96	7.78	20.50	81.8	5.72	3.2	5.3
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR10A(N)	15:49	1.0	Surface	1	2	27.89	7.78	20.98	81.0	5.65	3.1	4.4
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR10A(N)	15:47	6.6	Middle	2	1	27.66	7.79	22.44	78.3	5.44	3.4	6.0
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR10A(N)	15:48	6.6	Middle	2	2	27.54	7.78	23.08	78.5	5.46	3.5	6.6
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR10A(N)	15:48	12.2	Bottom	3	1	27.65	7.78	22.47	77.9	5.40	3.7	7.8
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR10A(N)	15:47	12.2	Bottom	3	2	27.52	7.79	23.24	77.3	5.36	3.7	8.2
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR10B(N2)	16:01	1.0	Surface	1	1	27.94	7.78	20.50	81.2	5.67	2.7	4.4
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR10B(N2)	16:00	1.0	Surface	1	2	27.92	7.78	20.49	80.3	5.62	2.8	4.0
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR10B(N2)	16:01	3.8	Middle	2	1	27.72	7.77	22.07	79.2	5.51	2.8	4.3
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR10B(N2)	16:00	3.8	Middle	2	2	27.63	7.78	22.59	78.5	5.45	2.9	4.7
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR10B(N2)	16:00	6.6	Bottom	3	1	27.66	7.78	22.43	79.0	5.49	3.2	5.7
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	SR10B(N2)	15:59	6.6	Bottom	3	2	27.61	7.78	22.72	78.2	5.43	3.1	5.3
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	CS2(A)	14:07	1.0	Surface	1	1	28.14	7.84	20.09	89.3	6.24	3.7	6.2
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	CS2(A)	14:06	1.0	Surface	1	2	28.14	7.85	20.13	88.6	6.19	3.7	5.6
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	CS2(A)	14:06	3.8	Middle	2	1	27.76	7.84	22.71	82.3	5.70	3.9	7.0
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	CS2(A)	14:07	3.8	Middle	2	2	27.76	7.83	22.60	83.0	5.75	3.8	6.6
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	CS2(A)	14:06	6.6	Bottom	3	1	27.73	7.83	23.23	81.1	5.61	4.1	6.9
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	CS2(A)	14:07	6.6	Bottom	3	2	27.74	7.83	23.08	81.7	5.65	4.2	6.3
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	CS(Mf)5	15:43	1.0	Surface	1	1	28.03	8.02	26.00	78.5	5.31	6.6	5.8
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	CS(Mf)5	15:42	1.0	Surface	1	2	28.00	8.02	24.12	76.3	5.22	6.7	6.2
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	CS(Mf)5	15:42	6.3	Middle	2	1	27.58	8.02	29.68	76.3	5.11	7.6	8.3
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	CS(Mf)5	15:42	6.3	Middle	2	2	27.61	8.01	29.79	75.1	5.02	7.8	8.0
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	CS(Mf)5	15:42	11.5	Bottom	3	1	27.06	8.00	35.22	71.9	4.80	7.9	9.7
HKLR	HY/2011/03	2018-08-31	Mid-Ebb	Sunny	CS(Mf)5	15:42	11.5	Bottom	3	2	26.91	8.00	35.18	74.2	4.95	8.2	9.3
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS5	10:19	1.0	Surface	1	1	27.75	8.02	31.31	86.2	5.64	10.3	9.3
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS5	10:20	1.0	Surface	1	2	27.74	8.02	31.39	81.6	5.35	10.3	9.5
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS5	10:19	4.3	Middle	2	1	27.72	8.02	32.61	81.3	5.33	10.5	9.9
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS5	10:19	4.3	Middle	2	2	27.72	8.02	32.54	83.9	5.50	10.6	9.4
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS5	10:19	7.6	Bottom	3	1	27.73	8.01	32.83	80.8	5.30	10.6	10.1
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS5	10:19	7.6	Bottom	3	2	27.71	8.02	32.85	82.9	5.48	10.5	10.3
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS(Mf)6	10:12	1.0	Surface	1	1	27.74	8.00	32.96	86.4	5.69	11.4	16.3
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS(Mf)6	10:11	1.0	Surface	1	2	27.74	8.01	31.83	91.3	5.96	11.4	16.5
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS(Mf)6	10:11	2.1	Bottom	3	1	27.74	8.00	33.23	81.5	5.33	11.7	18.0
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS(Mf)6	10:11	2.1	Bottom	3	2	27.74	8.02	33.27	84.1	5.49	11.6	18.6
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS7	10:04	1.0	Surface	1	1	27.80	8.02	31.10	88.9	5.87	6.1	8.4
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS7	10:04	1.0	Surface	1	2	27.80	8.02	31.09	95.7	6.32	6.0	8.6
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS7	10:04	2.1	Bottom	3	1	27.77	8.04	31.28	86.8	5.73	6.2	9.2
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS7	10:04	2.1	Bottom	3	2	27.79	8.02	31.22	84.5	5.58	6.1	8.6
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS8	9:29	1.0	Surface	1	1	27.89	8.03	28.22	85.7	5.74	12.1	17.3
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS8	9:30	1.0	Surface	1	2	27.89	8.02	28.51	89.5	5.92	12.7	16.7
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS8	9:29	3.2	Bottom	3	1	27.88	8.02	30.54	84.3	5.56	12.3	18.8
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS8	9:29	3.2	Bottom	3	2	27.89	8.01	30.87	83.3	5.57	12.3	19.3
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS(Mf)9	9:56	1.0	Surface	1	1	27.85	8.03	29.74	91.8	6.09	7.3	9.3
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS(Mf)9	9:56	1.0	Surface	1	2	27.85	8.03	30.70	87.7	5.80	7.0	8.8

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	2018-08-31	Mid-Flood	Sunny	IS(Mf)9	9:56	2.8	Bottom	3	1	27.83	8.02	32.14	83.1	5.52	7.7	9.8
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS(Mf)9	9:56	2.8	Bottom	3	2	27.87	8.04	29.97	84.2	5.53	7.3	10.2
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS10(N)	9:34	1.0	Surface	1	1	27.91	7.72	18.75	80.5	5.69	4.9	5.9
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS10(N)	9:33	1.0	Surface	1	2	27.95	7.71	18.61	80.7	5.70	5.1	6.4
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS10(N)	9:33	5.4	Middle	2	1	27.80	7.75	20.51	81.0	5.68	5.8	6.2
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS10(N)	9:34	5.4	Middle	2	2	27.80	7.75	20.43	80.1	5.61	5.8	6.3
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS10(N)	9:33	9.7	Bottom	3	1	27.75	7.76	22.24	79.7	5.53	7.4	5.7
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	IS10(N)	9:32	9.7	Bottom	3	2	27.74	7.77	22.04	80.8	5.62	8.0	6.5
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR3(N)	10:28	1.0	Surface	1	1	27.77	8.02	32.28	89.2	5.85	8.9	11.7
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR3(N)	10:28	1.0	Surface	1	2	27.77	8.03	31.82	85.3	5.61	8.9	12.0
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR3(N)	10:28	2.4	Bottom	3	1	27.76	8.02	32.43	81.5	5.35	9.3	14.1
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR3(N)	10:28	2.4	Bottom	3	2	27.75	8.03	32.55	83.1	5.45	8.8	14.5
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR4(N)	9:38	1.0	Surface	1	1	27.91	8.01	29.71	94.9	6.31	14.4	16.5
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR4(N)	9:38	1.0	Surface	1	2	27.91	8.01	29.45	89.3	5.94	13.8	16.9
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR4(N)	9:38	2.7	Bottom	3	1	27.89	8.03	29.72	83.0	5.51	13.8	18.2
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR4(N)	9:38	2.7	Bottom	3	2	27.90	8.01	29.88	82.2	5.46	14.2	18.2
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR5(N)	9:46	1.0	Surface	1	1	27.93	7.71	18.64	80.2	5.67	5.2	8.2
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR5(N)	9:46	1.0	Surface	1	2	27.92	7.71	18.69	80.0	5.65	5.1	8.0
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR5(N)	9:46	4.1	Middle	2	1	27.82	7.74	20.16	79.8	5.58	5.6	8.6
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR5(N)	9:45	4.1	Middle	2	2	27.80	7.75	20.37	79.7	5.59	5.7	9.0
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR5(N)	9:45	7.2	Bottom	3	1	27.75	7.76	21.46	79.0	5.51	4.3	9.6
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR5(N)	9:46	7.2	Bottom	3	2	27.78	7.73	22.45	79.5	5.55	4.7	9.5
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR10A(N)	8:43	1.0	Surface	1	1	27.90	7.71	20.03	79.3	5.56	2.8	6.6
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR10A(N)	8:44	1.0	Surface	1	2	27.90	7.71	20.04	79.0	5.54	3.0	6.8
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR10A(N)	8:43	6.8	Middle	2	1	27.83	7.73	21.25	77.3	5.39	3.8	7.2
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR10A(N)	8:42	6.8	Middle	2	2	27.82	7.73	21.46	77.2	5.38	3.8	7.8
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR10A(N)	8:43	12.5	Bottom	3	1	27.72	7.73	22.78	76.8	5.32	3.9	7.4
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR10A(N)	8:42	12.5	Bottom	3	2	27.72	7.73	22.98	76.6	5.30	4.0	7.9
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR10B(N2)	8:28	1.0	Surface	1	1	27.89	7.69	19.92	79.8	5.60	3.1	6.7
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR10B(N2)	8:29	1.0	Surface	1	2	27.90	7.70	20.03	79.6	5.59	3.2	6.4
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR10B(N2)	8:28	4.0	Middle	2	1	27.86	7.71	21.26	78.1	5.45	3.5	8.7
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR10B(N2)	8:29	4.0	Middle	2	2	27.88	7.72	20.75	78.0	5.45	3.4	8.3
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR10B(N2)	8:29	7.0	Bottom	3	1	27.77	7.73	22.42	77.7	5.39	4.1	9.4
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	SR10B(N2)	8:28	7.0	Bottom	3	2	27.76	7.72	22.54	77.8	5.40	4.2	9.8
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	CS2(A)	10:34	1.0	Surface	1	1	27.88	7.79	21.05	86.4	6.03	7.5	8.2
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	CS2(A)	10:33	1.0	Surface	1	2	27.88	7.79	21.13	85.8	5.98	7.7	8.8
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	CS2(A)	10:33	4.0	Middle	2	1	27.83	7.79	21.44	84.2	5.87	7.8	9.7
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	CS2(A)	10:32	4.0	Middle	2	2	27.83	7.79	21.48	84.0	5.85	7.9	9.4
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	CS2(A)	10:33	6.9	Bottom	3	1	27.84	7.78	22.29	83.8	5.81	6.8	11.7
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	CS2(A)	10:32	6.9	Bottom	3	2	27.85	7.78	22.34	83.7	5.80	5.8	12.0
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	CS(Mf)5	8:52	1.0	Surface	1	1	27.94	7.97	30.83	79.4	5.24	5.1	7.6
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	CS(Mf)5	8:52	1.0	Surface	1	2	27.93	7.99	30.12	79.0	5.17	5.2	7.8
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	CS(Mf)5	8:52	5.9	Middle	2	1	27.73	8.01	35.45	78.1	5.03	5.7	9.6
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	CS(Mf)5	8:51	5.9	Middle	2	2	27.77	8.00	36.41	78.2	5.08	5.7	9.3
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	CS(Mf)5	8:51	10.7	Bottom	3	1	27.66	7.99	38.80	75.0	4.81	6.6	9.8
HKLR	HY/2011/03	2018-08-31	Mid-Flood	Sunny	CS(Mf)5	8:52	10.7	Bottom	3	2	27.63	7.99	38.21	77.9	4.96	6.4	9.4

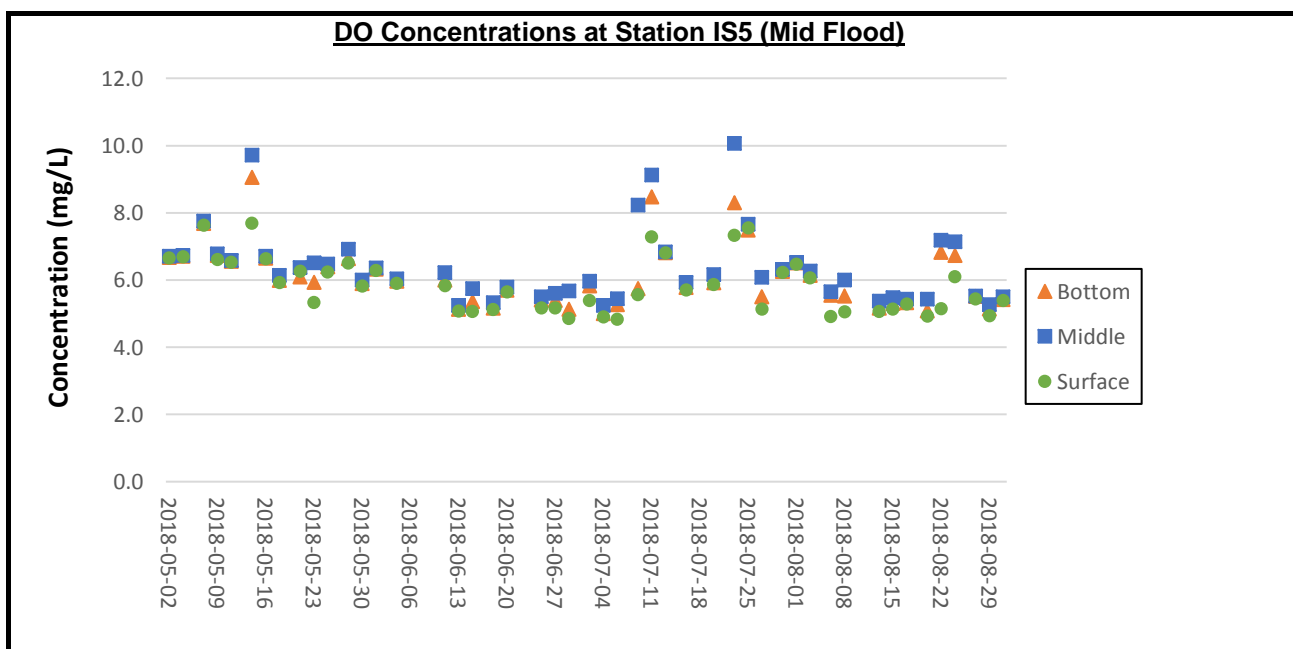
Remarks:

- 1) Due to adverse weather condition (hoisting Tropical Cyclone Warning Signal, No. 1, Thunderstorm Warning and Amber Rainstorm Warning Signal), water quality monitoring for ebb tide on 6 June 2018 was cancelled due to safety reasons. The water quality monitoring for flood tide on 6 June 2018 was also cancelled except at stations SR10B(N2) and SR10A(N).
- 2) Due to adverse weather condition (hoisting of Strong Wind Signal, No. 3), water quality monitoring for both ebb and flood tides on 8 June 2018 were cancelled due to safety reasons.
- 3) Thunderstorm Warning and Amber Rainstorm Warning Signal were issued by Hong Kong Observatory on 22 June 2018 and 22 August 2018. The water quality monitoring for flood tide at all stations on 22 June 2018 and the water quality monitoring at SR10A(N) and SR10B(N2) for flood tide on 22 August 2018 was cancelled due to safety reason.
- 4) As the Strong Wind Signal No.3 was hoisted and Thunderstorm Warning was issued by Hong Kong Observatory. The water quality monitoring for flood tide on 18 July 2018 was cancelled due to safety reasons.
- 5) Thunderstorm Warning was issued by Hong Kong Observatory on 2 July 2018, 10 and 20 August 2018. The water quality monitoring for ebb tide on 2 July 2018 and 20 August 2018; and the water quality monitoring for flood tide on 10 August 2018 were cancelled due to safety reasons.
- 6) Thunderstorm Warning was issued by the Hong Kong Observatory on 6 August 2018. The water quality monitoring for flood tide on 6 August 2018 was cancelled due to safety reason except at stations CS2(A), SR3(N),and IS5.



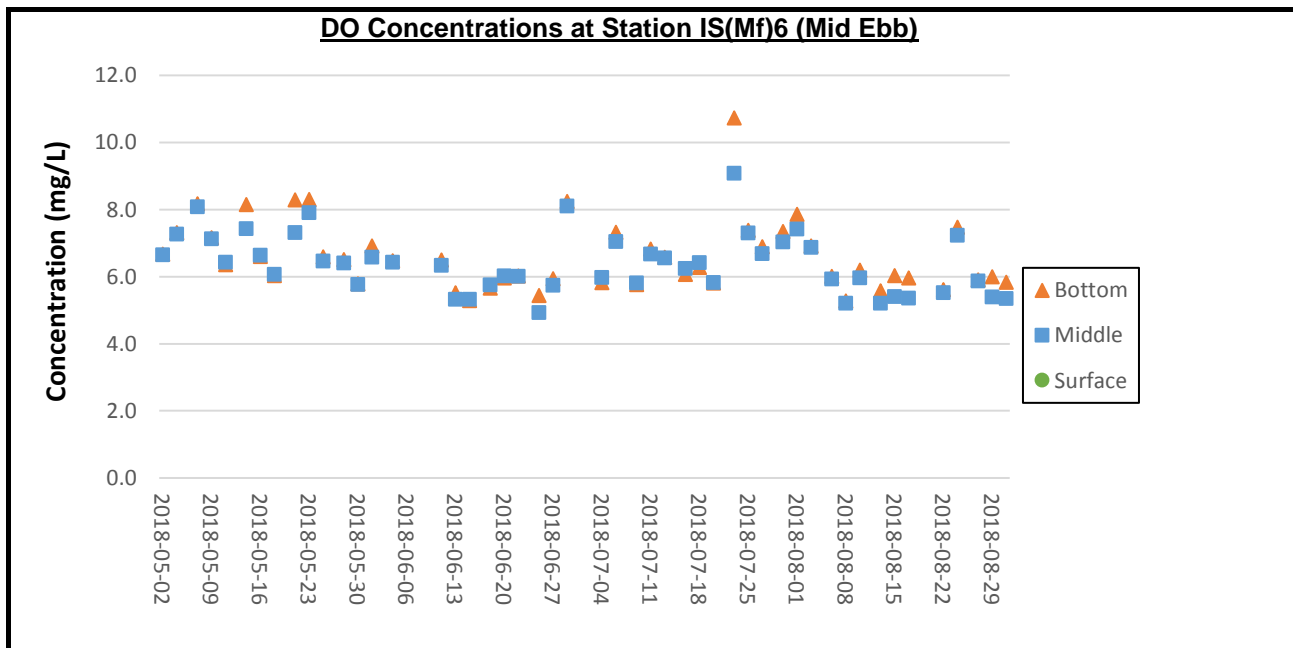
Remarks:

- 1) Due to adverse weather condition (hoisting Tropical Cyclone Warning Signal, No. 1, Thunderstorm Warning and Amber Rainstorm Warning Signal), water quality monitoring on 6 June 2018 for ebb tide was cancelled due to safety reasons.
- 2) Due to adverse weather condition (hoisting of Strong Wind Signal, No. 3), water quality monitoring on 8 June 2018 were cancelled due to safety reasons.
- 3) Thunderstorm Warning was issued by Hong Kong Observatory on 2 July 2018. The water quality monitoring for ebb tide on 2 July 2018 was cancelled due to safety reasons.
- 4) Thunderstorm Warning was issued by the Hong Kong Observatory on 20 August 2018. The water quality monitoring for ebb tide on 20 August 2018 was cancelled due to safety reason.



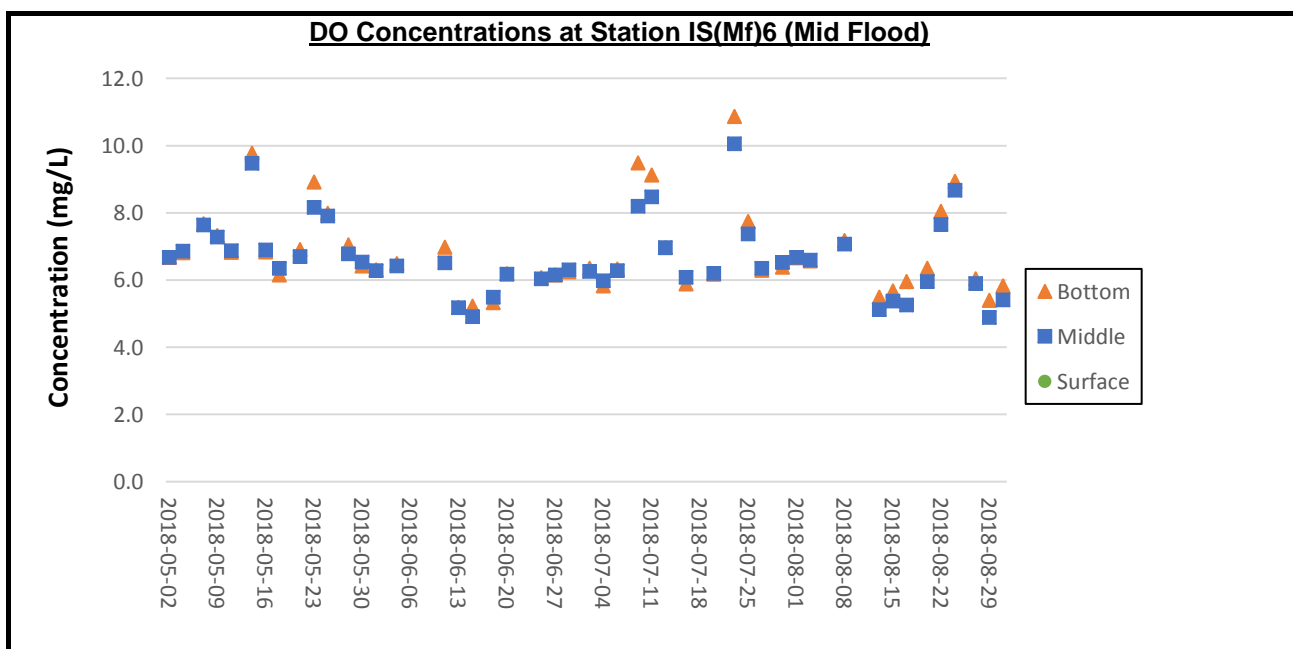
Remarks:

- 1) Due to adverse weather condition (hoisting Tropical Cyclone Warning Signal, No. 1, Thunderstorm Warning and Amber Rainstorm Warning signal), water quality monitoring for flood tide on 6 June 2018 was cancelled due to safety reasons.
- 2) Due to adverse weather condition (hoisting of Strong Wind Signal, No. 3), water quality monitoring on 8 June 2018 were cancelled due to safety reasons.
- 3) Thunderstorm Warning and Amber Rainstorm Warning Signal were issued by Hong Kong Observatory in the afternoon of 22 June 2018. The water quality monitoring for flood tide on 22 June 2018 was cancelled due to safety reason.
- 4) As the Strong Wind Signal No.3 was hoisted and Thunderstorm Warning was issued by Hong Kong Observatory. The water quality monitoring for flood tide on 18 July 2018 was cancelled due to safety reasons.
- 5) Thunderstorm Warning was issued by the Hong Kong Observatory on 6 August 2018. Except for water quality monitoring of flood tide at stations CS2(A), SR3(N) and IS5, the water quality monitoring for flood tide on 6 August 2018 was cancelled due to safety reason.
- 6) Thunderstorm Warning was issued by the Hong Kong Observatory on 10 August 2018. The water quality monitoring for flood tide on 10 August 2018 was cancelled due to safety reason.



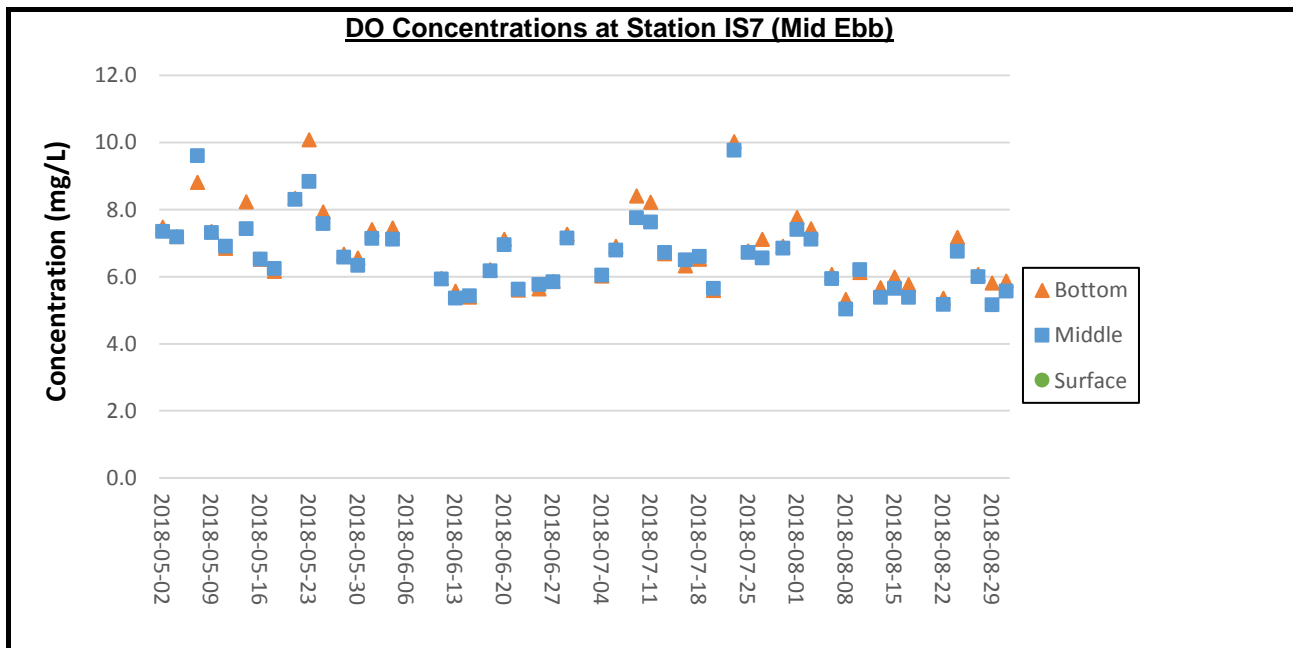
Remarks:

- 1) Due to adverse weather condition (hoisting Tropical Cyclone Warning Signal, No. 1, Thunderstorm Warning and Amber Rainstorm Warning Signal), water quality monitoring on 6 June 2018 for ebb tide was cancelled due to safety reasons.
- 2) Due to adverse weather condition (hoisting of Strong Wind Signal, No. 3), water quality monitoring on 8 June 2018 were cancelled due to safety reasons.
- 3) Thunderstorm Warning was issued by Hong Kong Observatory on 2 July 2018. The water quality monitoring for ebb tide on 2 July 2018 was cancelled due to safety reasons.
- 4) Thunderstorm Warning was issued by the Hong Kong Observatory on 20 August 2018. The water quality monitoring for ebb tide on 20 August 2018 was cancelled due to safety reason.



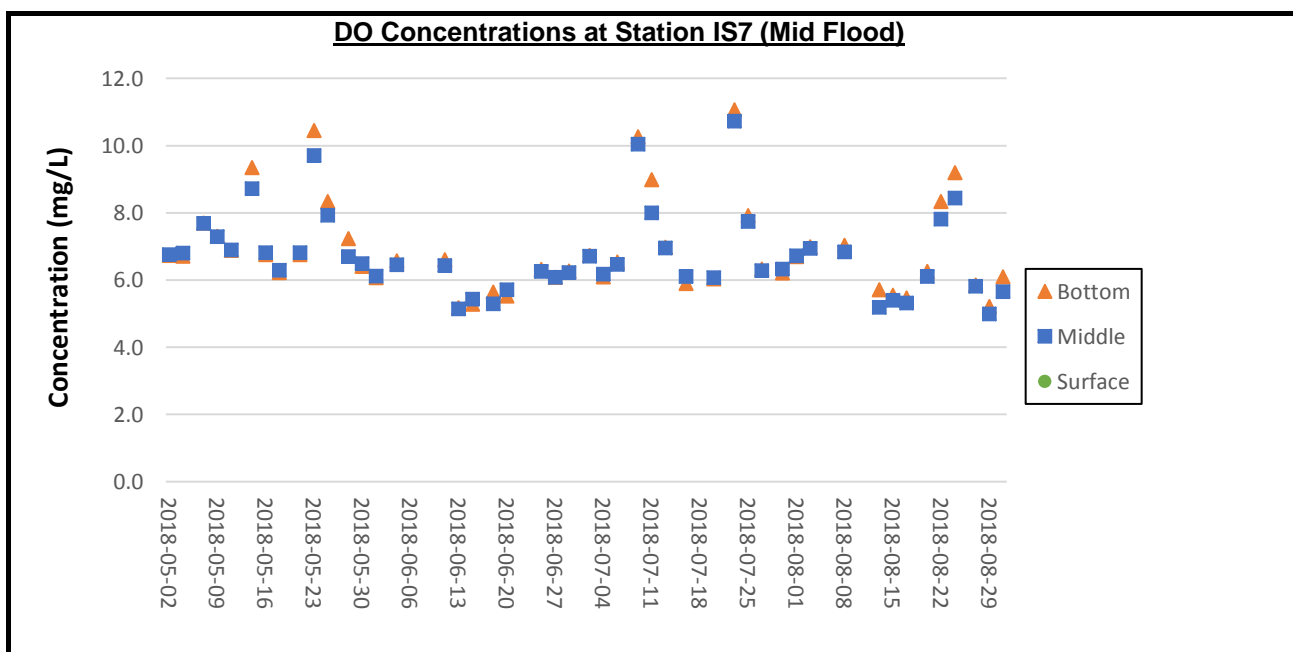
Remarks:

- 1) Due to adverse weather condition (hoisting Tropical Cyclone Warning Signal, No. 1, Thunderstorm Warning and Amber Rainstorm Warning signal), water quality monitoring for flood tide on 6 June 2018 was cancelled due to safety reasons.
- 2) Due to adverse weather condition (hoisting of Strong Wind Signal, No. 3), water quality monitoring on 8 June 2018 were cancelled due to safety reasons.
- 3) Thunderstorm Warning and Amber Rainstorm Warning Signal were issued by Hong Kong Observatory in the afternoon of 22 June 2018. The water quality monitoring for flood tide on 22 June 2018 was cancelled due to safety reason.
- 4) As the Strong Wind Signal No.3 was hoisted and Thunderstorm Warning was issued by Hong Kong Observatory. The water quality monitoring for flood tide on 18 July 2018 was cancelled due to safety reasons.
- 5) Thunderstorm Warning was issued by the Hong Kong Observatory on 6 August 2018. Except for water quality monitoring of flood tide at stations CS2(A), SR3(N) and IS5, the water quality monitoring for flood tide on 6 August 2018 was cancelled due to safety reason.
- 6) Thunderstorm Warning was issued by the Hong Kong Observatory on 10 August 2018. The water quality monitoring for flood tide on 10 August 2018 was cancelled due to safety reason.



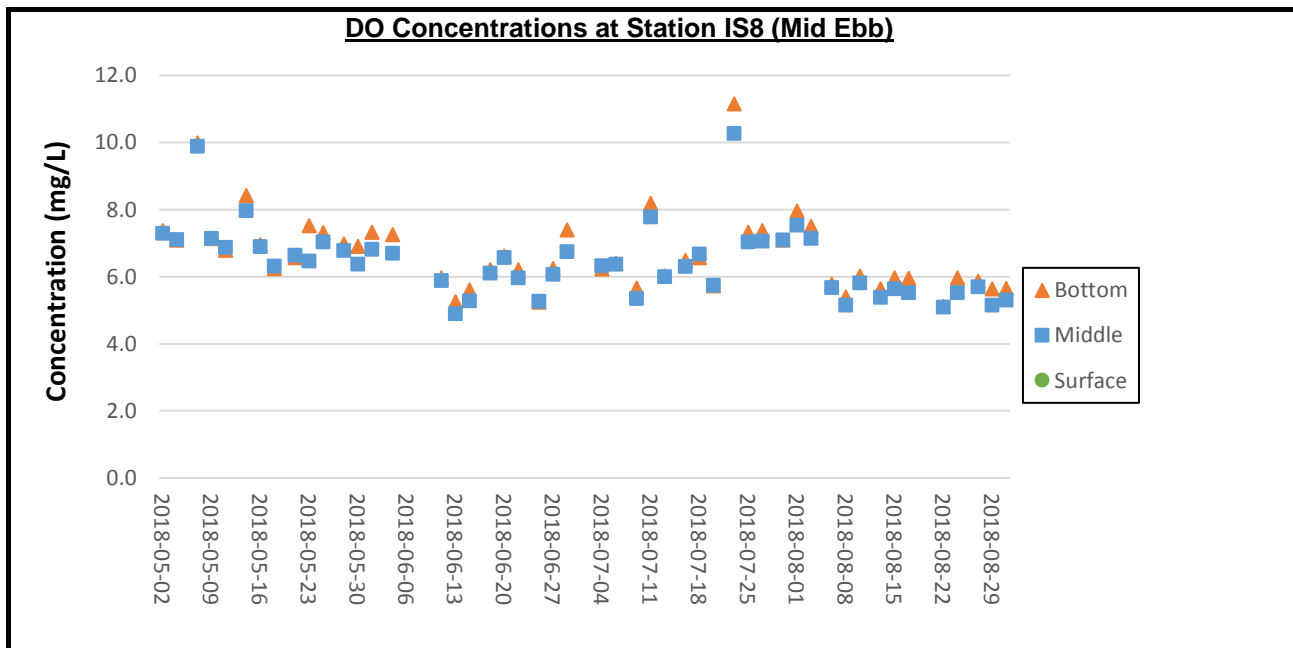
Remarks:

- 1) Due to adverse weather condition (hoisting Tropical Cyclone Warning Signal, No. 1, Thunderstorm Warning and Amber Rainstorm Warning Signal), water quality monitoring on 6 June 2018 for ebb tide was cancelled due to safety reasons.
- 2) Due to adverse weather condition (hoisting of Strong Wind Signal, No. 3), water quality monitoring on 8 June 2018 were cancelled due to safety reasons.
- 3) Thunderstorm Warning was issued by Hong Kong Observatory on 2 July 2018. The water quality monitoring for ebb tide on 2 July 2018 was cancelled due to safety reasons.
- 4) Thunderstorm Warning was issued by the Hong Kong Observatory on 20 August 2018. The water quality monitoring for ebb tide on 20 August 2018 was cancelled due to safety reason.



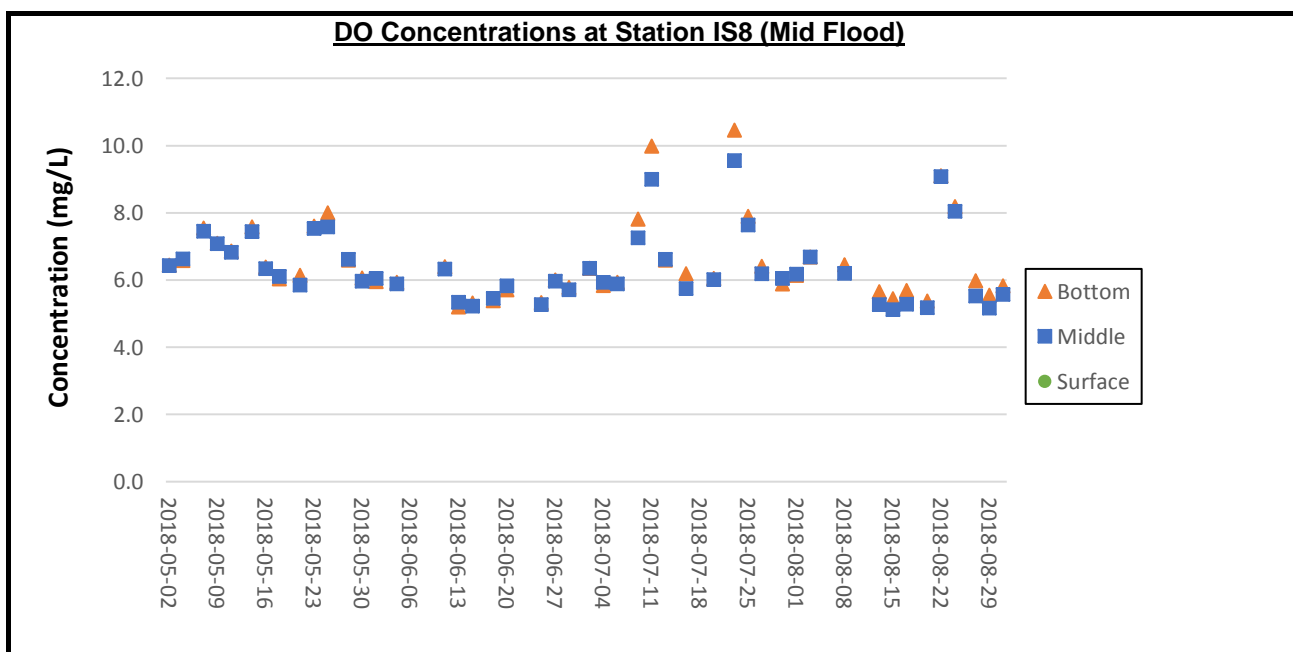
Remarks:

- 1) Due to adverse weather condition (hoisting Tropical Cyclone Warning Signal, No. 1, Thunderstorm Warning and Amber Rainstorm Warning signal), water quality monitoring for flood tide on 6 June 2018 was cancelled due to safety reasons.
- 2) Due to adverse weather condition (hoisting of Strong Wind Signal, No. 3), water quality monitoring on 8 June 2018 were cancelled due to safety reasons.
- 3) Thunderstorm Warning and Amber Rainstorm Warning Signal were issued by Hong Kong Observatory in the afternoon of 22 June 2018. The water quality monitoring for flood tide on 22 June 2018 was cancelled due to safety reason.
- 4) As the Strong Wind Signal No.3 was hoisted and Thunderstorm Warning was issued by Hong Kong Observatory. The water quality monitoring for flood tide on 18 July 2018 was cancelled due to safety reasons.
- 5) Thunderstorm Warning was issued by the Hong Kong Observatory on 6 August 2018. Except for water quality monitoring of flood tide at stations CS2(A), SR3(N) and IS5, the water quality monitoring for flood tide on 6 August 2018 was cancelled due to safety reason.
- 6) Thunderstorm Warning was issued by the Hong Kong Observatory on 10 August 2018. The water quality monitoring for flood tide on 10 August 2018 was cancelled due to safety reason.



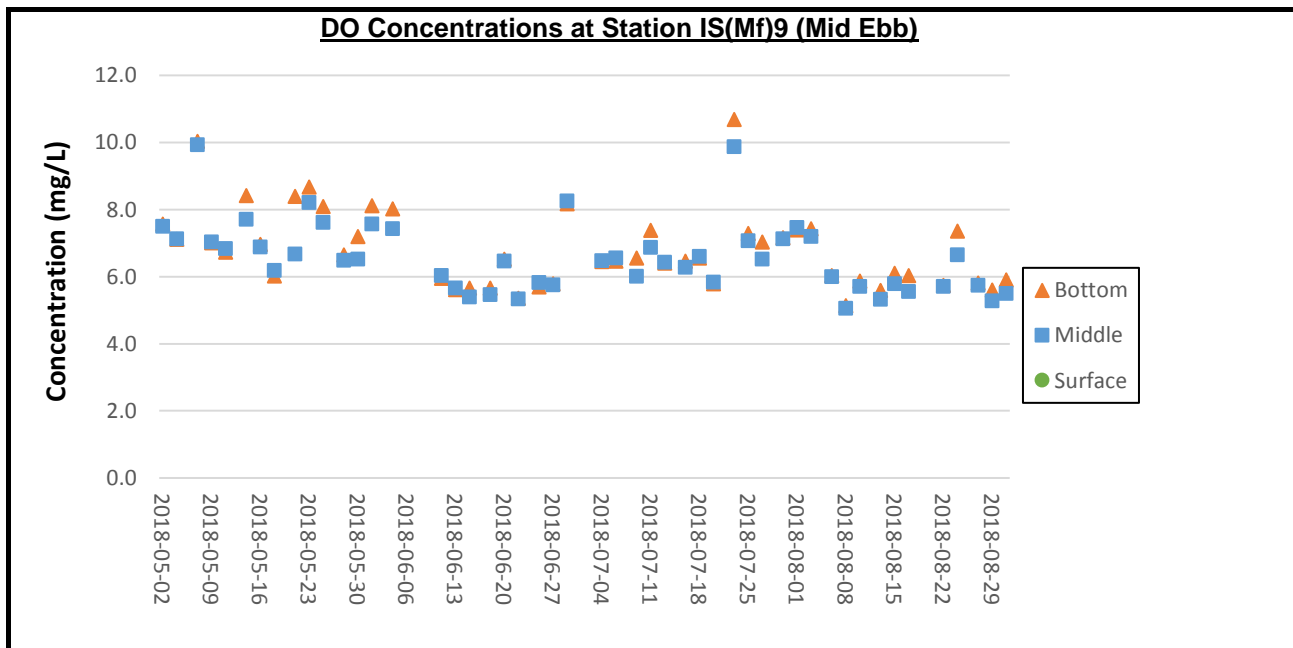
Remarks:

- 1) Due to adverse weather condition (hoisting Tropical Cyclone Warning Signal, No. 1, Thunderstorm Warning and Amber Rainstorm Warning Signal), water quality monitoring on 6 June 2018 for ebb tide was cancelled due to safety reasons.
- 2) Due to adverse weather condition (hoisting of Strong Wind Signal, No. 3), water quality monitoring on 8 June 2018 were cancelled due to safety reasons.
- 3) Thunderstorm Warning was issued by Hong Kong Observatory on 2 July 2018. The water quality monitoring for ebb tide on 2 July 2018 was cancelled due to safety reasons.
- 4) Thunderstorm Warning was issued by the Hong Kong Observatory on 20 August 2018. The water quality monitoring for ebb tide on 20 August 2018 was cancelled due to safety reason.



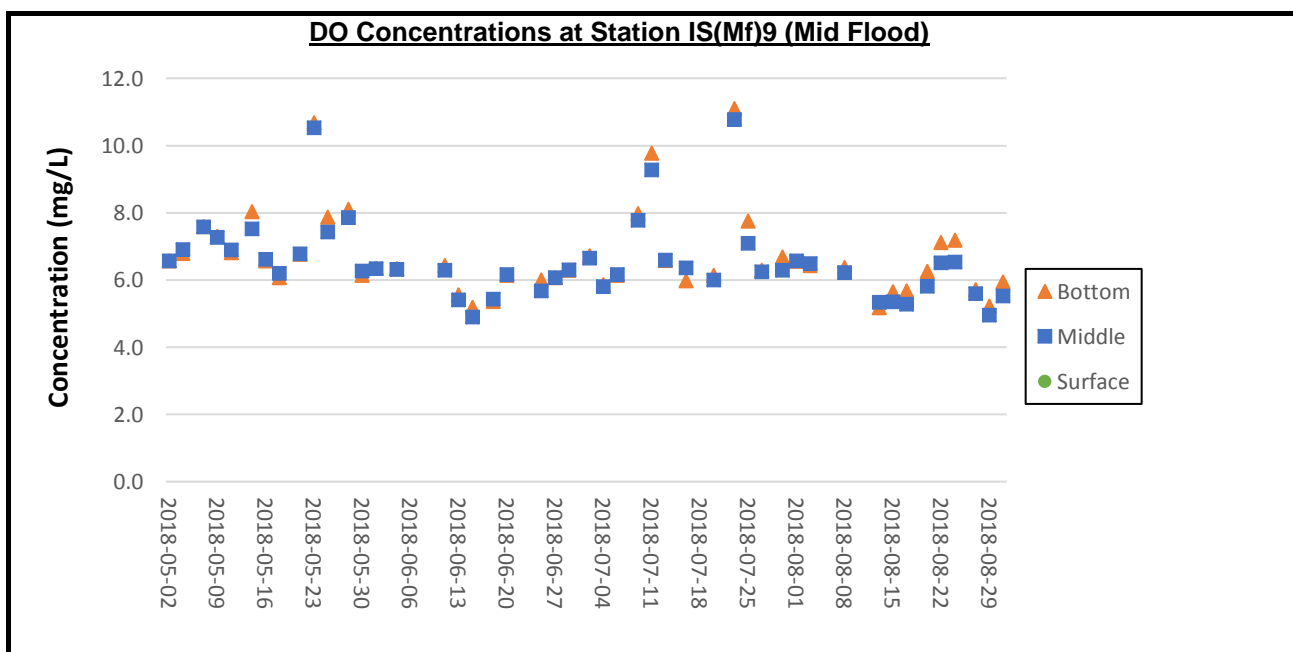
Remarks:

- 1) Due to adverse weather condition (hoisting Tropical Cyclone Warning Signal, No. 1, Thunderstorm Warning and Amber Rainstorm Warning signal), water quality monitoring for flood tide on 6 June 2018 was cancelled due to safety reasons.
- 2) Due to adverse weather condition (hoisting of Strong Wind Signal, No. 3), water quality monitoring on 8 June 2018 were cancelled due to safety reasons.
- 3) Thunderstorm Warning and Amber Rainstorm Warning Signal were issued by Hong Kong Observatory in the afternoon of 22 June 2018. The water quality monitoring for flood tide on 22 June 2018 was cancelled due to safety reason.
- 4) As the Strong Wind Signal No.3 was hoisted and Thunderstorm Warning was issued by Hong Kong Observatory. The water quality monitoring for flood tide on 18 July 2018 was cancelled due to safety reasons.
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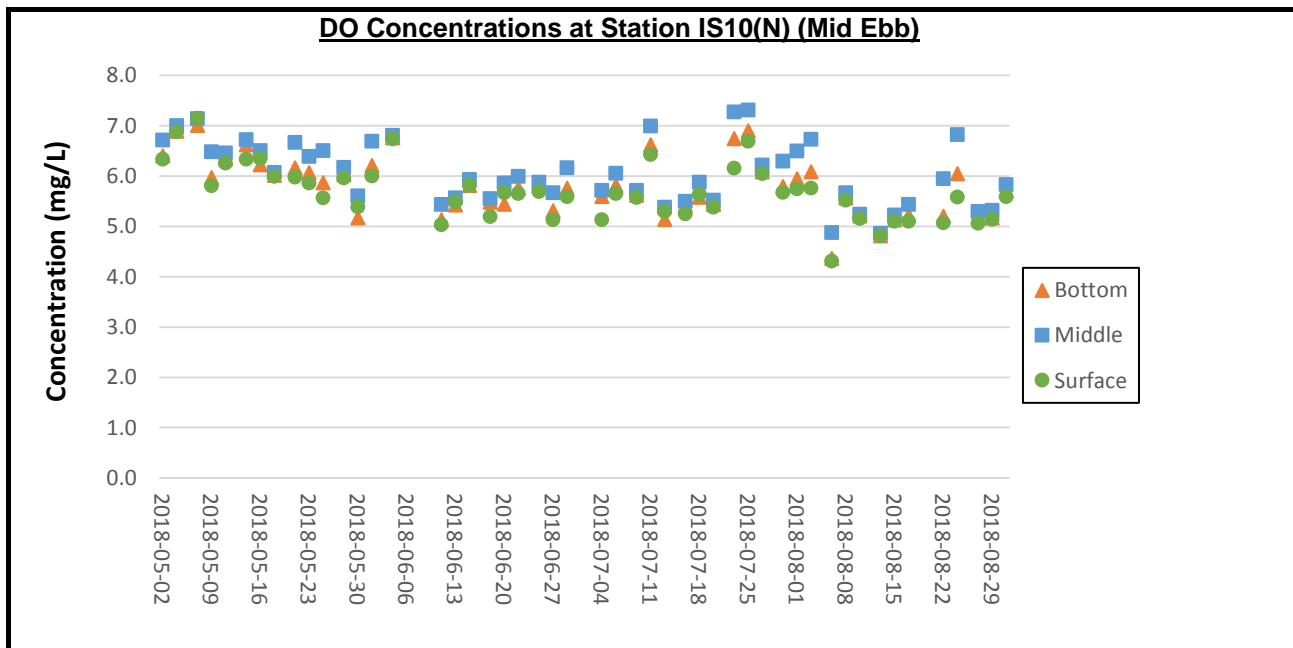
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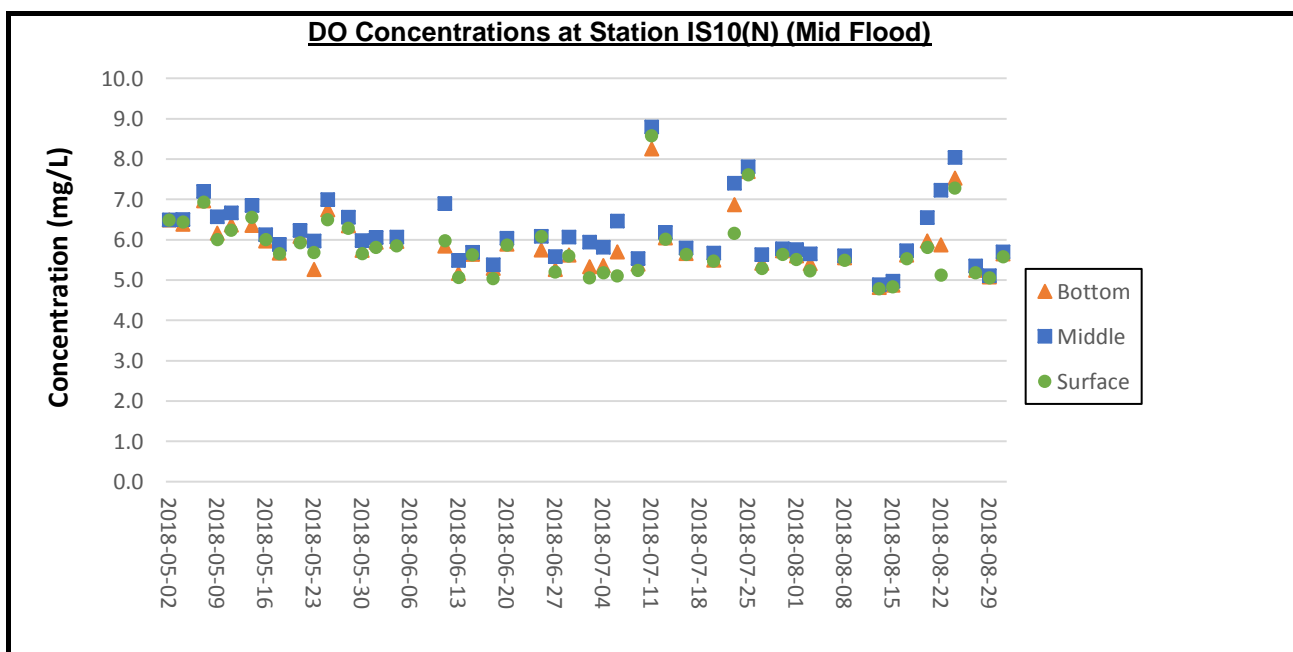
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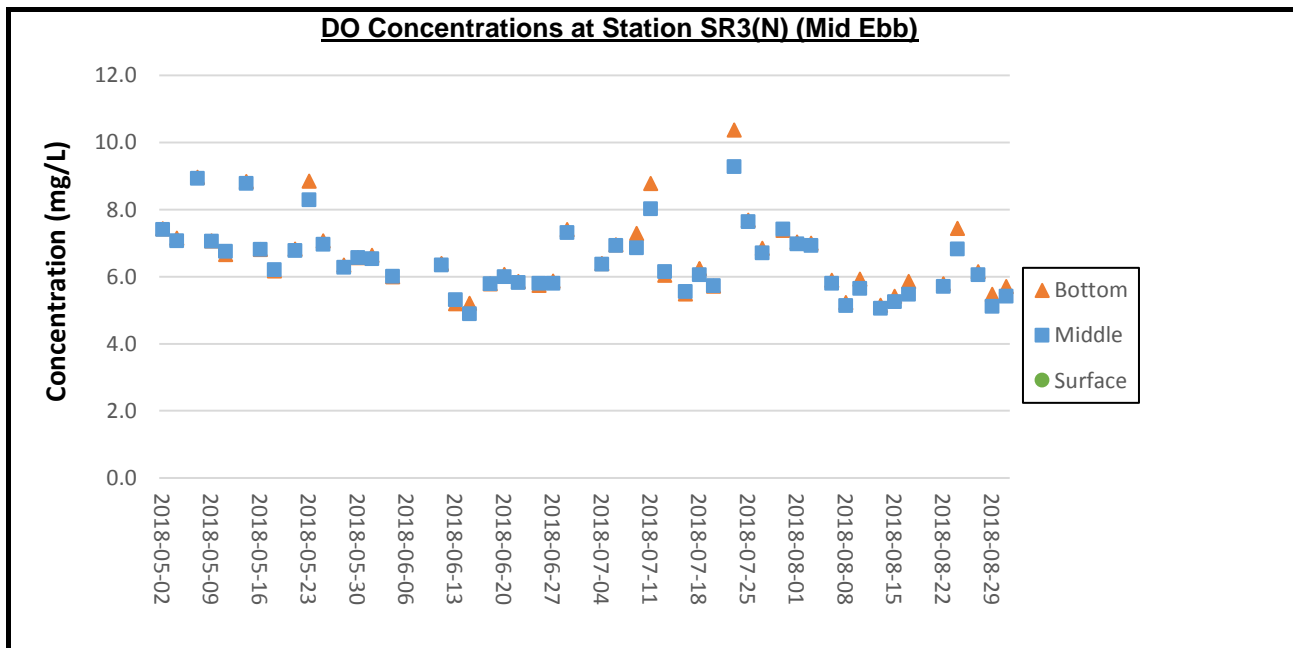
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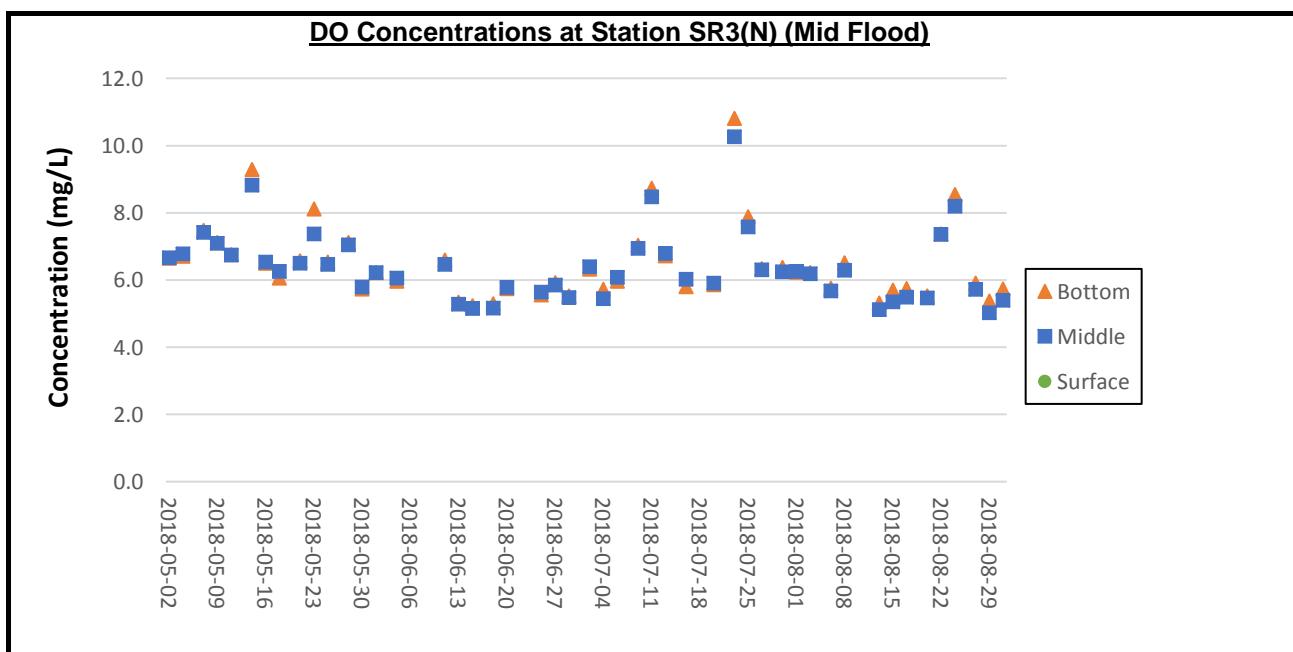
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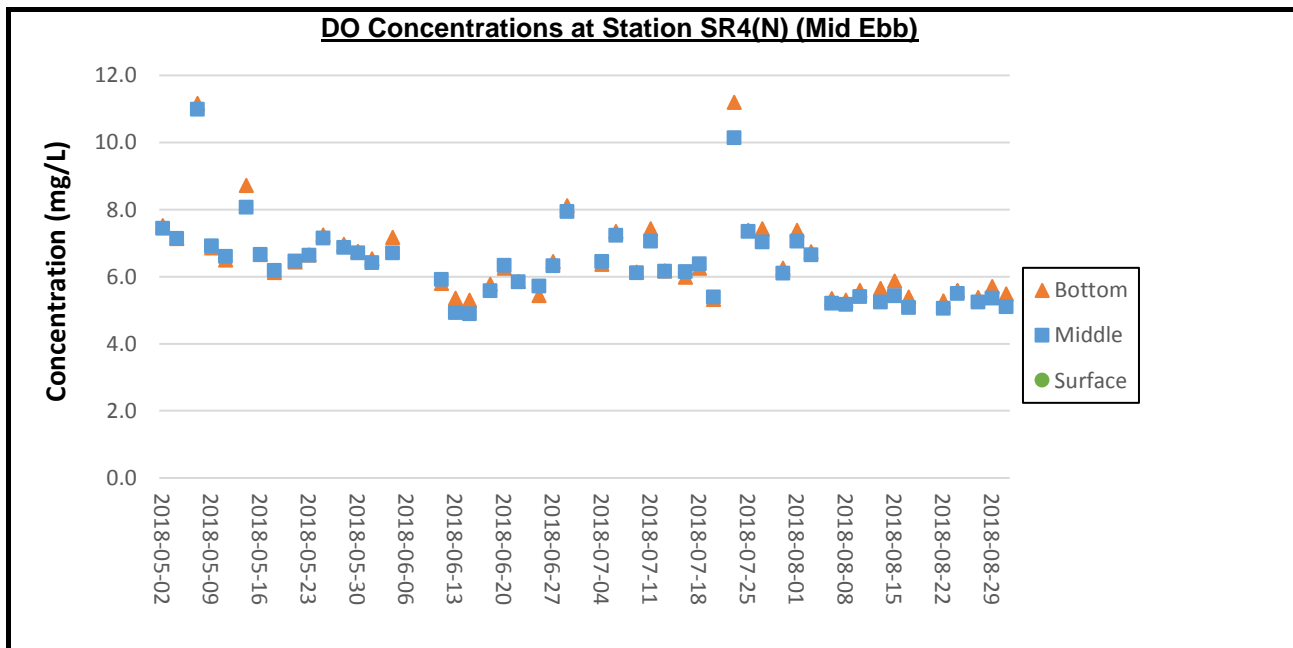
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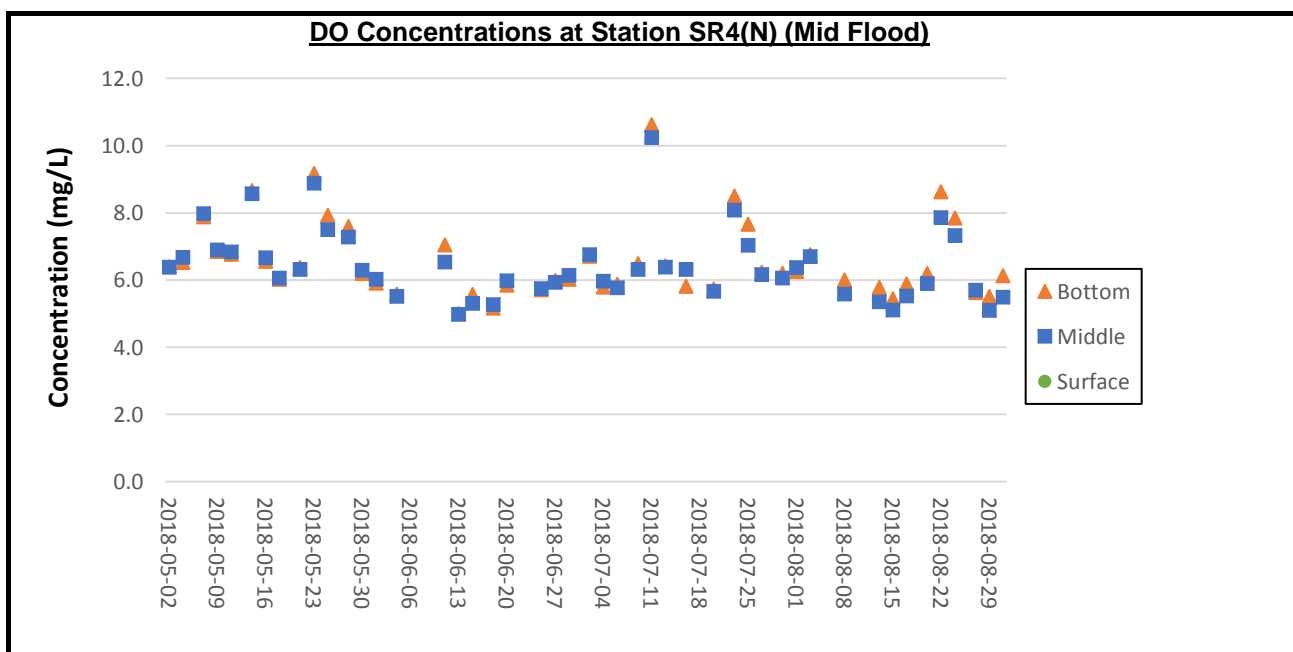
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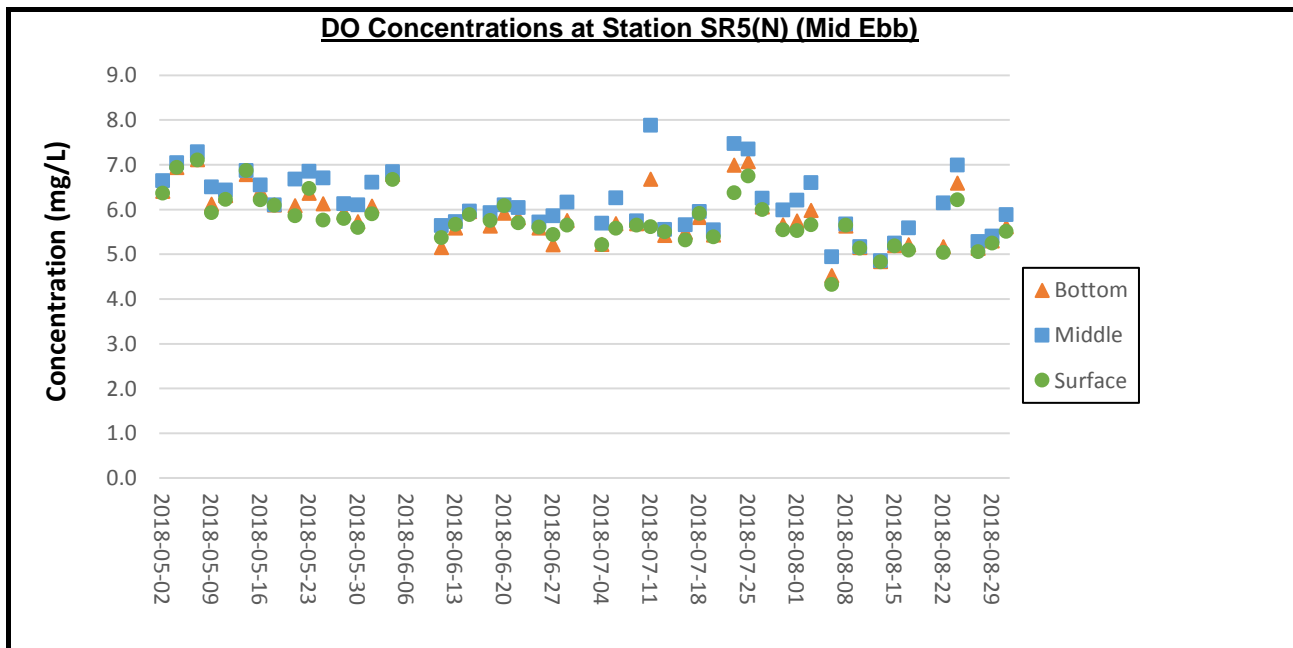
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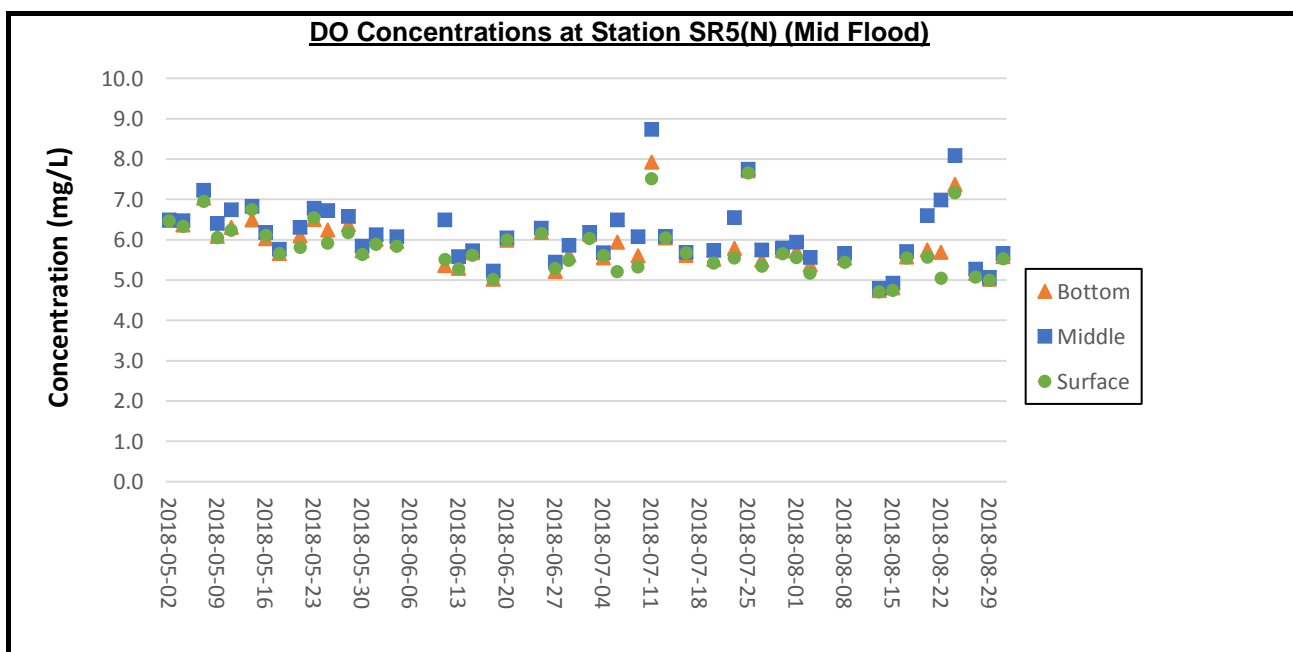
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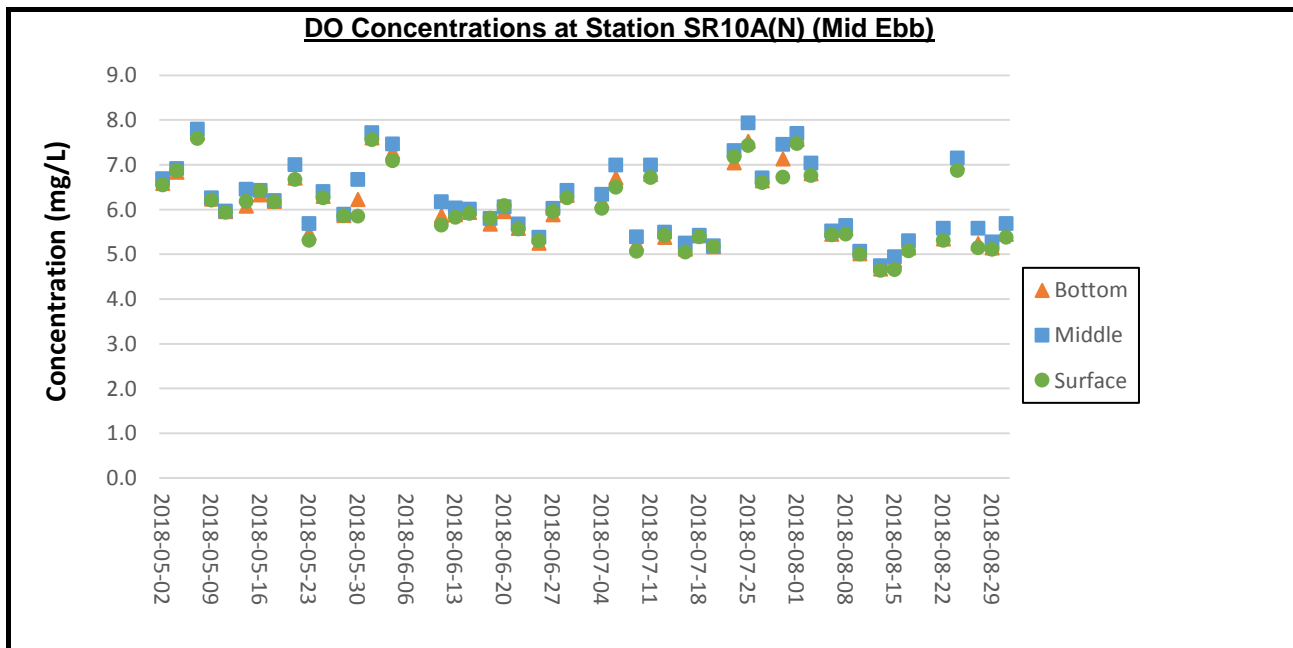
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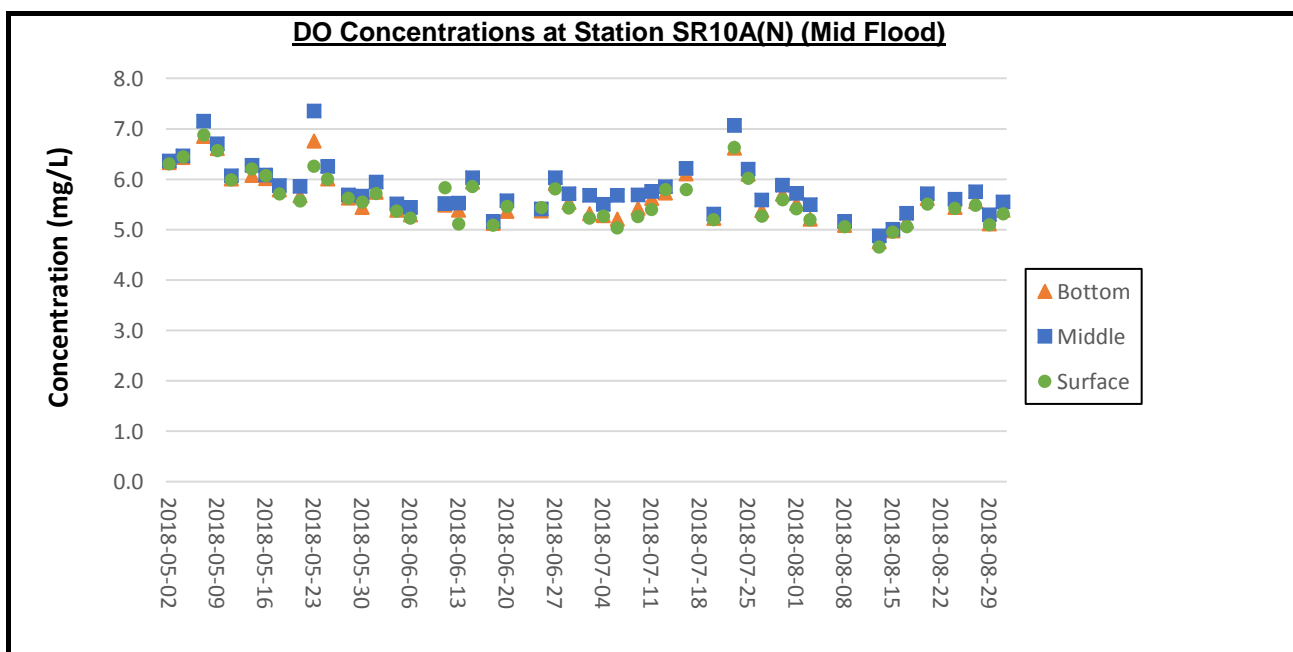
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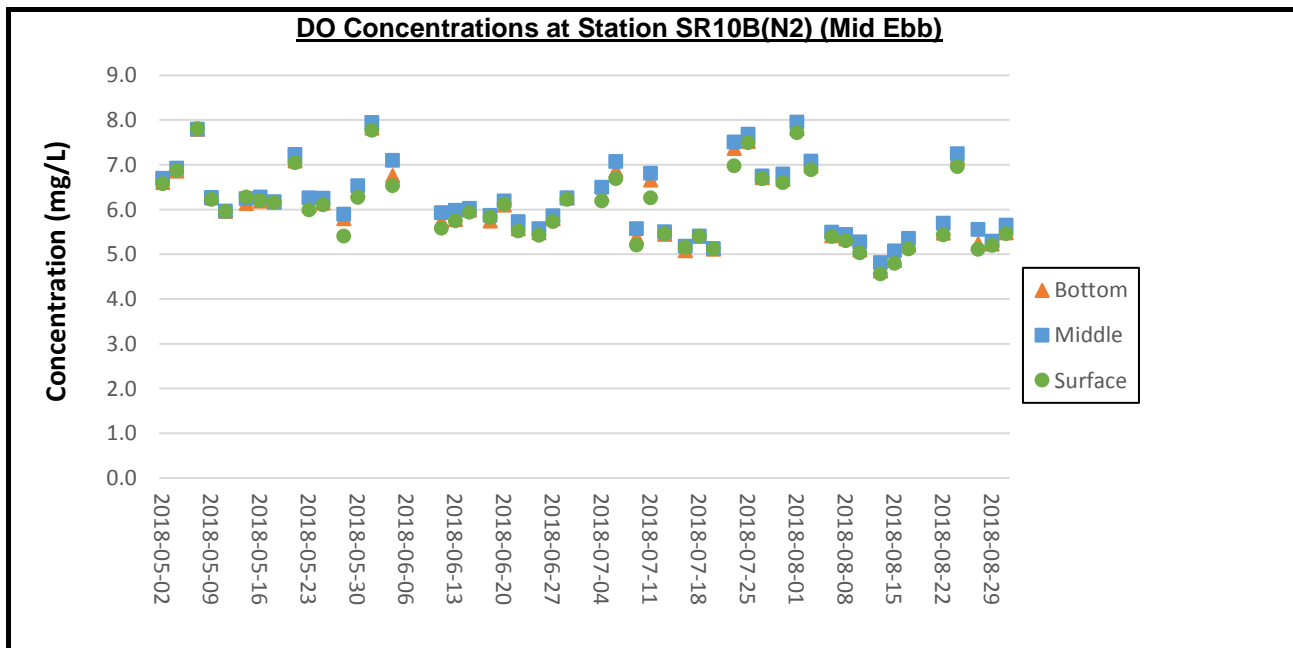
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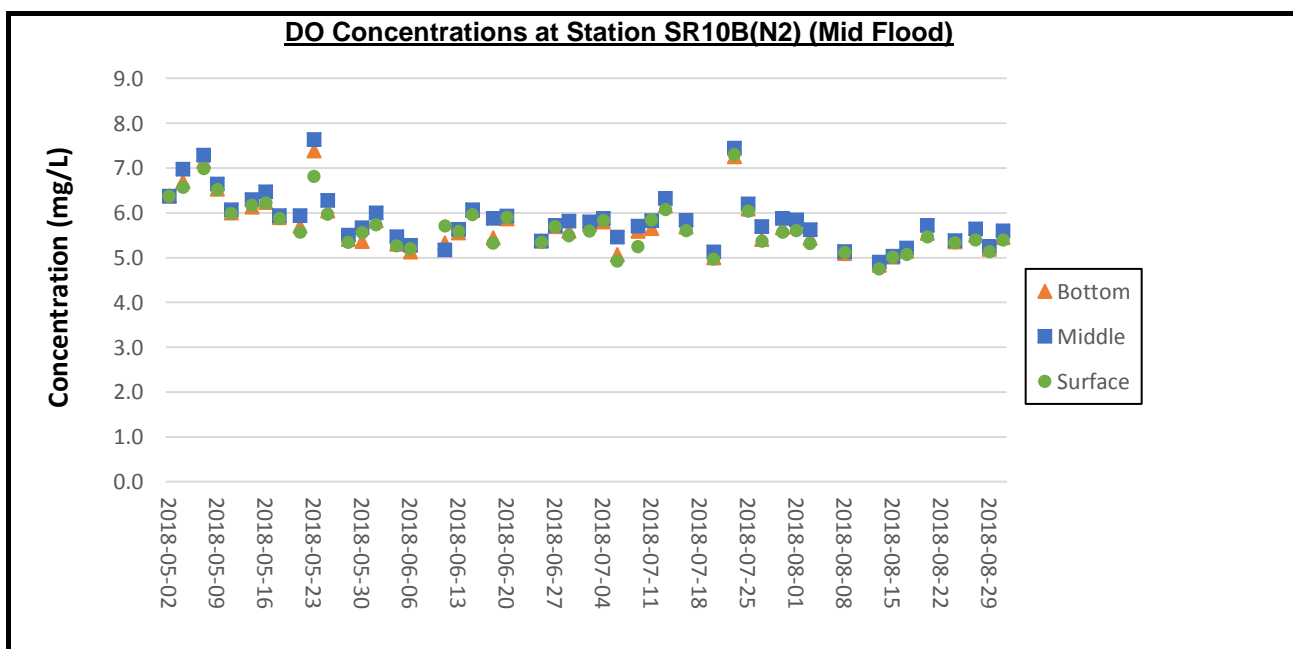
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- 7) Thunderstorm Warning and Amber Rainstorm Warning Signal issued by the Hong Kong Observatory on 22 August 2018. The water quality monitoring at SR10A(N) and SR10B(N2) for flood tide on 22 August 2018 was cancelled due to safety reason.



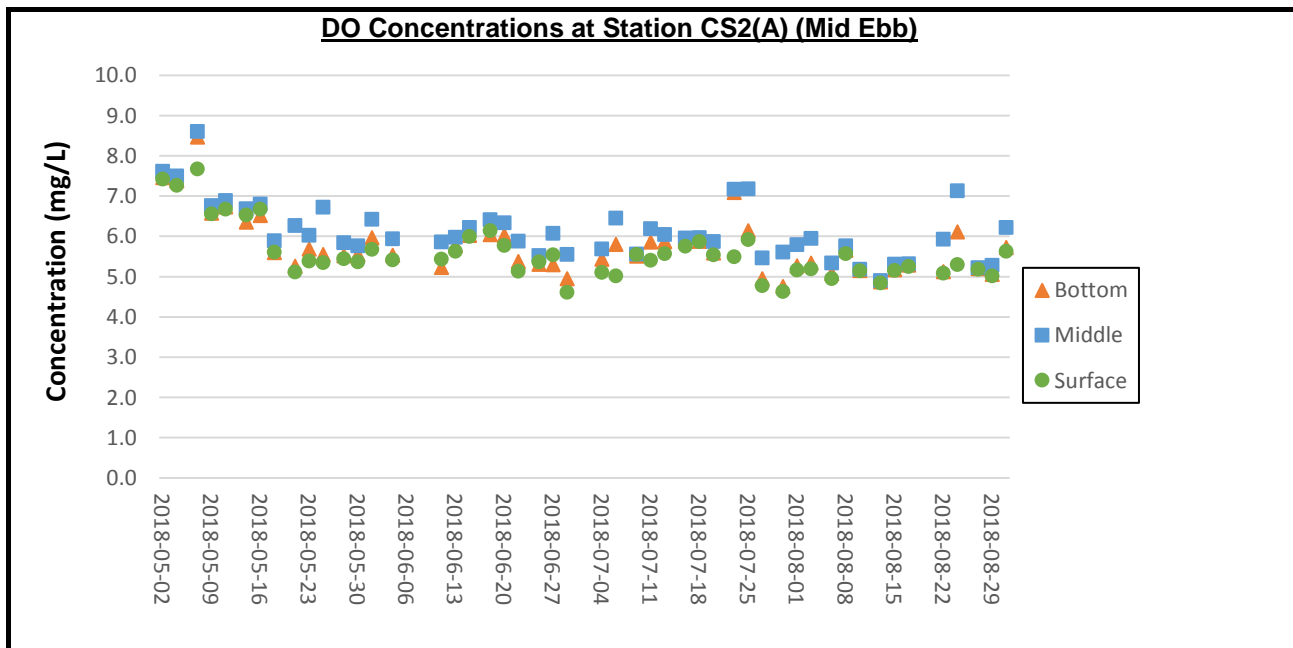
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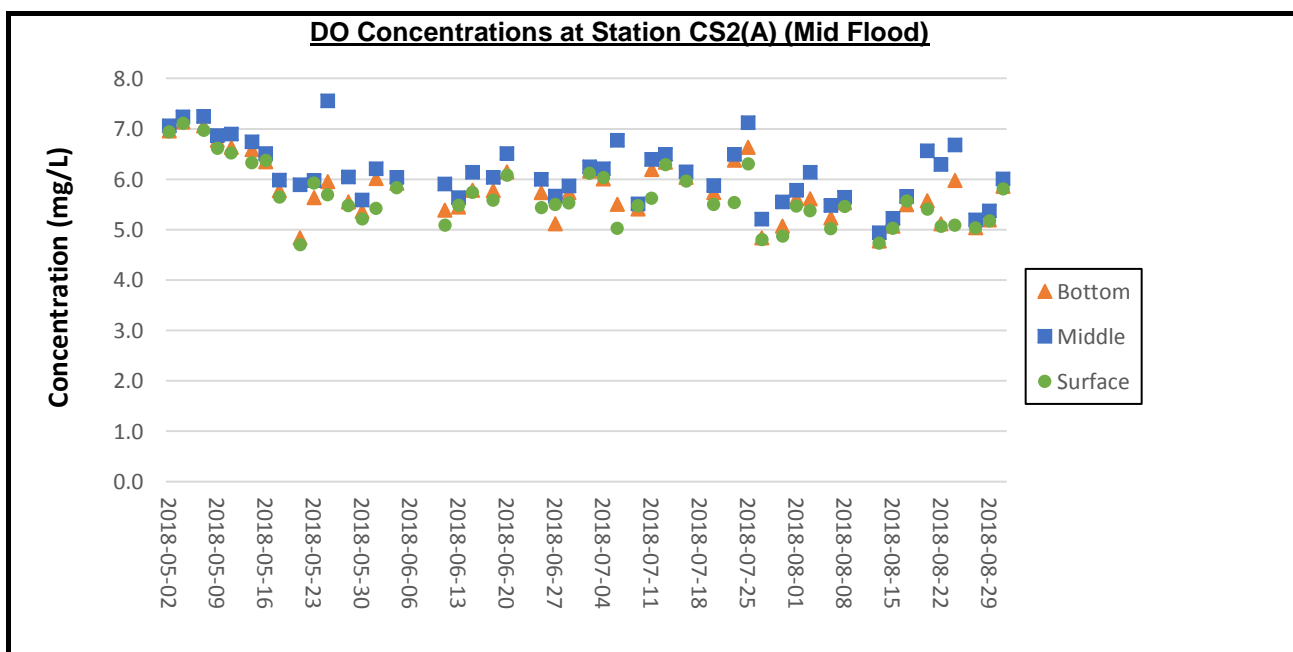
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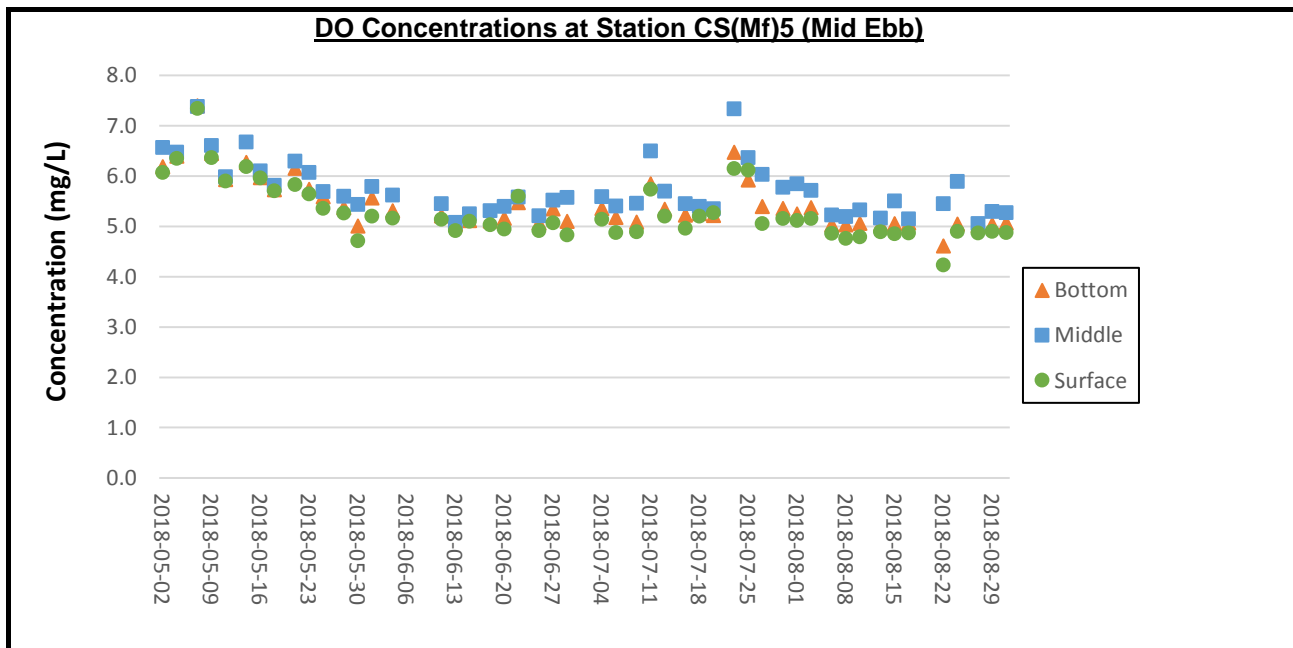
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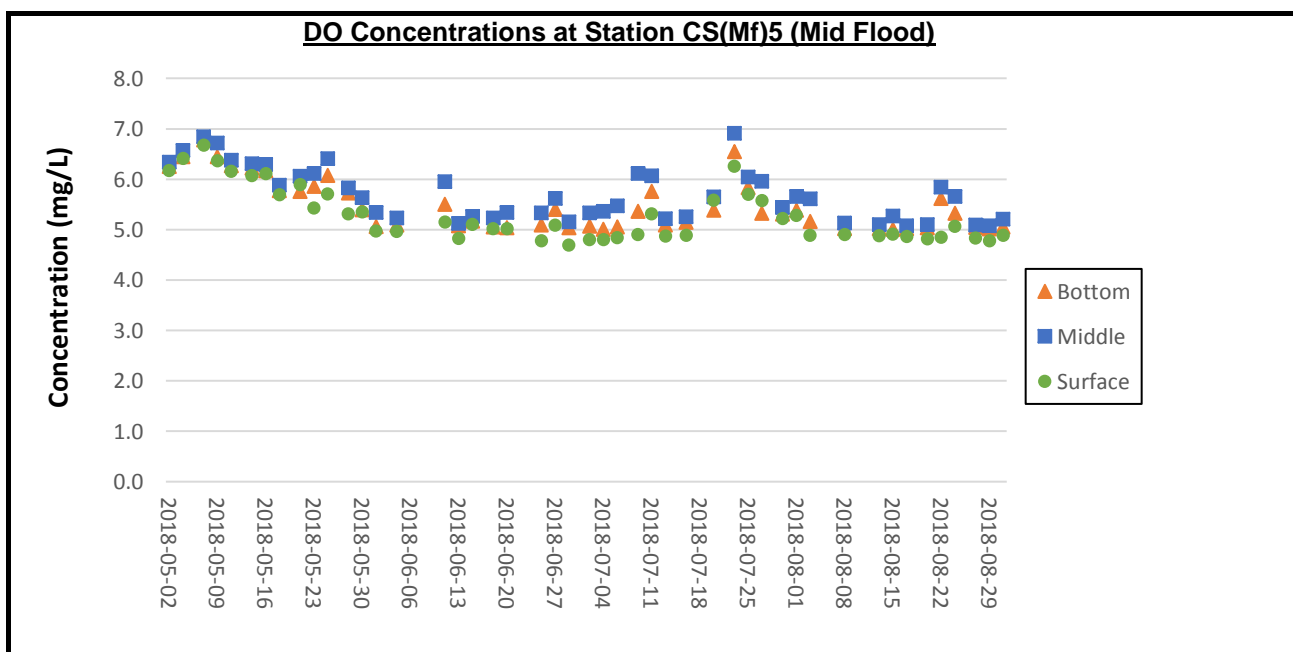
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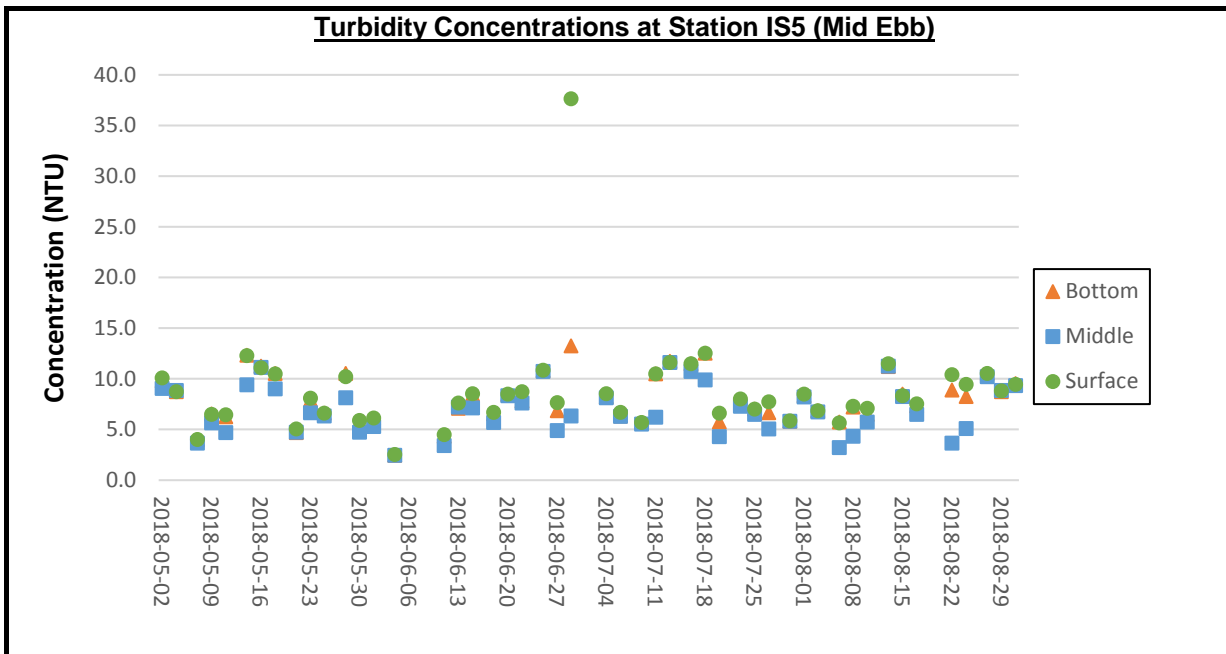
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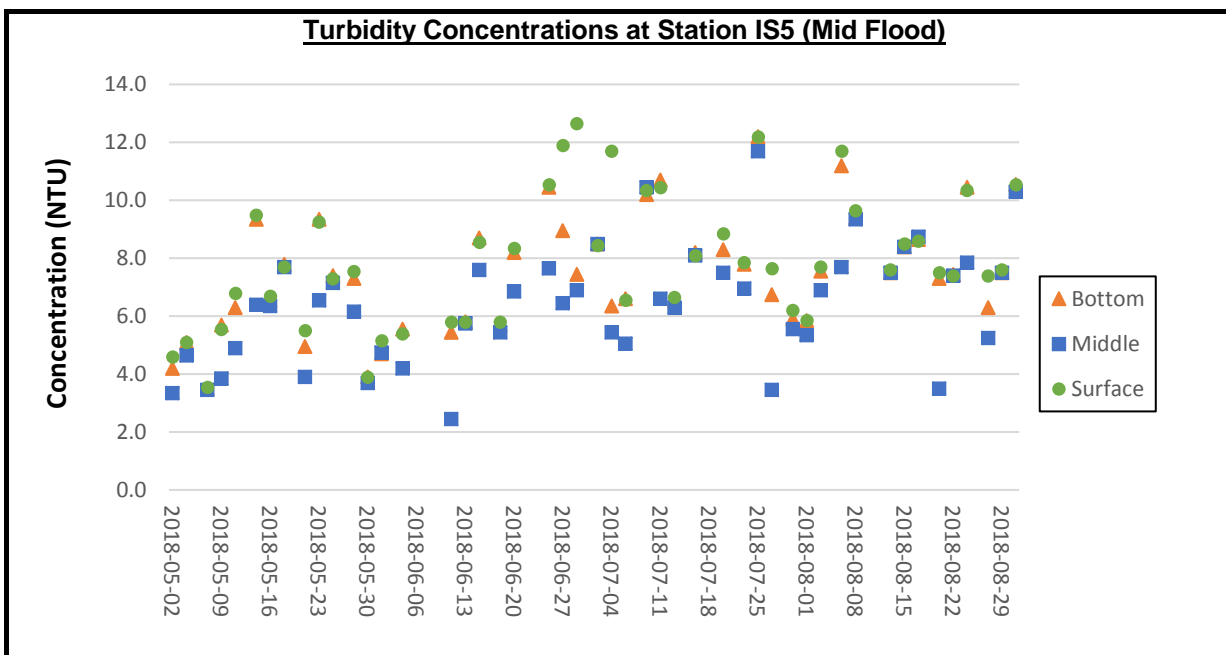
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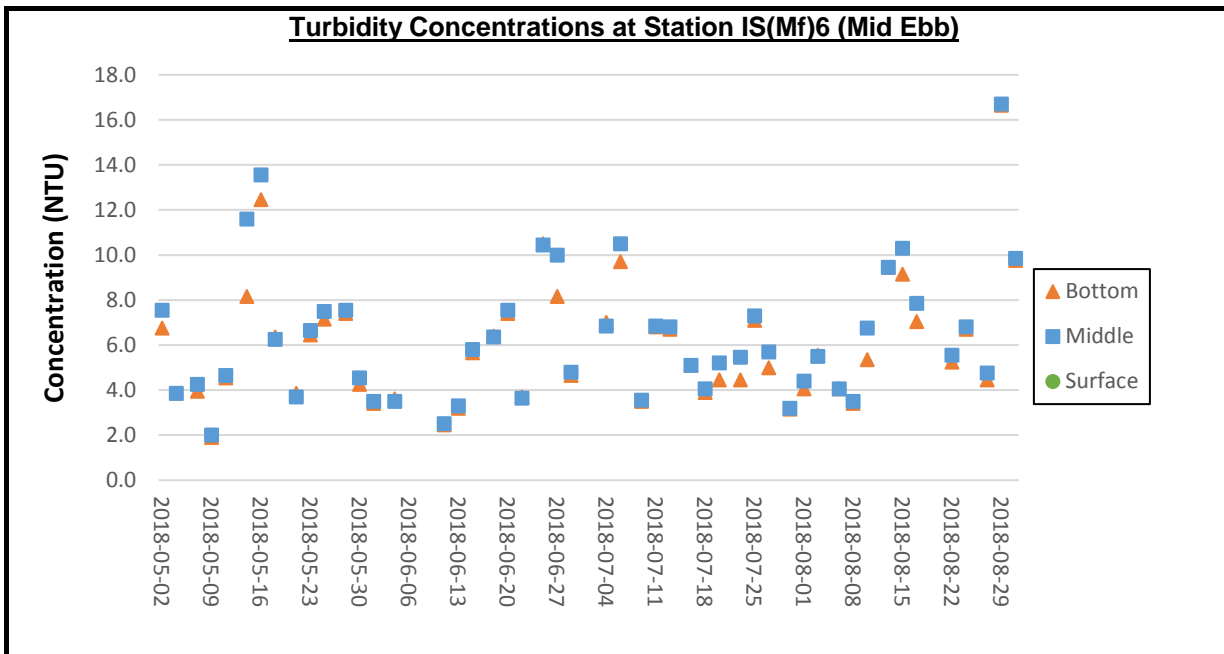
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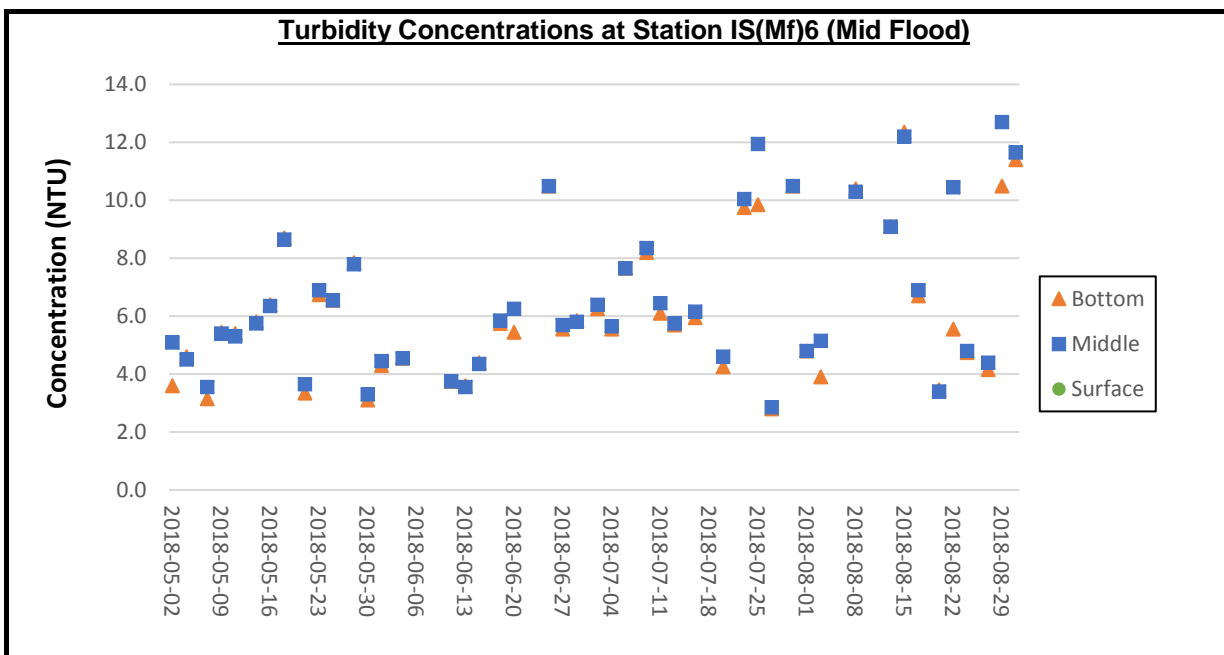
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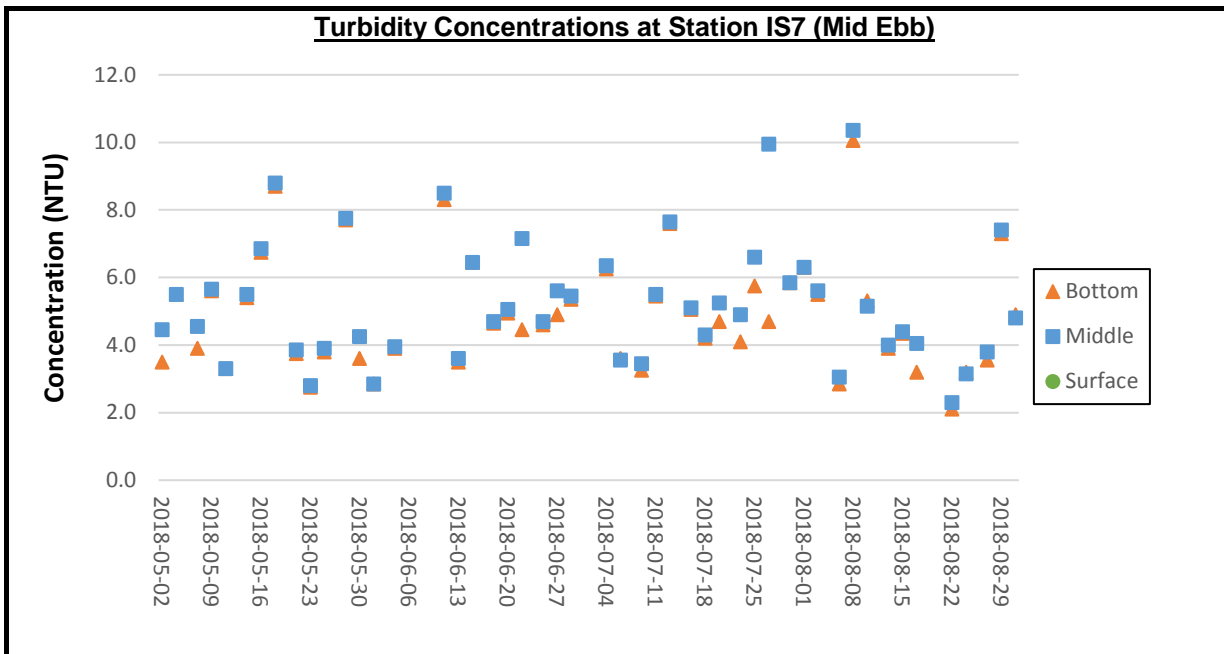
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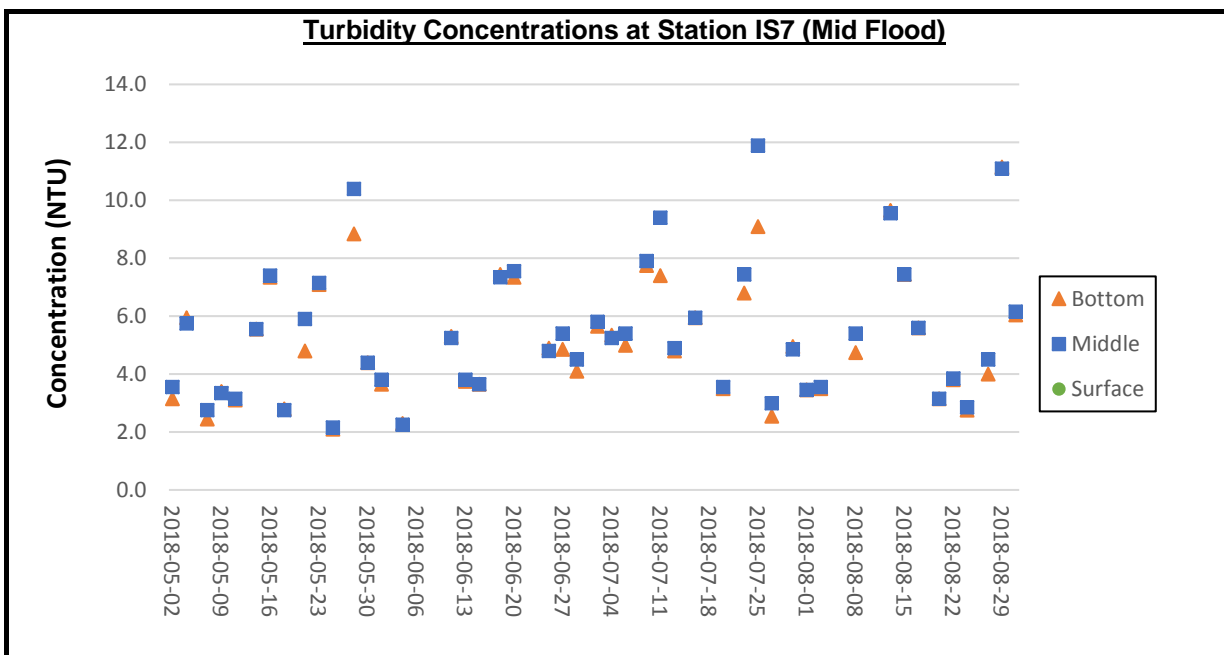
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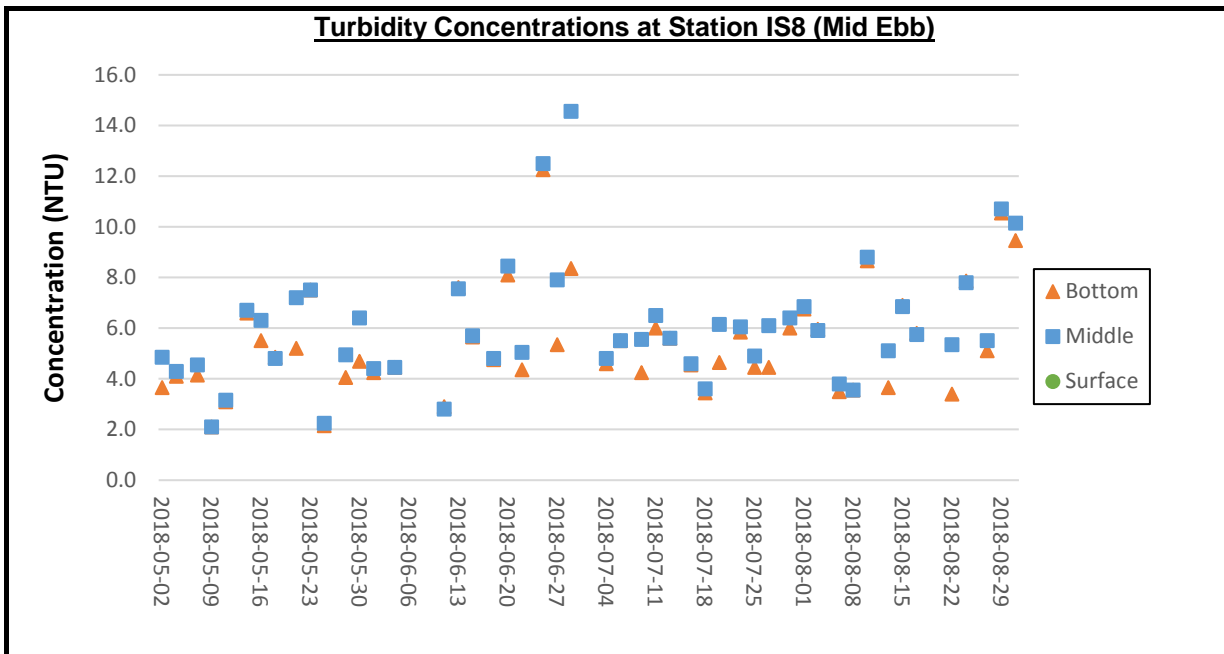
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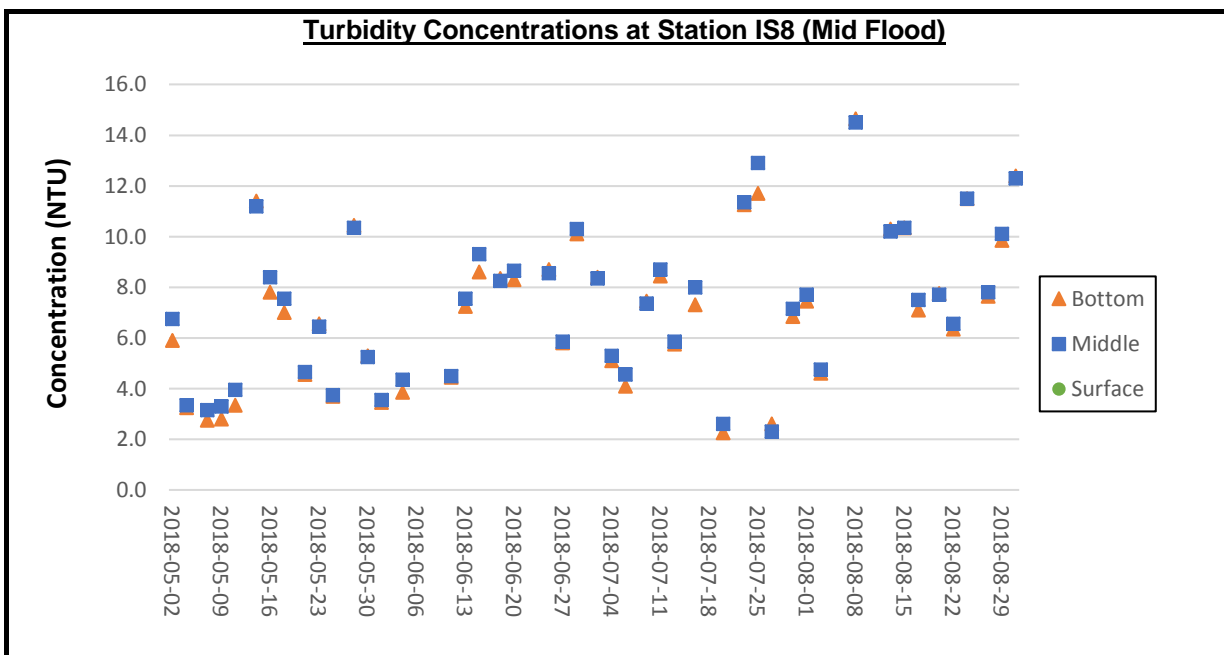
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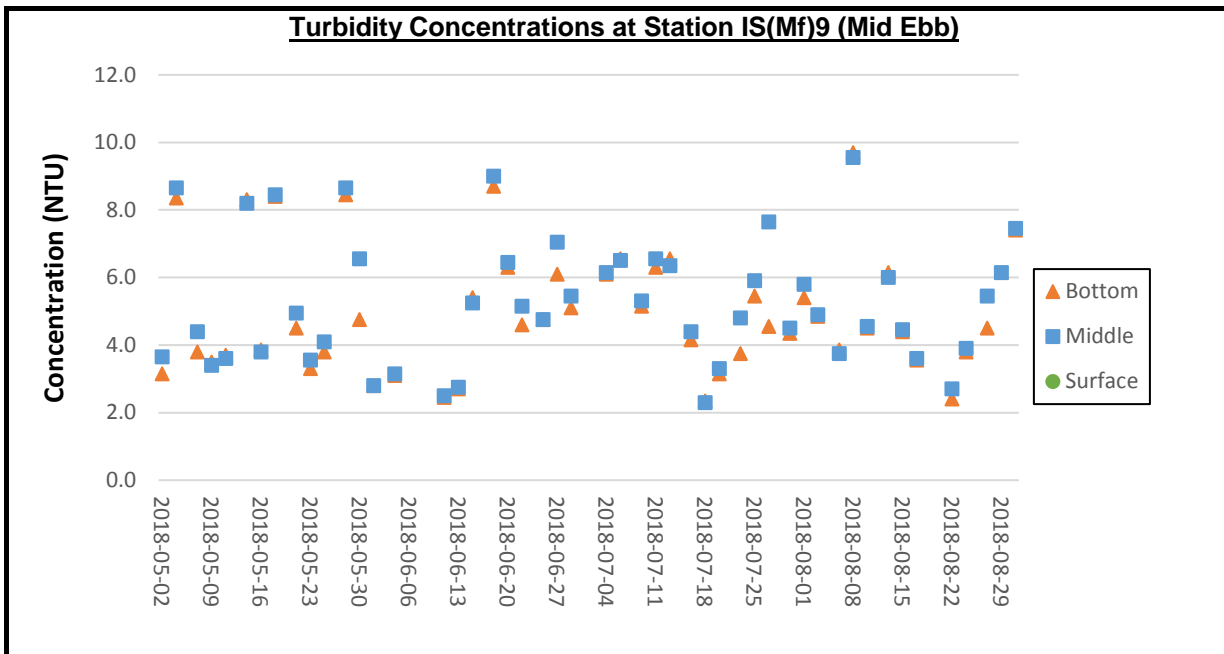
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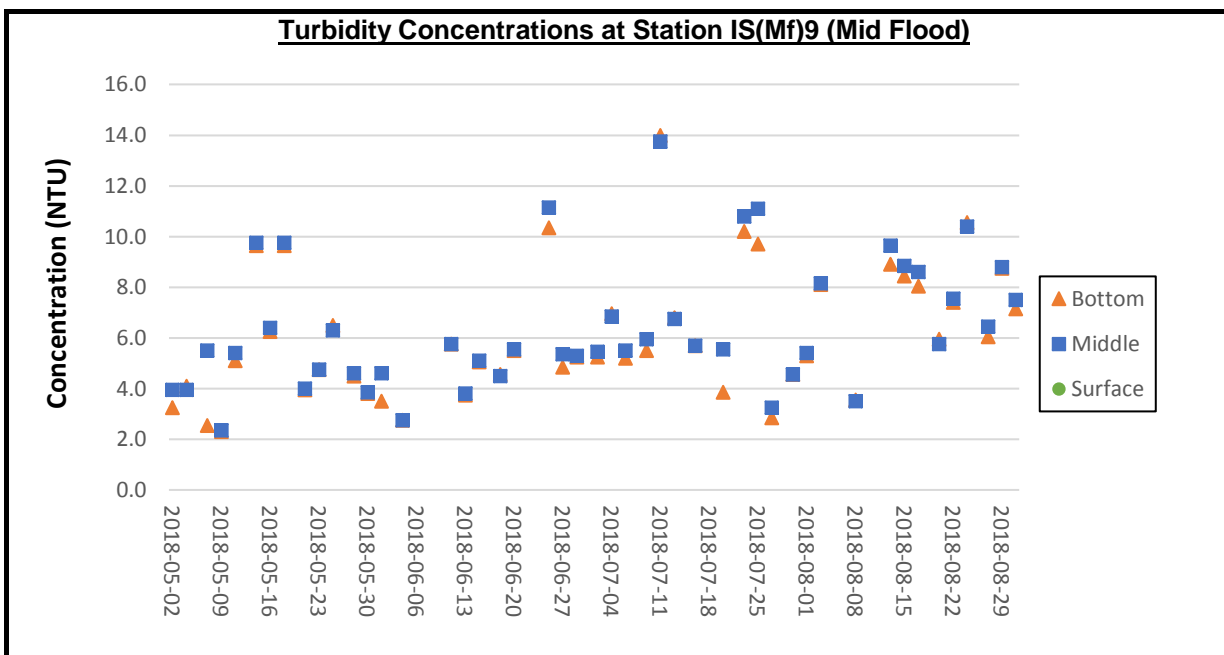
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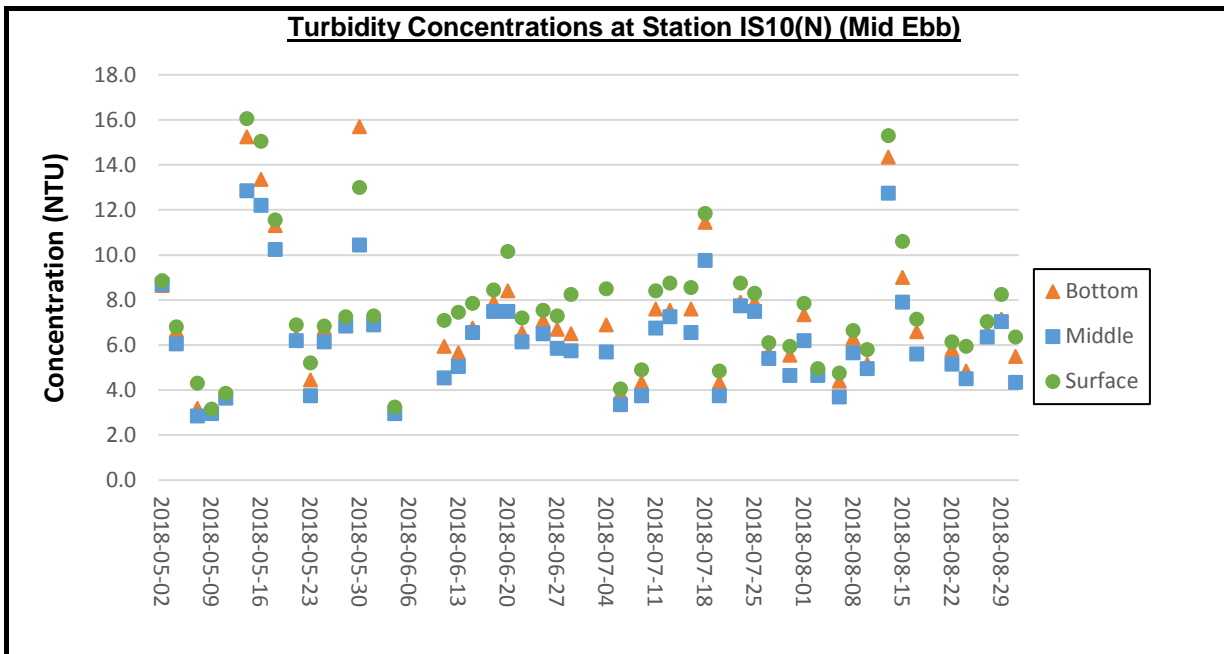
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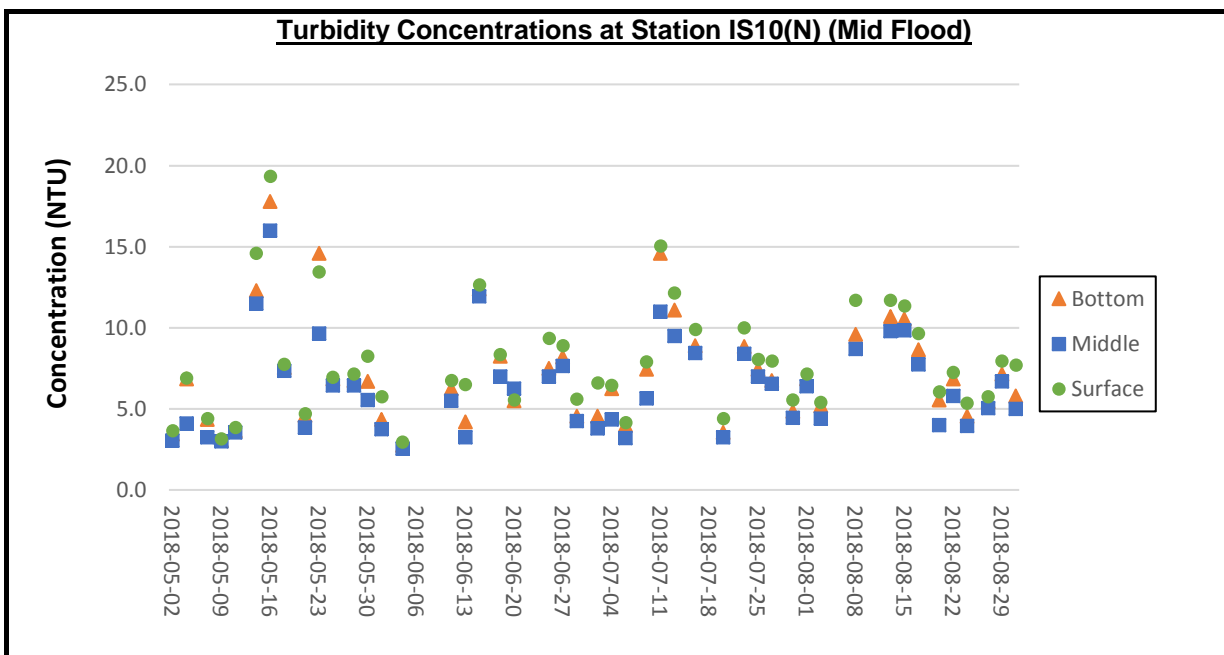
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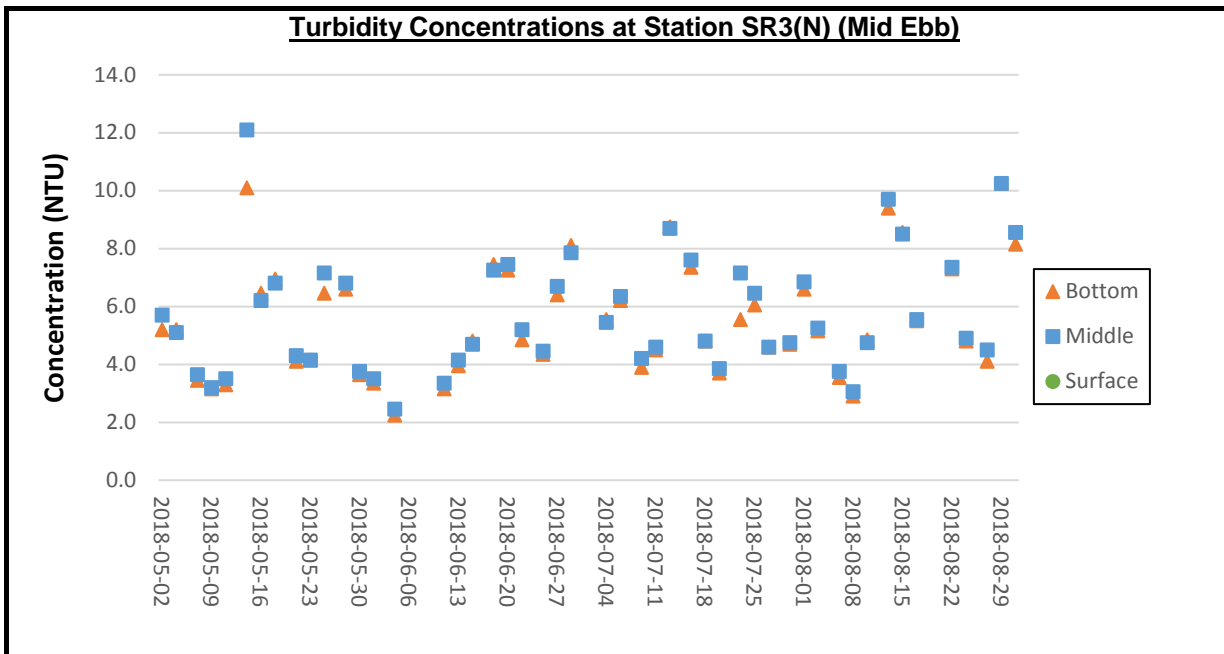
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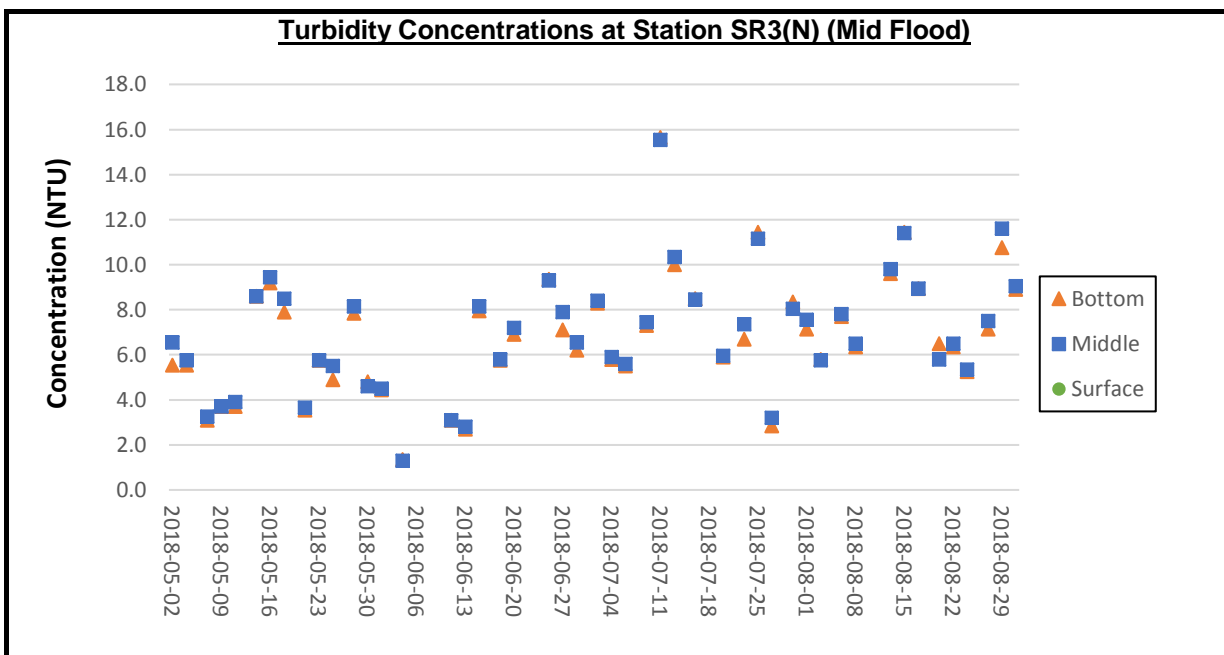
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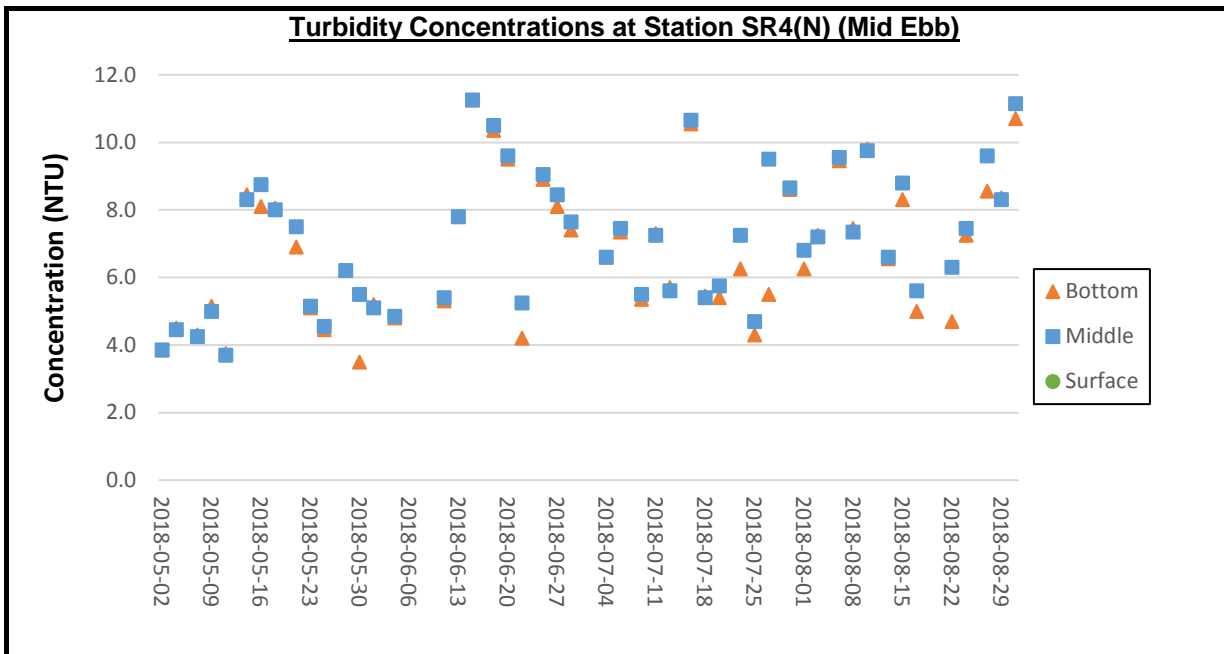
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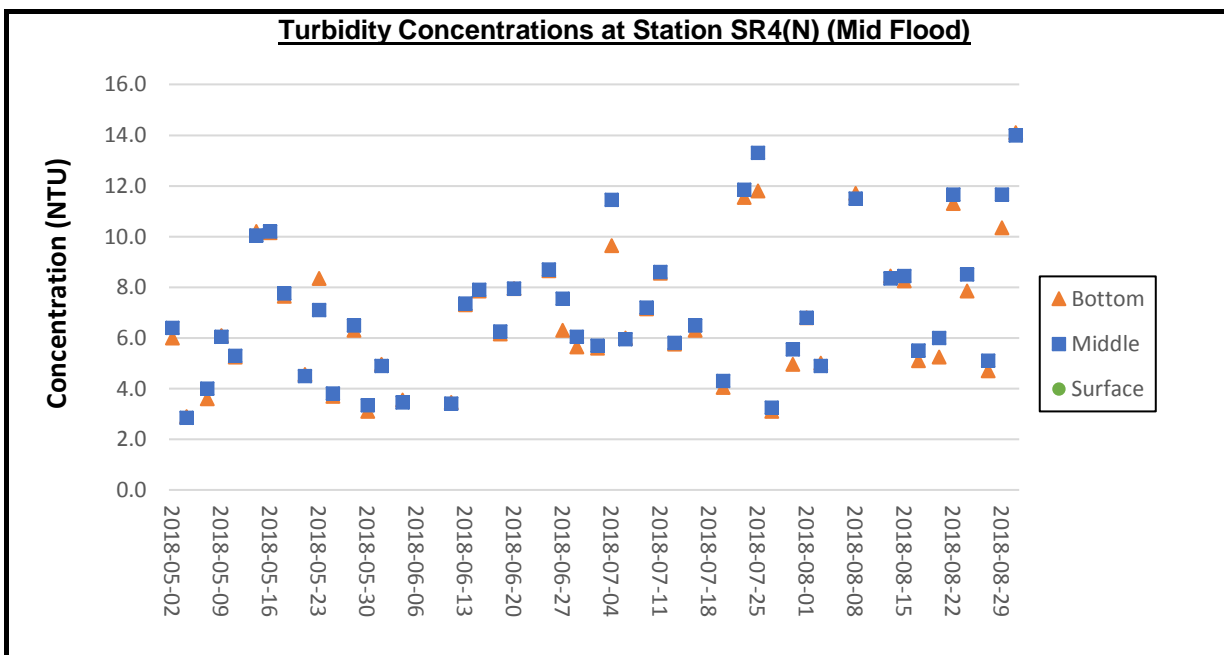
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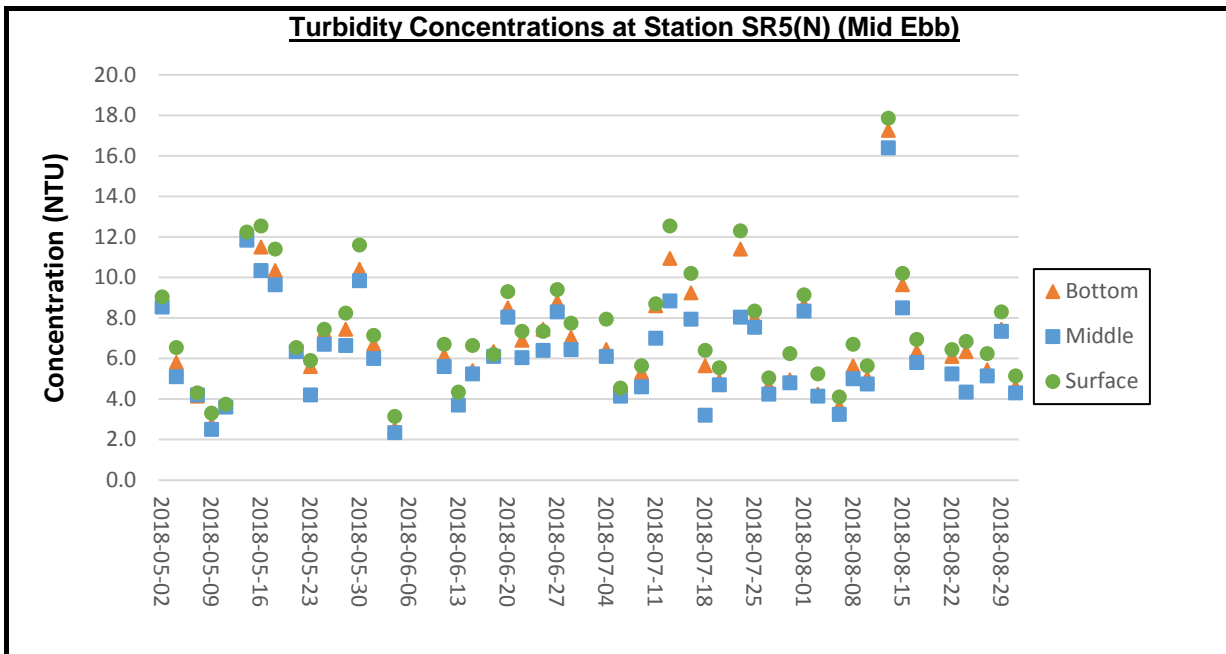
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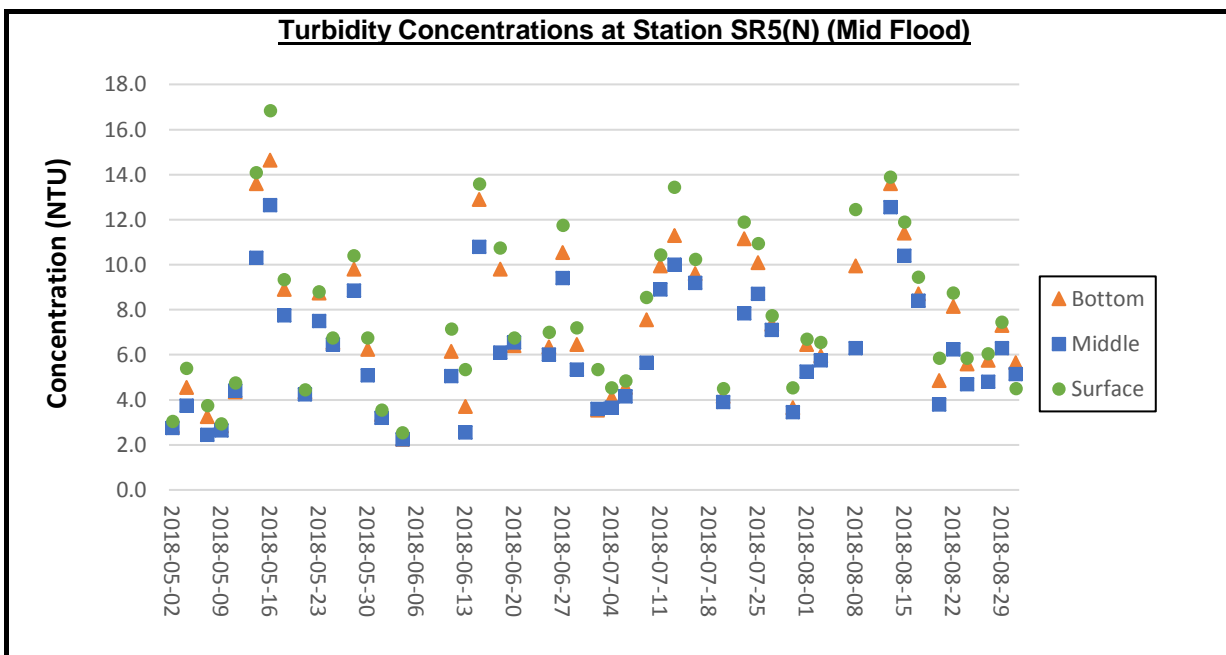
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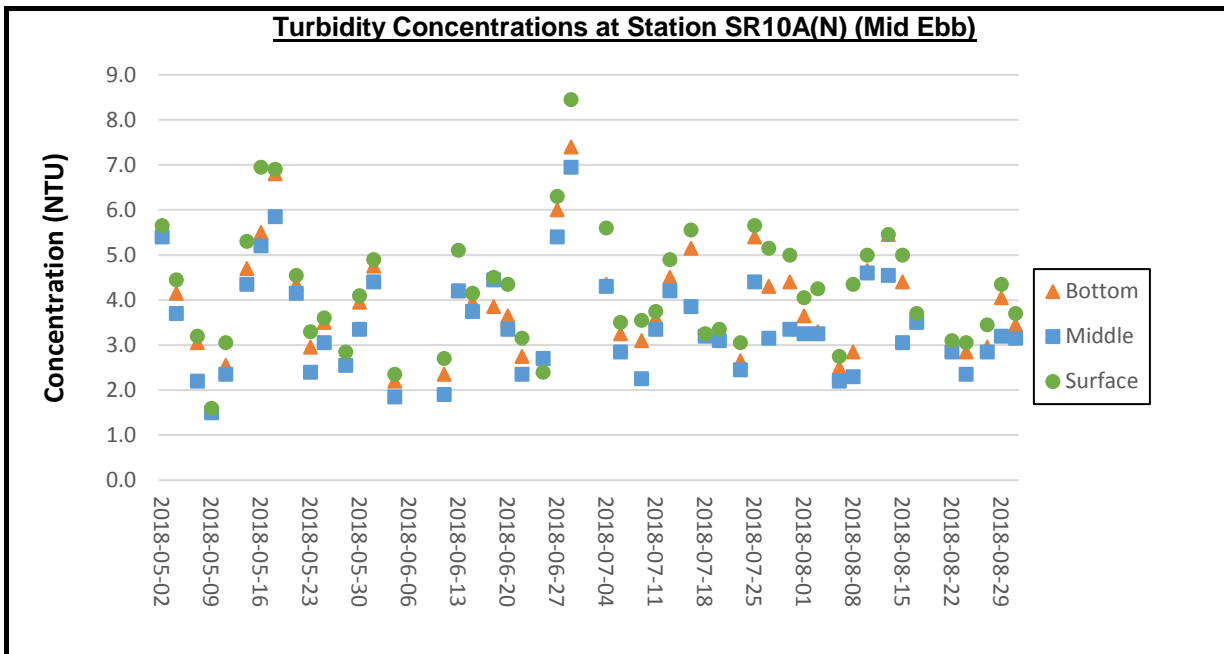
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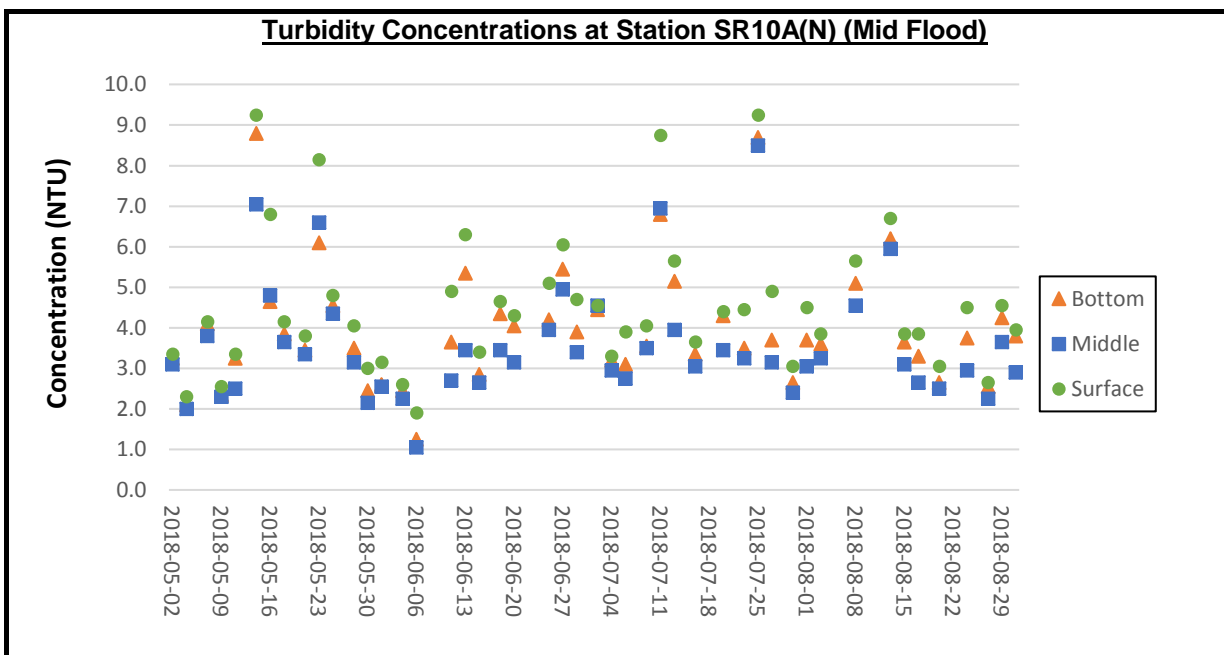
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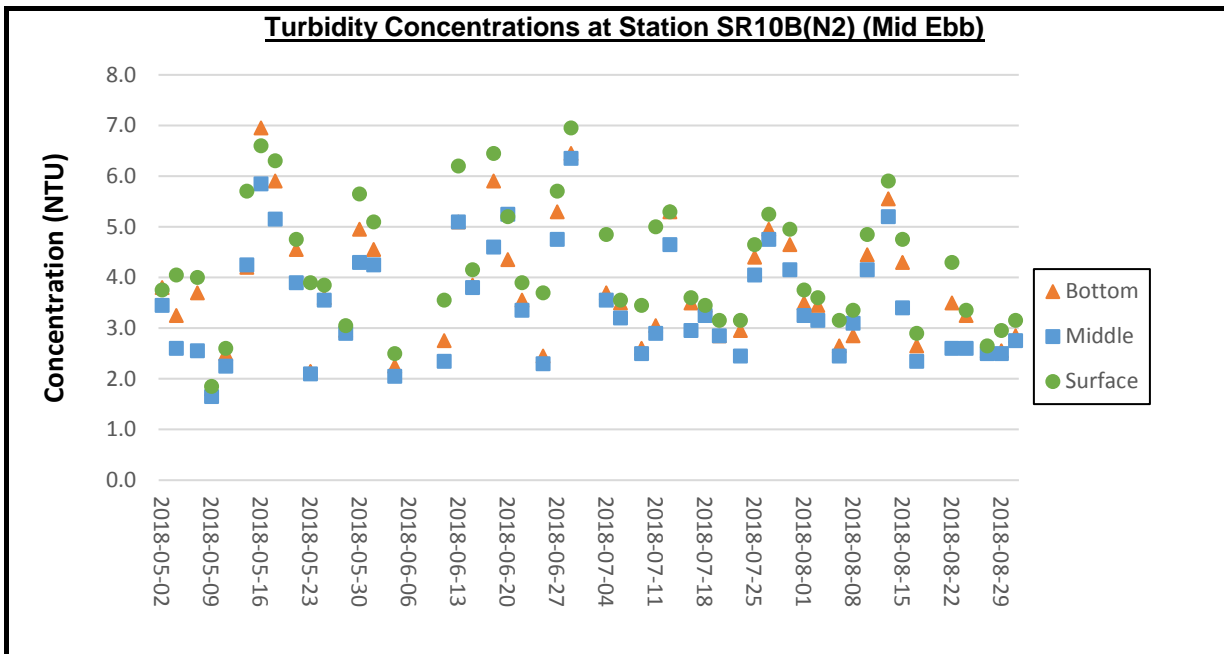
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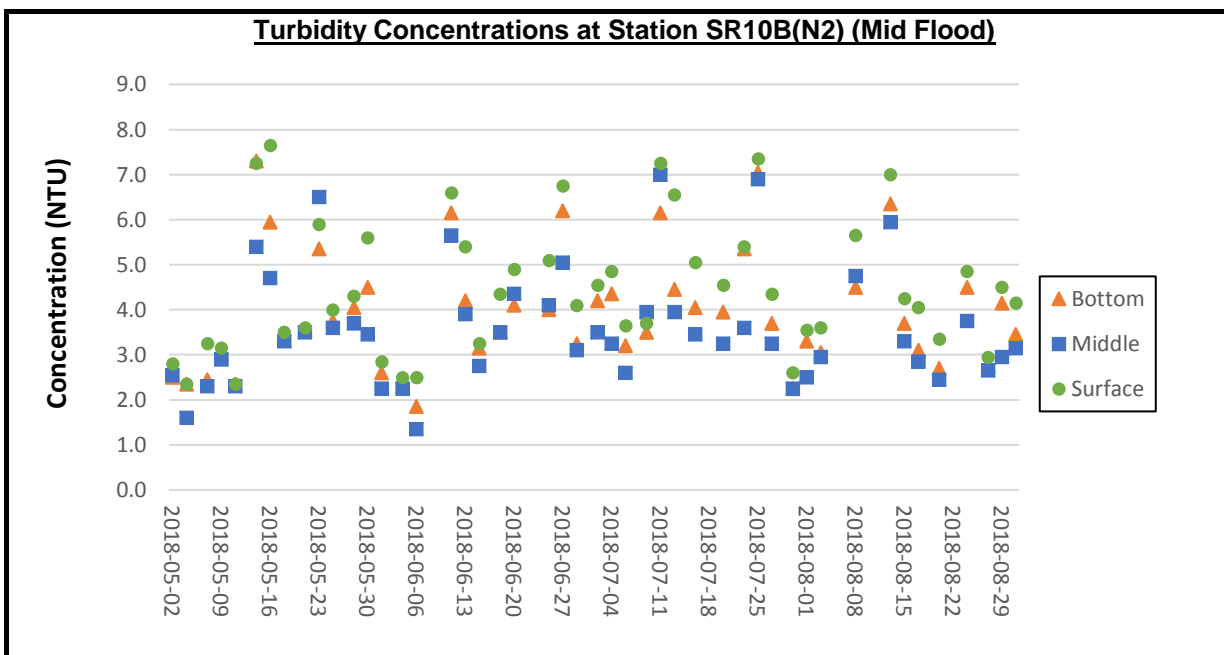
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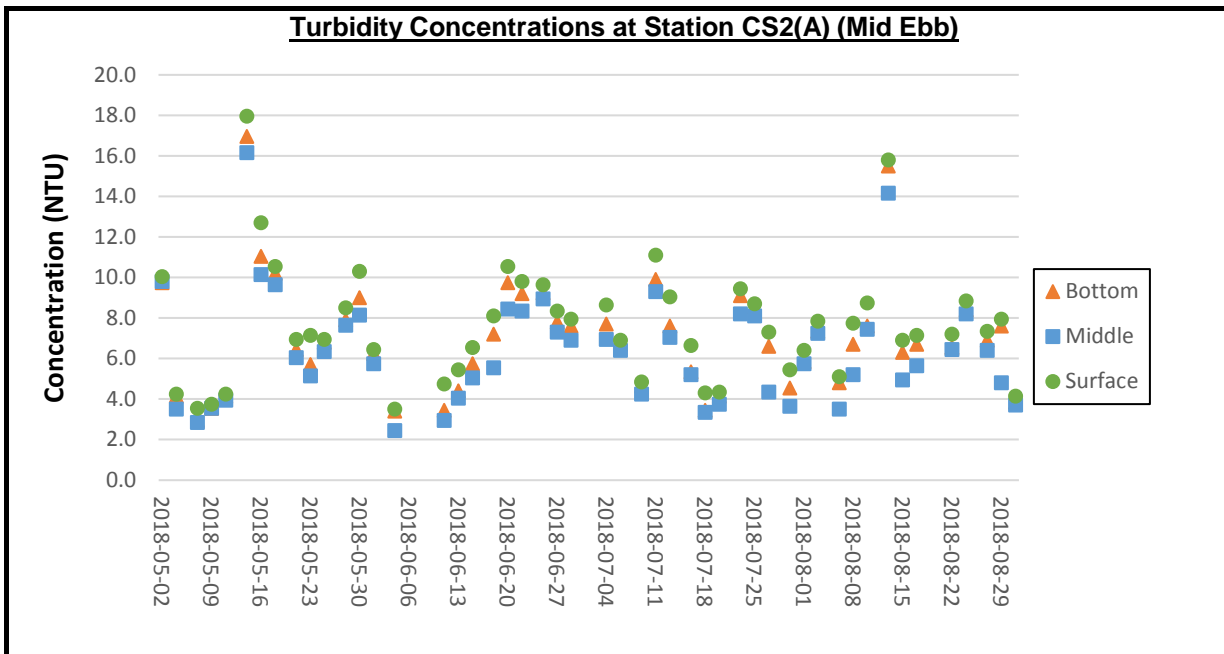
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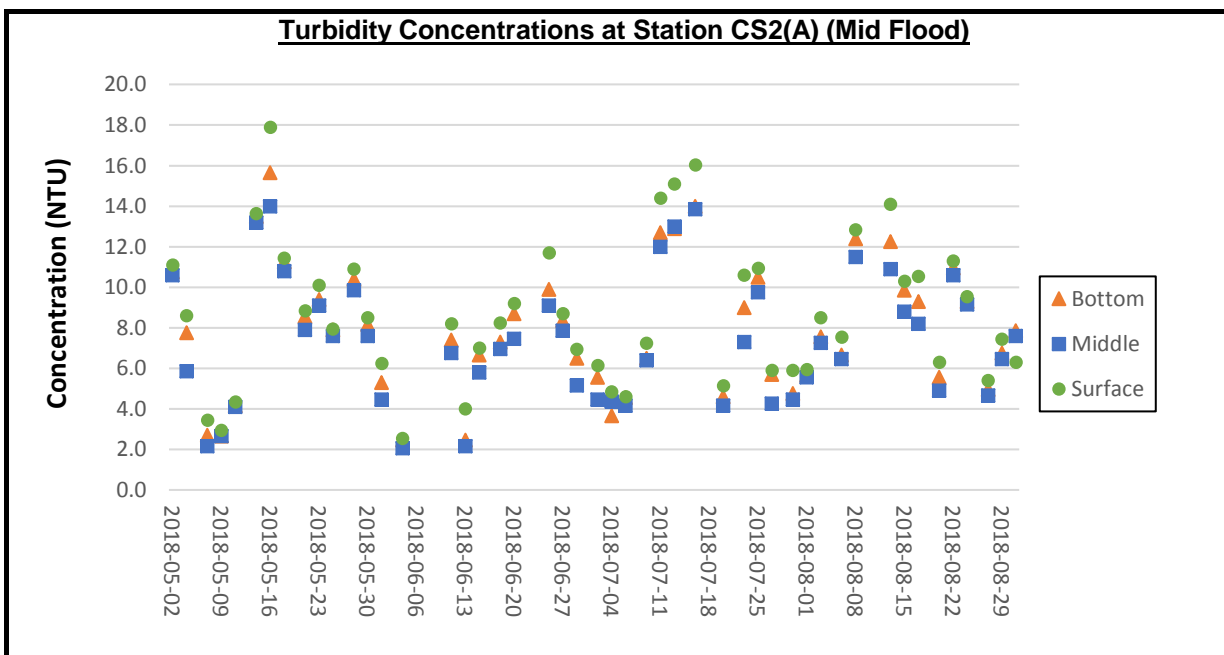
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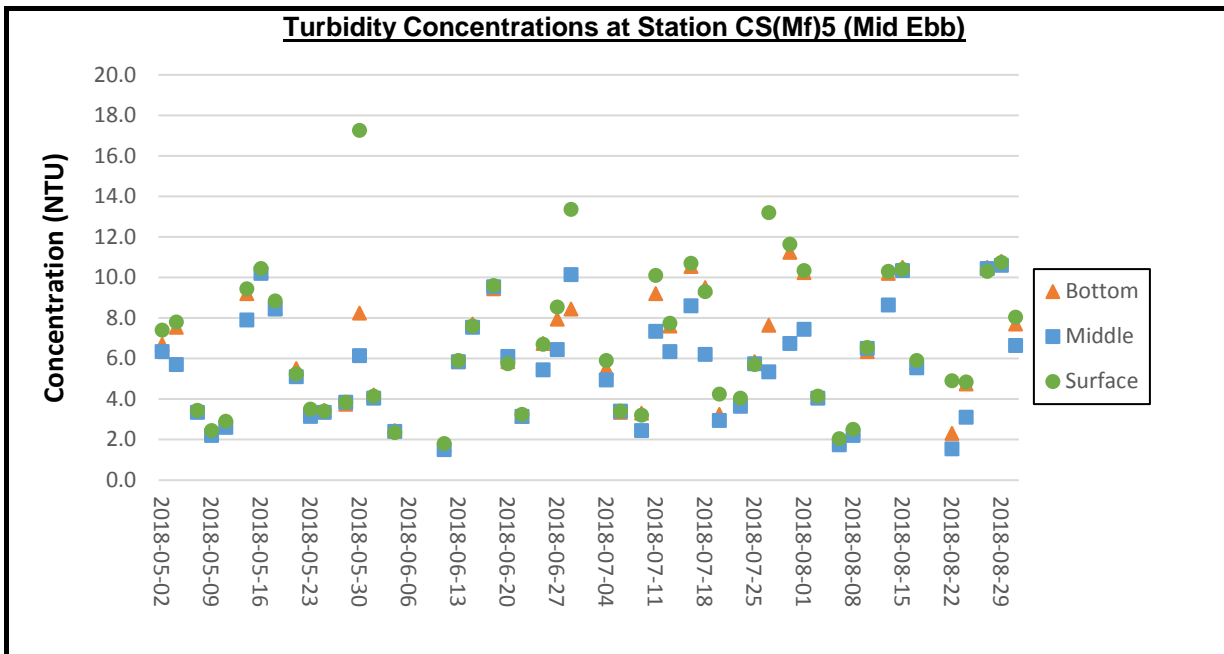
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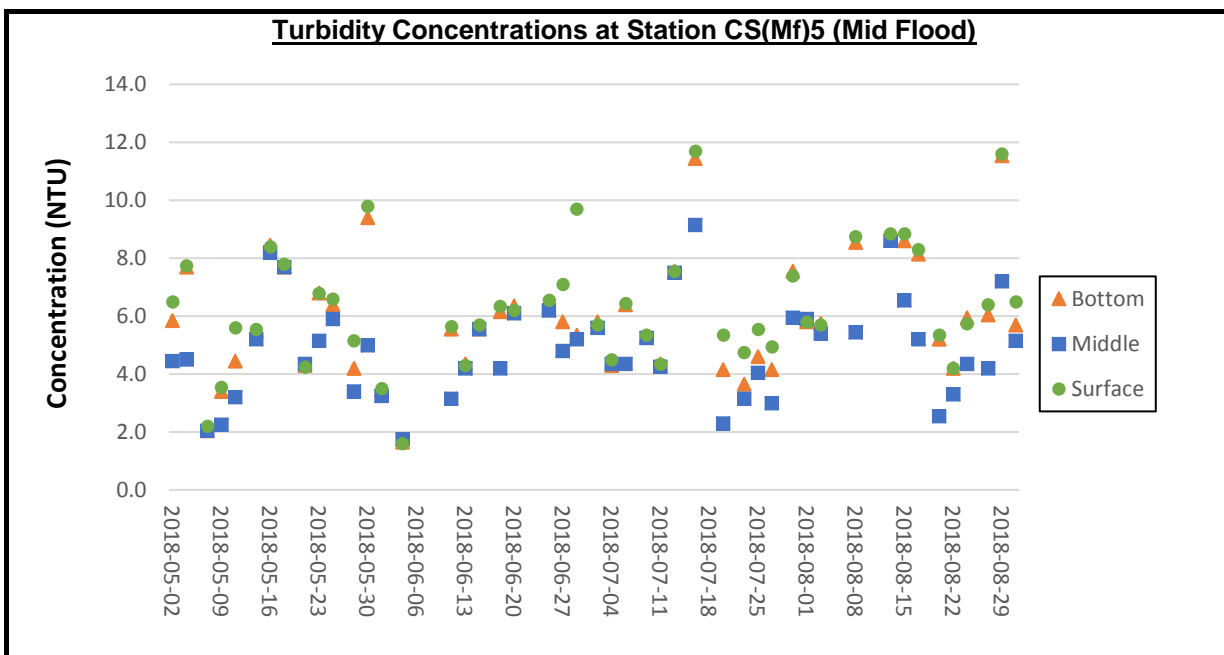
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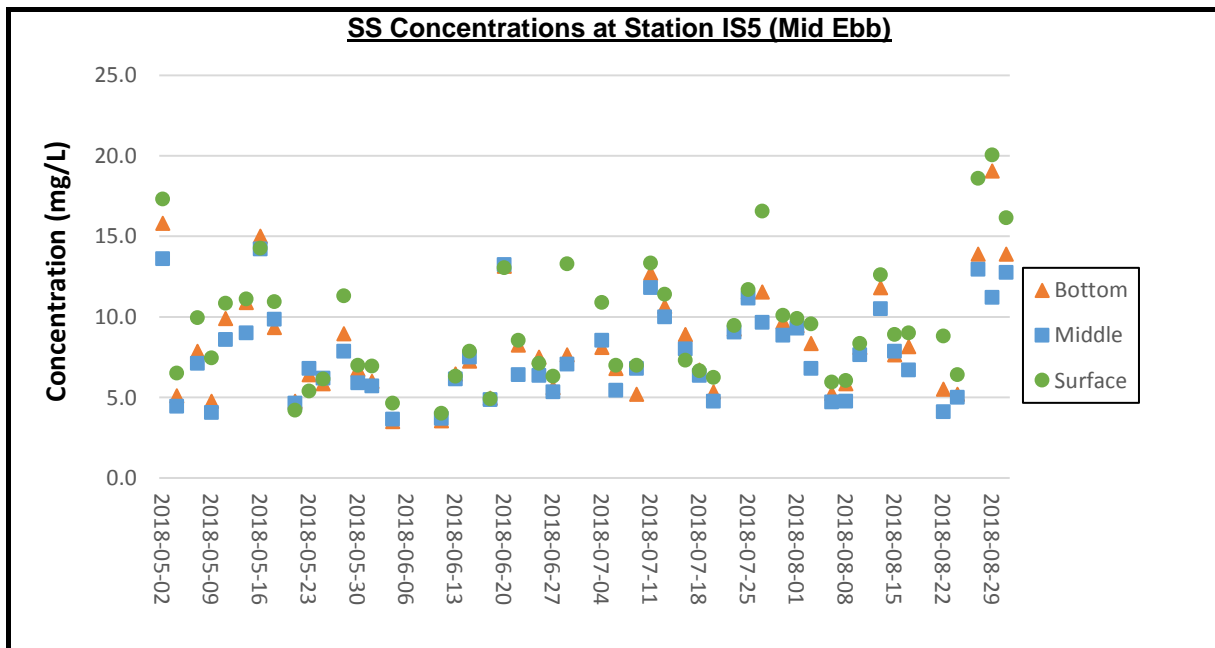
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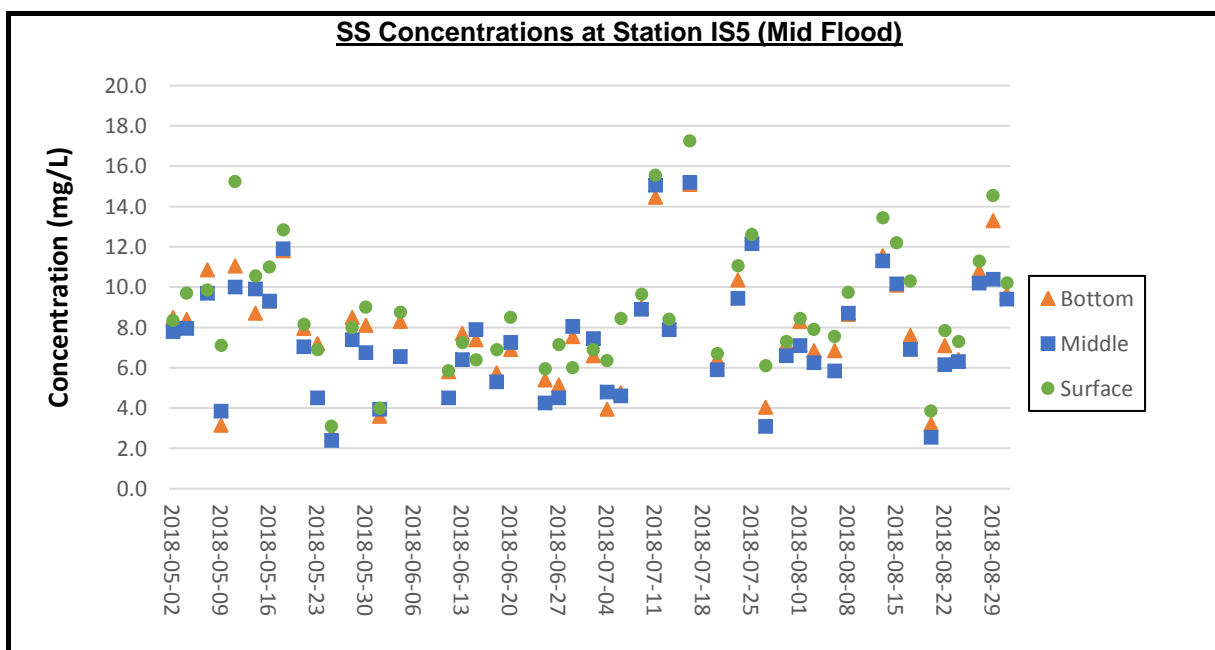
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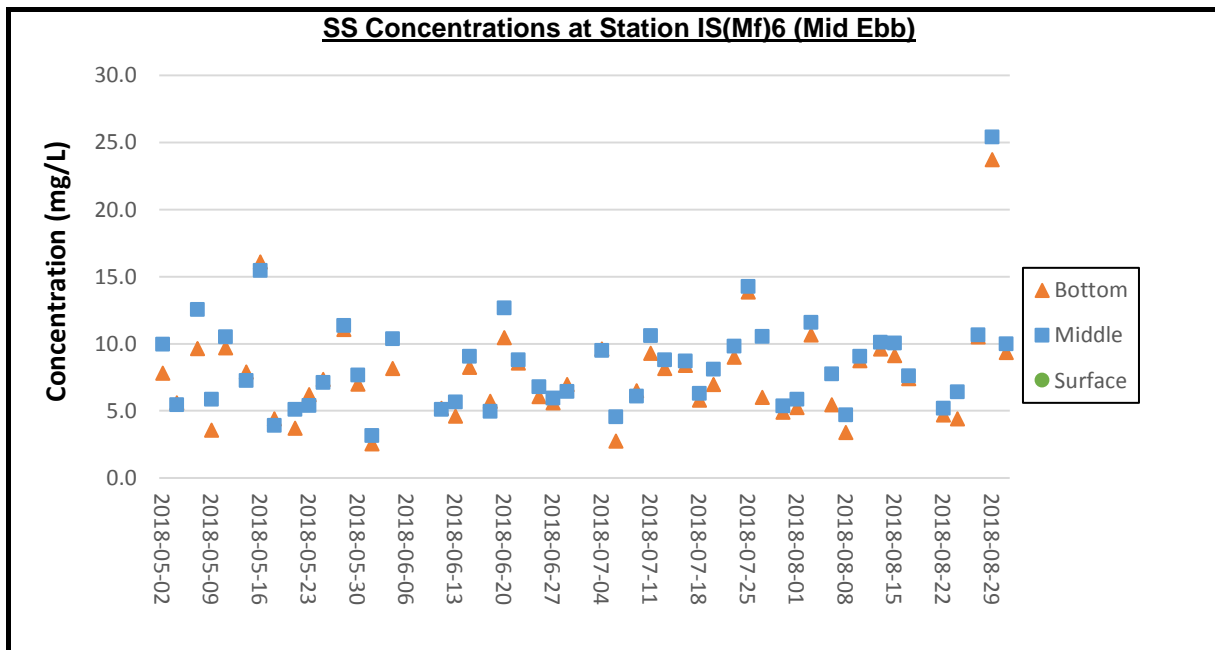
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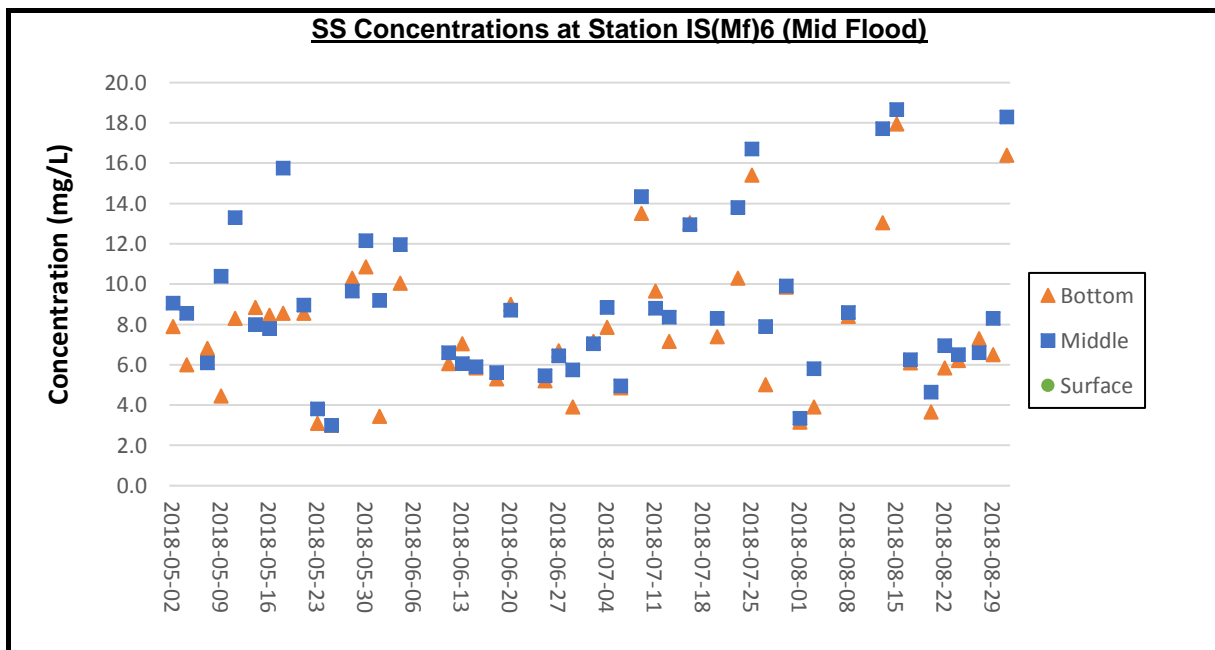
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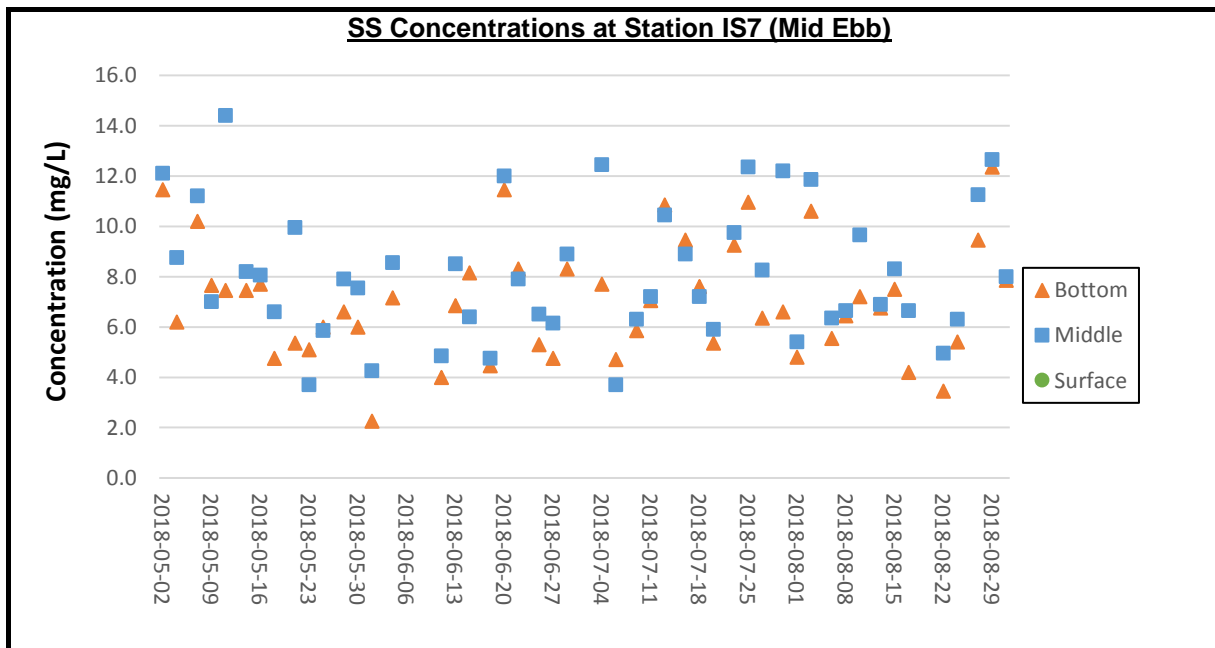
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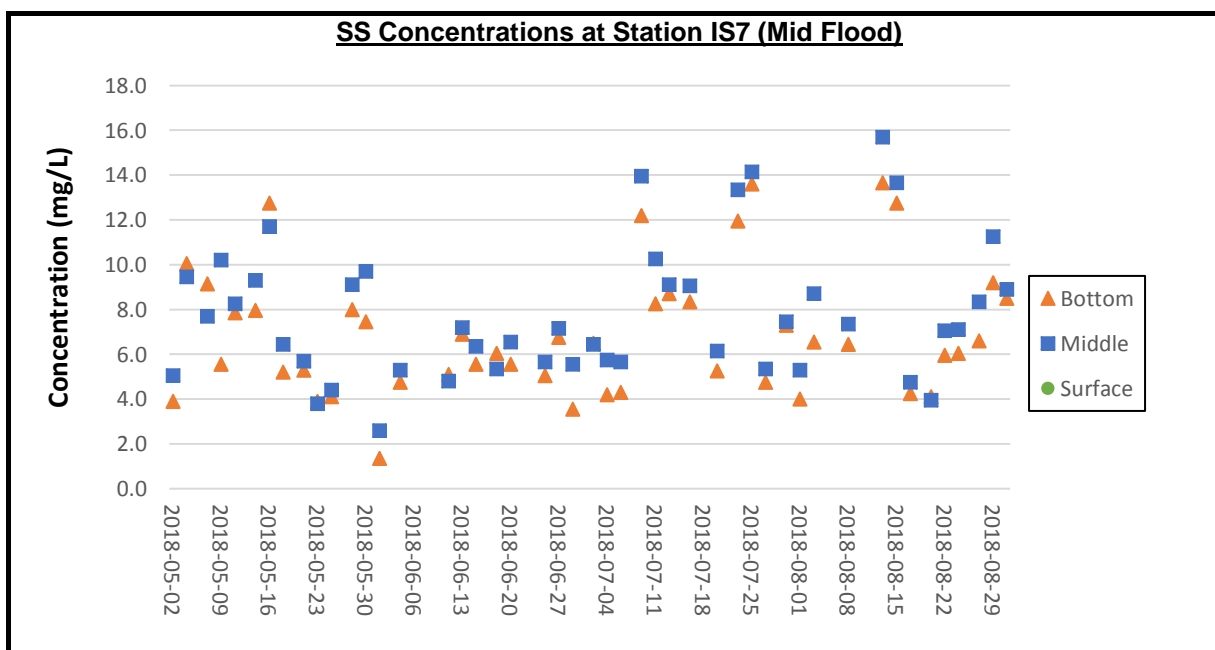
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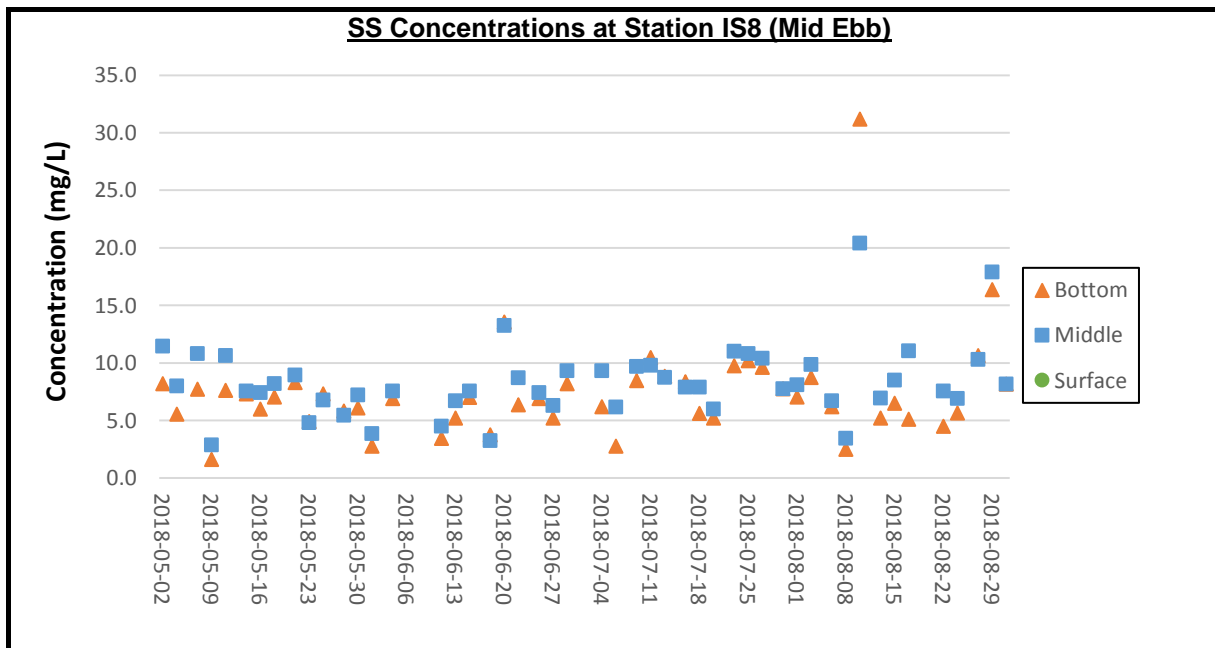
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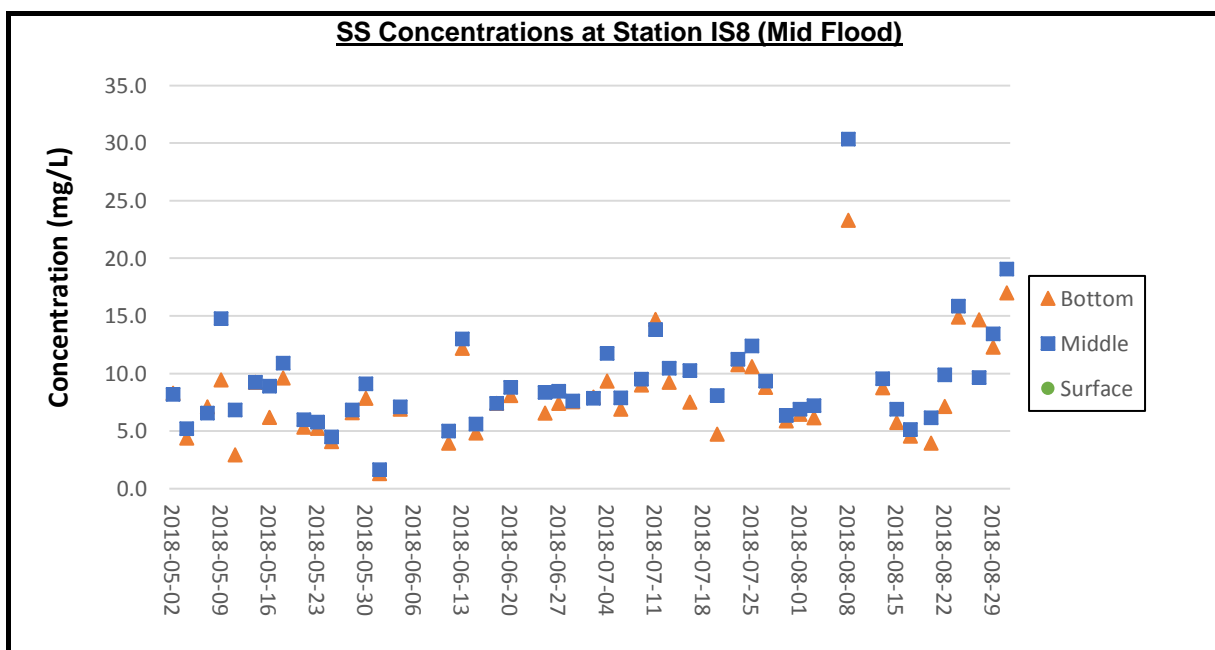
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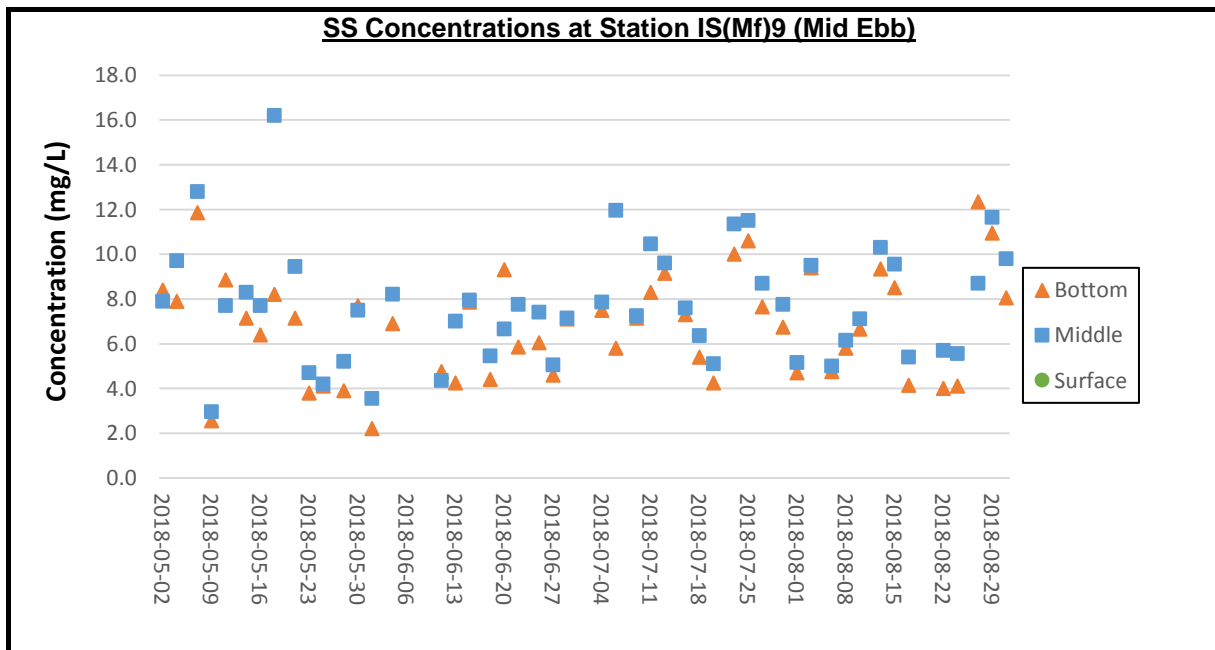
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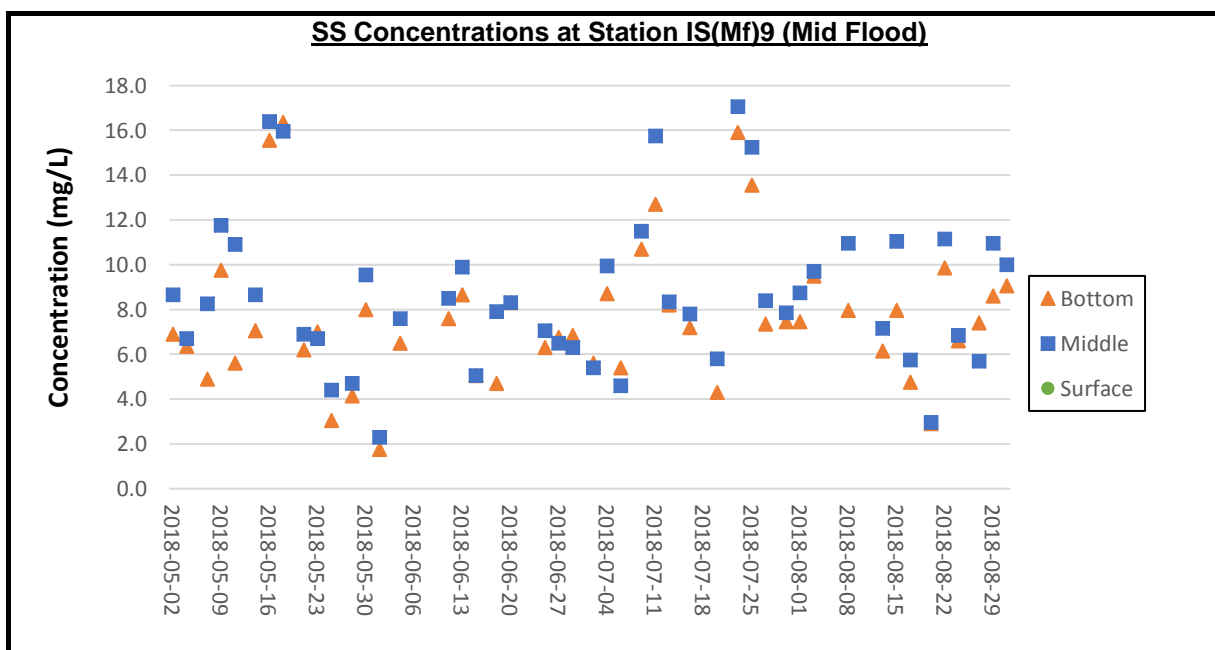
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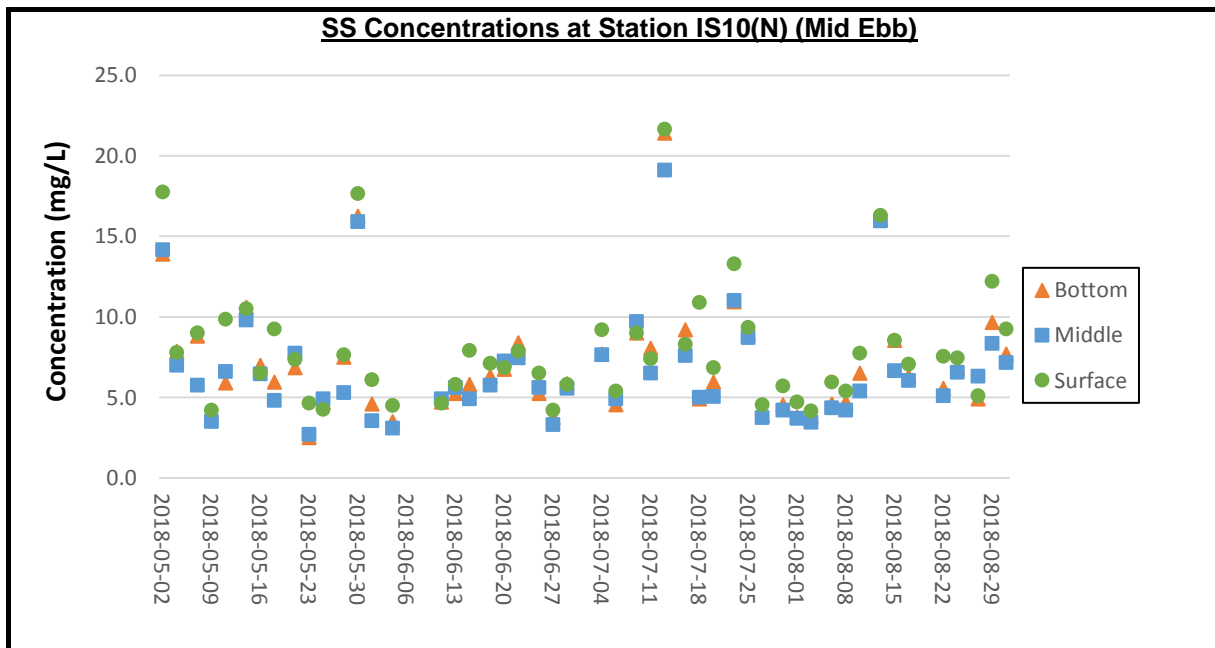
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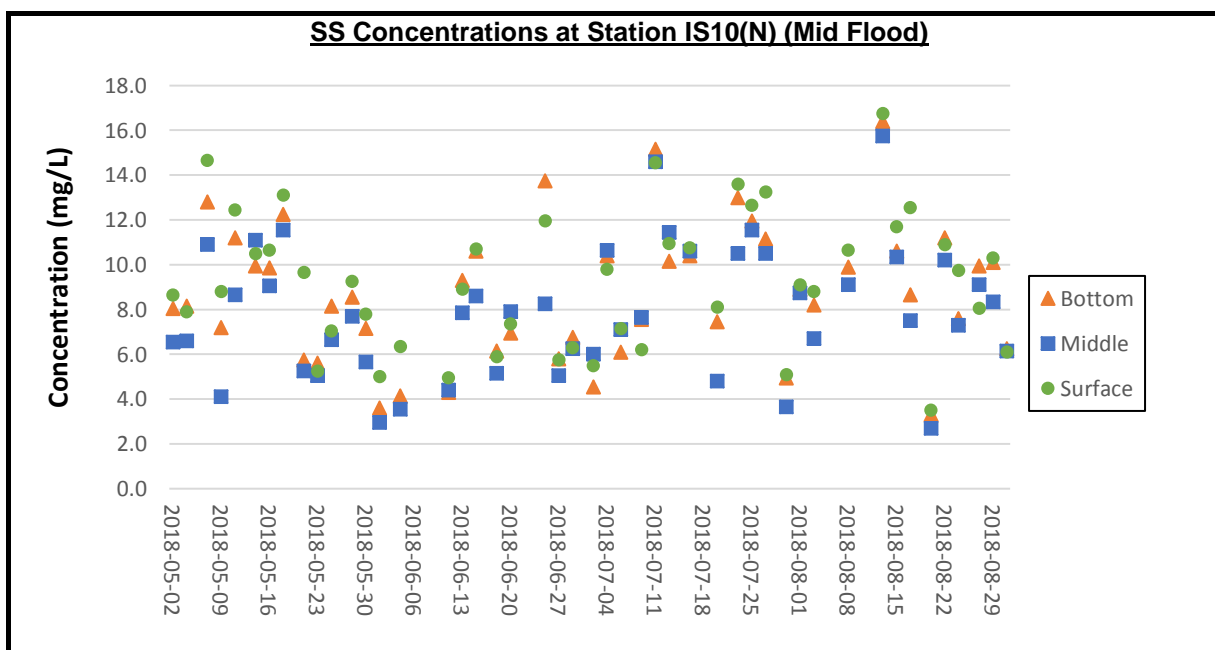
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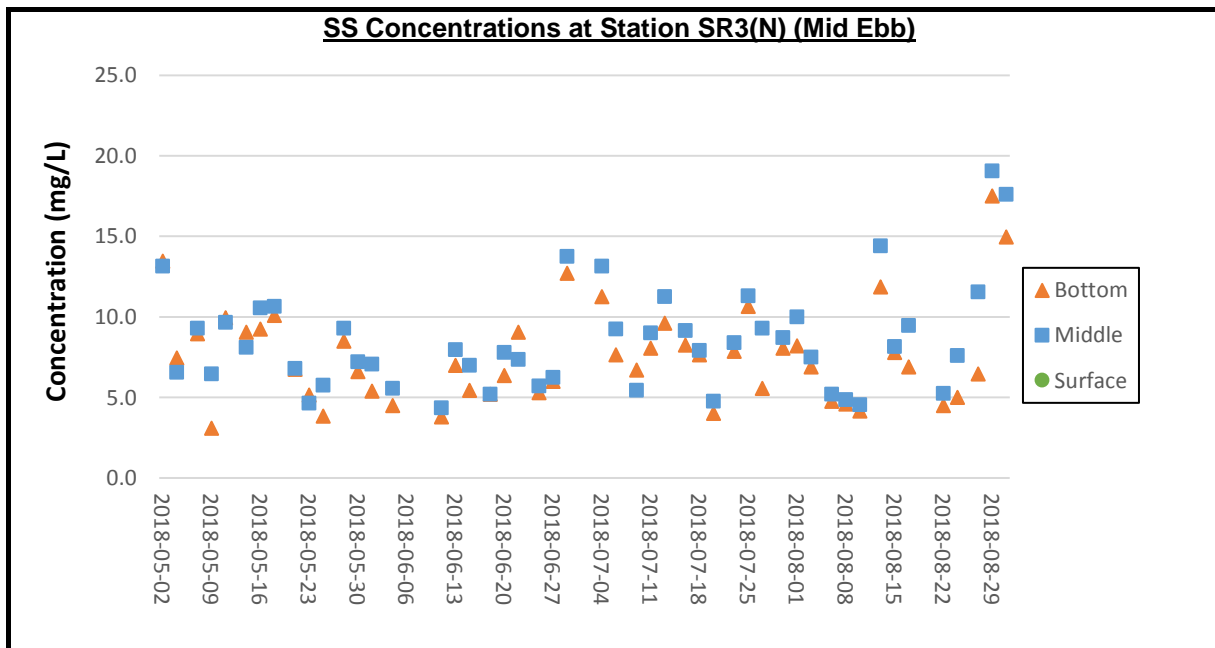
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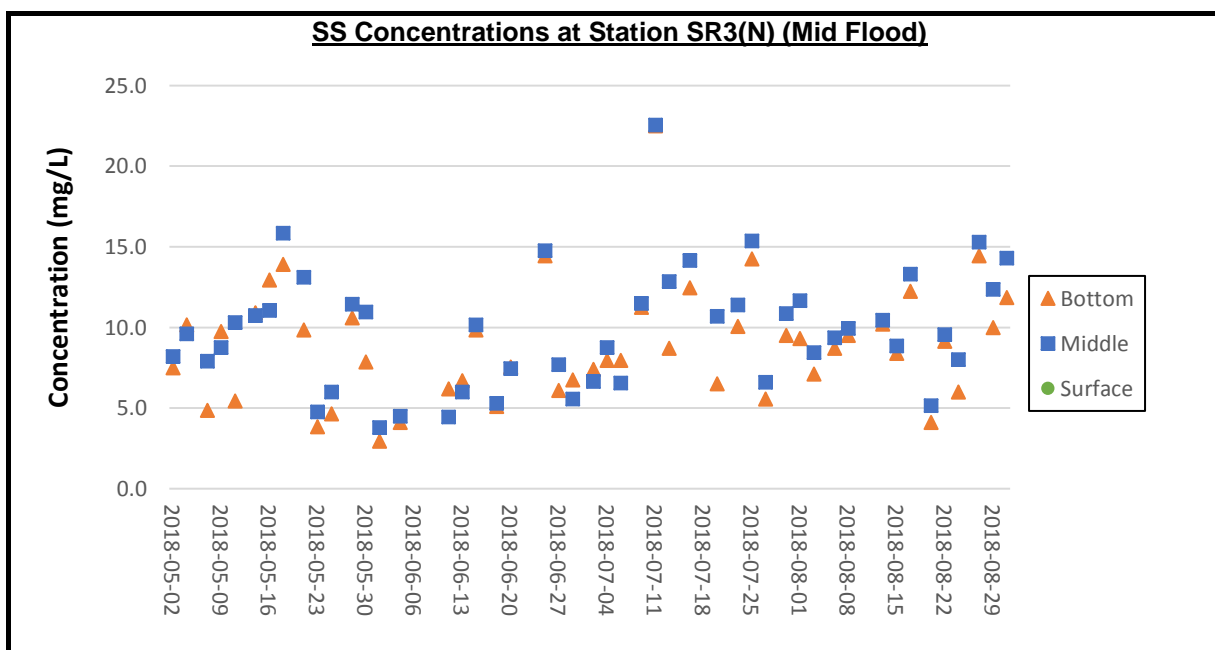
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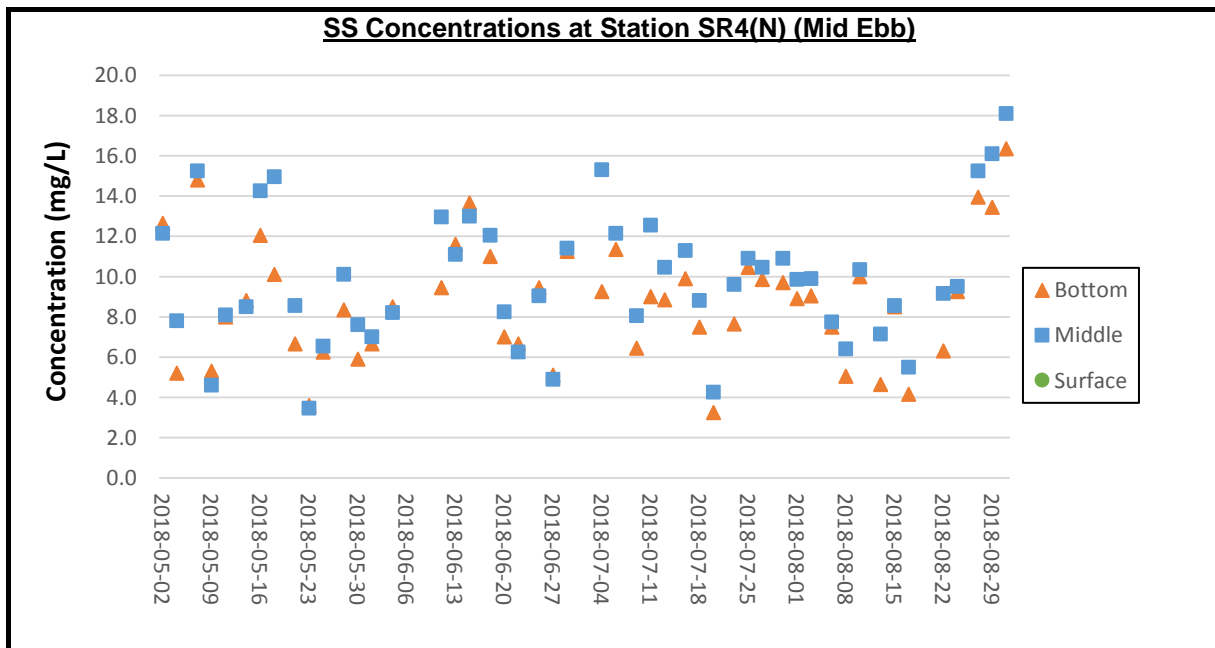
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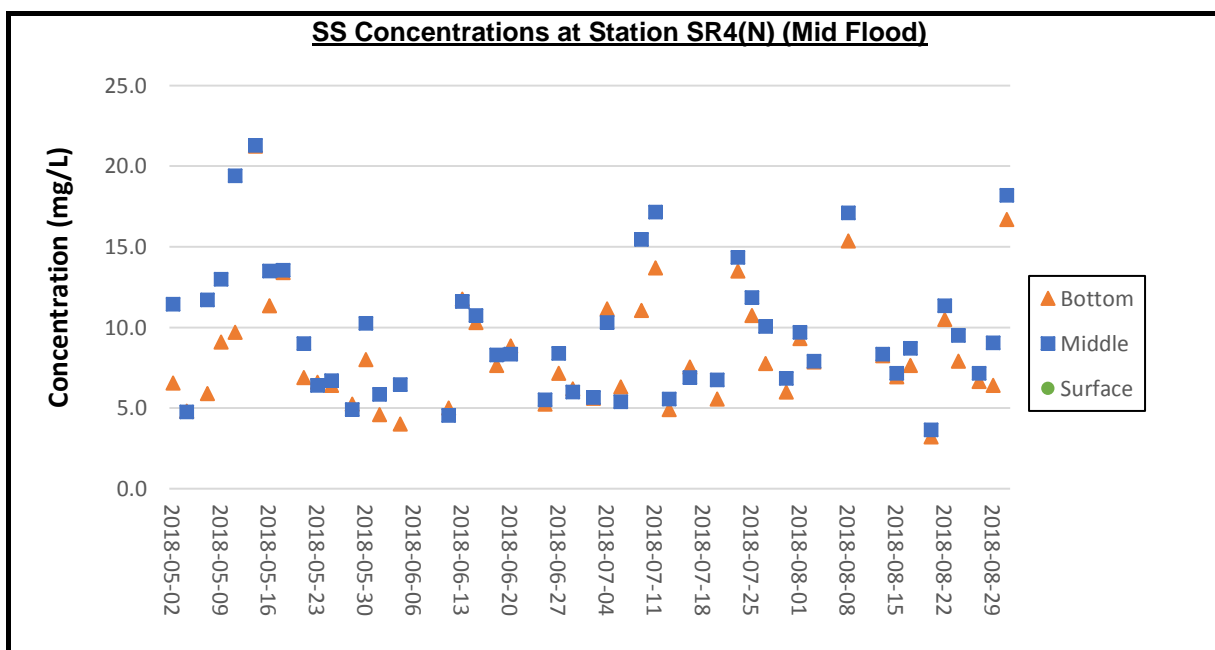
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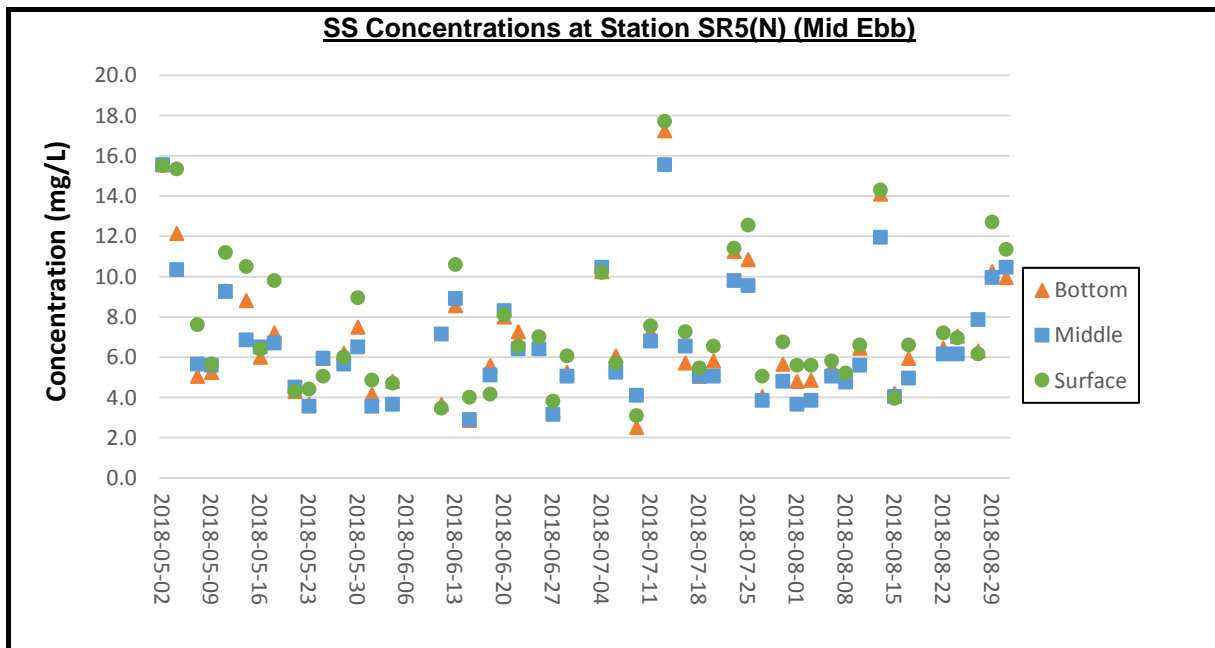
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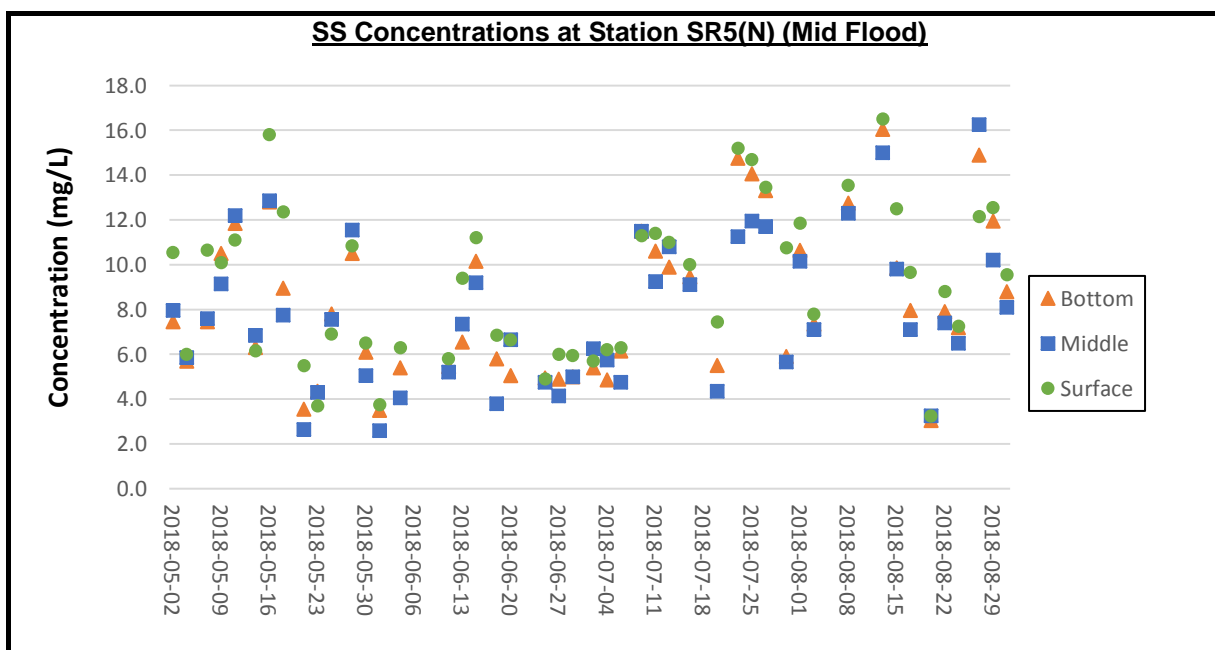
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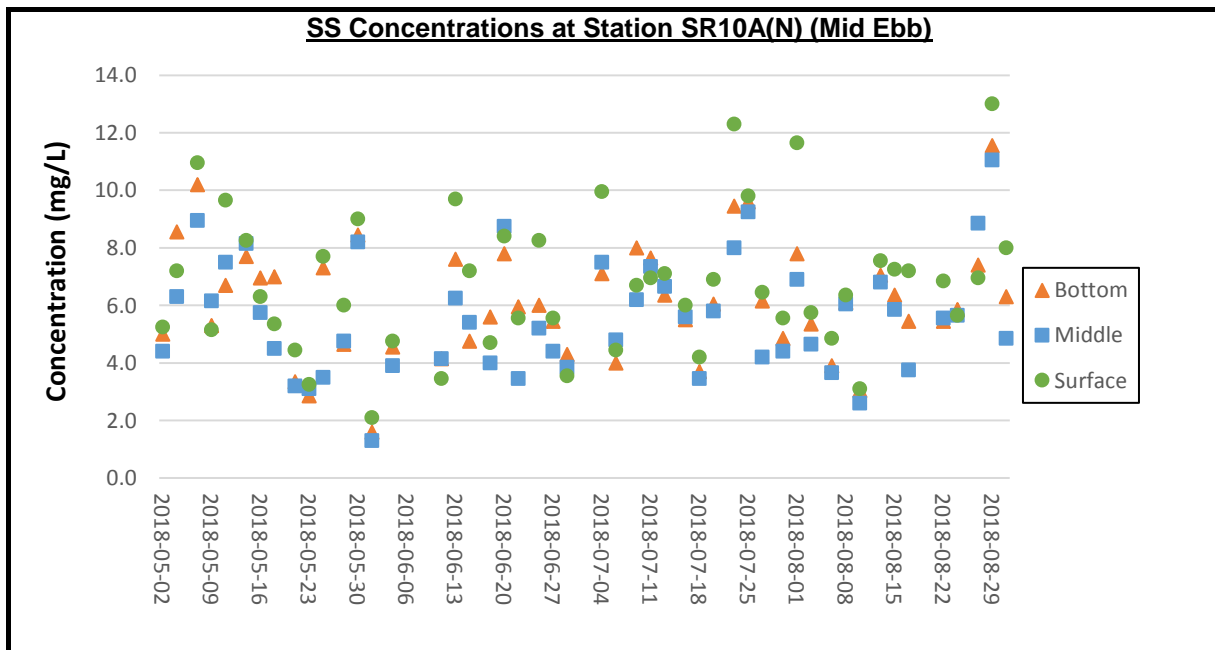
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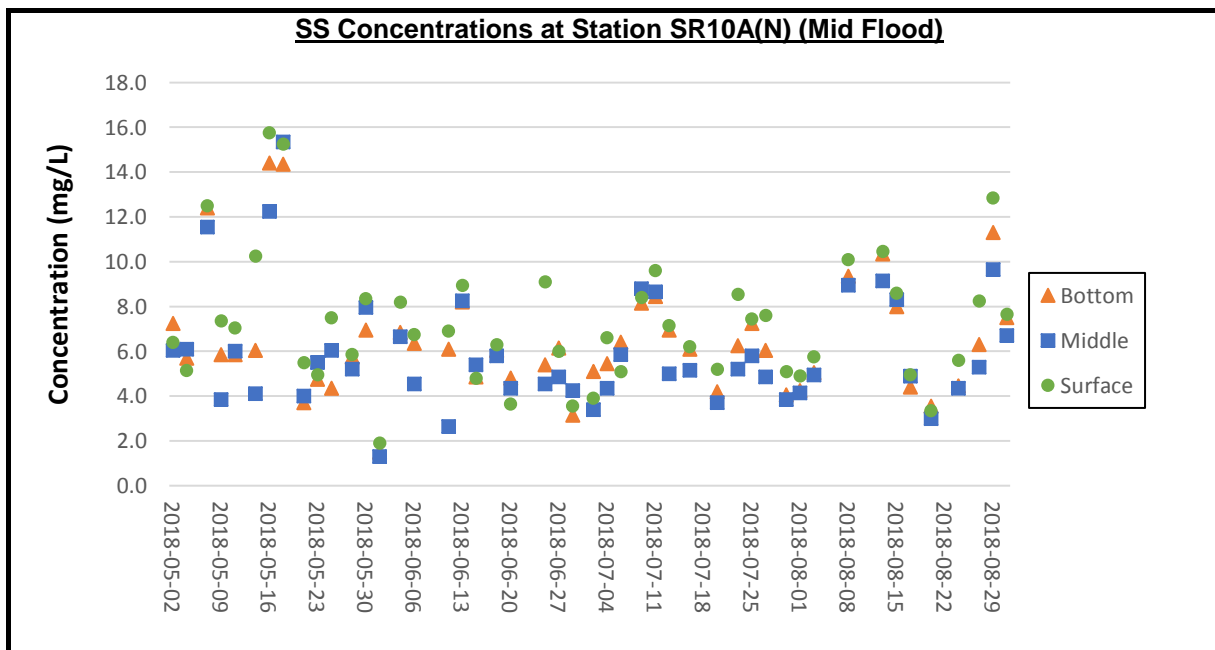
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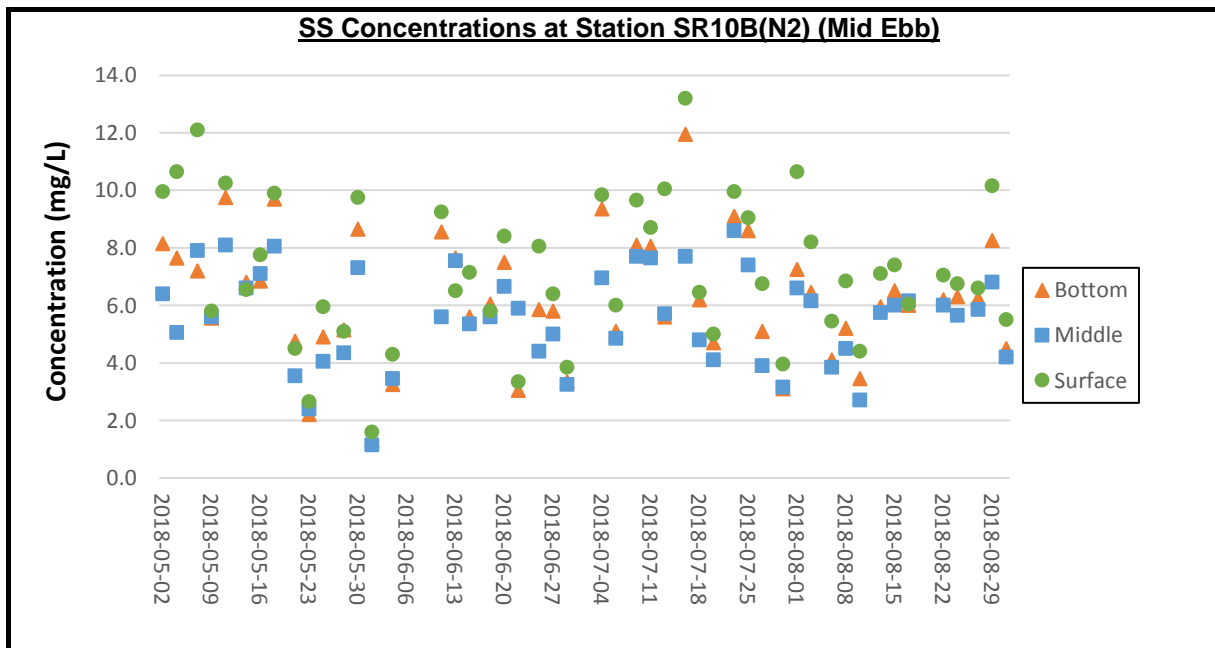
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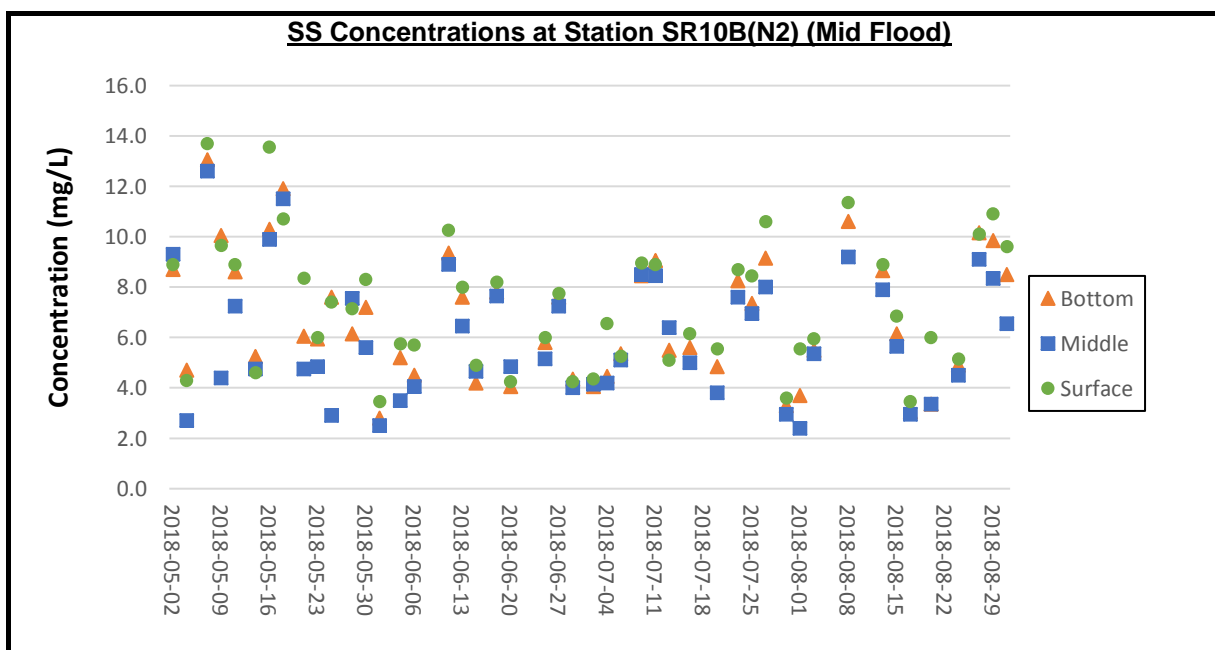
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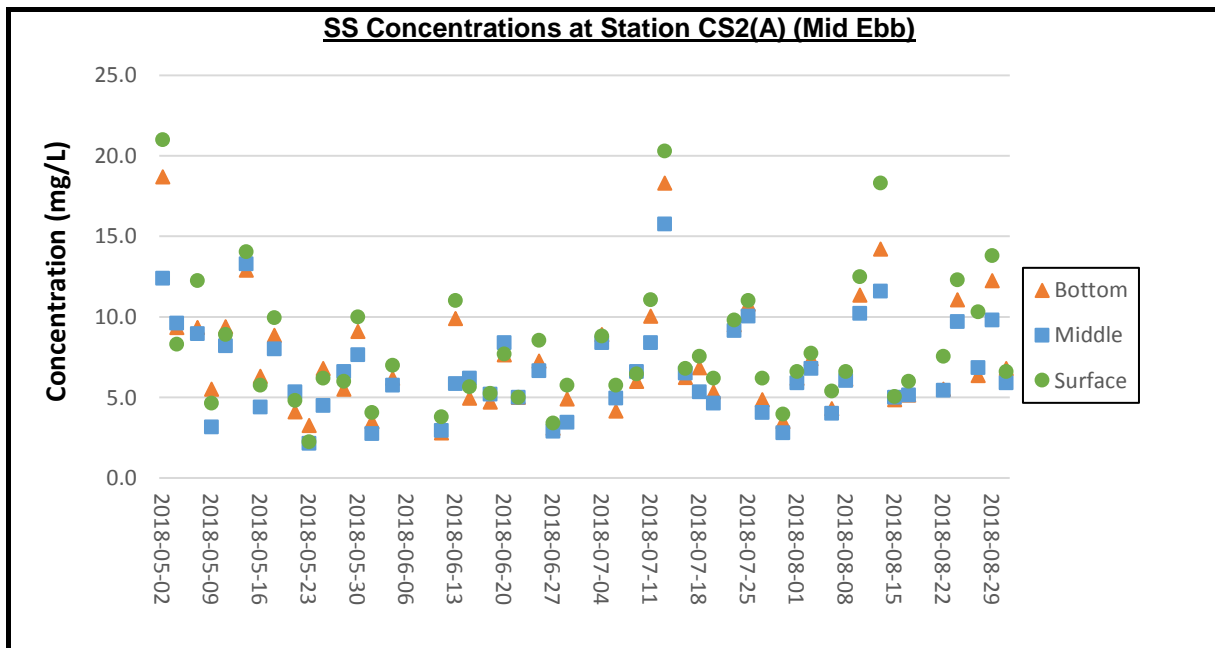
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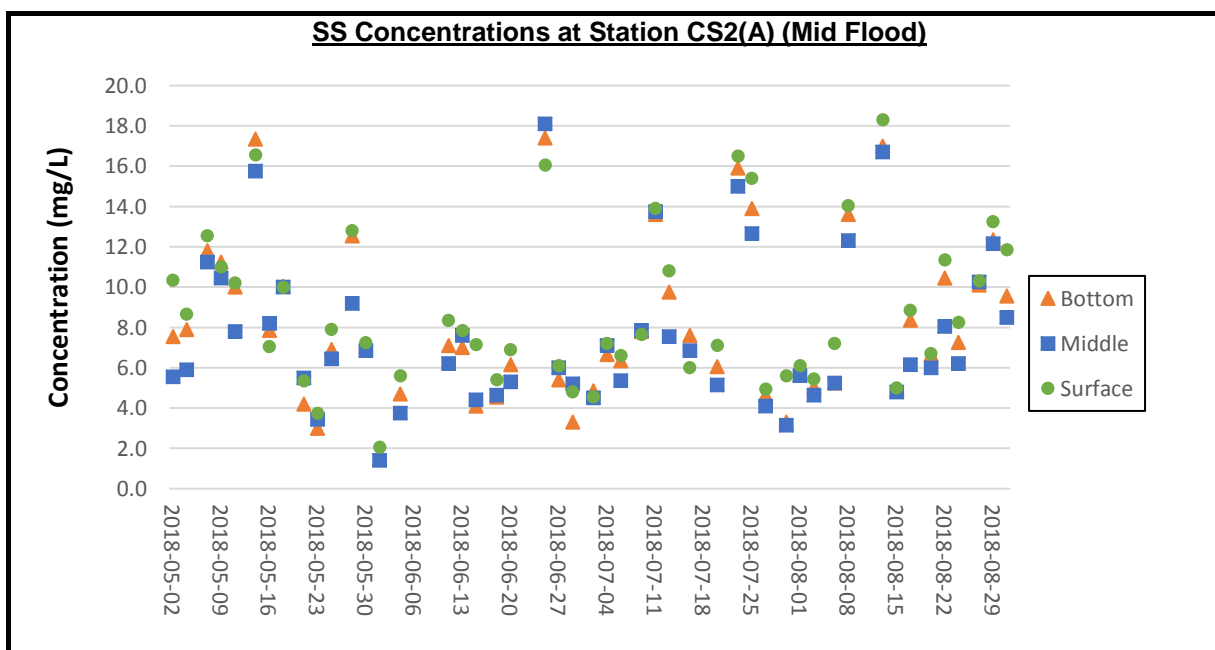
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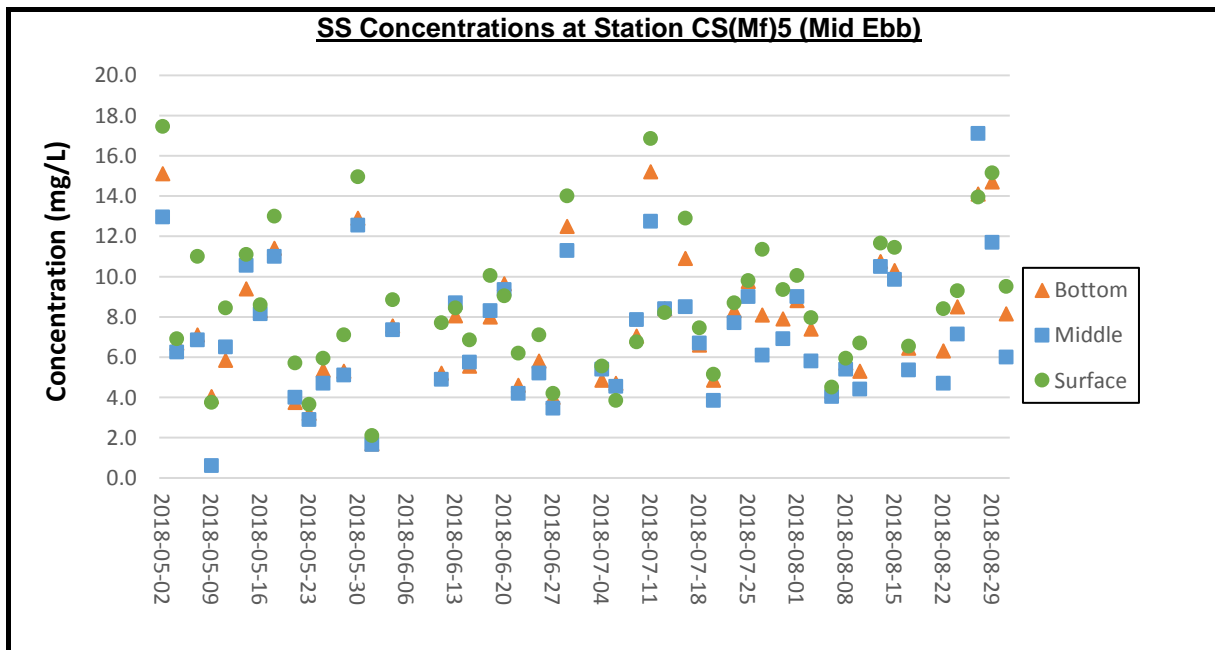
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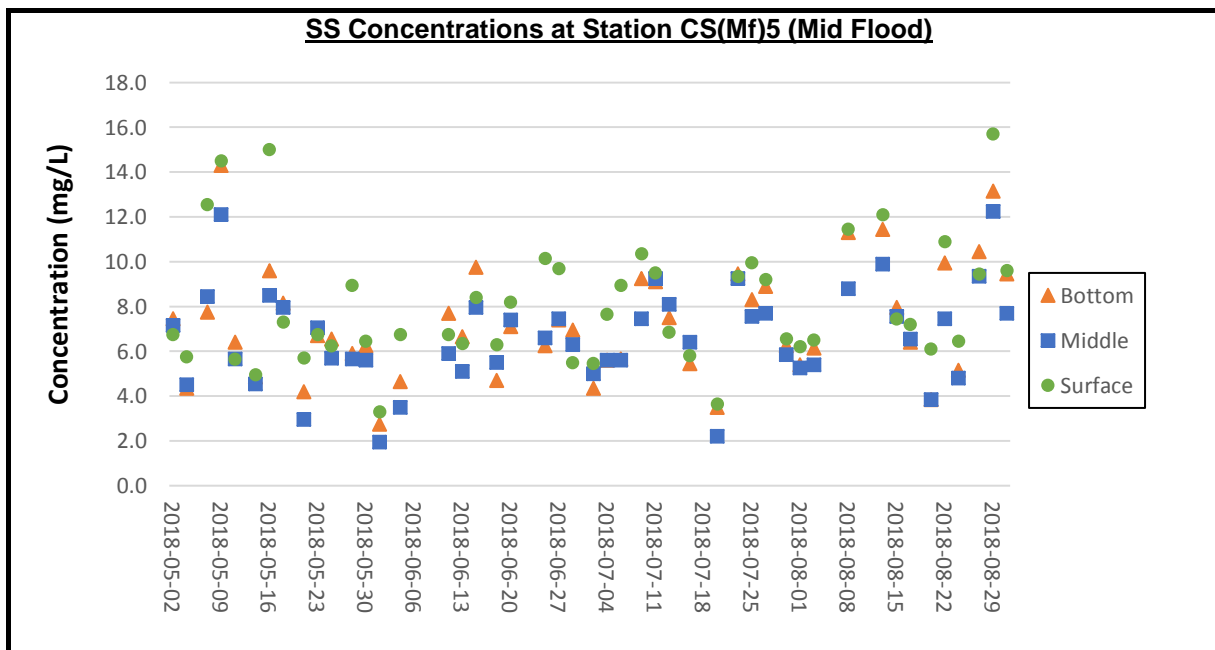
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APPENDIX J

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

24th Quarterly Progress Report (June-August 2018)
submitted to China State Construction Engineering (HK) Ltd.

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

September 21, 2018

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. Since 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 24th 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 survey findings during the period of June to August 2018.

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	805476	820800		14	Start Point	817537	820220
2	End Point	805476	826654		14	End Point	817537	824613
3	Start Point	806464	821150		15	Start Point	818568	820735
3	End Point	806464	822911		15	End Point	818568	824433
4	Start Point	807518	821500		16	Start Point	819532	821420
4	End Point	807518	829230		16	End Point	819532	824209
5	Start Point	808504	821850		17	Start Point	820451	822125
5	End Point	808504	828602		17	End Point	820451	823671
6	Start Point	809490	822150		18	Start Point	821504	822371
6	End Point	809490	825352		18	End Point	821504	823761
7	Start Point	810499	822000		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	821176		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		24	Start Point	805476	815900
12	End Point	815542	824882		24	End Point	805476	819100

- 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 2018). 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. 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-km² grids among NWL and NEL survey areas on GIS. Sighting densities (number of on-effort sightings per km²) and dolphin densities (total number of dolphins from on-effort sightings per km²) 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 sightings per 100 units of survey effort. In addition, the derived unit for actual dolphin density was termed DPSE, representing the number of dolphins per 100 units of survey effort. Among the 1-km² 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-km² grid within the study area:

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

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 June to August 2018, 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 771.98 km of survey effort was collected, with 96.8% 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, 287.18 km and 484.80 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 567.73 km, while the effort on secondary lines was 204.25 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.
- 3.1.4. During the six sets of monitoring surveys conducted between June and August 2018, seven groups of 17 Chinese White Dolphins were sighted, with the summary table of the dolphin sightings shown in Annex II. Six of the seven dolphin sightings were made during on-effort search, while four of the six on-effort dolphin sightings were made on primary lines.
- 3.1.5. 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 HKLR03 monitoring surveys conducted from June to August 2018 is shown in Figure 1. All sightings were made at the northwestern and southwestern ends of the North Lantau region, especially near the mouth of Deep Bay and the HKLR09 alignment (Figure 1). Only one sighting was made near Lung Kwu Chau, even though this area was frequented by dolphins throughout the construction monitoring period in the past several years (Figure 1).
- 3.2.2. As consistently recorded in the previous monitoring quarters, the dolphins were completely absent from the central and eastern portions of North Lantau waters (Figure 1). Moreover, all dolphin sightings were located far away from the HKLR03 and HKBCF reclamation sites as well as along the alignment of Tuen Mun-Chek Lap Kok Link (TMCLKL) (Figure 1).
- 3.2.3. Sighting distribution of dolphins during the present impact phase monitoring period (June-August 2018) was drastically different from the one during the baseline monitoring period (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 21 quarters of HKLR03 monitoring, which has resulted in zero to extremely low dolphin encounter rates in this area.

- 3.2.4. In NWL survey area, dolphin occurrence was also significantly different between the baseline and impact phase periods. During the present impact monitoring period, dolphins were seldom sighted here, and mainly at the northwestern and southwestern ends of the area, which was in stark contrast to their frequent occurrences throughout the area during the baseline period (Figure 1).
- 3.2.5. Another comparison in dolphin distribution was made between the six quarterly periods of summer months in 2013-18 (Figure 2). Among the six summer periods, dolphins were regularly sighted in NWL waters in 2013 and 2014, but their usage there was dramatically reduced in the four subsequent summer periods, with their only occurrences mostly concentrated at the western end of the survey area (Figure 2). Moreover, in the summer of 2018, dolphins were rarely sighted within the Sha Chau and Lung Kwu Chau Marine Park, which was very different from the previous five summer periods (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 1.30 sightings and 3.48 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 June-August 2018

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 (5 & 13 Jun 2018)	0.00	0.00
	Set 2 (19 & 27 Jun 2018)	0.00	0.00
	Set 3 (3 & 8 Jul 2018)	0.00	0.00
	Set 4 (12 & 20 Jul 2018)	0.00	0.00
	Set 5 (1 & 8 Aug 2018)	0.00	0.00
	Set 6 (21 & 28 Aug 2018)	0.00	0.00
Northwest Lantau	Set 1 (5 & 13 Jun 2018)	0.00	0.00
	Set 2 (19 & 27 Jun 2018)	1.91	3.81
	Set 3 (3 & 8 Jul 2018)	0.00	0.00
	Set 4 (12 & 20 Jul 2018)	1.68	6.71
	Set 5 (1 & 8 Aug 2018)	3.36	6.72
	Set 6 (21 & 28 Aug 2018)	0.00	0.00

Table 3. Comparison of average dolphin encounter rates from impact monitoring period (June – August 2018) 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)	
	June – August 2018	September – November 2011	June – August 2018	September – November 2011
Northeast Lantau	0.0	6.00 ± 5.05	0.0	22.19 ± 26.81
Northwest Lantau	1.16 ± 1.39	9.85 ± 5.85	2.87 ± 3.32	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 21 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 **summer** 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
March-May 2017 (Impact)	0.00	0.00
June-August 2017 (Impact)	0.00	0.00
September-November 2017 (Impact)	0.00	0.00
December 2017-February 2018 (Impact)	0.00	0.00
March-May 2018 (Impact)	0.00	0.00
June-August 2018 (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 88.2% and 93.5% respectively) were only tiny 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).

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 **summer** 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
March-May 2017 (Impact)	0.93 ± 1.03	5.25 ± 9.53
June-August 2017 (Impact)	2.20 ± 2.88	6.58 ± 8.12
September-November 2017 (Impact)	3.12 ± 1.91	10.35 ± 9.66
December 2017-February 2018 (Impact)	4.75 ± 2.26	15.73 ± 15.94
March-May 2018 (Impact)	2.88 ± 4.81	11.12 ± 22.46
June-August 2018 (Impact)	1.16 ± 1.39	2.87 ± 3.32

3.3.5. Notably, the ER(STG) and ER(ANI) in the present quarter were the fourth and

second lowest respectively among all quarters during the entire HKLR03 construction period. Moreover, when comparing the quarterly periods in summer months, the quarterly encounter rates in the summer of 2018 were the lowest among all summer periods during the HKLR03 construction phase. The dramatic drop in dolphin occurrence during this quarter should raise some concerns, and such temporal trend should be closely monitored in the upcoming monitoring quarters as the construction activities of HZMB works continue to diminish in coming months.

- 3.3.6. 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).
- 3.3.7. For the comparison between the baseline period and the present quarter (23rd quarter of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.0022 and 0.0144 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.
- 3.3.8. For the comparison between the baseline period and the cumulative quarters in impact phase (i.e. the first 23 quarters of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.000000 and 0.000000 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).
- 3.3.9. 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 when compared to the baseline period, and such low occurrence of dolphins has also been consistently documented in previous quarters of the past few years.
- 3.3.10. The significant decline in dolphin usage of North Lantau region 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 2018). Apparently there was very little sign of recovery of dolphin usage, even though almost all marine works associated with the HZMB construction have been completed.

3.4. *Group size*

3.4.1. Group size of Chinese White Dolphins ranged from one to five individuals per group in North Lantau region during June to August 2018. 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 (June – August 2018) and baseline monitoring period (September – November 2011) (Note: \pm denotes the standard deviation of the average group size)

	Average Dolphin Group Size	
	June – August 2018	September – November 2011
Overall	2.43 \pm 1.62 (n = 7)	3.72 \pm 3.13 (n = 66)
Northeast Lantau	---	3.18 \pm 2.16 (n = 17)
Northwest Lantau	2.43 \pm 1.62 (n = 7)	3.92 \pm 3.40 (n = 49)

3.4.2. The average dolphin group size in NWL waters during June to August 2018 was lower than the one recorded during the three-month baseline period, but it should be noted that the sample size of seven dolphin groups in the present quarter was very small when compared to the 66 groups sighted during the baseline period (Table 6).

3.4.3. Notably, with the exception of a medium-sized group with five animals, the other six dolphin groups were small and composed of 1-4 individuals only (Annex II).

3.4.4. Distribution of the lone larger dolphin group with five individuals during the present quarter is shown in Figure 3, with comparison to the one in baseline period. That medium-sized dolphin group sighted in the present quarter was located at the mouth of Deep Bay near Black Point (Figure 3). Such distribution pattern was very different from the baseline period, when the larger dolphin groups were frequently sighted and evenly distributed in NWL waters (especially around the Sha Chau and Lung Kwu Chau Marine Park), and a few were also sighted in NEL waters (Figure 3).

3.5. *Habitat use*

3.5.1. From June to August 2018, only five grids recorded dolphin occurrence, and the grids with moderately high dolphin densities were located at the mouth of Deep Bay and near the HKLR09 alignment (Figures 4a and 4b).

- 3.5.2. Notably, 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).
- 3.5.3. 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 is collected throughout the impact phase monitoring programme.
- 3.5.4. 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).
- 3.5.5. The density patterns were also drastically different in NWL between the baseline and impact phase monitoring periods, with high dolphin usage recorded throughout the area during the baseline period, especially around Sha Chau, near Black Point, to the west of the airport, as well as between Pillar Point and airport platform. In contrast, only several grids with low to moderate dolphin densities were located at the northwestern and southwestern ends of NWL waters during the present impact phase period (Figure 5).
- 3.6. *Mother-calf pairs*
- 3.6.1. During the present quarterly period, no young calf was sighted at all among the seven groups of dolphins.
- 3.7. *Activities and associations with fishing boats*
- 3.7.1. Only one of the seven dolphin groups was engaged in feeding activity, while no group 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 activity (14.3%) was comparable to the one recorded during the baseline period (11.6%). However, it should be noted the sample sizes on total numbers of dolphin sightings were very different between the two periods.
- 3.7.3. Distribution of dolphins engaged in various activities during the present

three-month period and baseline period is shown in Figure 6. The only dolphin group engaged in feeding activity was sighted near the HKLR09 alignment at the southwestern corner of NWL waters (Figure 6). When compared to the baseline period, distribution of various dolphin activities during the present impact phase monitoring period was very different with a much more restricted area of occurrence (Figure 6).

3.7.4. Notably, none of the seven 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 June to August 2018, about 500 digital photographs of Chinese White Dolphins were taken during the impact phase monitoring surveys for the photo-identification work.

3.8.2. In total, 13 individuals sighted 16 times altogether were identified (see summary table in Annex III and photographs of identified individuals in Annex IV). All of these re-sightings were made in NWL. Only three individuals (CH34, NL12 and NL145) were re-sighted twice, while the rest were re-sighted once during the three-month period (Annex III).

3.8.3. Notably, three of these 13 individuals (i.e. CH34, NL202 and NL317) were also sighted in NWL waters during the HKBCF monitoring surveys under the same three-month period. Moreover, seven individuals (i.e. NL145, NL233, NL302, NL317, NL327, NL329 and WL188) were also sighted in WL waters during the HKLR09 monitoring surveys from June to August 2018, showing their extensive movements across different survey areas.

3.9. *Individual range use*

3.9.1. Ranging patterns of the 13 individuals identified during the three-month study period were determined by fixed kernel method, and are shown in Annex 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 (Annex 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, in contrary to previous monitoring quarters, none of the individuals that consistently utilized WL waters in the past have extended their range use to NWL waters during the present quarter.

- 3.9.4. 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 (and vice versa), as such shift could possibly be related to the HZMB-related construction works.

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

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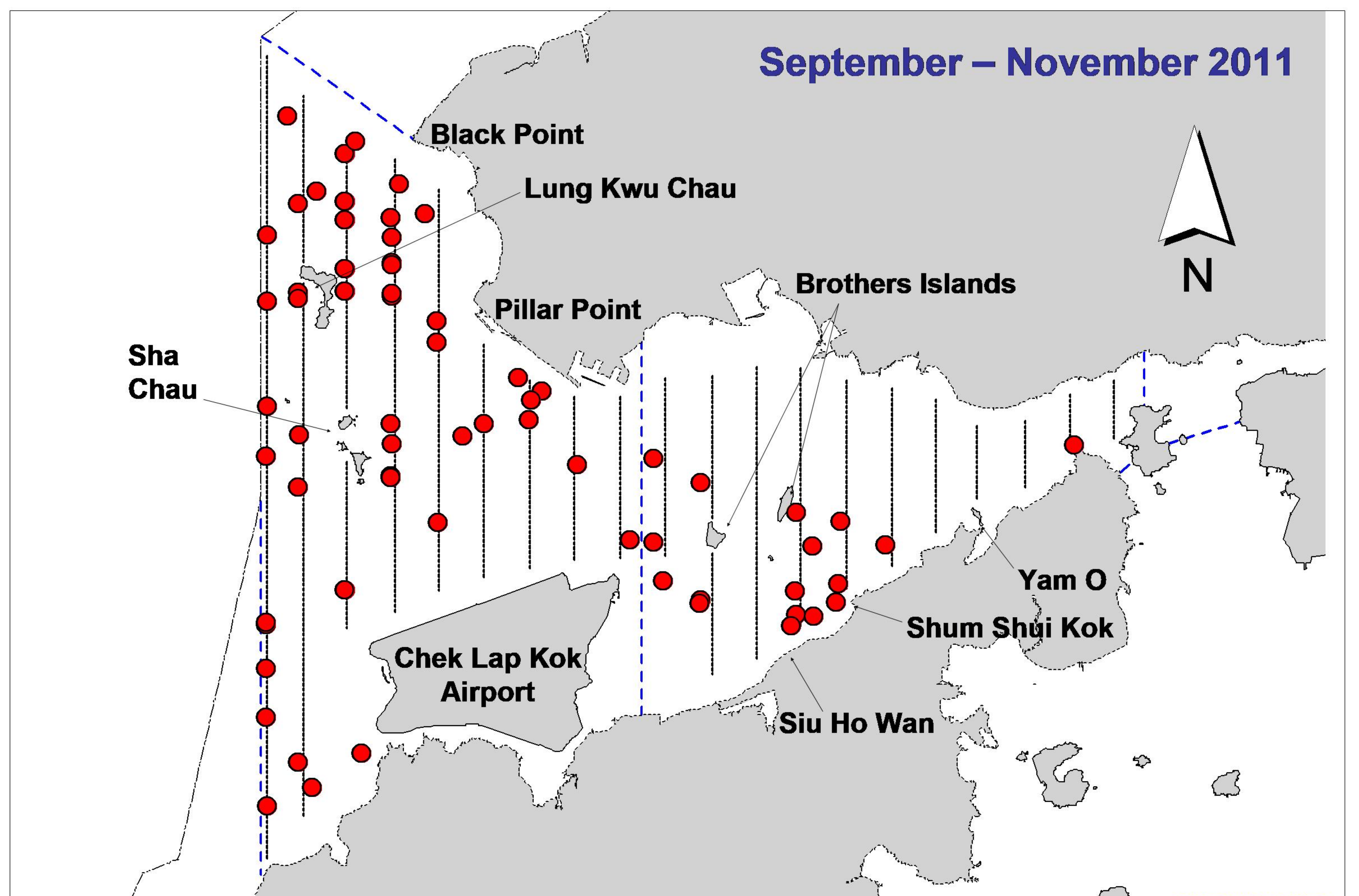
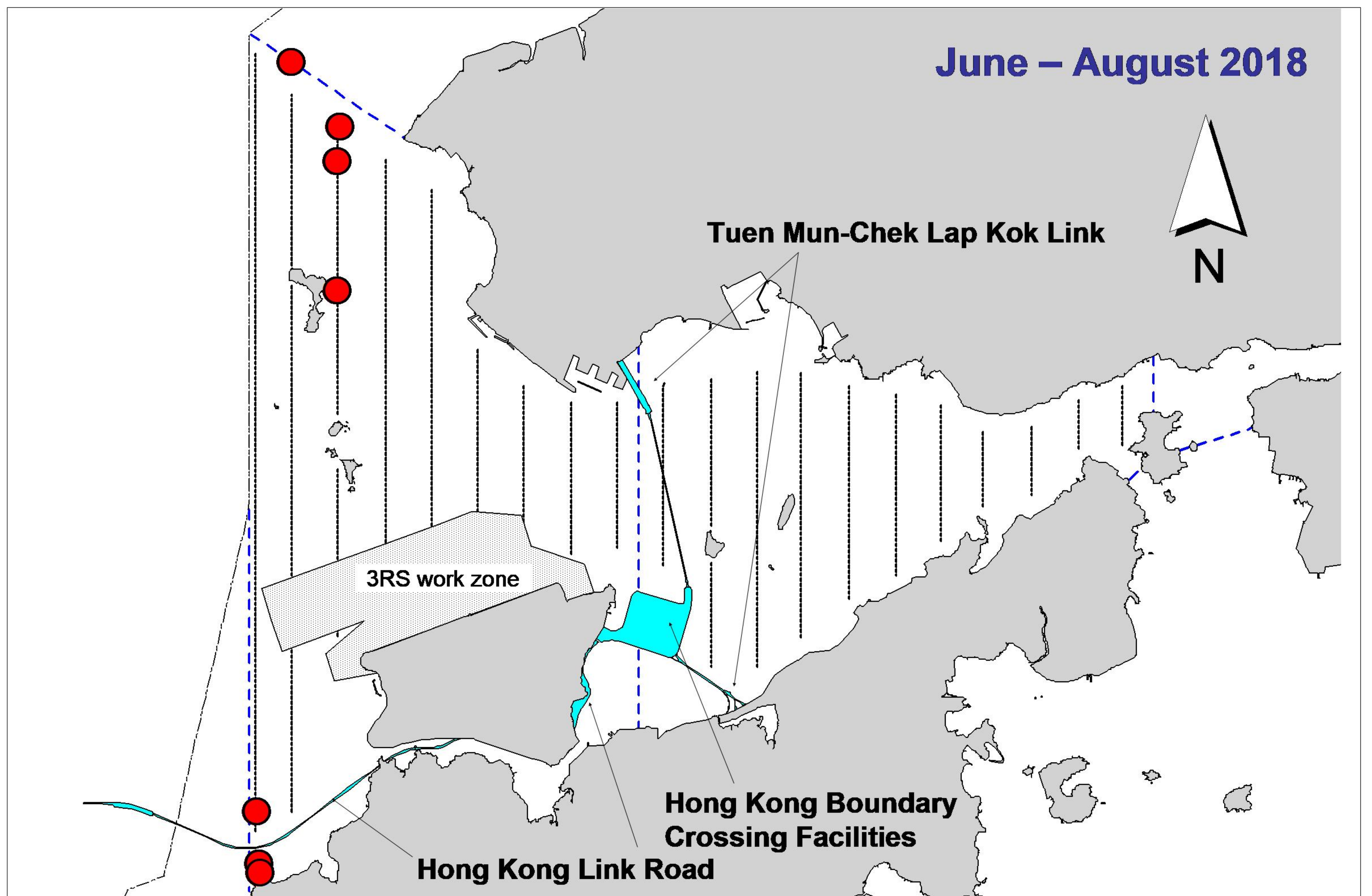


Figure 1. Distribution of Chinese white dolphin sighting in Northwest and Northeast Lantau during HKLR03 impact phase (top) and baseline monitoring surveys (bottom)

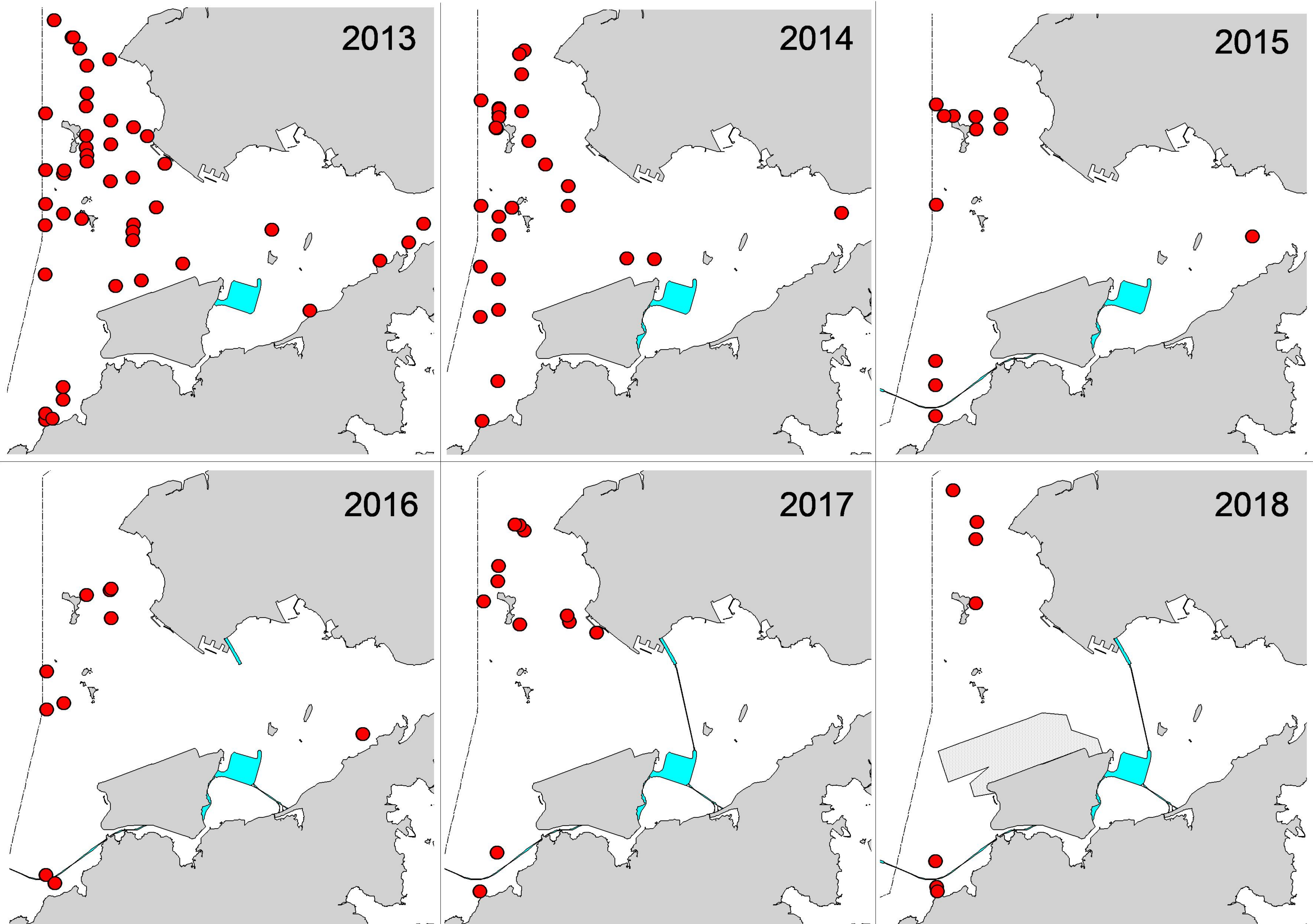


Figure 2. Distribution of Chinese white dolphin sightings in Northwest and Northeast Lantau during the past six summer quarters (June-August) of HKLR03 impact phase in 2013-18

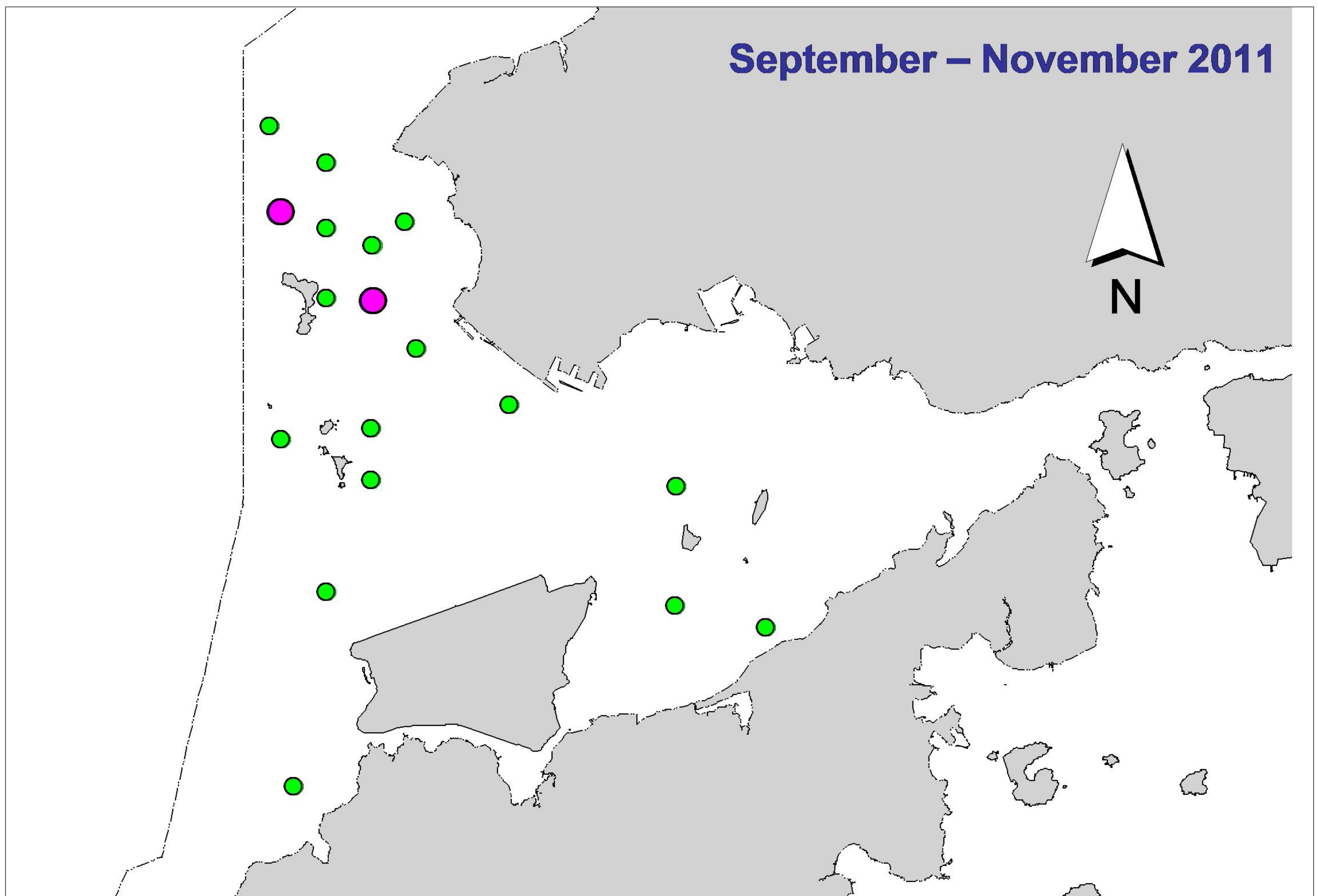
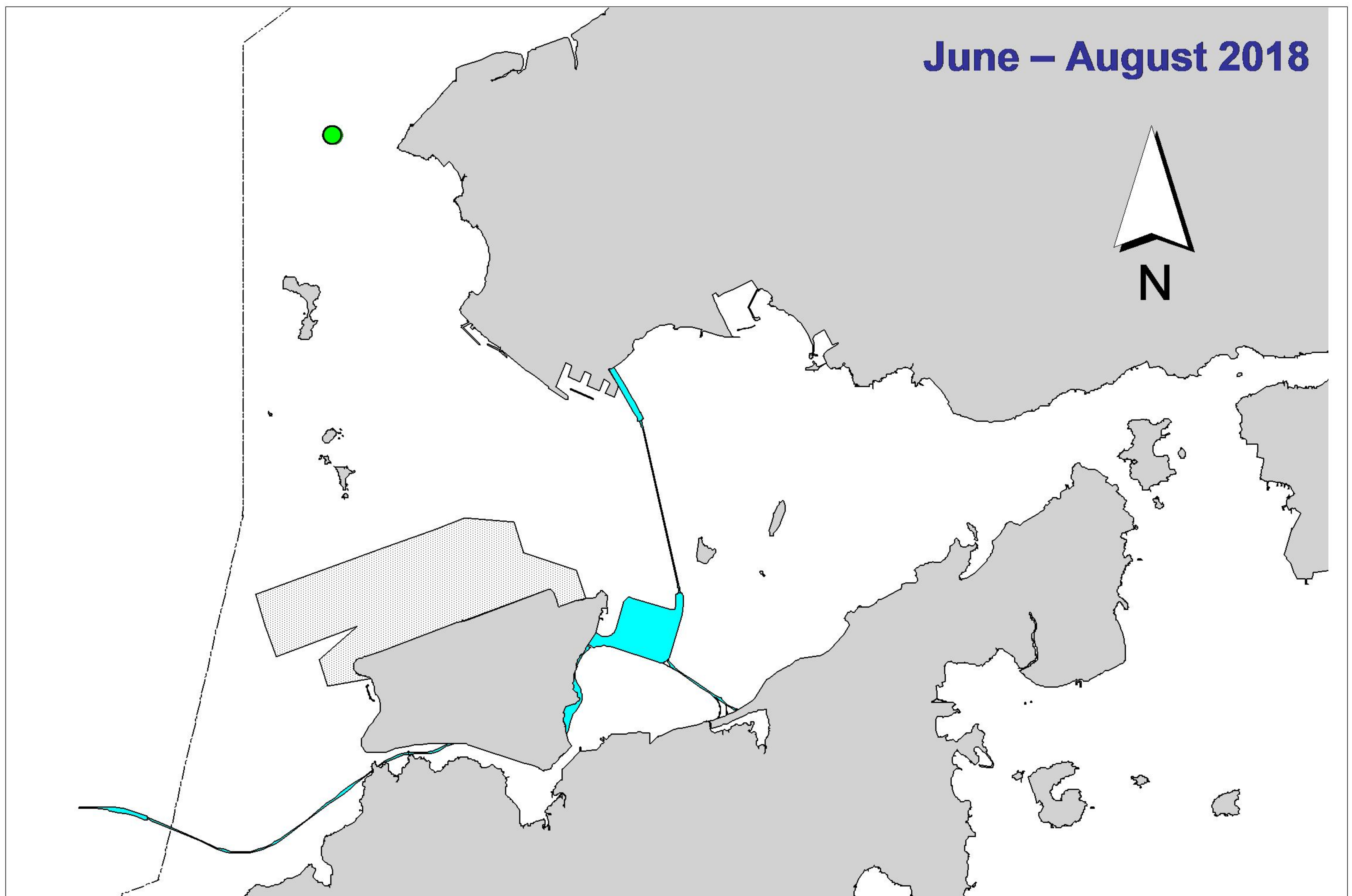


Figure 3. Distribution of Chinese white dolphins with larger group sizes during HKLR03 impact phase (top) and baseline monitoring surveys (bottom) (green dots: group sizes of 5 or more; purple dots: group sizes of 10 or more)

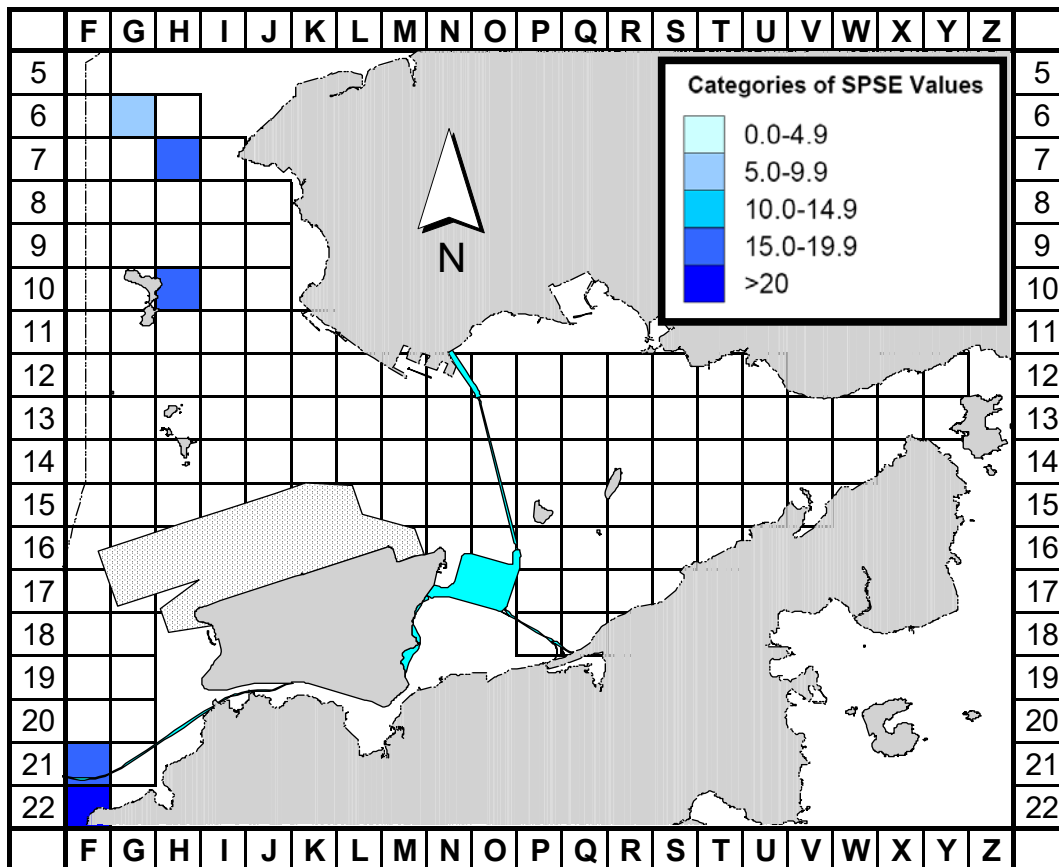


Figure 4a. Sighting density of Chinese white dolphins with corrected survey effort per km² in Northeast and Northwest Lantau survey areas, using data collected during HKLR03 impact monitoring period (June-August 18) (SPSE = no. of on-effort sightings per 100 units of survey effort)

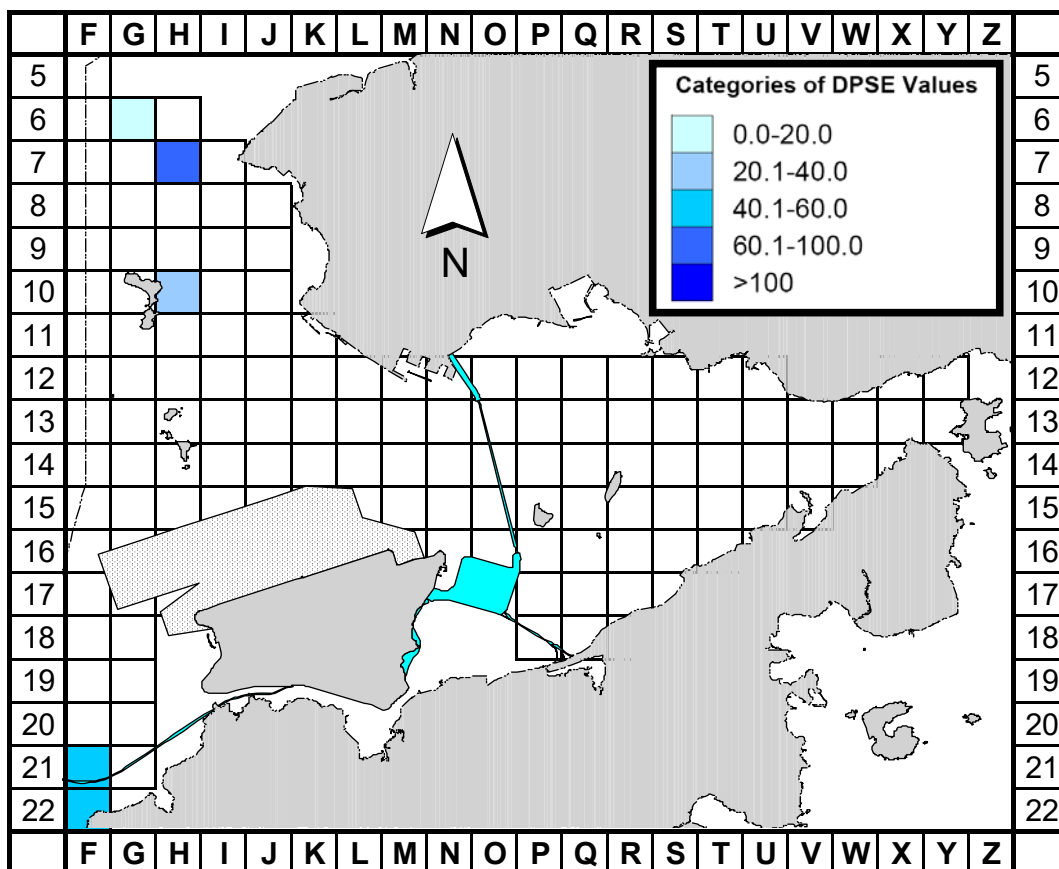


Figure 4b. Density of Chinese white dolphins with corrected survey effort per km² in Northeast and Northwest Lantau survey areas, using data collected during HKLR03 impact monitoring period (June-August 18) (DPSE = no. of dolphins per 100 units of survey effort)

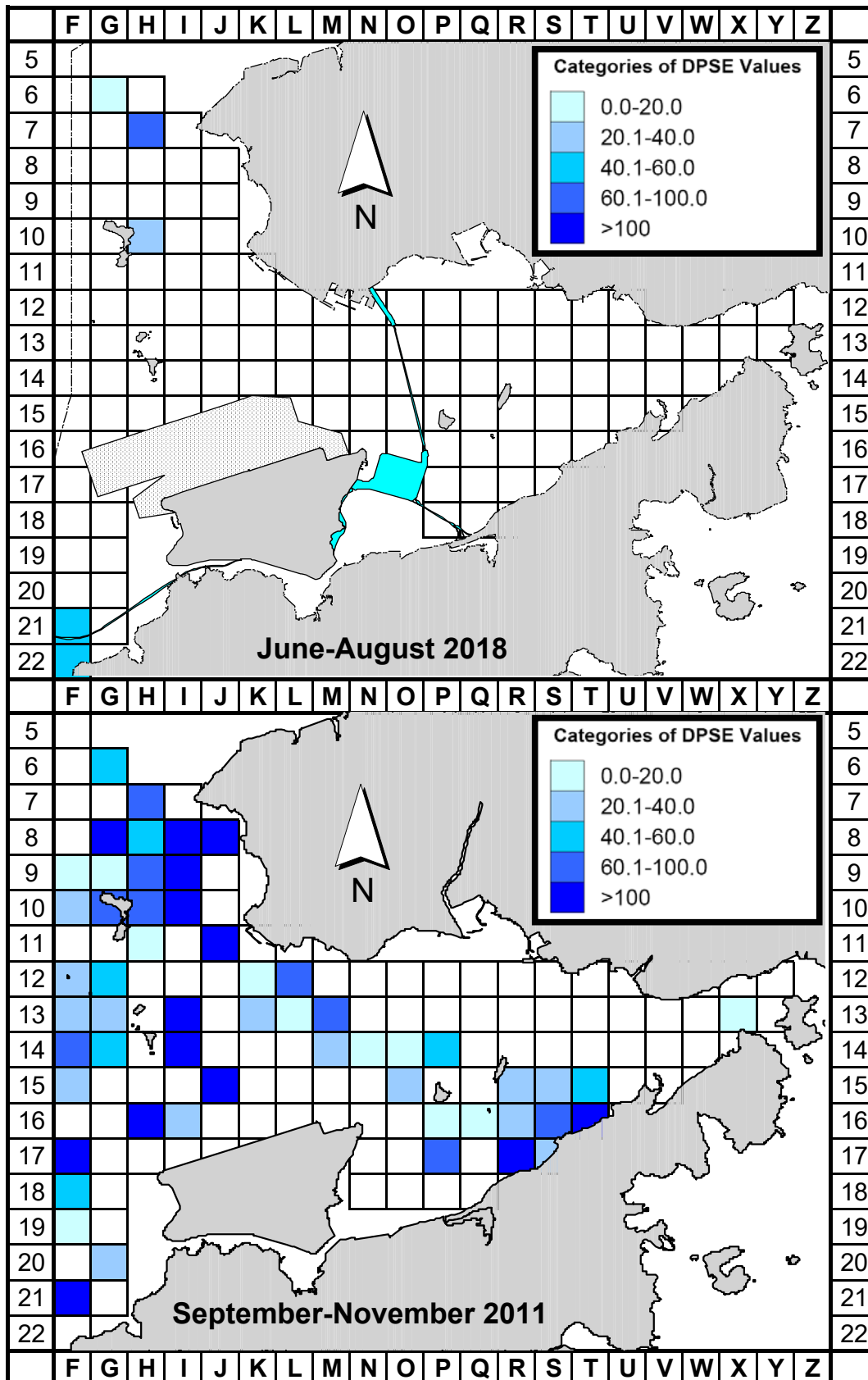


Figure 5. Comparison of density of Chinese white dolphins with corrected survey effort per km² in Northwest and Northeast Lantau survey area between the impact monitoring period (June - August 2018) and baseline monitoring period (September-November 2011) (DPSE = no. of dolphins per 100 units of survey effort)

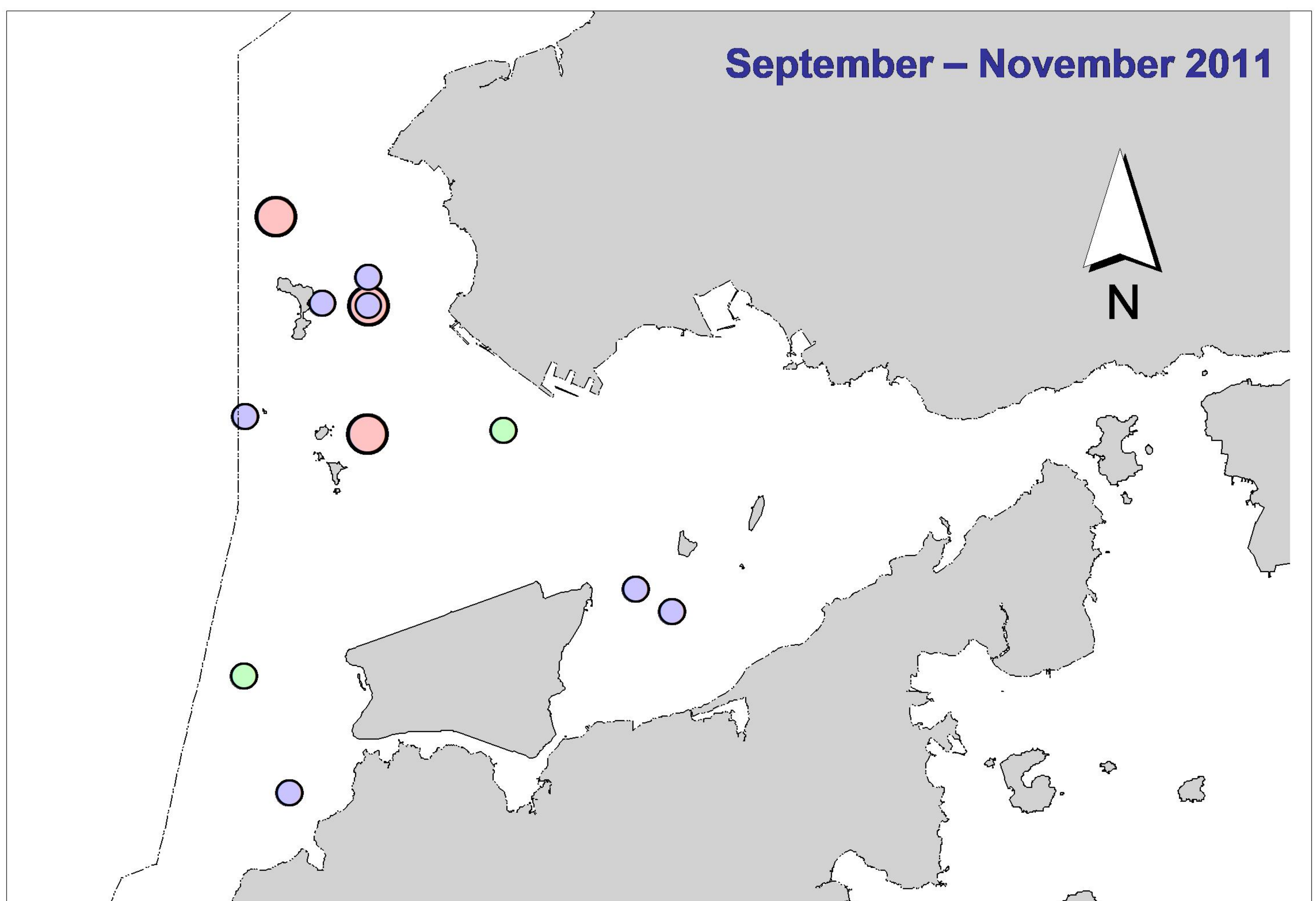
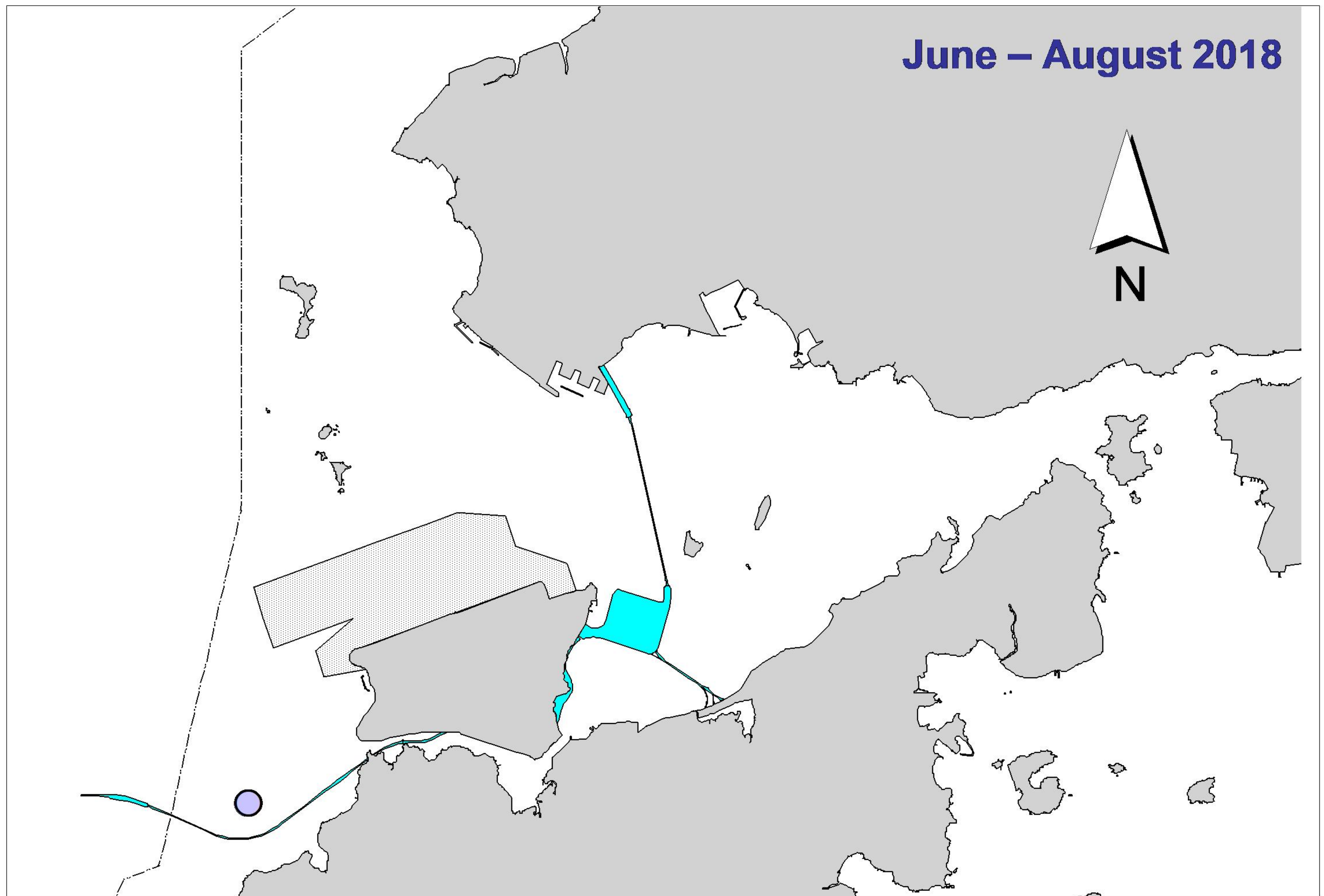


Figure 6. Distribution of Chinese white dolphins engaged in feeding (purple dots), socializing (pink dots) and traveling (green dots) activities during HKLR03 impact phase (top) and baseline monitoring surveys (bottom)

Annex I. HKLR03 Survey Effort Database (June-August 2018)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
5-Jun-18	NW LANTAU	2	3.73	SUMMER	STANDARD36826	HKLR	P
5-Jun-18	NW LANTAU	3	28.14	SUMMER	STANDARD36826	HKLR	P
5-Jun-18	NW LANTAU	2	3.46	SUMMER	STANDARD36826	HKLR	S
5-Jun-18	NW LANTAU	3	6.03	SUMMER	STANDARD36826	HKLR	S
5-Jun-18	NE LANTAU	2	10.32	SUMMER	STANDARD36826	HKLR	P
5-Jun-18	NE LANTAU	3	25.47	SUMMER	STANDARD36826	HKLR	P
5-Jun-18	NE LANTAU	2	6.68	SUMMER	STANDARD36826	HKLR	S
5-Jun-18	NE LANTAU	3	3.77	SUMMER	STANDARD36826	HKLR	S
13-Jun-18	NW LANTAU	2	23.63	SUMMER	STANDARD36826	HKLR	P
13-Jun-18	NW LANTAU	3	3.34	SUMMER	STANDARD36826	HKLR	P
13-Jun-18	NW LANTAU	2	8.49	SUMMER	STANDARD36826	HKLR	S
13-Jun-18	NW LANTAU	3	2.64	SUMMER	STANDARD36826	HKLR	S
19-Jun-18	NW LANTAU	3	23.85	SUMMER	STANDARD36826	HKLR	P
19-Jun-18	NW LANTAU	4	3.40	SUMMER	STANDARD36826	HKLR	P
19-Jun-18	NW LANTAU	3	7.85	SUMMER	STANDARD36826	HKLR	S
19-Jun-18	NW LANTAU	4	3.20	SUMMER	STANDARD36826	HKLR	S
19-Jun-18	NE LANTAU	2	24.33	SUMMER	STANDARD36826	HKLR	P
19-Jun-18	NE LANTAU	3	11.62	SUMMER	STANDARD36826	HKLR	P
19-Jun-18	NE LANTAU	2	9.72	SUMMER	STANDARD36826	HKLR	S
19-Jun-18	NE LANTAU	3	1.87	SUMMER	STANDARD36826	HKLR	S
27-Jun-18	NW LANTAU	2	16.07	SUMMER	STANDARD36826	HKLR	P
27-Jun-18	NW LANTAU	3	12.56	SUMMER	STANDARD36826	HKLR	P
27-Jun-18	NW LANTAU	4	4.20	SUMMER	STANDARD36826	HKLR	P
27-Jun-18	NW LANTAU	2	10.57	SUMMER	STANDARD36826	HKLR	S
3-Jul-18	NW LANTAU	3	24.91	SUMMER	STANDARD36826	HKLR	P
3-Jul-18	NW LANTAU	4	10.69	SUMMER	STANDARD36826	HKLR	P
3-Jul-18	NW LANTAU	3	12.89	SUMMER	STANDARD36826	HKLR	S
3-Jul-18	NW LANTAU	4	0.81	SUMMER	STANDARD36826	HKLR	S
3-Jul-18	NE LANTAU	2	28.85	SUMMER	STANDARD36826	HKLR	P
3-Jul-18	NE LANTAU	3	7.29	SUMMER	STANDARD36826	HKLR	P
3-Jul-18	NE LANTAU	2	13.36	SUMMER	STANDARD36826	HKLR	S
3-Jul-18	NE LANTAU	3	0.80	SUMMER	STANDARD36826	HKLR	S
9-Jul-18	NW LANTAU	2	4.62	SUMMER	STANDARD36826	HKLR	P
9-Jul-18	NW LANTAU	3	17.99	SUMMER	STANDARD36826	HKLR	P
9-Jul-18	NW LANTAU	4	0.98	SUMMER	STANDARD36826	HKLR	P
9-Jul-18	NW LANTAU	2	0.90	SUMMER	STANDARD36826	HKLR	S
9-Jul-18	NW LANTAU	3	7.21	SUMMER	STANDARD36826	HKLR	S
12-Jul-18	NW LANTAU	2	19.42	SUMMER	STANDARD36826	HKLR	P
12-Jul-18	NW LANTAU	3	15.11	SUMMER	STANDARD36826	HKLR	P
12-Jul-18	NW LANTAU	2	3.70	SUMMER	STANDARD36826	HKLR	S
12-Jul-18	NW LANTAU	3	7.80	SUMMER	STANDARD36826	HKLR	S
12-Jul-18	NW LANTAU	4	1.30	SUMMER	STANDARD36826	HKLR	S
12-Jul-18	NE LANTAU	2	15.65	SUMMER	STANDARD36826	HKLR	P
12-Jul-18	NE LANTAU	3	18.42	SUMMER	STANDARD36826	HKLR	P
12-Jul-18	NE LANTAU	2	10.66	SUMMER	STANDARD36826	HKLR	S
12-Jul-18	NE LANTAU	3	2.77	SUMMER	STANDARD36826	HKLR	S
20-Jul-18	NW LANTAU	1	1.50	SUMMER	STANDARD36826	HKLR	P
20-Jul-18	NW LANTAU	2	18.66	SUMMER	STANDARD36826	HKLR	P
20-Jul-18	NW LANTAU	3	4.88	SUMMER	STANDARD36826	HKLR	P
20-Jul-18	NW LANTAU	1	0.90	SUMMER	STANDARD36826	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
20-Jul-18	NW LANTAU	2	2.82	SUMMER	STANDARD36826	HKLR	S
20-Jul-18	NW LANTAU	3	4.14	SUMMER	STANDARD36826	HKLR	S
1-Aug-18	NW LANTAU	2	28.28	SUMMER	STANDARD36826	HKLR	P
1-Aug-18	NW LANTAU	3	5.46	SUMMER	STANDARD36826	HKLR	P
1-Aug-18	NW LANTAU	2	7.13	SUMMER	STANDARD36826	HKLR	S
1-Aug-18	NW LANTAU	3	5.60	SUMMER	STANDARD36826	HKLR	S
1-Aug-18	NE LANTAU	2	34.52	SUMMER	STANDARD36826	HKLR	P
1-Aug-18	NE LANTAU	1	0.70	SUMMER	STANDARD36826	HKLR	S
1-Aug-18	NE LANTAU	2	11.98	SUMMER	STANDARD36826	HKLR	S
8-Aug-18	NW LANTAU	1	3.60	SUMMER	STANDARD36826	HKLR	P
8-Aug-18	NW LANTAU	2	14.70	SUMMER	STANDARD36826	HKLR	P
8-Aug-18	NW LANTAU	3	7.46	SUMMER	STANDARD36826	HKLR	P
8-Aug-18	NW LANTAU	2	5.34	SUMMER	STANDARD36826	HKLR	S
8-Aug-18	NW LANTAU	3	2.30	SUMMER	STANDARD36826	HKLR	S
21-Aug-18	NW LANTAU	1	1.50	SUMMER	STANDARD36826	HKLR	P
21-Aug-18	NW LANTAU	2	33.50	SUMMER	STANDARD36826	HKLR	P
21-Aug-18	NW LANTAU	2	13.30	SUMMER	STANDARD36826	HKLR	S
21-Aug-18	NE LANTAU	1	4.50	SUMMER	STANDARD36826	HKLR	P
21-Aug-18	NE LANTAU	2	27.89	SUMMER	STANDARD36826	HKLR	P
21-Aug-18	NE LANTAU	3	2.50	SUMMER	STANDARD36826	HKLR	P
21-Aug-18	NE LANTAU	1	1.10	SUMMER	STANDARD36826	HKLR	S
21-Aug-18	NE LANTAU	2	12.41	SUMMER	STANDARD36826	HKLR	S
28-Aug-18	NW LANTAU	2	21.50	SUMMER	STANDARD36826	HKLR	P
28-Aug-18	NW LANTAU	3	2.69	SUMMER	STANDARD36826	HKLR	P
28-Aug-18	NW LANTAU	2	7.60	SUMMER	STANDARD36826	HKLR	S
28-Aug-18	NW LANTAU	3	2.45	SUMMER	STANDARD36826	HKLR	S

Annex II. HKLR03 Chinese White Dolphin Sighting Database (June-August 2018)

(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
13-Jun-18	1	1123	5	NW LANTAU	2	83	ON	HKLR	829917	806493	SUMMER	NONE	S
27-Jun-18	1	1144	2	NW LANTAU	2	73	ON	HKLR	826551	806435	SUMMER	NONE	P
12-Jul-18	1	1125	4	NW LANTAU	3	156	ON	HKLR	829186	806430	SUMMER	NONE	P
1-Aug-18	1	1009	1	NW LANTAU	2	55	ON	HKLR	814838	804712	SUMMER	NONE	P
1-Aug-18	2	1015	3	NW LANTAU	2	234	ON	HKLR	815923	804662	SUMMER	NONE	P
1-Aug-18	3	1131	1	NW LANTAU	2	79	ON	HKLR	831204	805435	SUMMER	NONE	S
21-Aug-18	1	1012	1	NW LANTAU	1	ND	OFF	HKLR	814661	804753	SUMMER	NONE	N/A

Annex III. Individual dolphins identified during HKLR03 monitoring surveys in June-August 2018

ID#	DATE	STG#	AREA
CH34	13/06/18	1	NW LANTAU
	27/06/18	1	NW LANTAU
NL12	27/06/18	1	NW LANTAU
	01/08/18	3	NW LANTAU
NL80	13/06/18	1	NW LANTAU
NL104	01/08/18	2	NW LANTAU
NL145	01/08/18	1	NW LANTAU
	21/08/18	1	NW LANTAU
NL202	13/06/18	1	NW LANTAU
NL233	12/07/18	1	NW LANTAU
NL301	13/06/18	1	NW LANTAU
NL302	01/08/18	2	NW LANTAU
NL317	12/07/18	1	NW LANTAU
NL327	01/08/18	2	NW LANTAU
NL329	12/07/18	1	NW LANTAU
WL188	12/07/18	1	NW LANTAU

Annex IV. Thirteen individual dolphins that were identified during June to August 2018 under HKLR03 impact phase monitoring surveys



Annex IV. (cont'd)



NL145



NL202



NL233



NL301

Annex IV. (cont'd)

NL302



NL317



NL327



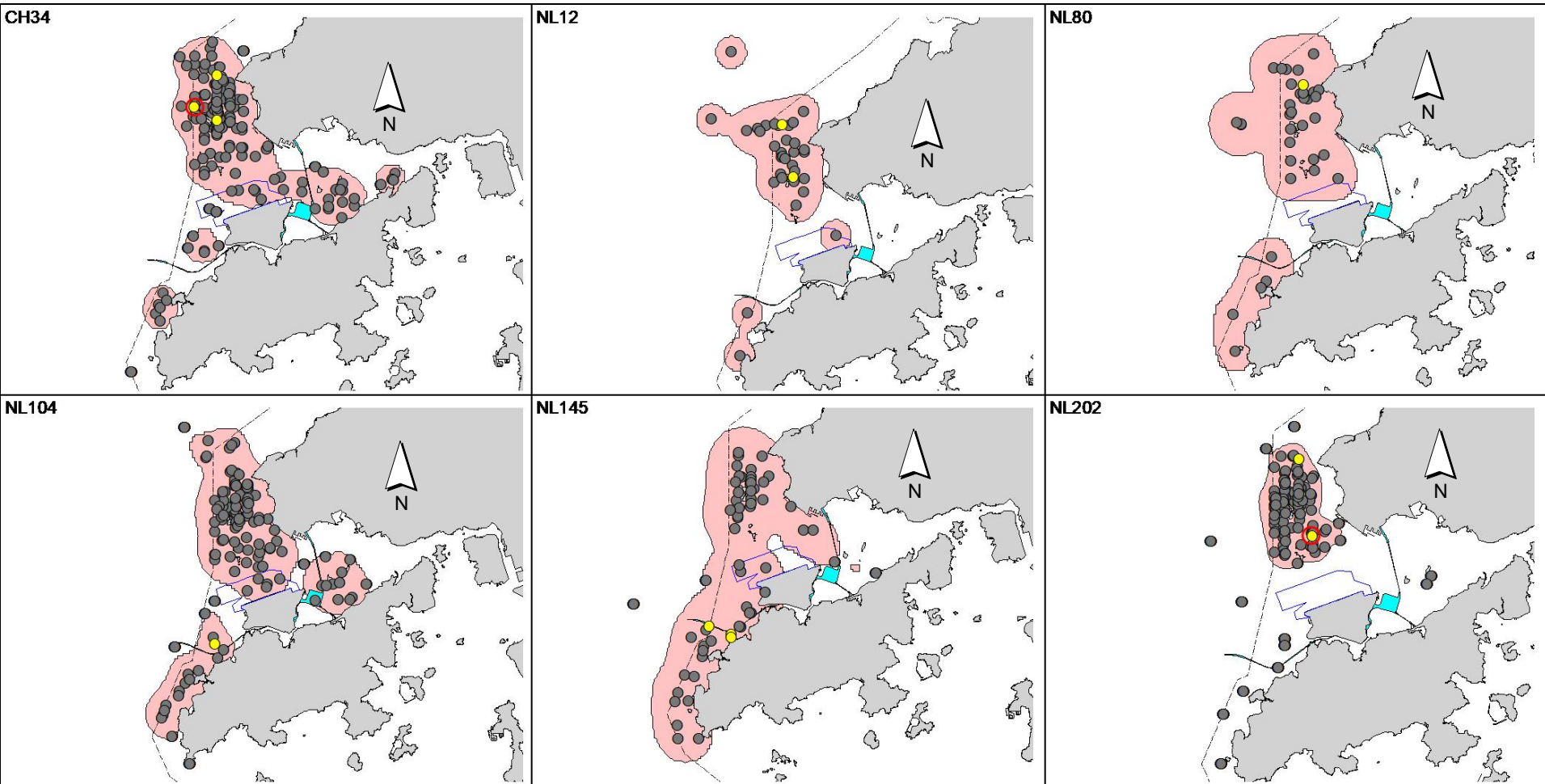
NL329



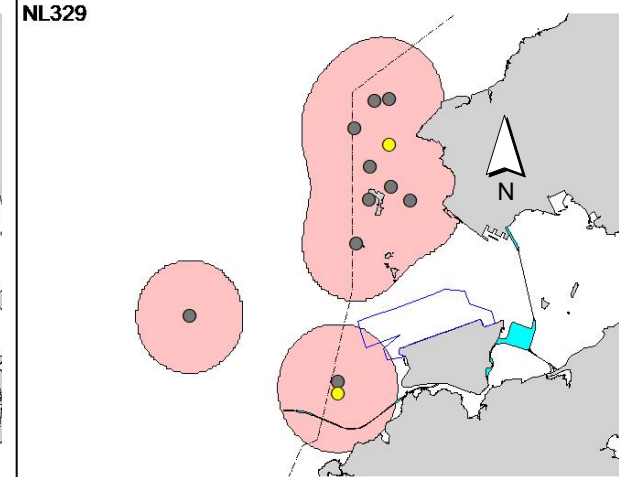
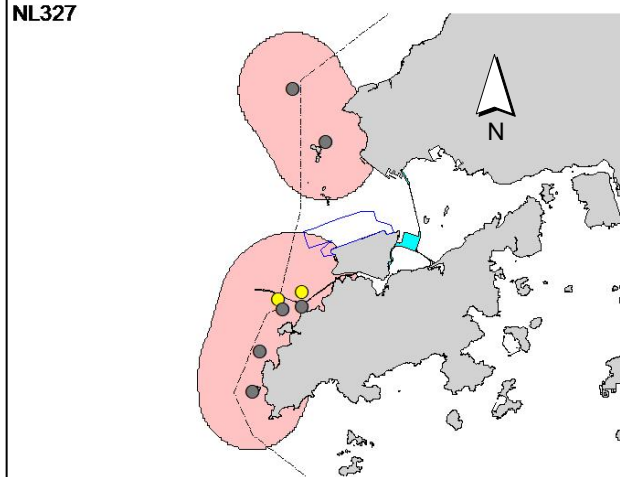
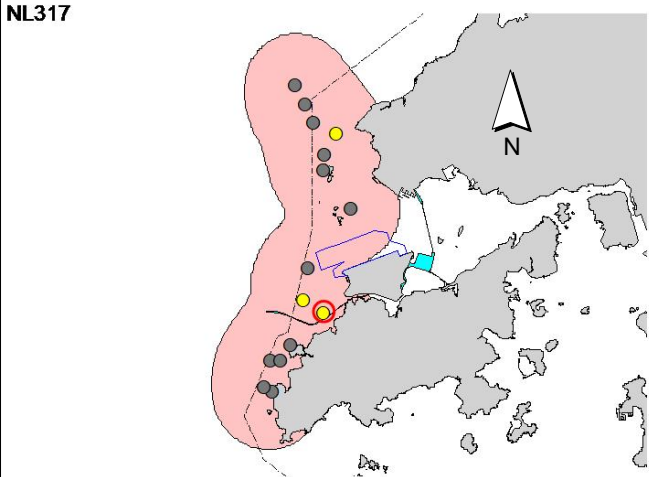
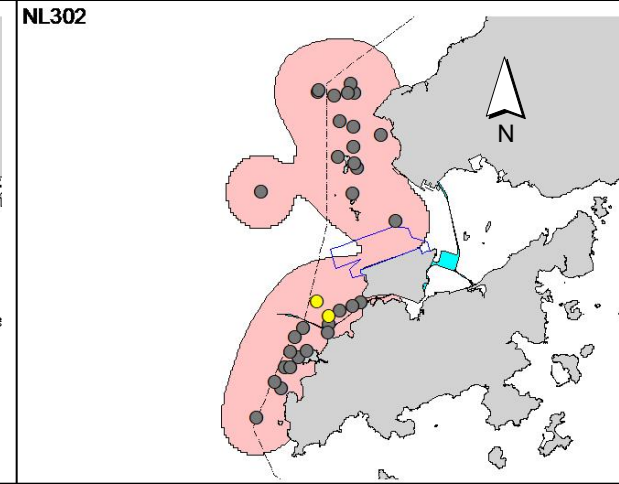
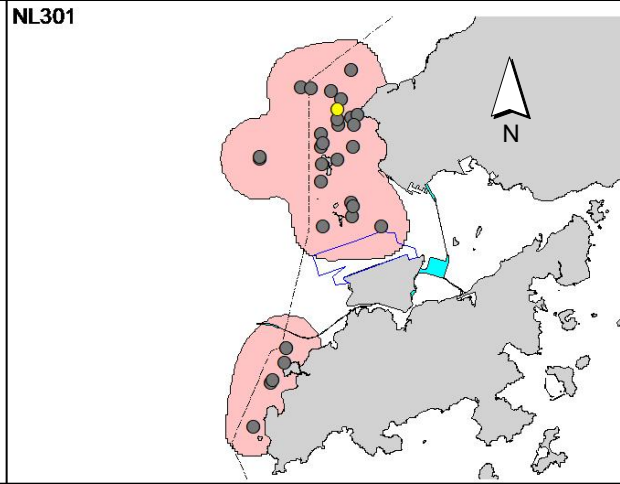
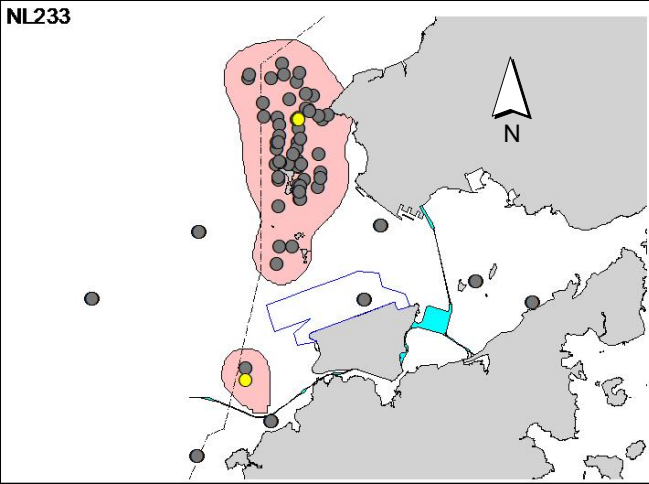
Annex IV. (cont'd)



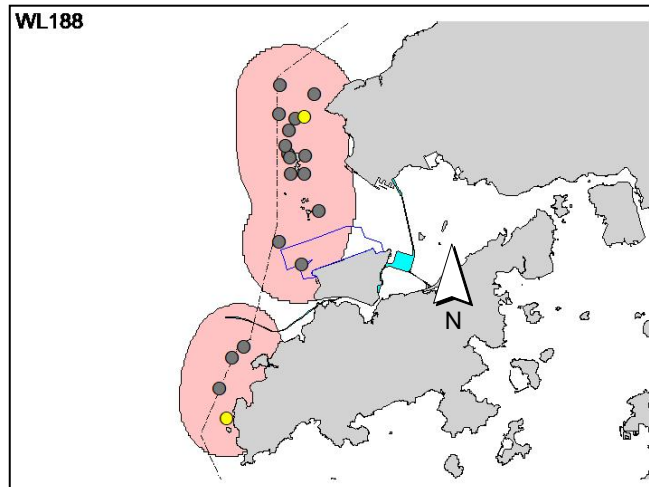
Annex V. Ranging patterns (95% kernel ranges) of 13 individual dolphins that were sighted during HKLR03 impact phase monitoring period (note: yellow dots indicate sightings made in June-August 2018 during HKLR03 and HKLR09 monitoring surveys; the yellow dots with the red circles indicate the ones made during HKBCF monitoring surveys)



Annex V. (cont'd)



Annex V. (cont'd)





APPENDIX K

Waste Flow Table



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 50,000m³.
 - (5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for
 - (6) Conversion factors for reporting purpose:
excavated (bulk): rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³; sand=1.9tonnes/m³ Metal=7.85tonnes/m³
 - (7) Numbers are rounded off to the nearest three decimal places
 - (8) 30T dump truck carries C&D waste of 8.0m³; 24T dump truck carries C&D waste of 6.5m³
 - (9) Based on information provided by the Contractor, the actual quantities of inert C&D materials / C&D waste generated in June 2018 & July 2018 are updated in Monthly EM&A Report for August 2018 while the actual quantities of inert C&D materials / C&D waste generated in August 2018 are updated in Monthly EM&A Report for September 2018.



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

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	02.08.2017	Site Office for China States (WA6)	Application Ref. No. 419562 Water Discharge License WT00029546-2017 was granted on 13 Nov 2017	Valid until 30 Sept 2022
3	04.01.2018	WA 3	Application Ref No.356237 Water Discharge License Ref. WT00030320-2018 was granted on 15 Feb 2018	Valid until 31/03/2023
4.	15.01.2013	WA 4	Application Ref No. 356240 Water Discharge License Ref. WT00016158-2013 was granted on 30 July 2013 and was surrendered on 24 May 2018.	N/A
5	02.04.2013	Airport Road (Southern)	Water discharge license Ref. WT00015866-2013 was granted on 29 Apr 2013 Renewal of license application was submitted on 04 Jan 2018, pending EPD issuance.	Valid until 30/04/2018
6	26.10.2015	Airport Road (Northern)	Water discharge license Ref. WT00023165-2015 was granted on 22 Dec 2015 Renewal of license application was submitted on 04 Jan 2018, pending EPD issuance.	Valid until 30/04/2018
7	10.03.2017	WA7	Application Ref. No. 414487 Water Discharge License Ref. WT00027958-2017 was surrendered on 1 Feb 2018	N/A



Construction Noise Permit

Item No.	Date Application Submitted	Works Area Applied	Description	Status	CNP No.	Validity of CNP	
						From	To
1.	21.03.2018	WA4	Loading/ Unloading of stockpiles	CNP issued on 28.03.2018	GW-RW0122-18 (The CNP was surrendered on 1 Jun 2018)	03.04.2018 0000	02.10.2018 2400
2.	21.03.2018	WA3	Stockpiling/ wastewater treatment	CNP issued on 28.03.2018	GW-RS0281-18	06.04.2018 1900	02.10.2018 2400
3.	17.05.2018	All Works Area	All Works	CNP issued on 17.05.2018	GW-RS0395-18	21.05.2018 0000	20.11.2018 2400

APPENDIX M

Record of “Notification of Environmental Quality Limit Exceedances” and
Record of “Notification of Summons and Prosecutions”

**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.: 278a ver 1

Date of Notification: 13 June 2018

Works Inspected: 24-hr TSP monitoring was undertaken on 1 June 2018 and the test report was issued on 11 June 2018.

Monitoring Location: AMS6 – Dragonair Building

Parameter: 24-hour TSP monitoring

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

PARAMETER	STATION	AL ($\mu\text{g}/\text{m}^3$)	LL ($\mu\text{g}/\text{m}^3$)	MEASURED LEVEL, $\mu\text{g}/\text{m}^3$
1 June 2018, 24-hr TSP (8:00 – 8:00 hours)	Dragonair Building (AMS6)	173	260	<u>382</u>

Notes: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Limit Level Non-compliance:

A Limit Level exceedance of 24-hr TSP level was recorded at AMS6 - Dragonair Building on 1 June 2018.

According to the information provided by the Contractor, landscaping works were conducted at construction site S16 which is located near AMS6 during the sampling period on 1 June 2018. Figure 1 shows the location of construction site S16 and air monitoring station AMS6. According to information provided by the Contractor, water spraying was provided for dusty materials to maintain the entire surface in a damp condition and haul roads were sprayed with water by water trucks regularly.

During collection of filter paper at AMS6 on 4 June 2018, weed was observed on the filter paper which was used for monitoring on 1 June 2018. Also, the weed in the vicinity of station AMS6 was found to be cleared by other parties. It is noted that the weed removal work in the vicinity of station AMS6 was not carried out under the Contract No. HY/2011/03. The weed clearing activities in the vicinity of AMS6 may be one of dust sources to cause the 24-hr TSP LL exceedance on 1 June 2018. An additional monitoring was carried out on 6 June 2018 and a routine monitoring was carried out on 7 June 2018. The 24-hr TSP result on 6 and 7 June 2018 were $32 \mu\text{g}/\text{m}^3$ which were below Action and Limit Level. It was also noted that no Action and Limit Level exceedances of 1-hr TSP were recorded at air monitoring station AMS6 - Dragonair Building during the period from 1 June 2018 to 20 June 2018.

Actions taken/ to be taken:

It was noted that the Contractor has implemented dust control measure throughout the construction phase. There is no direct evidence that the exceedance is related to the Contract. No immediate actions are considered necessary. However, the Contractor is reminded to continuously implement the dust mitigation measures as specified in Environmental Mitigation Implementation Schedule (EMIS), Environmental Management Plan, Method Statements, General and Particular Specifications of this Contract throughout the construction phase.

Reviewed by : Claudine Lee Title : ET Leader



Date : 6 July 2018

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

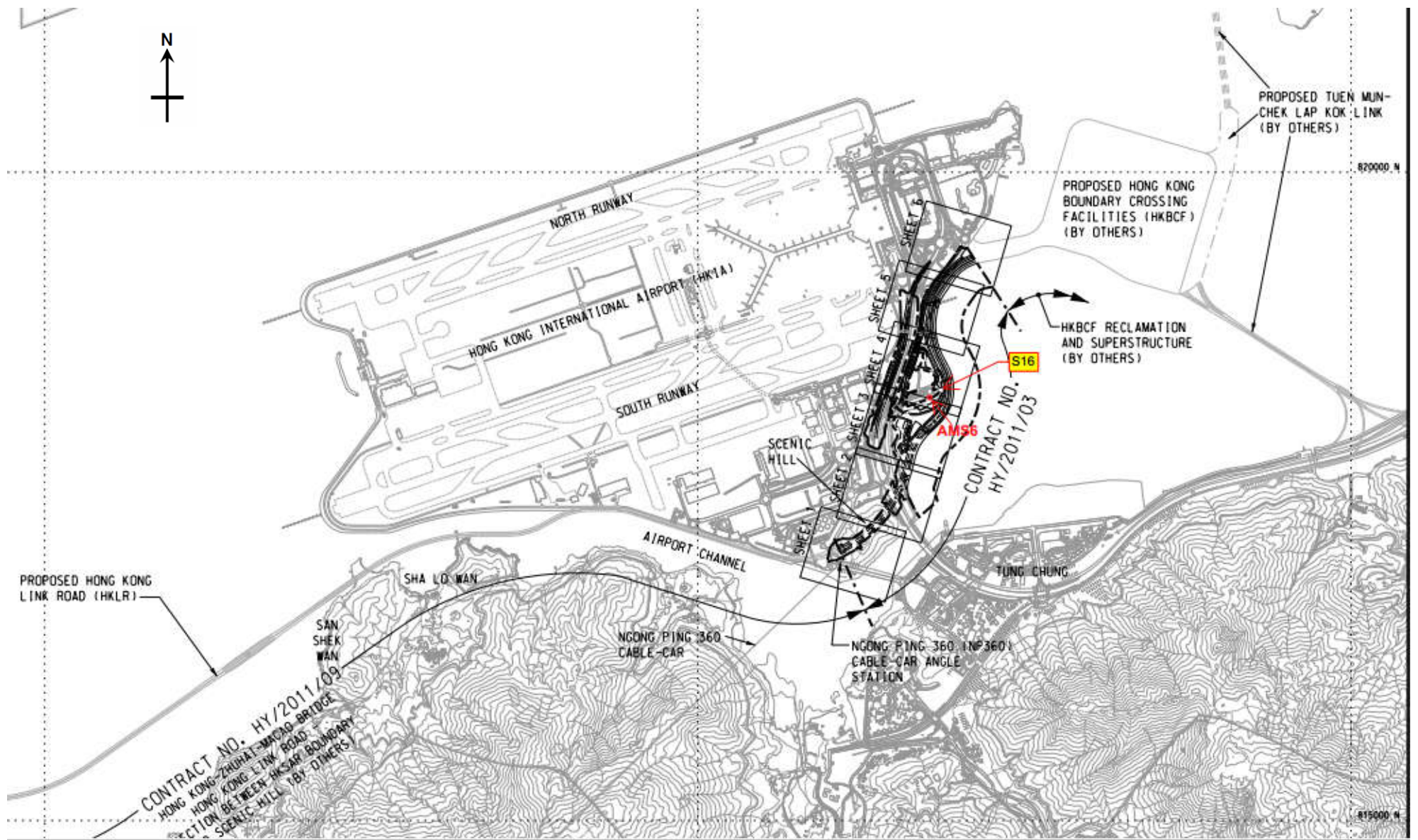


Figure 1 - Location of Construction Site S16 and Air Monitoring Station AMS6

**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.: 279 ver0

Date of Notification: 6 July 2018

Works Inspected: Data collected from water sampling works on 29 June 2018 and the test report was issued on 6 July 2018.

Monitoring Location: Water Quality Monitoring Stations

Parameter: Dissolved Oxygen (DO)/ ~~Suspended Solids (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)
DO	IS5	Bottom	4.7	3.6	4.6	4.9

Notes:
Bold Italic means AL exceedances.
Bold Italic with underline means LL exceedances.

Possible reasons for Action Level Non-compliance:

On 29 June 2018, an Action Level exceedance of dissolved oxygen was recorded at station IS5 during the mid-ebb tide. The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

1. According to Contractor's information, there was no marine transportation near station IS5 during sampling period and no marine works were conducted near station IS5 which is located outside the site boundary of HKLR03 Contract. No abnormality or malpractice for the contract works was observed during the sampling exercise.
2. The range of dissolved oxygen for bottom level at station IS5 during the baseline monitoring is shown as below:

Station	Depth	Range of Dissolved Oxygen (mg/L) Mid-Ebb Tide		Range of Dissolved Oxygen (mg/L) Mid-Flood Tide	
IS5	Bottom	3.3	to 8.6	2.9	to 9.4

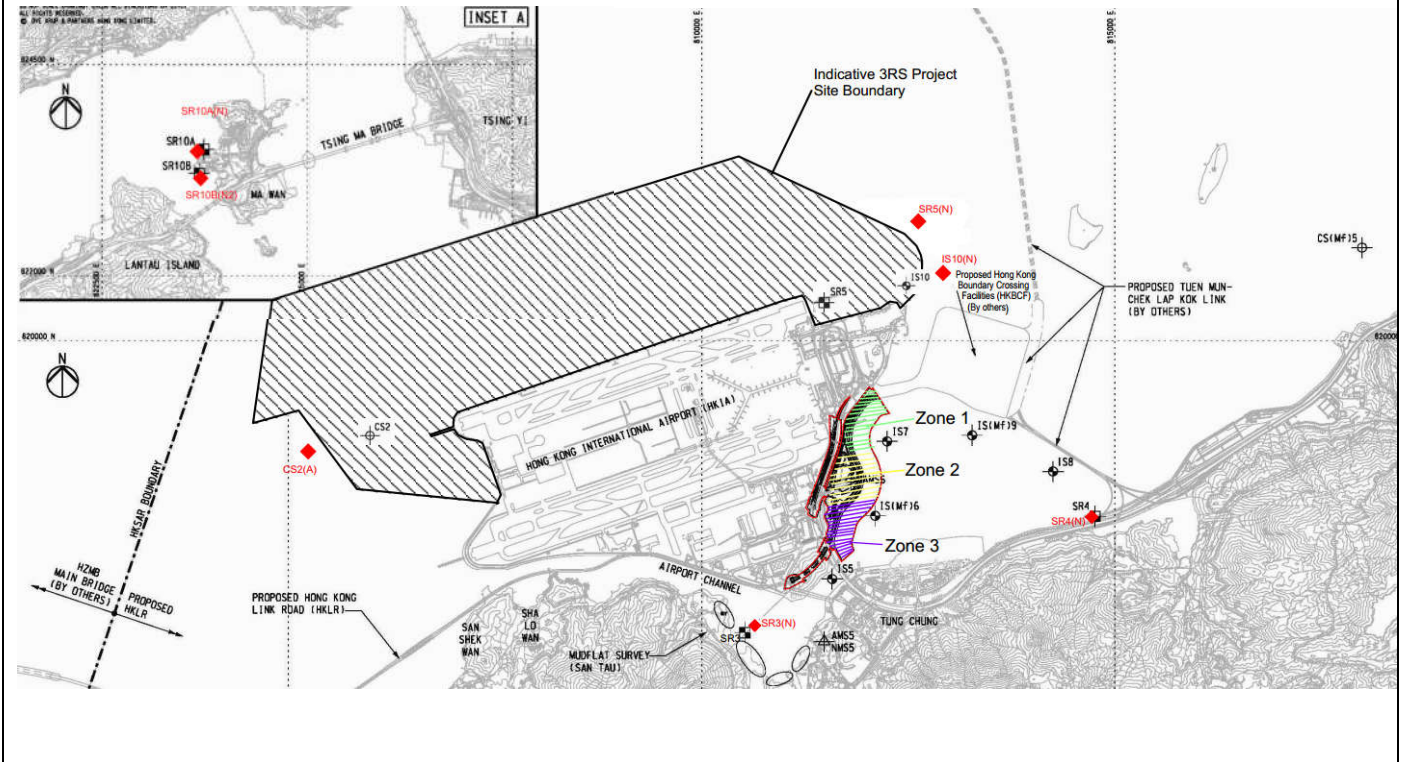
On 29 June 2018, the measured value of dissolved oxygen for bottom level at station IS5 during the mid-ebb tide was within the range of the baseline monitoring.

3. There were no specific activities recorded during the monitoring period that would cause any significant impact on the monitoring results. As such, the exceedance in DO level is considered to be attributed to other external factors rather than the contract works.

Actions taken/ to be taken:

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 9 July 2018

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

Date of Notification: 15 August 2018

Works Inspected: Data collected from water sampling works on 6 August 2018 and the results were issued on 15 August 2018

Monitoring Location: Water Quality Monitoring Stations

Parameter: Dissolved Oxygen (DO)/ ~~Suspended Solids (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)
DO	IS10(N)	Surface and Middle	5.0	4.2	4.6	See note 3.
DO	SR5(N)	Surface and Middle	5.0	4.2	4.7	See note 3.
DO	IS10(N)	Bottom	4.7	3.6	4.3	See note 3.
DO	SR5(N)	Bottom	4.7	3.6	4.3	See note 3.

- Notes:
- Bold Italic*** means AL exceedances.
 - Bold Italic with underline*** means LL exceedances.
 - Thunderstorm Warning was issued by the Hong Kong Observatory on 6 August 2018. The water quality monitoring for flood tide on 6 August 2018 was cancelled at these stations due to safety reason.

Possible reasons for Action Level Non-compliance:

On 6 August 2018, Action Level exceedances of dissolved oxygen were recorded at stations IS10(N) and SR5(N) during mid-ebb tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

- Seawall construction at Zones 2 and 3 were carried out on 6 August 2018. As confirmed by the Contractor, seawall construction at Zones 2 and 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report. According to Contractor's information, there was no marine transportation near IS10(N) and SR5(N) during sampling period and no marine works were conducted near stations IS10(N) and SR5(N) which are located outside the site boundary of HKLR03 Contract. No abnormality or malpractice for the contract works was observed during the sampling exercise.
- The range of dissolved oxygen for surface and middle level, bottom level at stations IS10 and SR5 during the baseline monitoring is shown as below:

Stations	Depth	Range of Dissolved Oxygen (mg/L) Mid-Ebb Tide		Range of Dissolved Oxygen (mg/L) Mid-Flood Tide	
IS10	Surface and Middle	5.0	to 7.2	5.0	to 7.6
SR5	Surface and Middle	5.1	to 7.3	4.8	to 7.4
IS10	Bottom	4.6	to 7.0	4.9	to 7.0
SR5	Bottom	4.8	to 7.0	4.8	to 7.1

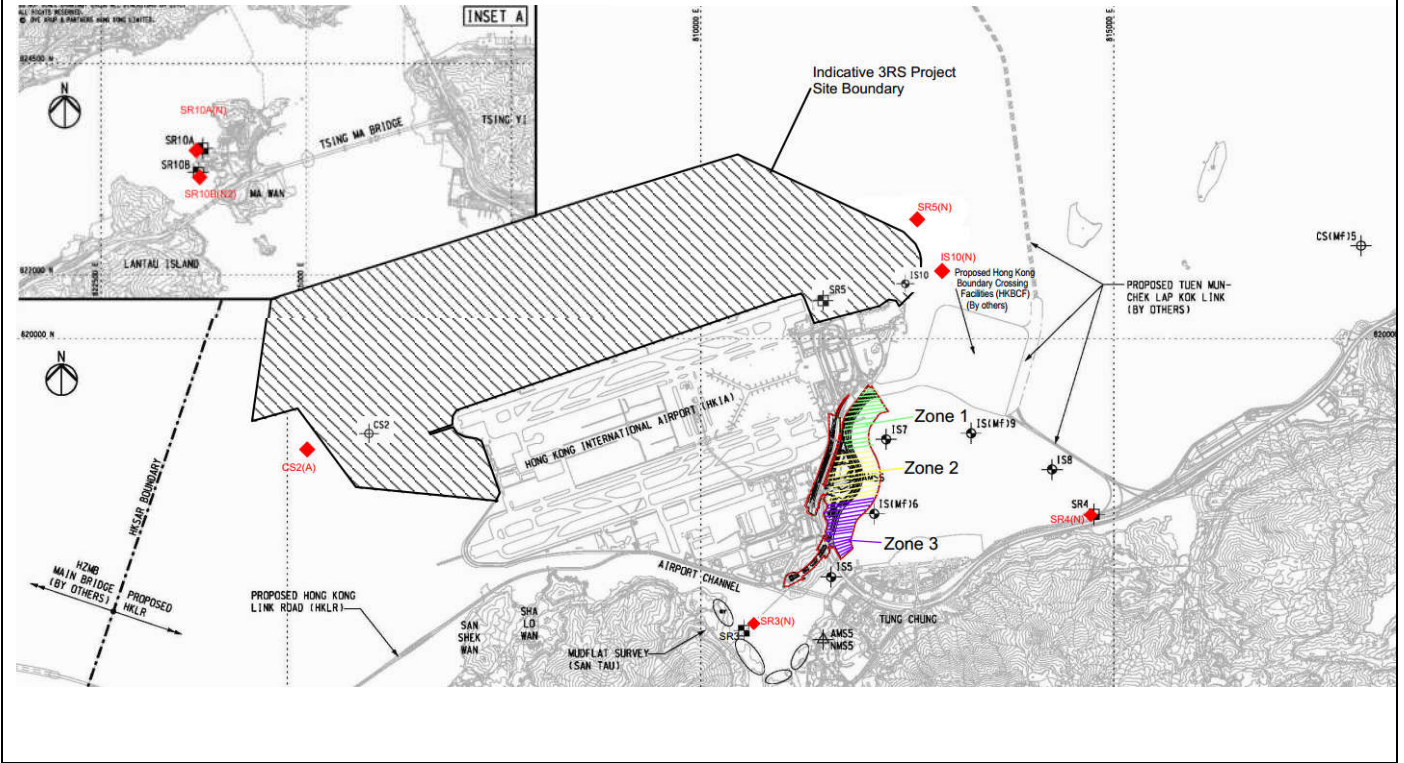
On 6 August 2018, the measured value of dissolved oxygen for surface and middle level, bottom level at stations IS10(N) and SR5(N) during the mid-ebb tide was below the range of the baseline monitoring.

- However, there were no specific activities recorded during the monitoring period that would cause any significant impact on the monitoring results. As such, the exceedances in DO level are considered to be attributed to other external factors rather than the contract works.

Actions taken/ to be taken:


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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader



Date : 7 September 2018

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.: 281s ver1

Date of Notification: 15 August 2018

Works Inspected: Data collected from water sampling works on 8 August 2018 and the test report was issued on 15 August 2018.

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	IS8	DA	<p>23.5 and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 6.27 x 120% = 7.5 for mid ebb; CS(Mf)5: 10.52 x 120% = 12.6 for mid flood)</p>	<p>34.4 and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 6.27 x 130% = 8.1 for mid ebb; CS(Mf)5: 10.52 x 130% = 13.7 for mid flood)</p>	3.0	26.8

Notes:

- 1) DA means depth average.
- 2) ***Bold Italic*** means AL exceedances.
- 3) ***Bold Italic with underline*** means LL exceedances.

Possible reasons for Action Level Non-compliance:

On 8 August 2018, an Action Level exceedance of suspended solid was recorded at station IS8 during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

1. Seawall construction at Zones 2 and 3 were carried out on 8 August 2018. As confirmed by the Contractor, seawall construction at Zones 2 and 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at station IS8 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	
	IS8	5.5	to	25.5

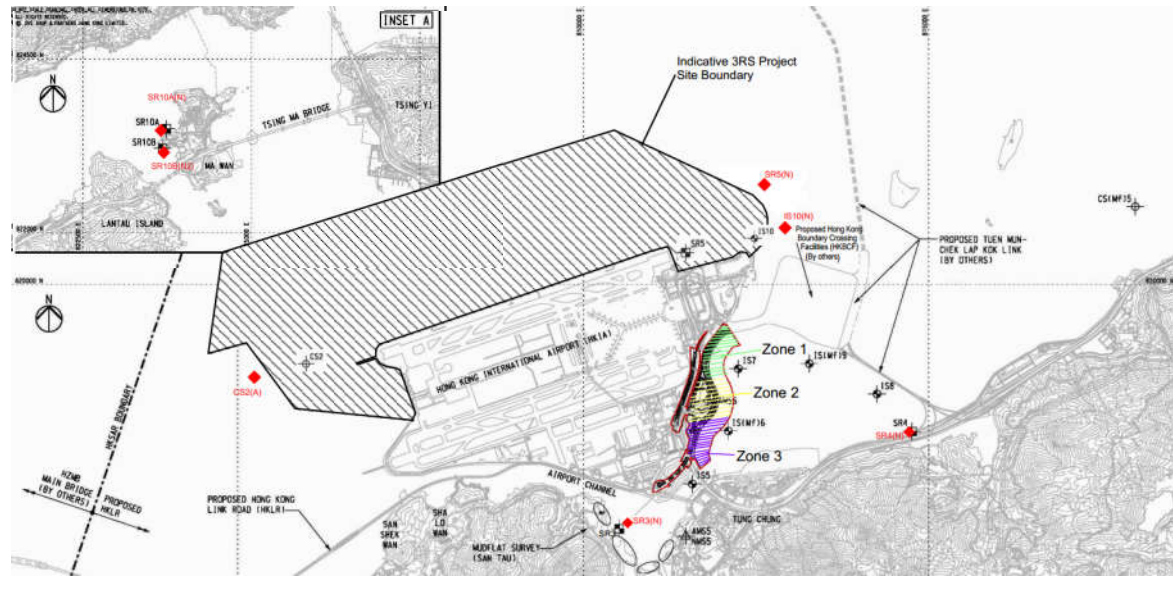
The measured value for mid-flood tide at station IS8 was within the range of suspended solid for mid-flood tide during baseline monitoring.

3. During sampling exercise, water appearance was observed moderate (water appearance was observed neither clear nor turbid) at station IS8. There was no marine transportation near station IS8 during sampling period and no marine works were conducted near station IS8 which is located outside the site boundary of HKLR03 Contract. No abnormality or malpractice for the contract works was observed during the sampling exercise.
4. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedance of suspended solid level 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 : 7 September 2018

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.: 282s ver 0

Date of Notification: 16 August 2018

Works Inspected: Data collected from water sampling works on 10 August 2018 and the test report was issued on 16 August 2018.

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	IS8	DA	23.5 and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 11.35 x 120% = 13.6 for mid ebb; CS(Mf)5: (See Note 4)	34.4 and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2(A): 11.35 x 130% = 14.8 for mid ebb; CS(Mf)5: (See Note 4)	25.8	See Note 4.

Notes:

- 1) DA means depth average.
- 2) ***Bold Italic*** means AL exceedances.
- 3) ***Bold Italic with underline*** means LL exceedances.
- 4) Due to Thunderstorm Warning issued by the Hong Kong Observatory, the water quality monitoring for flood tide on 10 August 2018 was cancelled at these stations.

Possible reasons for Action Level Non-compliance:

On 10 August 2018, an Action Level exceedance of suspended solid was recorded at station IS8 during mid-ebb tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

1. Seawall construction at Zones 2 and 3 were carried out on 10 August 2018. As confirmed by the Contractor, seawall construction at Zones 2 and 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at station IS8 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	
IS8	5.5	to 25.5	5.8	to 31.3

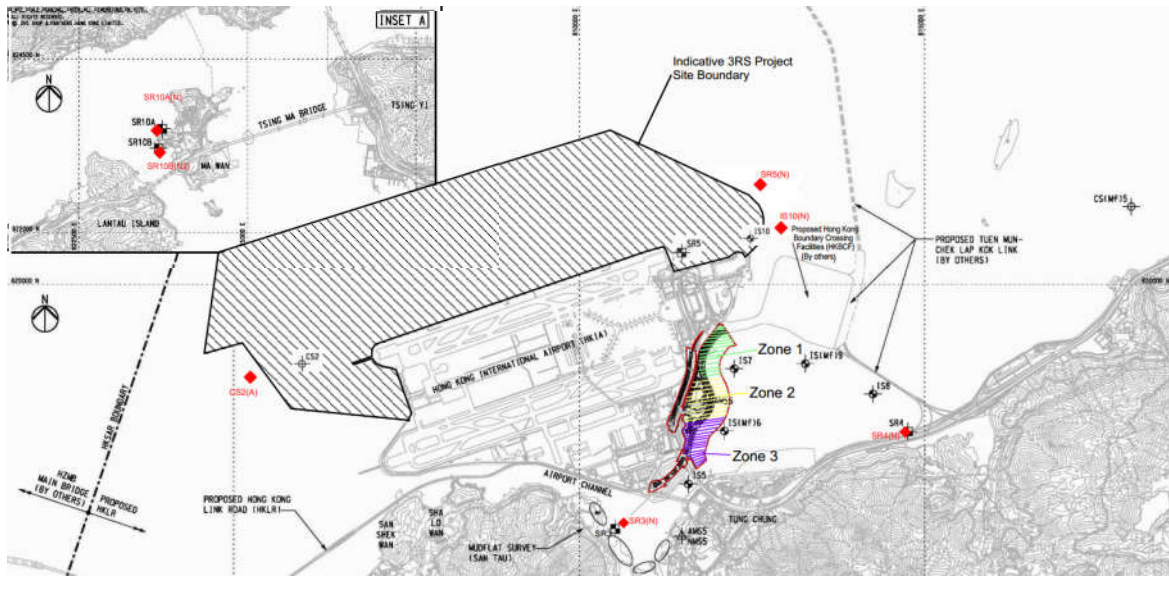
The measured value for mid-flood tide at station IS8 was slightly above the range of suspended solid for mid-ebb tide during baseline monitoring.

3. However, water appearance was observed clear at station IS8 during sampling exercise. There was no marine transportation near station IS8 during sampling period and no marine works were conducted near station IS8 which is located outside the site boundary of HKLR03 Contract. No abnormality or malpractice for the contract works was observed during the sampling exercise.
4. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedance of suspended solid level 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 : 4 September 2018

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.: 283 ver0

Date of Notification: 24 August 2018

Works Inspected: Data collected from water sampling works on 13 August 2018 and the results were issued on 24 August 2018

Monitoring Location: Water Quality Monitoring Stations

Parameter: Dissolved Oxygen (DO)/ ~~Suspended Solids (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)
DO	IS10(N)	Surface and Middle	5.0	4.2	4.8	4.9
DO	SR5(N)	Surface and Middle	5.0	4.2	4.8	4.8
DO	SR10A(N)	Surface and Middle	5.0	5.0	<u>4.7</u>	<u>4.8</u>
DO	SR10B(N2)	Surface and Middle	5.0	5.0	<u>4.7</u>	<u>4.9</u>
DO	SR10A(N)	Bottom	4.7	3.6	4.6	4.7
DO	SR10B(N2)	Bottom	4.7	3.6	4.6	4.8

Notes:

- 1) ***Bold Italic*** means AL exceedances.
- 2) ***Bold Italic with underline*** means LL exceedances.

Possible reasons for Action Level / Limit Level Non-compliance:

On 13 August 2018, Action Level exceedances of dissolved oxygen were recorded at stations IS10(N), SR5(N), SR10A(N) and SR10B(N2) during the mid-ebb tide; Action Level exceedances of dissolved oxygen were recorded at stations IS10(N) and SR5(N) during mid-flood tide; Limit Level exceedances of dissolved oxygen were recorded at stations SR10A(N) and SR10B(N2) during mid-ebb tide and mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

1. Seawall construction at Zones 2 and 3 were carried out on 13 August 2018. As confirmed by the Contractor, seawall construction at Zones 2 and 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report. According to Contractor's information, there was no marine transportation near stations IS10(N), SR5(N), SR10A(N) and SR10B(N2) during sampling period and no marine works were conducted near IS10(N), SR5(N), SR10A(N) and SR10B(N2) which are located outside the site boundary of HKLR03 Contract. No abnormality or malpractice for the contract works was observed during the sampling exercise.
2. The range of dissolved oxygen at stations IS10, SR5, SR10A and SR10B during the baseline monitoring is shown as below:

Stations	Depth	Range of Dissolved Oxygen (mg/L) Mid-Ebb Tide		Range of Dissolved Oxygen (mg/L) Mid-Flood Tide	
IS10	Surface and Middle	5.0	to 7.2	5.0	to 7.6
SR5	Surface and Middle	5.1	to 7.3	4.8	to 7.4
SR10A	Surface and Middle	4.8	to 8.3	5.3	to 7.5
SR10B	Surface and Middle	5.2	to 9.0	5.0	to 8.4

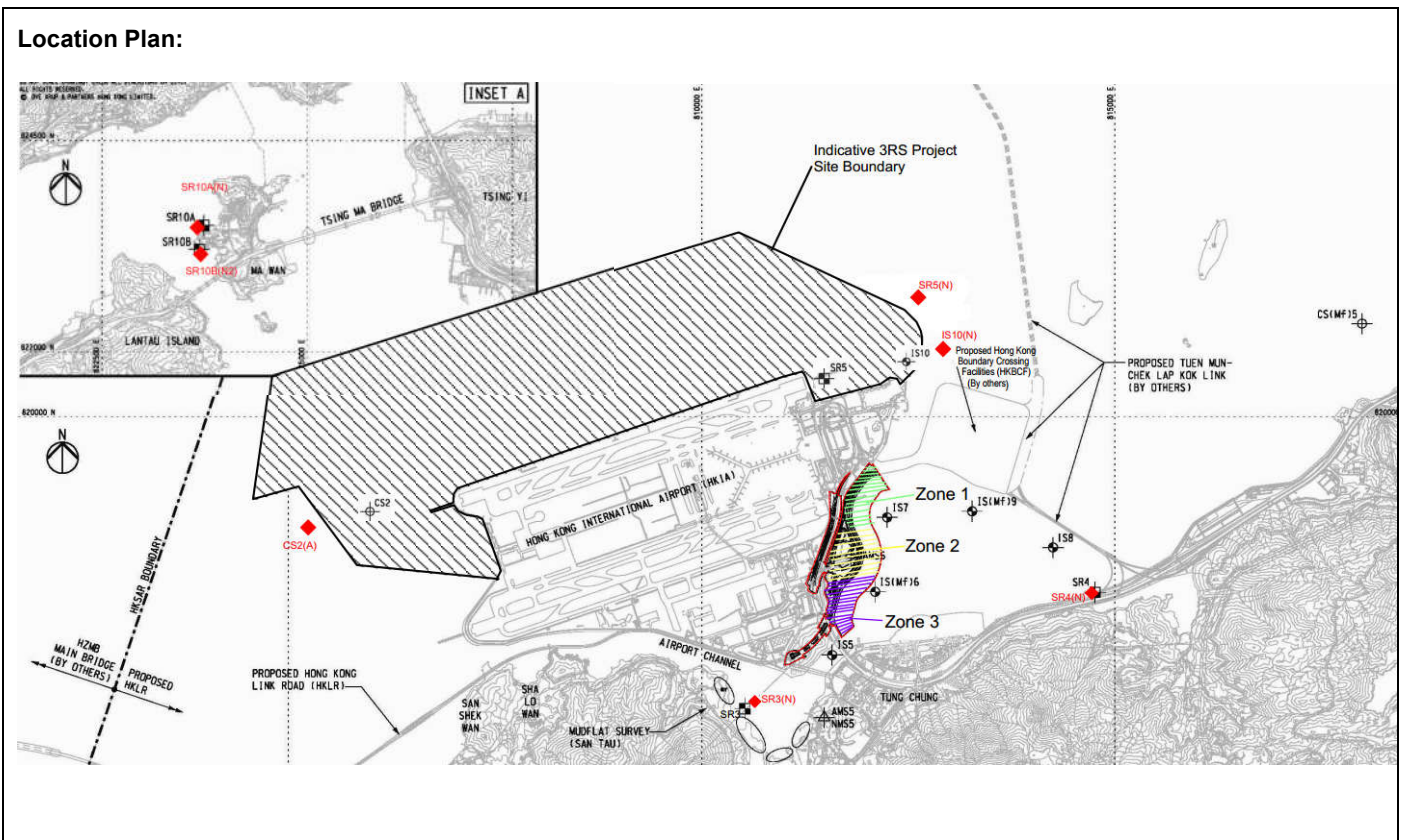
SR10A	Bottom	4.8	to	7.5	5.1	to	7.8
SR10B	Bottom	5.6	to	9.3	4.9	to	7.6

On 13 August 2018, the measured value of dissolved oxygen for surface and middle level at station SR5(N) during the mid-flood tide was within the range of the baseline monitoring. The measured value of dissolved oxygen for surface and middle level at stations IS10(N), SR10A(N) and SR10B(N2) during mid-ebb and mid-flood tide; for surface and middle level at station SR5(N) during mid-ebb tide; for bottom level at stations SR10A(N) and SR10B(N2) during the mid-ebb tide were below the range of the baseline monitoring.

3. However, there were no specific activities recorded during the monitoring period that would cause any significant impact on the monitoring results. As such, the exceedances in DO level are considered to be attributed to other external factors rather than the contract works.

Actions taken/ to be taken:

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



Reviewed by : Claudine Lee Title : ET Leader

Date : 4 September 2018

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

Date of Notification: 24 August 2018

Works Inspected: Data collected from water sampling works on 15 August 2018 and the results were issued on 24 August 2018

Monitoring Location: Water Quality Monitoring Stations

Parameter: Dissolved Oxygen (DO)/ ~~Suspended Solids (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)
DO	IS10(N)	Surface and Middle	5.0	4.2	5.2	4.9
DO	SR5(N)	Surface and Middle	5.0	4.2	5.2	4.9
DO	SR10A(N)	Surface and Middle	5.0	5.0	<u>4.9</u>	5.0

Notes:
 1) ***Bold Italic*** means AL exceedances.
 2) ***Bold Italic with underline*** means LL exceedances.

Possible reasons for Action Level / Limit Level Non-compliance:

On 15 August 2018, Action Level exceedances of dissolved oxygen were recorded at stations IS10(N) and SR5(N) during mid-flood tide. A Limit Level exceedance of dissolved oxygen was recorded at SR10A(N). The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

- Seawall construction at Zones 2 and 3 were carried out on 15 August 2018. As confirmed by the Contractor, seawall construction at Zones 2 and 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report. According to Contractor's information, there was no marine transportation near stations IS10(N), SR5(N) and SR10A(N) during sampling period and no marine works were conducted near stations IS10(N), SR5(N) and SR10A(N) which are located outside the site boundary of HKLR03 Contract. No abnormality or malpractice for the contract works was observed during the sampling exercise.
- The range of dissolved oxygen at stations IS10 and SR5 during the baseline monitoring is shown as below:

Stations	Depth	Range of Dissolved Oxygen (mg/L) Mid-Ebb Tide		Range of Dissolved Oxygen (mg/L) Mid-Flood Tide	
IS10	Surface and Middle	5.0	to 7.2	5.0	to 7.6
SR5	Surface and Middle	5.1	to 7.3	4.8	to 7.4
SR10A	Surface and Middle	4.8	to 8.3	5.3	to 7.5

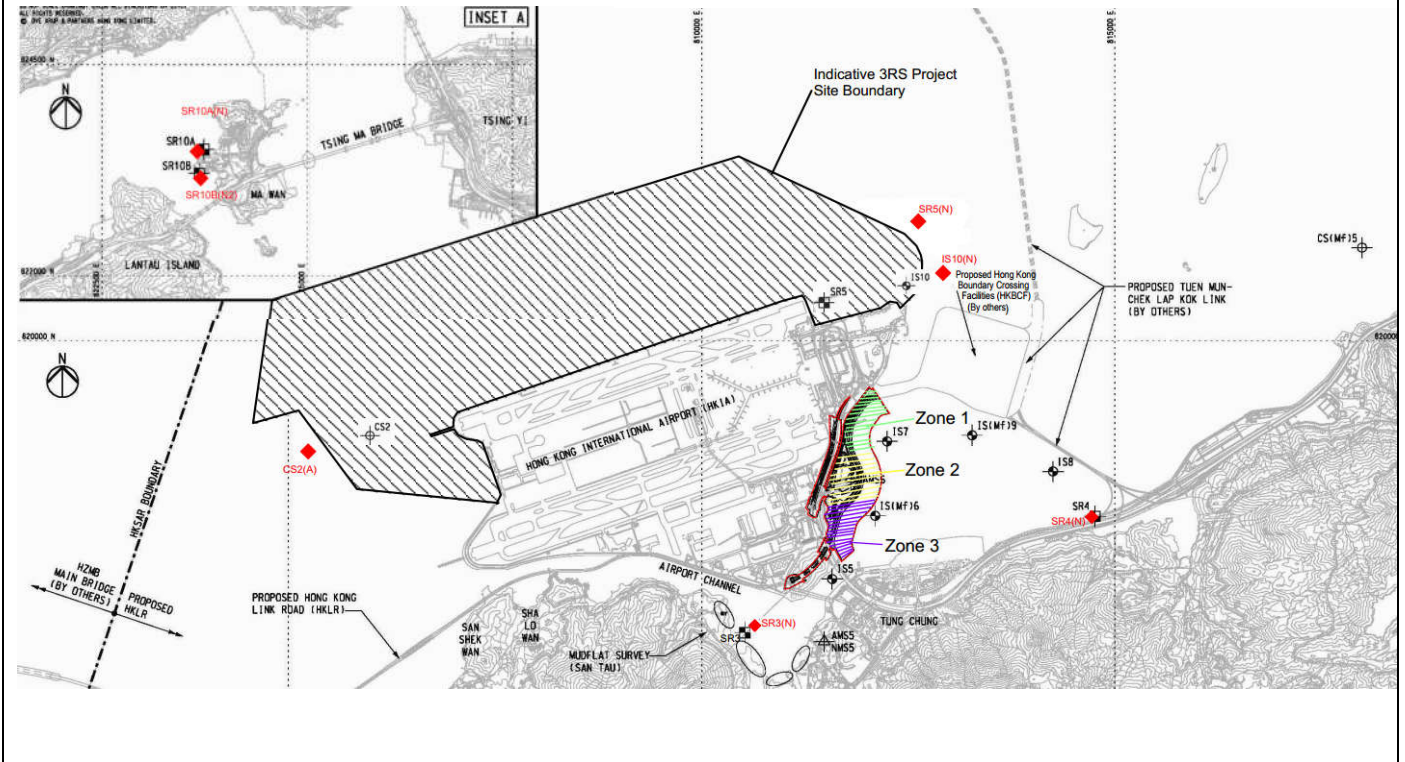
On 15 August 2018, the measured value of dissolved oxygen for surface and middle level at station SR5(N) during mid-flood tide and at station SR10A(N) during mid-ebb tide were within the range of the baseline monitoring. The measured value of dissolved oxygen for surface and middle level at station IS10(N) during the mid-flood tide was below the range of the baseline monitoring.

- However, there were no specific activities recorded during the monitoring period that would cause any significant impact on the monitoring results. As such, the exceedances in DO level are considered to be attributed to other external factors rather than the contract works.

Actions taken/ to be taken:

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 4 September 2018

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.: 285 ver 0

Date of Notification: 3 September 2018

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 June 2018 – August 2018
	Action Level (AL) Limit Level (LL)	
Northeast Lantau (NEL)	STG < 4.2 & ANI < 15.5	<u>STG = 0; ANI = 0</u>
Northwest Lantau (NWL)	STG < 6.9 & ANI < 31.3	<u>STG = 1.16; ANI = 2.87</u>

- 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 a Limit Level exceedance of dolphin monitoring for the quarterly monitoring data (between June 2018 – August 2018). According to the contractor’s information, the marine activities undertaken for HKLR03 during the quarter of June 2018 – August 2018 included seawall construction and box culvert construction.

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.

Actions taken/ to be taken:

Inform the IEC, ENPO, ER/SOR and Contractor

The ETL informed IEC, ENPO, SOR and Contractor via email on 3 September 2018.

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 (23rd quarter of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.0022 and 0.0144 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 23 quarters of the impact

phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.000000 and 0.000000 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 June to August 2018 has been reviewed by the dolphin specialist. During the same quarter, no dolphin was sighted from 88.04 km of survey effort on primary lines in NEL, while only two groups of two dolphins were sighted from 54.81 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 summer 2018 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 4 September 2018 with attendance of representative of ENPO, Resident Site Staff (RSS), Environmental Team (ET) and dolphin specialist for Contract Nos. HY/2013/01, HY/2011/03, HY/2012/07, HY/2012/08. The discussion/ recommendation as raised in 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 reminded 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 : Claudine Lee Title : ET Leader



Date : 27 November 2018

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 Statistics 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 level 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 than 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	-

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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 10:30 pm (19/11/12).	WA6	• 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.		
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	• 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.		
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 Construction 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	
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 source of the turbid water and concrete/cement.	N/A	-	Closed	-

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Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
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	-
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	-

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COM-2013-022	08-Apr-2013	--	EPD	Environmental (Water)	The complainant 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	-
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	-

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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 diary 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	-
COM-2014-065	24-Dec-14	Nil	EPD	Environmental (Water Quality)	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	-

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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	-
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/ debris 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	-

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Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
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	-
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 uphold 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	-
COM-2017-112	27 March 2017	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Noise and Water quality)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 28 March 2017 that EPD received a noise complaint lodged by a resident of Century Link on 27 March 2017. The complaint was about "昨晚 (i.e. 26 March 2017) 大約十時起, 屋外間歇有非常響亮聲音, 經觀察應該是從港珠澳大橋近人工島的工程發出, 噪音一直至深夜。另今早發現住處對海面受到一大遍污染 (見相片)。以上都應該是大橋工程所造成的污染" i.e. "At around ten o'clock last night (i.e. 26 March 2017), there was intermittent very loud voice outside. According to observation, the noise should be from the Hong Kong-Zhuhai-Macao Bridge project near the artificial island, the noise lasted until late at night. In this morning, there was a plume of pollution found on the sea (see photo). These should be caused by the bridge project."	Nil	Based on the information provided by the Contractor and our investigation, it was concluded that the Contractor had complied with the conditions laid down in CNPs No. GW-RS-1135-16 and GW-RS0016-17 and that no non-compliance on water quality was found. 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. The Contractor was also reminded to schedule, according to the predicted tides of the Hong Kong Observatory, their working vessels to travel to and from work site at high tide in order to reduce the sediment plume at shallow water areas.	Closed	-
COM-2017-113	20-Apr-17	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Water quality)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 20 April 2017 that EPD received a complaint on 19 April 2017 lodged by a green group. The complaint was about "本會XXX投訴港珠澳大橋承辦商於2015年設置隔泥網的方向不當, 產生污染。而圖片是由路政署提供, 是真確圖片。本會期望環保署調查圖片中的情況, 並對承辦商作出警告, 以及要求承辦商準確放置現時時的隔泥網, 確保其雙重設計是有效。"	Portion X	Based on the information provided by the Contractor and ET's investigation, it was suspected that the concerned silt plume may be caused by sea current. There was no evidence that the concerned silt plume was caused by any activities arising from the Contract. The Contractor was reminded once again to implement the mitigation measure as specified in the Implementation Schedule of Environmental Mitigation Measures. The Contractor is also recommended to fully and properly maintain the silt curtain throughout the works in accordance with the requirements in the Updated EM&A Manual through undertaking monthly measurement on the overlapping and separation openings for vessels access for prompt rectification.	Closed	-
COM-2016-095(3)	27-May-17	Nil	SOR (HyD referred the email from Complainant to SOR)	Environmental (Noise)	It was noted from SOR's email to the Environmental Team and Contractor on 26 May 2017 that HyD received a complaint on 12 May 2017 lodged by a member of public. The complaint was about "We'd like to follow up on this case. Pls help take pictures & point out to us where your noise barriers are located. If those seen in the attached pics are so-called noise barriers, then we believe the contractor needs a lot of improvement in helping to reduce this noise pollution".	Near Dragonair / CNAC (Group) Building (HKIA)	Upon the receipt of the complaint in May 2017, the Contractor had been instructed to immediately install additional noise barriers at the appropriate location and cover the breaker tip with acoustic materials as noise mitigation measure against the noise emission associated with the aforesaid construction activities. Moreover, the noise barriers have been located as close as possible to the noise source (rock breaking work). Also, gaps and openings at joints in the barrier material have been minimized. The rock breaking work was completed on 31 May 2017 and the rock breaking machine had been demobilized off site. According to information from Contractor, removal C&D materials will be carried out at the site near CAD and CNAC buildings in the future. As such, noise nuisance generated from a site will be minimized. Notwithstanding that, the Contractor has been reminded to implement noise mitigation measures on the site to minimize any potential nuisance to the public. Based on our investigation result, it is considered that the complaint is likely related to Contract No. HY/2011/03. The Contractor has implemented the following measures to minimize the potential noise impact: - Additional noise barriers have been erected in the active working area to further mitigate the associated noise emissions as far as practicable; - Cover the breaker tip with acoustic material. - Noise barriers have been located as close as possible to the noise source. Also, gaps and openings at joints in the barriers material have been minimized. - Speed up of construction works in order to shorten the duration noise impact/nuisance to the surrounding. - Minimize the quantities of noisy plant as far as practicable. - Regular review of working duration and switch off all unnecessary machinery and plant.	Closed	-

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Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2016-095(4)	15-Aug-17	Nil	HyD	Environmental (Noise)	HyD received a complaint concerning the rock breaking works near CNAC Buildings, as described below: "I am writing to let you know re-captioned works interrupted seriously our staff daily office works. Understand the rock encountered was much stronger than the original expected, the rock breaking works near CNAC Tower has been never ending. Recently a bulldozer is working nearby and no noise barriers/sound proofs were set up. Please take corrective action asap. Kindly advise us when this bulldozing work is scheduled to complete."	Near Dragonair / CNAC (Group) Building (HKIA)	The major rock breaking works near CNAC Tower were substantially completed on 31 May 2017. However, survey record revealed that minor rock breaking/trimming work was required at the formation level for the construction of box culvert no. PR14. Hence, the Contractor used a hydraulic breaker for minor rock breaking/trimming work in the afternoon on 15 August 2017. According to the photos provided by the complainant, movable noise barriers were not located near the noise source (rock breaking/trimming work). As such, noise generated by rock breaking/trimming work was not efficiently screened by the noise barriers. According to the Contractor's records and the photos provided by the complainant, no bulldozer was used at PR14 on 15 August 2017. In addition, no bulldozing work is scheduled at PR14 in near future. ET conducted an investigation on 16 August 2017. The minor rock breaking/rock trimming work was completed. Only one excavator was operating for forming the haul road at the concerned location. No significant noisy activity was observed during the investigation on 16 August 2017. Also, bulldozer was not observed on the site. Based on our investigation result, it was likely that concerned noise emission was due to the minor rock breaking/trimming works by the hydraulic breaker. It is considered that the complaint is likely related to Contract No. HY/2011/03. According to Contractor's information, no substantial rock breaking works will be conducted at near CNAC Tower. Only minor rock breaking/trimming work may be occasionally conducted at the concerned work area. The Contractor has been recommended to implement the following measures to minimize the potential noise impact when minor rock breaking/trimming work to be conducted: - Schedule noisy work (i.e. rock breaking) during non-office hours as far as practicable subject to actual site progress; - Cover the breaker tip with acoustic material; - Locate noise barriers as close as possible to the noise source. Also, gaps and openings at joints in the barriers material should be minimized; - Regular review of working duration and switch off all unnecessary machinery and plant; - Speed up of construction works in order to shorten the duration noise impact/nuisance to the surrounding; and - Minimize the quantities of noisy plant as far as practicable.	Closed	-
COM-2017-122	03-Oct-17	Nil	1823 Integrated Call Centre received a complaint lodged by a member of the public on 30 September 2017. SOR referred the complaint details from 1823 - HyD to ET on 3 Oct 2017	Environmental (Other: Cleanliness problem at Tung Fai Road)	1823 Integrated Call Centre received a complaint lodged by a member of the public regarding cleanliness problem at Tung Fai Road, as described below: "投訴大嶼山赤鱗角東輝路11號港龍大廈對出，巴士站附近，是港珠澳大橋地盤其中一個出入口，經常有大量重型工程車輛進出地盤。每逢有巴士或重型車輛經過時，路面沙塵揚起引起"沙塵暴"，等候巴士的乘客便遭殃。以前有灑水車噴水減低沙塵，現在灑水車都沒有出現。要求部門改善沙塵問題。"	S16	During the ET's inspection on 3 October 2017, it was observed that the Contractor did provide wheel washing facility with high pressure jets at the site access S16 at 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 also observed that the Contractor did provide water bowser to thoroughly clean Tung Fai Road. No mud was observed at the section of Tung Fai Road leading to the site access S16 of Contract No. HY/2011/03. Another inspection was conducted on 12 October 2017, the section of the road between the wheel washing facility and the site access S16 was hard paved and no mud/silt was observed at the concerned road section and the site access S16. Although Contract No. HY/2011/03 is the only construction site connecting to the Tung Fai Road and the mentioned bus stop, wheel washing facility with high pressure jets is provided at the site access S16 to wash and clean all vehicles before allowing them to leave the construction site. No mud or debris would be brought to the public area. Therefore, there is no direct evidence showing that the complaint is related to Contract No. HY/2011/03. Nevertheless, in order to enhance dust suppression measures, the Contractor will increase the frequency of road cleaning by water bowser from three times per day to four times per day, subject to regular review with relevant stakeholders in the vicinity.	Closed	-
COM-2017-129	08-Jan-18	Nil	ENPO's email to the Supervising Officer's Representative and Contractor on 8 January 2018 that HyD received a complaint lodged by a member of the public regarding cleanliness problem at East Coast Road on 29 December 2017	Environmental (Other: Cleanliness problem at East Coast Road)	HyD received a complaint lodged by a member of the public regarding cleanliness problem at East Coast Road on 29 December 2017. The complaint details are described below: "投訴人投訴於大嶼山東岸路，因港珠澳大橋工程的沙塵問題，部門安排了有關洗街車及吸塵車處理有關沙塵問題，但有關車輛就上述問題的處理成效未如理想。投訴人表示洗街車在清洗有關路面時，只是向路面灑水，令原本的沙塵變成泥漿，但卻沒有清理有關泥漿，道路問題根本沒有根治。另外，有關吸塵車的隔濶亦未如理想，吸塵車吸了地上的沙塵後所噴出來的氣體佈滿沙塵，以致有關沙塵除了未被吸走外，更導致道路沙塵滾滾。要求部門監察有關車輛，煩請部門跟進及回覆。"	East Coast Road	Based on our investigation result, there is no direct evidence showing that the complaint is related to Contract No. HY/2011/03. The Contractor has been reminded to implement the following measures to minimize dust impact/ improve cleanliness at East Coast Road: • display notice at site access to remind drivers to wash the wheels thoroughly before leaving the site. • manual control by rope stopping vehicles entering public road without wheel washing. • provide training for drivers to ensure that they can use water truck and road sweeper properly for road washing. • close monitor on the proper functioning of the road sweeper and water truck and provide maintenance to water truck and road sweeper if necessary. • implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule as per the EM&A Manual. ET will also step up the site inspections to ensure the cleanliness of the concerned section of East Coast Road is properly maintained.	Closed	-
COM-2018-132	13, 14 February 2018	Nil	HyD (SOR referred the email from HyD to Contractor and ET) and EPD (ENPO referred the email from EPD to SOR. SOR sent the email to Contractor and ET)	Dust, Water Quality, Construction Waste, Noise and vibration	The complaint was received from the SOR's email on 13 February 2018 with the following details: "We have witnessed increased construction activities causing concerns such as nuisance, air and water pollution, construction waste landfill which may cause health and safety to the surroundings. Nuisance – construction noise and vibration Air and Water Pollution – poor dust control causing air pollution Construction Waste Landfill Hill – increased height, size and degree of the slope of the construction waste landfill Moreover, we are particularly concerned with the stability of the construction waste landfill hill, and has grown taller and larger in size with steep slopes which may cause potential danger and hazardous to the surrounding area. It is appreciated that if you can investigate on the issue, and rectify the situation to a safe and healthy condition. Please confirm when and how the rectification will be completed."	Near Dragonair / CNAC (Group) Building (HKIA)	Based on our investigation result, the complaint was related to Contract No. HY/2011/03. The Contractor has implemented Environmental Mitigation Implementation Schedule as per the EM&A Manual. Also, the Contractor was reminded to remove the concerned stockpile of the fill materials as soon as possible to minimize the potential nuisance caused to the nearby sensitive receivers.	Closed	-

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Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
Follow-ups of Complaint No COM-2018-132	16 March 2018 and 21 March 2018	Nil	HyD (SOR referred the email from HyD to the Contractor and ET) and EPD (ENPO referred the email from EPD to SOR, who sent the email to the Contractor and ET)	Dust and Construction Waste,	<p>The complaint of 16 March 2018 was addressed to HyD and its details were as follows:</p> <p>"1) It was observed from daily photos that:</p> <p>a. Inadequate dust suppression measures implemented.</p> <p>b. Green tarp does not cover the entire pile of the waste land fill.</p> <p>c. Dry soil constantly being observed, and constantly picked-up by strong gusty winds within CLK area.</p> <p>d. Large boulders and steep slopes on waste landfill, with inadequate safety measures implemented.</p> <p>2) It was noted that the open stockpile of construction waste landfill will be removed by the end of March 2018. Please confirm the date of completion of the removal of the stockpile.</p> <p>3) Please advise if the slope and setting of the piles of earth complies within Building and other relevant Regulations.</p> <p>4) The works on the site should be within a valid gazetted period, please confirm if the works are within a valid gazette period, within CLK Lot No1 Land lease or otherwise."</p> <p>The complaint of 21 March 2018 was addressed to EPD and its details were as follows:</p> <p>"Re: Large construction landfill waste outside Cathay Dragon House, CLK, We refer to your letter ref: [EP3/N09/RS00004678-18] dated 09 March 2018, would like to further draw your attention to the open stockpile of construction waste landfill, and the enclosed daily photo.</p> <p>We have continued to observe the following:</p> <ul style="list-style-type: none"> - Inadequate dust suppression measures implemented. - Green tarp does not cover the whole of the waste landfill. - Dry soil constantly observed, and constantly picked-up strong gusty winds within CLK area. - Large boulders and steep slopes on waste landfill, with inadequate safety measures implemented. - Poor housekeeping of the construction site. <p>Furthermore, we would like to raise the query regarding the validity period for the occupation of the site under the current gazette.</p> <p>It is appreciated that if you can continue to investigate on the issue, provide close monitoring of the situation, and request the contractor to rectify to a safe and healthy condition."</p>	Near Dragonair / CNAC (Group) Building (HKIA)	Based on our investigation result, the complaint was related to Contract No. HY/2011/03. It was noted that no Action and Limit Level exceedances of 1-hr and 24-hr TSP were recorded at air monitoring station AMS6 - Dragonair Building during the period from 1 February 2018 to 30 April 2018. Part of the stockpile was observed dry during ET's site inspection on 27 March 2018. Proper watering on the stockpiles was observed undertaken afterwards. The Contractor has been continuously reminded to properly implement Environmental Mitigation Measures as per the EM&A Manual. The Contractor was also reminded to remove the concerned stockpile of the fill materials as soon as possible to minimize the potential nuisance caused to the nearby sensitive receivers.	Closed	-
COM-2018-142	29 June 2018 & 6 July 2018	Nil	EPD (ENPO referred the email to SOR, Contractor and ET)	Noise	<p>The complaint of 29 June 2018 was received from EPD and its details were as follows:-</p> <p>EPD have recently received a complaint regarding frequent noise from construction works next to Cathay Dragon House, facing Tung Chung direction. The complaint details are described as below:</p> <p>"We would like to raise your attention and forward a complaint regarding frequent noise from construction works next to our Cathay Dragon House, facing Tung Chung direction.</p> <p>From the video link below, it seems like the noise is mainly from the breaking of rocks using powered mechanical equipment.</p> <p>https://www.dropbox.com/s/634sf2p3op39s9v/IMG_3137.MOV?dl=0</p> <p>Our colleagues at Cathay Dragon House has complaint that such disturbance has been going on for a week and works are carried out throughout the whole day.</p> <p>Please advise whether:</p> <ol style="list-style-type: none"> 1. Such noisy works have been carried out with EPD or Highways' "Approved Permit"; 2. The noise level have been limited by your permit; 3. Any regular monitoring works or report have been sent to your department. 4. When will the work/noise stops; <p>Furthermore,</p> <ol style="list-style-type: none"> 5. Mr Lai mentioned in your previous email 18 April 2018 that the works should have completed end April 2018. Why is the works still going on? 6. Mr Lo mentioned in the letter dated 11 April 2018, you would conduct site inspections. Have you noticed any non-compliance? <p>Your prompt response is appreciated."</p> <p>A further complaint was received on 6 July 2018 from EPD and its details were as follows:-</p> <p>"Further to our previous complaints which are in vain, we would like to continue to put forward the complaint against the noise from the construction works next to Cathay Dragon House at CLK, which has never been ceased and been causing great disturbance to the accommodations (aviation control centre) and staff within our Cathay Dragon building and CNAC tower.</p> <p>Below is the time schedule our staff regarding the noise disturbance from the site which is frequent and continuous.</p> <p>Date Time 3 July 2018 8:30am – 11:30am, 1:30pm – 5:30pm 4 July 2018 8:30am – 11:30am, 1:30pm – 5:30pm 5 July 2018 8:30am – 11:30am, 1:30pm – 5:30pm</p> <p>Please advise what has been your action upon this matter. This has been intolerable for months. If there is nothing that your depts., can impose to stop the disturbance, we may need to seek other alternative complain channel.</p> <p>Your immediate action on this matter is highly appreciated."</p> <p>"We would like to get your urgent attention to the noise nuisance matters that is occurring outside Cathay Dragon House (facing seaside Tung Chung). There have been extreme noisy works conducted, without proper noise mitigation matter, with noise DB levels reaching 70-100dB, and is seriously affecting our company operations.</p> <p>Please urgently attend to the matter and advise further on the email below, and implement the proper noise reducing and mitigation procedures.</p>	Near Dragonair / CNAC (Group) Building (HKIA)	Based on our investigation result, the complaint was related to Contract No. HY/2011/03. The Contractor has implemented Environmental Mitigation Implementation Schedule as per the EM&A Manual, such as cover the breaker tip with muffler; minimize the quantities of noisy plant as far as practicable. Although the rock breaking works outside the Cathay Dragon House/ Dragonair & CNAC (Group) Building were completed on 9 July 2018, the Contractor has been continuously reminded to properly implement Environmental Mitigation Measures as per the EM&A Manual to minimize the potential noise nuisance caused to the public/ surrounding.	Closed	-

Remark:

1. Based on updated information received in this reporting month, the environmental complaint no. COM-2017-102 mentioned in Monthly EM&A Report for September 2017 should be COM-2017-122.



APPENDIX O

Mudflat Monitoring Results



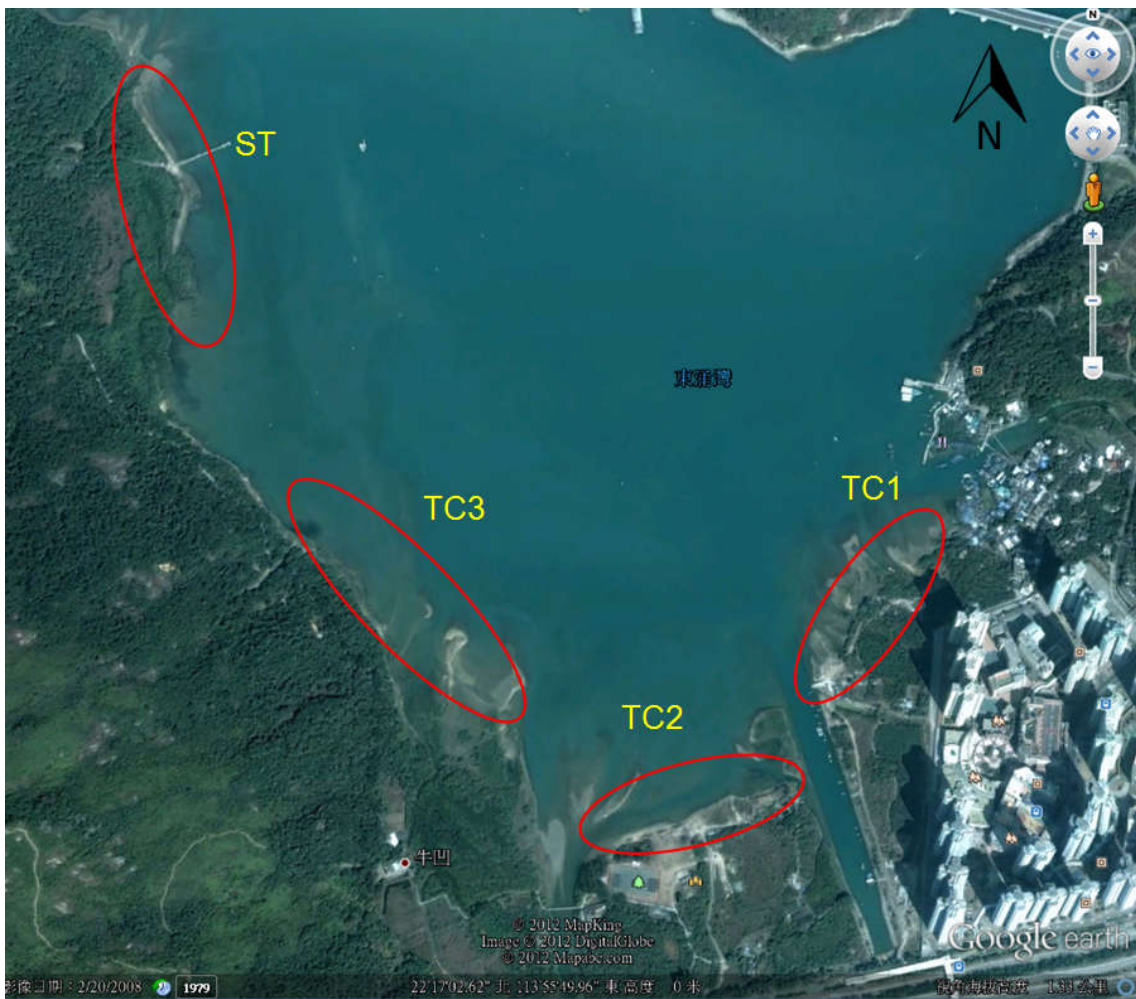


Figure 2.1. Locations of sampling zones. The study site was divided into three sampling zones (TC1, TC2, TC3) in Tung Chung Bay and one zone in San Tau (ST) (map generated from Google Map).

TC1



TC2



TC3



ST



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

TC1



broken bike and plastic waste



trash gill net

TC3



boat wreckage

ST



trash gill net and hand trolley



a tangled horseshoe crab on a trash net

(record in Jun. 2017)

Figure 2.3. Examples of photographic record of the big trashes found on the mudflat.

TC1 *Carcinoscorpius rotundicauda*



TC1 *Tachypleus tridentatus*

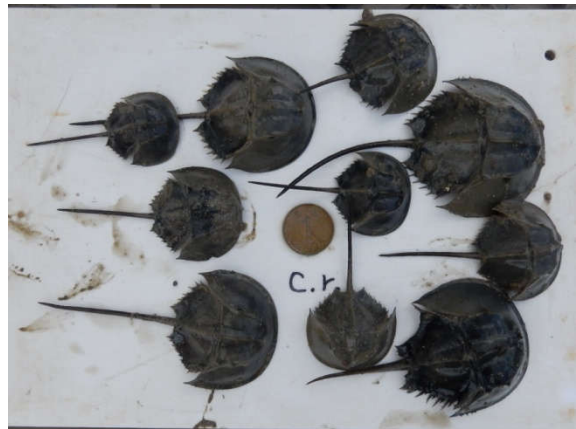


TC2 *Carcinoscorpius rotundicauda*



Figure 3.1. Examples of photographic records of horseshoe crab (Jun. 2018)

TC3 *Carcinoscorpius rotundicauda*



TC3 *Tachypleus tridentatus*

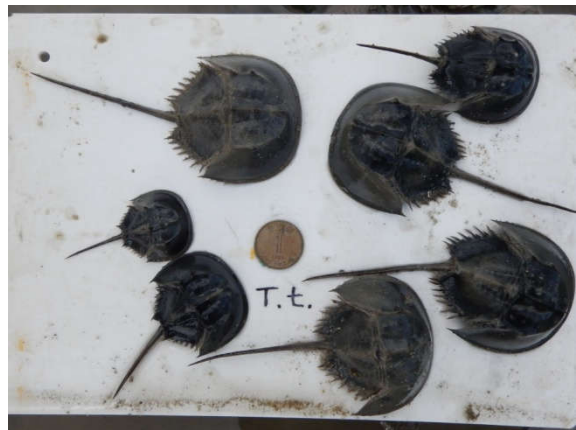


Figure 3.1 (Cont'd). Examples of photographic records of horseshoe crab (Jun. 2018)

ST *Carcinoscorpius rotundicauda*



ST *Tachypleus tridentatus*



Figure 3.1 (Cont'd). Examples of photographic records of horseshoe crab (Jun. 2018)

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

	TC1	TC2	TC3	ST
Search duration (hr)	2	2	3	3
<i>Carcinoscorpius rotundicauda</i>				
no. of individuals	14	3	27	40
mean prosomal width (mm)	33.10	60.99	40.54	41.43
max. prosomal width (mm)	55.55	74.44	67.33	70.68
min. prosomal width (mm)	11.00	47.04	14.95	15.09
Search record (ind. hr ⁻¹ person ⁻¹)	3.5	0.8	4.5	6.7
<i>Tachypleus tridentatus</i>				
no. of individuals	2	0	18	19
mean prosomal width (mm)	48.20	\	60.24	57.55
max. prosomal width (mm)	49.11	\	82.99	78.41
min. prosomal width (mm)	47.29	\	36.52	36.04
Search record (ind. hr ⁻¹ person ⁻¹)	0.5	0.0	3.0	3.2

Mar. 2015 - ST



Jun. 2017 - TC2



Female



Male

Jun. 2017 - TC3



Figure 3.2. *Photographic records of mating pair of *Carcinoscorpius rotundicauda**

Dec. 2017 - TC3



Jun. 2018 - TC3 (present survey)



Female



Male

Figure 3.2 (Cont'd). *Photographic records of mating pair of Carcinoscorpius rotundicauda*

Carcinoscorpius rotundicauda

Jun. 2017



Sep. 2017



Dec. 2017



Tachypleus tridentatus

Sep. 2017



Figure 3.3. *Photographic records of large individuals (>100 mm) of horseshoe crabs whose records were excluded from data analysis.*

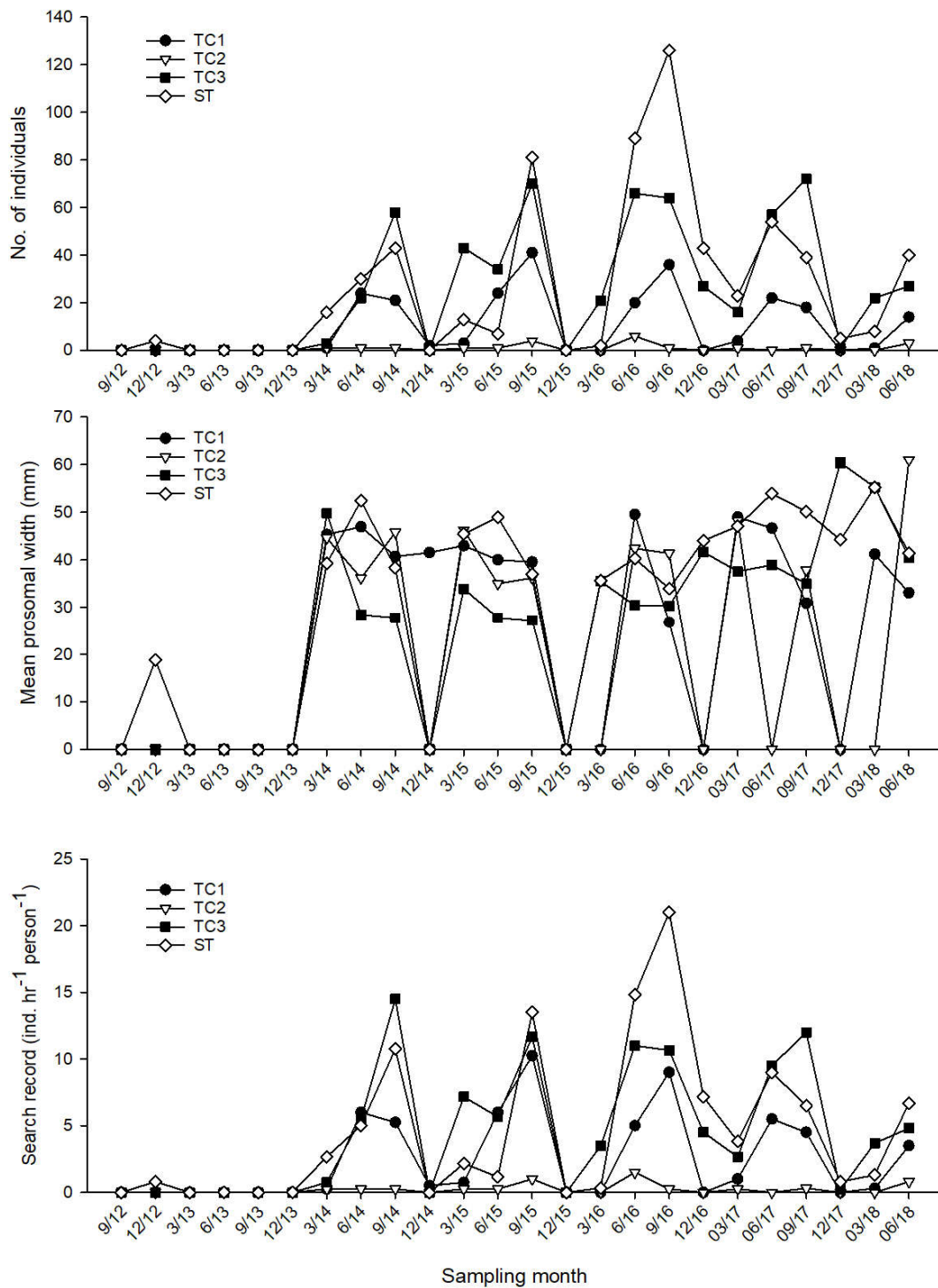


Figure 3.4. Changes of number of individuals, mean prosomal width and search record of horseshoe crab *Carcinoscorpius rotundicauda* in every sampling zone along the sampling months

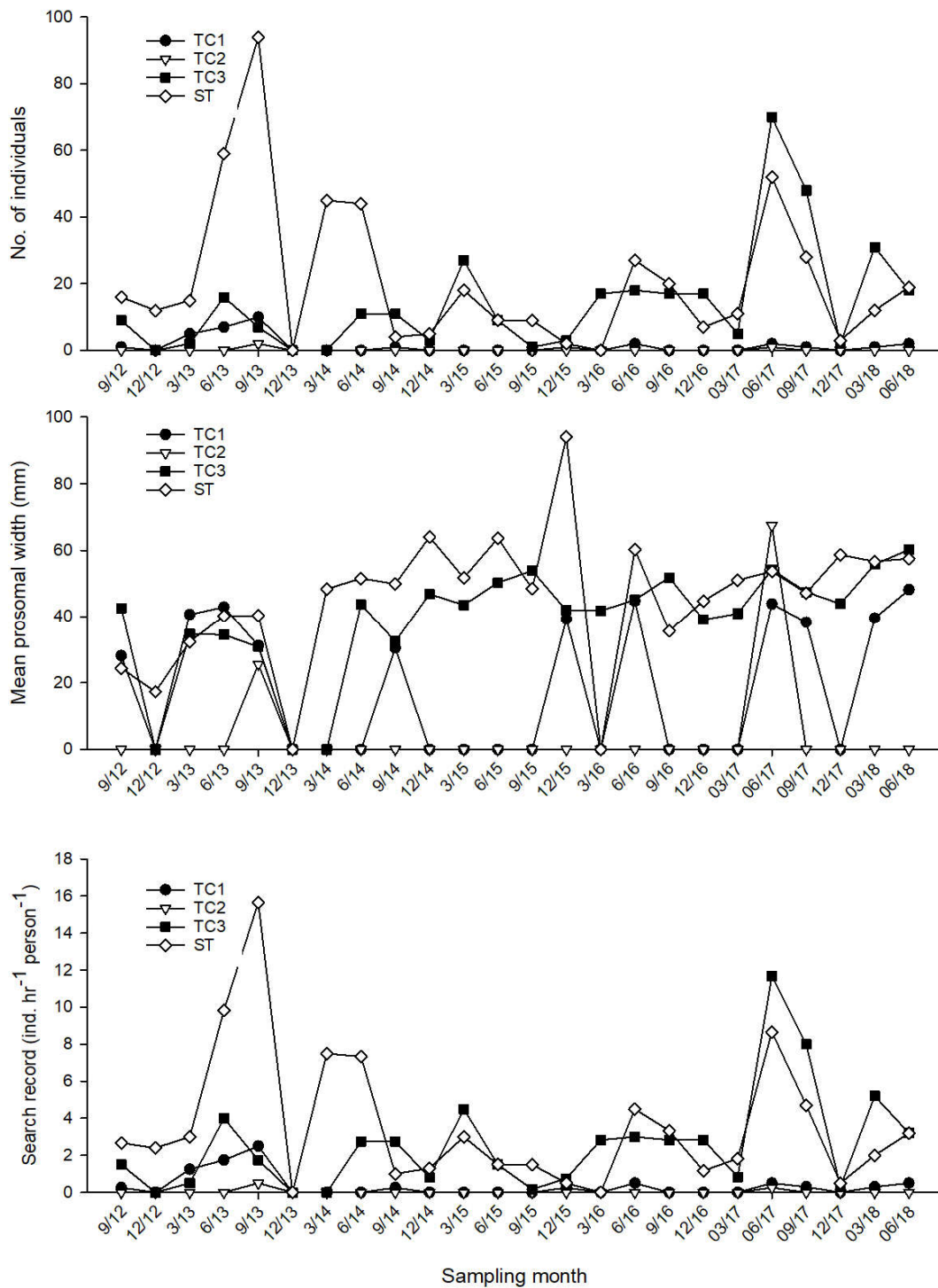


Figure 3.5. Changes of number of individuals, mean prosomal width and search record of horseshoe crab *Tachypleus tridentatus* in every sampling zone along the sampling months

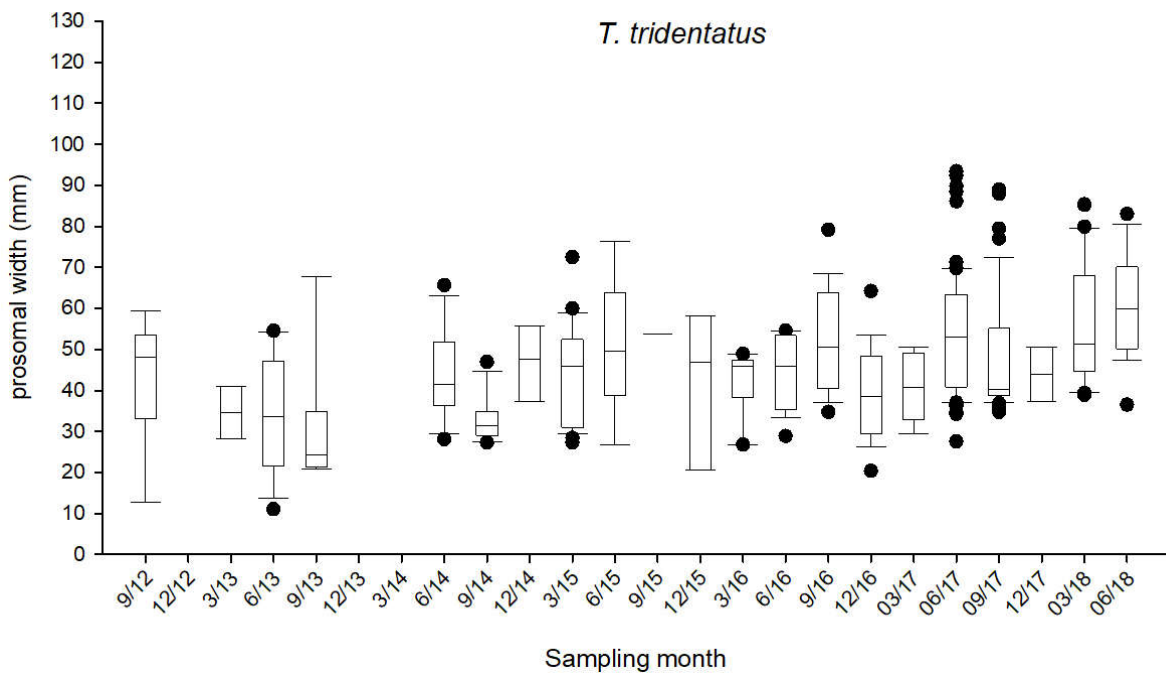
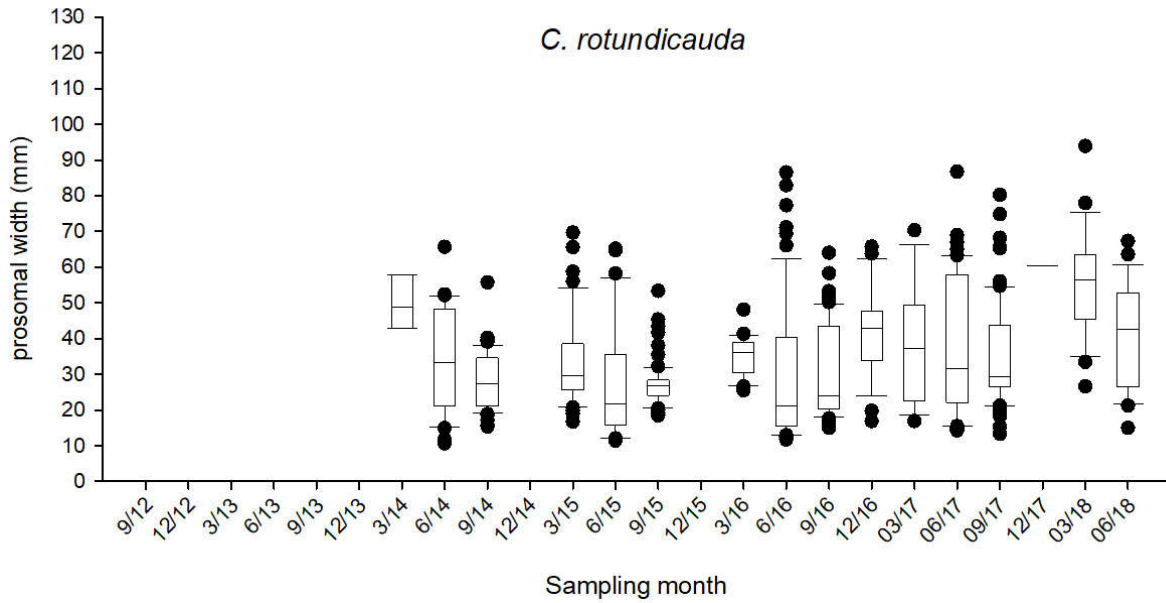


Figure 3.6. Box plot of prosomal width of horseshoe crab in the sampling zone TC3 along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and below the lower quartile respectively)

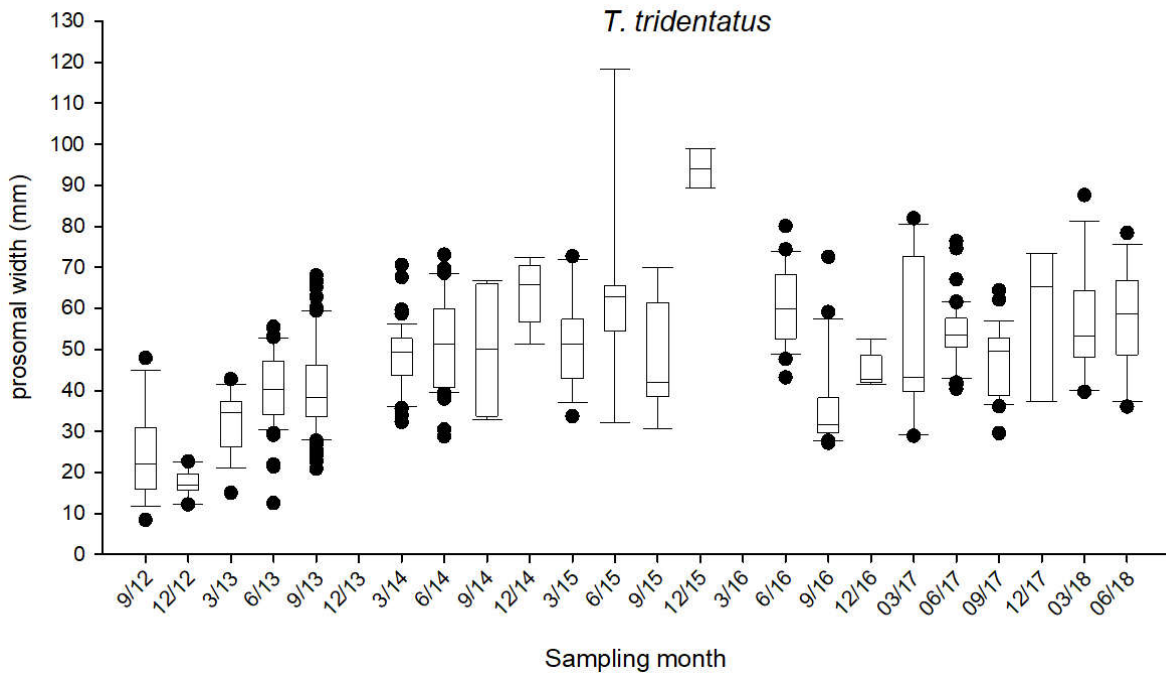
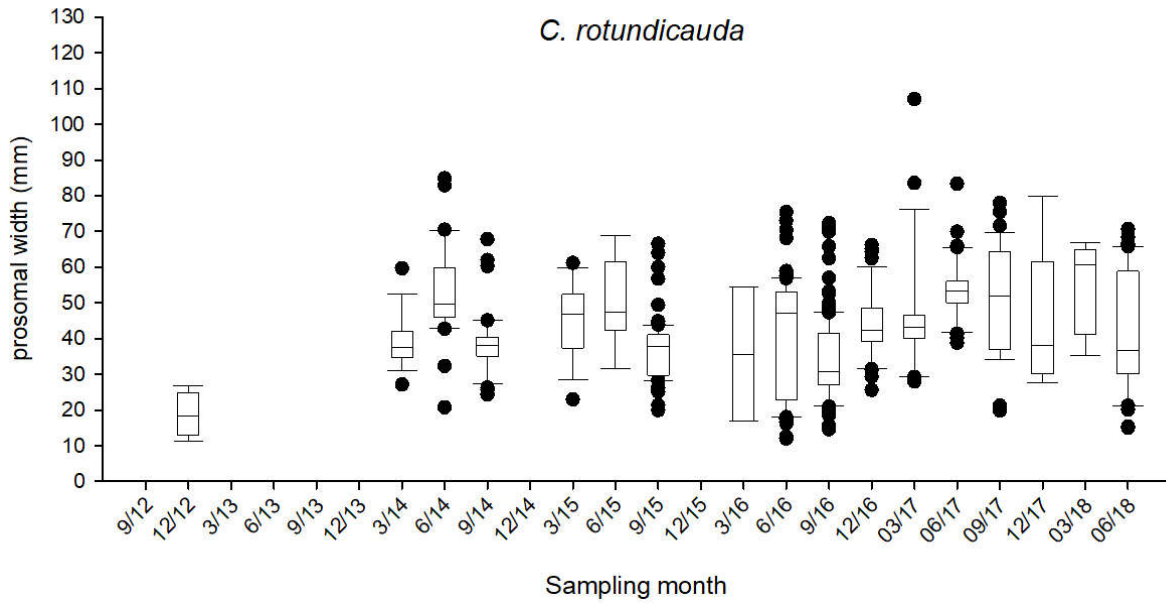


Figure 3.7. Box plot of prosomal width of horseshoe crab in the sampling zone ST along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and below the lower quartile respectively.)

TC3 single patch of *Halophila ovalis*



TC3 - ST extensive patch of *Halophila ovalis*



ST medium, horizontal patch of *Zostera japonica*



Figure 3.8. Examples of photographic records of seagrass beds (record in Jun. 2017)

Table 3.2. Summary of seagrass beds survey

Sampling zone	TC3 <i>Halophila ovalis</i>	ST <i>Halophila ovalis</i>
Number of patches	1	3
Total area (m²)	0.3	1072.0
Average area (m²)	\	357.3

TC3 small, single patch of *Halophila ovalis*



ST medium, horizontal patch of *Halophila ovalis*

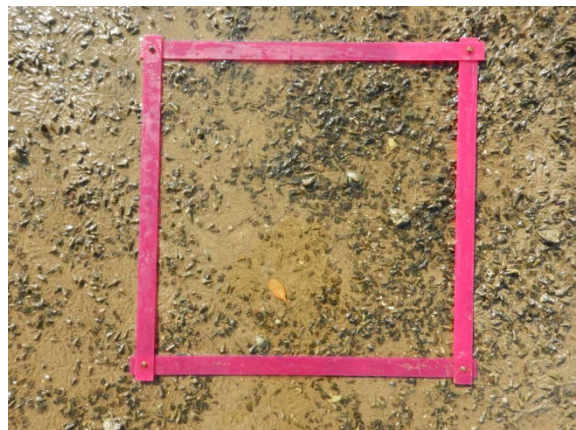


Figure 3.9. *Photographic record of seagrass beds in present survey.*

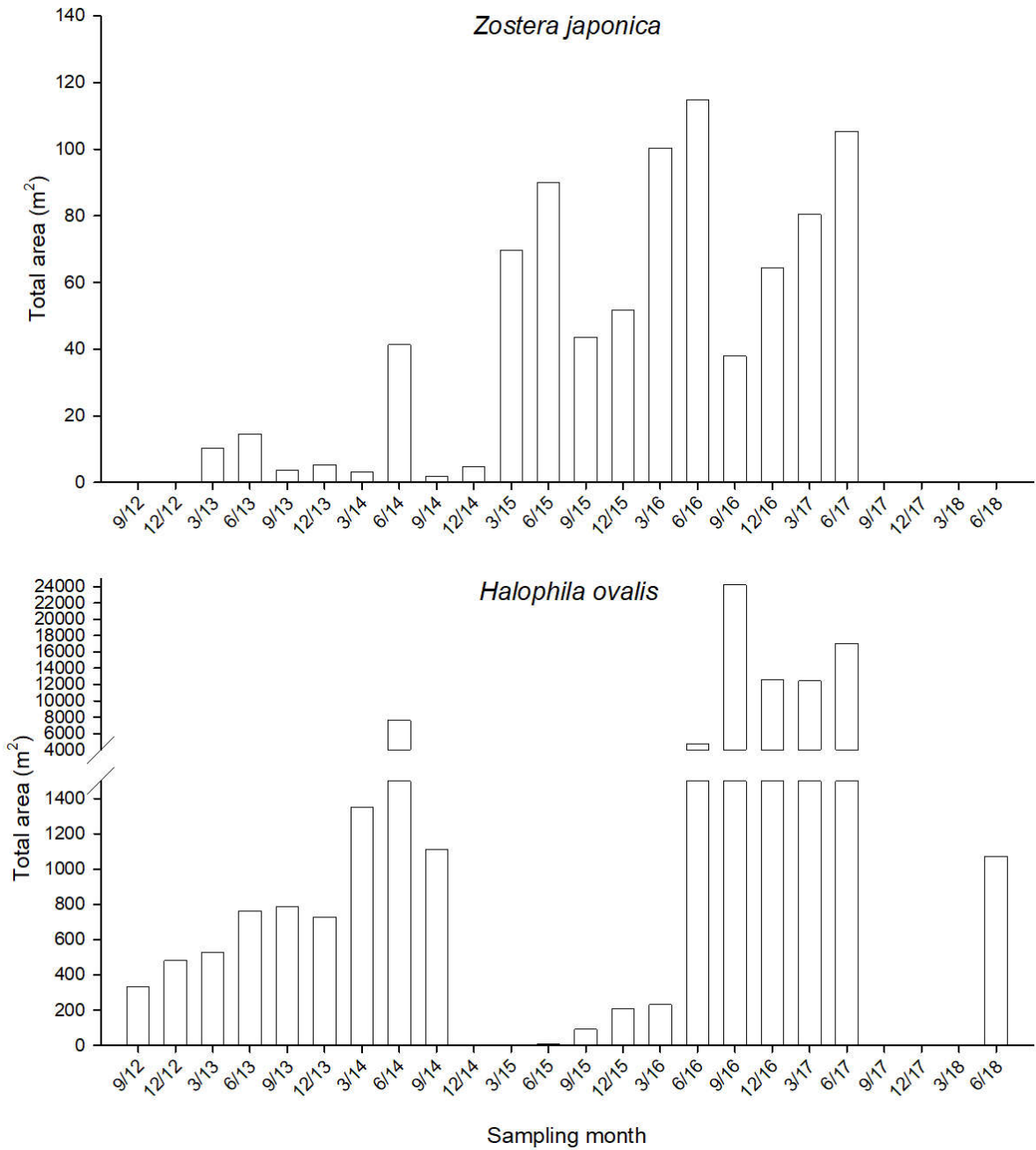


Figure 3.10. Temporal changes of estimated total area of seagrass beds in ST

Jun. 2014



Dec. 2014 (no seagrass)



Sep. 2015



Jun. 2017



Sep. 2017-Mar. 2018 (no seagrass)



Jun. 2018



Figure 3.11. Comparison of pictures taken in different sampling months shows the successive 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.*

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

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

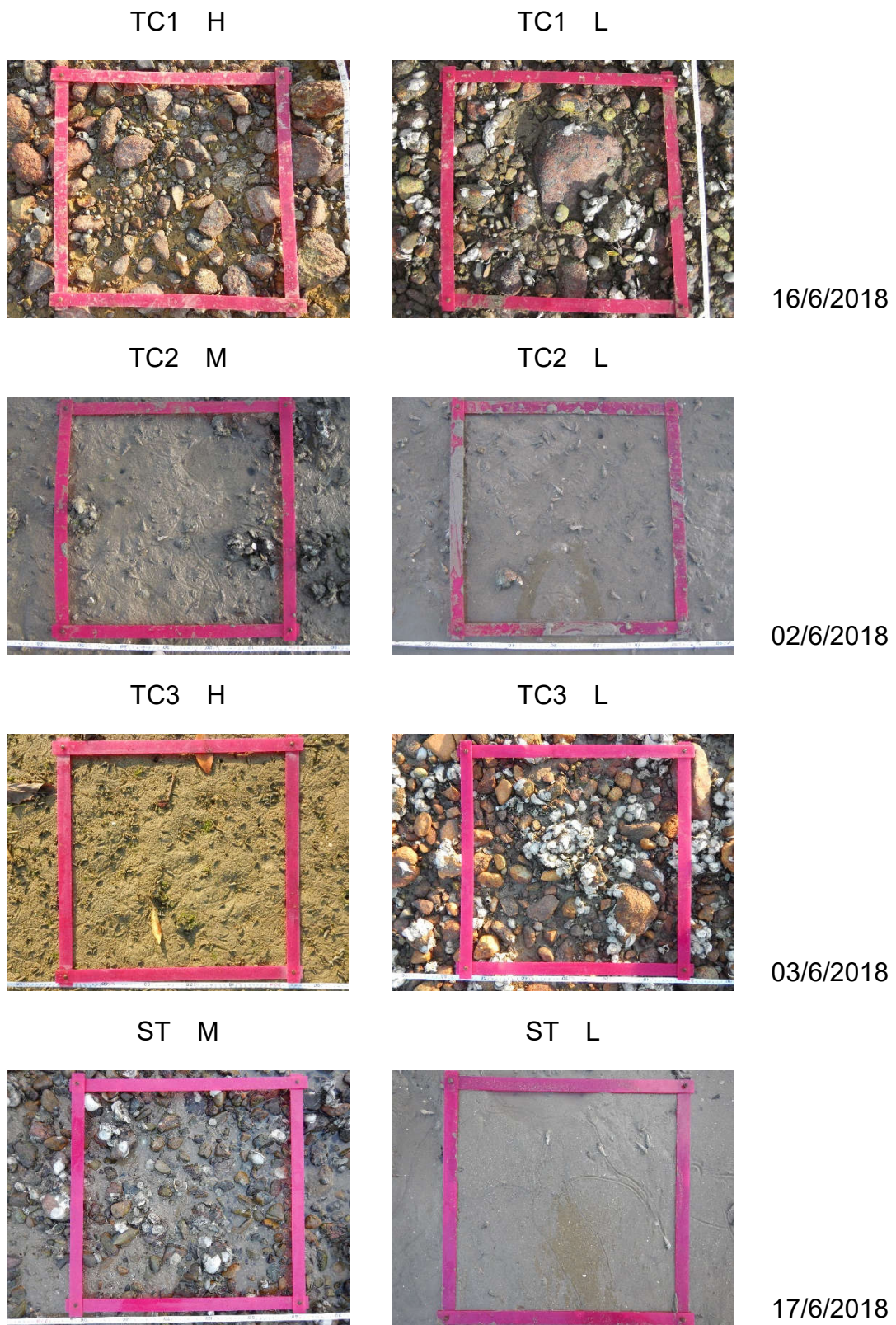


Figure 3.12. *Examples of photographic records of quadrat for intertidal soft shore community survey (H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.)*

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

Phylum	Total Abundance	%	Density (ind. m ⁻²)	Number of taxon
<i>Jun. 2018</i>				
Mollusca	15275	96.6	509	37
Arthropoda	388	2.5	13	14
Annelida	78	0.5	3	8
Sipuncula	31	0.2	1	1
Nemertea	17	0.1	1	1
Cnidaria	16	0.1	1	1
Echiura	4	0.0	0	1
Platyhelminthes	4	0.0	0	1
Echinodermata	1	0.0	0	1
Total	15814			

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	32	1.0	4	30	0.5	4	10	0.3	1
Arthropoda	57	1.5	8	197	6.0	26	86	1.5	11	48	1.6	6
Cnidaria							5	0.1	1	11	0.4	1
Echinodermata				1	0.0	0						
Echiura				3	0.1	0	1	0.0	0			
Mollusca	3799	98.0	507	3025	92.6	403	5613	97.5	748	2838	97.4	378
Nemertea	4	0.1	1	3	0.1	0	5	0.1	1	5	0.2	1
Platyhelminthes	1	0.0	0				3	0.1	0			
Sipuncula	10	0.3	1	7	0.2	1	13	0.2	2	1	0.0	0
Sub-total	3877			3268			5756			2913		

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	<i>Batillaria multiformis</i>	264	55	55
	G	<i>Pirenella incisa</i>	115	24	79
Mid	G	<i>Batillaria multiformis</i>	180	33	33
	Bi	<i>Saccostrea cucullata</i>	119	22	54
	G	<i>Monodonta labio</i>	106	19	73
	G	<i>Pirenella incisa</i>	70	13	86
Low	Bi	<i>Saccostrea cucullata</i>	158	30	30
	G	<i>Monodonta labio</i>	111	21	52
	G	<i>Pirenella incisa</i>	57	11	63

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	<i>Pirenella incisa</i>	301	54	54
Mid	G	<i>Pirenella incisa</i>	124	25	25
	Bi	<i>Saccostrea cucullata</i>	122	24	49
	G	<i>Batillaria zonalis</i>	89	18	67
Low	Bi	<i>Saccostrea cucullata</i>	72	29	29
	G	<i>Pirenella incisa</i>	41	16	45
	G	<i>Batillaria zonalis</i>	41	16	61
	Ba	<i>Balanus amphitrite</i>	31	12	74

Ba = Barnacle, Bi = Bivalve, 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	<i>Pirenella incisa</i>	383	56	56
	G	<i>Batillaria multiformis</i>	136	20	76
	G	<i>Pirenella asiatica</i>	120	18	94
Mid	G	<i>Pirenella incisa</i>	369	42	42
	G	<i>Pirenella asiatica</i>	223	26	68
	G	<i>Batillaria multiformis</i>	158	18	86
Low	Bi	<i>Saccostrea cucullata</i>	301	40	40
	G	<i>Monodonta labio</i>	180	24	64

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	<i>Monodonta labio</i>	163	31	31
	G	<i>Batillaria multiformis</i>	102	20	51
	Bi	<i>Saccostrea cucullata</i>	73	14	65
	G	<i>Cellana toreuma</i>	62	12	77
Mid	Bi	<i>Saccostrea cucullata</i>	174	33	33
	G	<i>Monodonta labio</i>	88	17	50
	G	<i>Pirenella incisa</i>	50	10	60
Low	G	<i>Pirenella incisa</i>	31	25	25
	Bi	<i>Saccostrea cucullata</i>	26	21	46
	G	<i>Batillaria zonalis</i>	16	13	60

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	6	10	478	517	0.9	1.5	0.5	0.6
	M	10		552		1.6		0.7	
	L	14		520		1.9		0.7	
TC2	H	10	11	556	436	1.3	1.5	0.6	0.7
	M	13		501		1.7		0.7	
	L	9		250		1.7		0.8	
TC3	H	7	10	680	767	1.0	1.3	0.5	0.6
	M	8		873		1.2		0.6	
	L	14		750		1.7		0.6	
ST	H	12	10	519	388	1.8	1.6	0.7	0.7
	M	13		523		1.8		0.7	
	L	6		123		1.2		0.7	

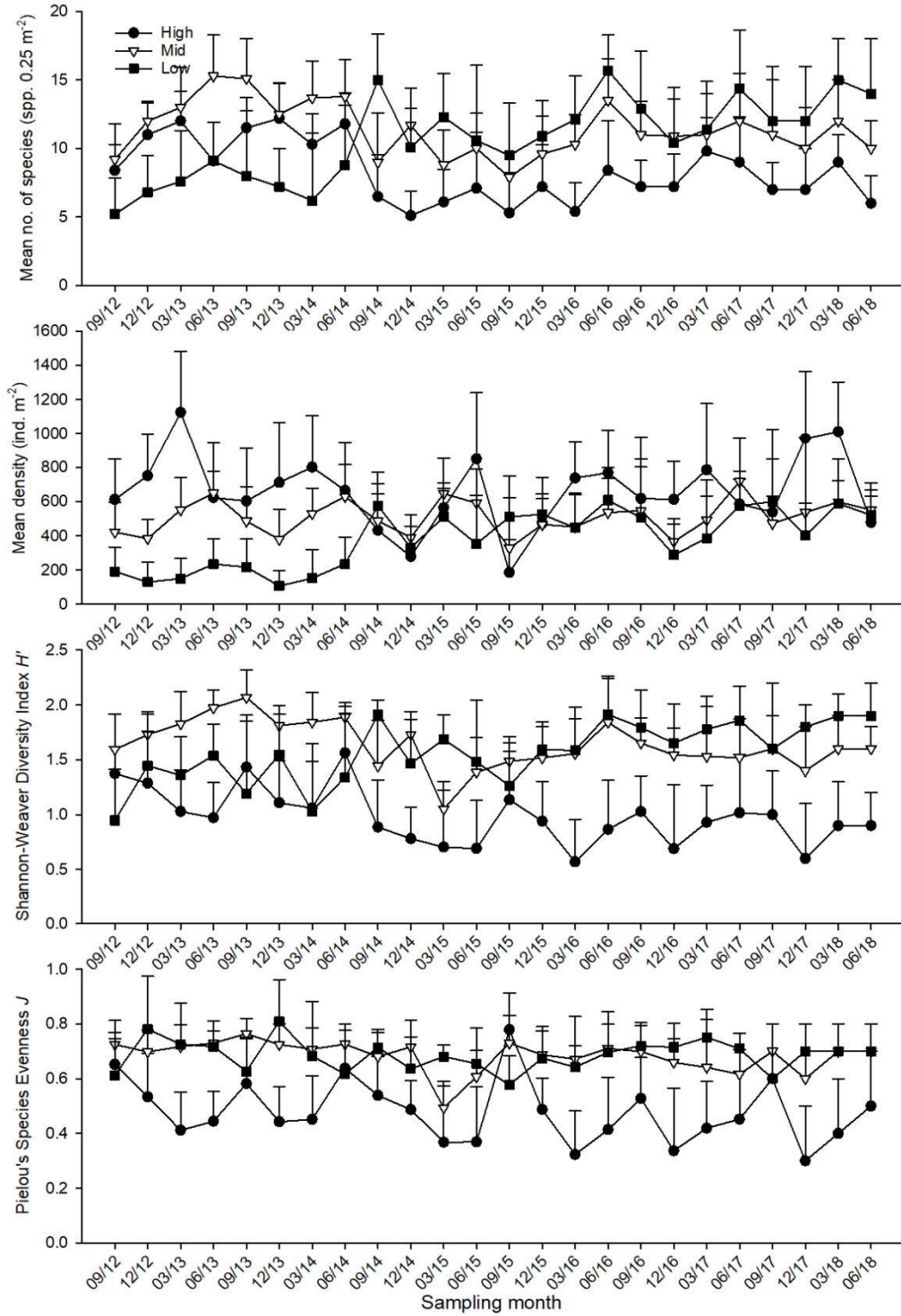


Figure 3.13. Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC1

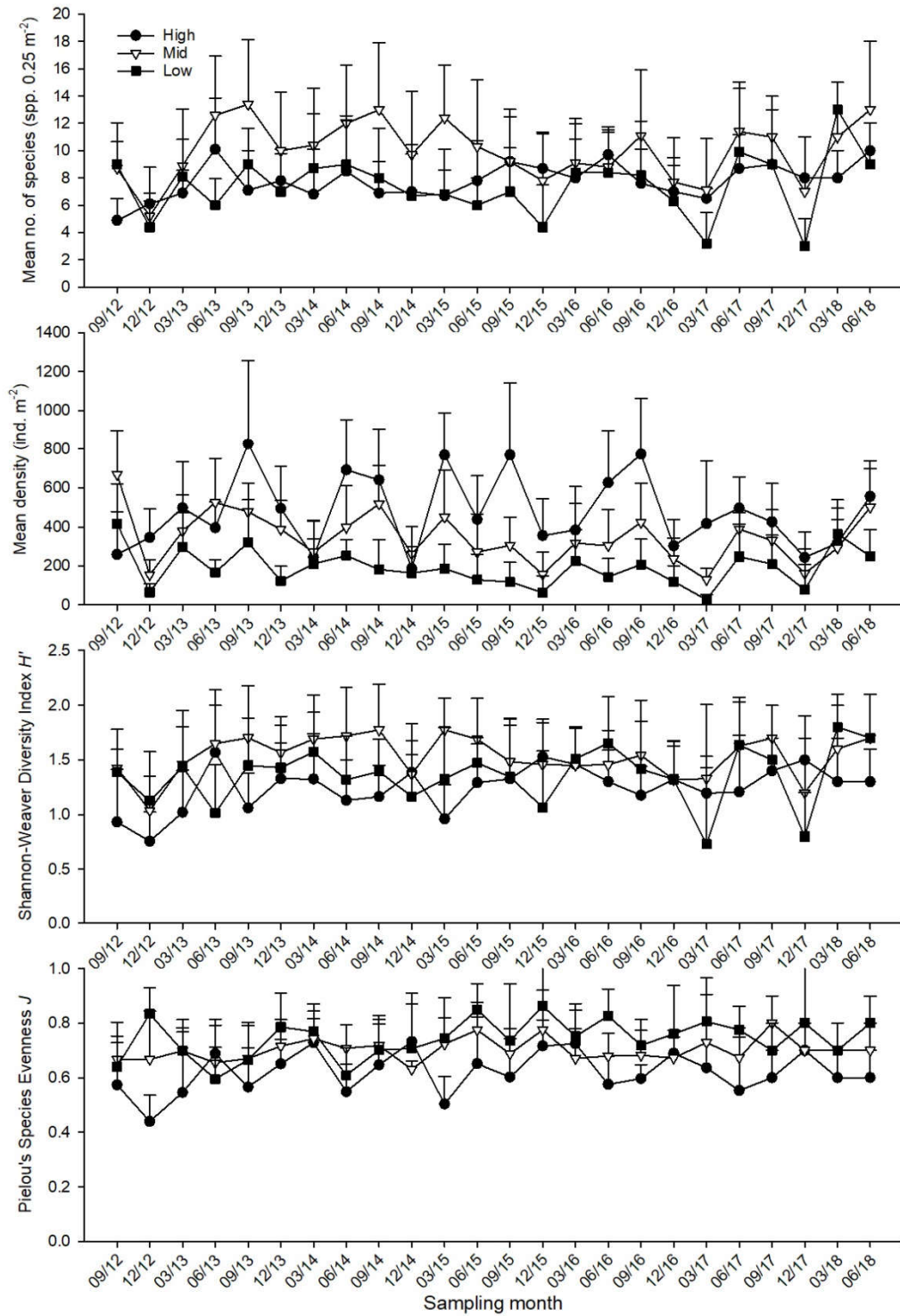


Figure 3.14. Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2

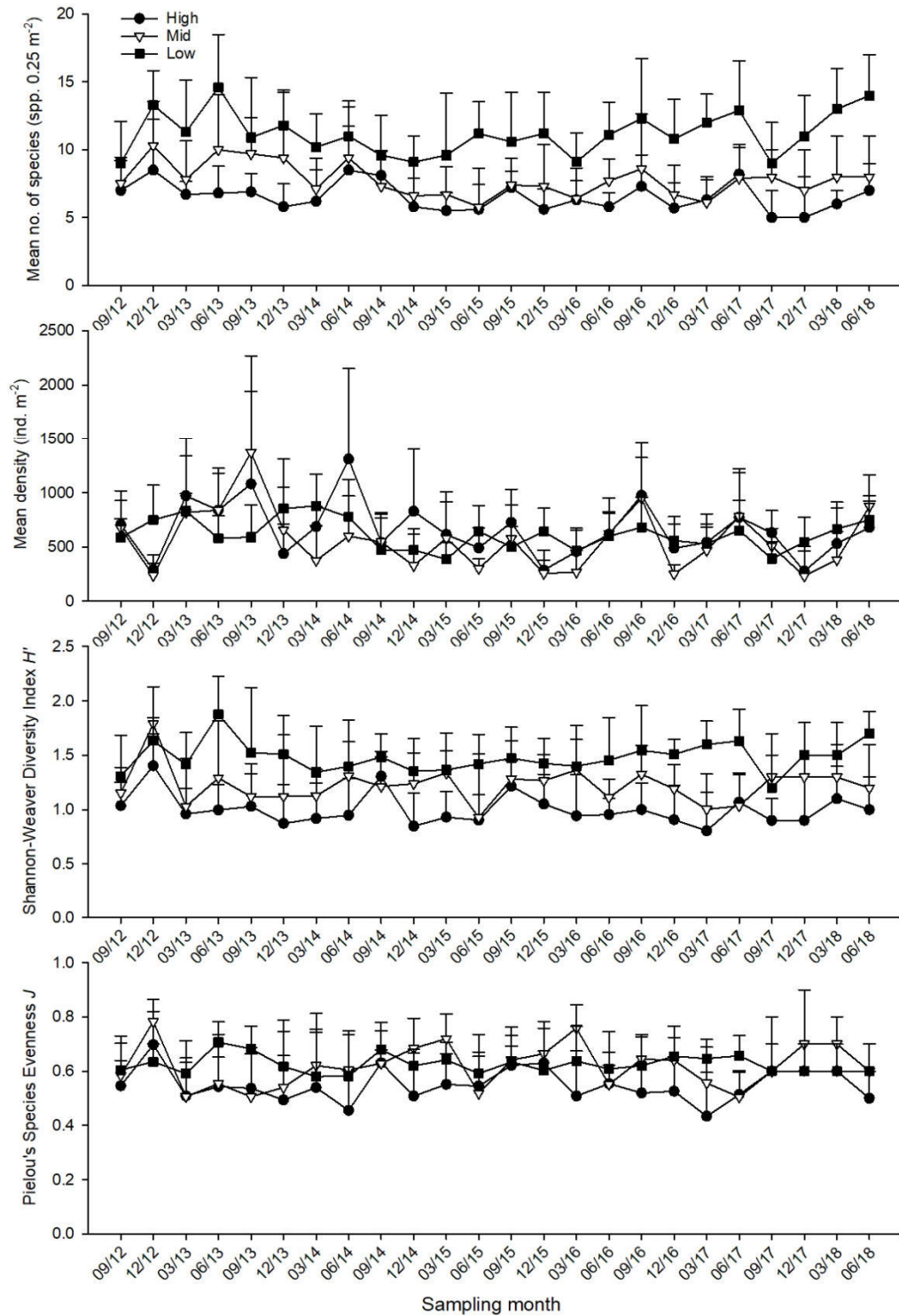


Figure 3.15. Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3

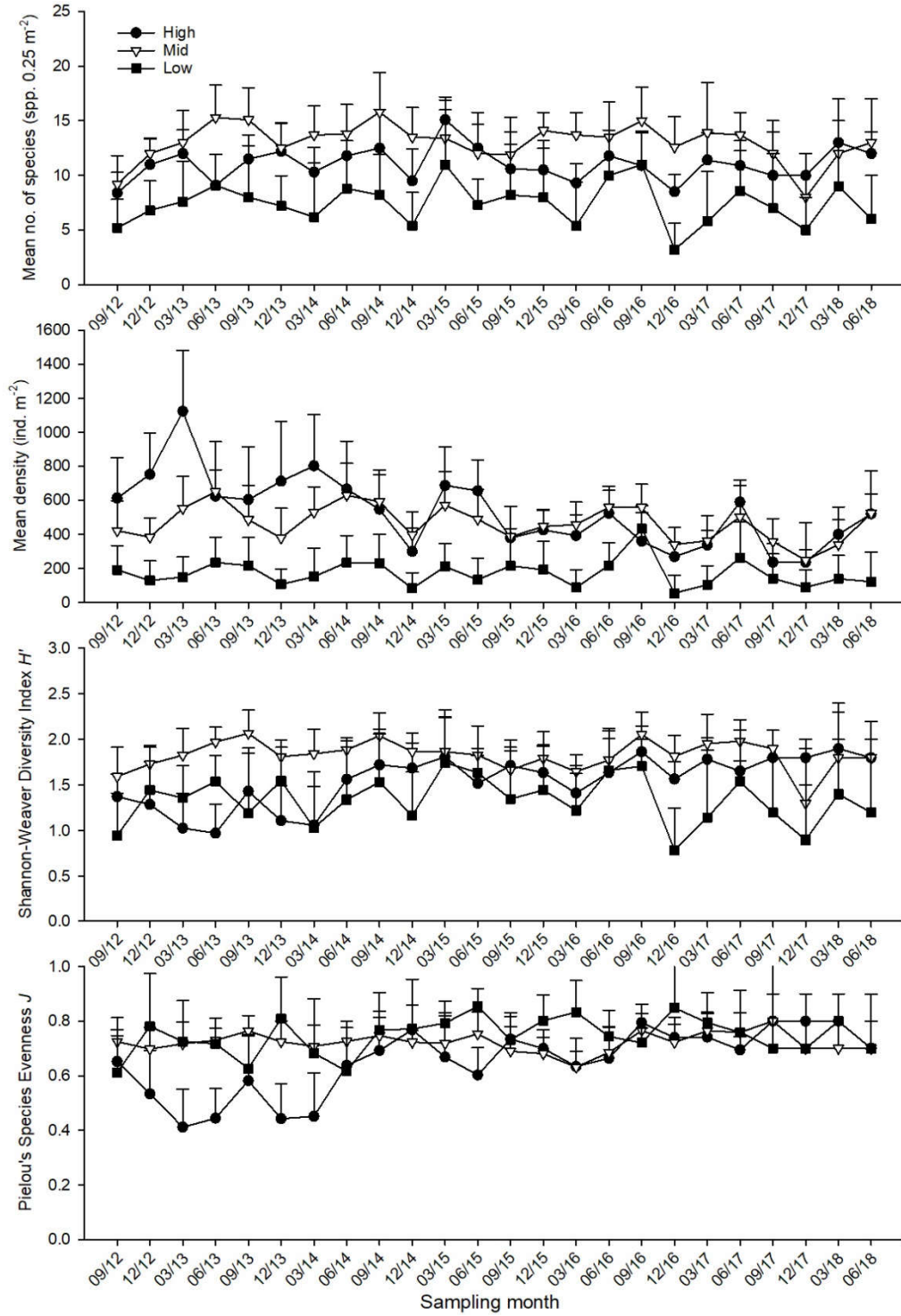


Figure 3.16. Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST

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)			
<u>Sampling site TC1 (Search hour = 2 hrs)</u>				<i>Carcinoscorpius rotundicauda</i>			<i>Tachypleus tridentatus</i>
1	S	22° 16.998' N	113° 55.984' E	30.49	32.24	32.77	
2	S	22° 17.004' N	113° 55.994' E	27.92	47.09		
3	S	22° 17.005' N	113° 55.985' E	36.51	46.91		
4	S	22° 17.016' N	113° 55.990' E	14.48			
5	M	22° 17.014' N	113° 55.972' E	43.64			
6	M	22° 17.022' N	113° 55.970' E	11.00			
7	M	22° 17.030' N	113° 55.969' E	23.43			
8	M	22° 17.024' N	113° 55.962' E				47.29
9	M	22° 17.033' N	113° 55.969' E	26.52	34.80	55.55	
10	M	22° 17.035' N	113° 55.970' E				49.11
No. of ind.				14			2

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

Underlined: size of mating pair or large individual (excluded from data analysis)

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)		
<u>Sampling site TC2</u> (Search hour = 2 hrs)				<i>Carcinoscorpius rotundicauda</i>		<i>Tachypleus tridentatus</i>
1	M	22° 16.921' N	113° 55.852' E	61.48		
2	M	22° 16.920' N	113° 55.860' E	47.04	74.44	
No. of ind.				3		0

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

Underlined: size of mating pair or large individual (excluded from data analysis)

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)															
<u>Sampling site TC3 (Search hour = 3 hrs)</u>				<i>Carcinoscorpius rotundicauda</i>						<i>Tachypleus tridentatus</i>									
1	M	22° 16.966' N	113° 55.670' E	31.34	33.06														
2	S	22° 16.963' N	113° 55.698' E	22.08															
3	S	22° 16.952' N	113° 55.717' E	33.91															
4	S	22° 16.954' N	113° 55.719' E	14.95	21.21	21.93													
5	M	22° 17.022' N	113° 55.658' E									50.95							
6	M	22° 17.061' N	113° 55.648' E	44.62	52.81	59.94						71.65							
7	M	22° 17.089' N	113° 55.640' E	53.78								53.72	69.72	80.13	<u>103</u>				
8	M	22° 17.077' N	113° 55.642' E	42.55	49.44							49.49	50.21	65.56	82.99				
9	M	22° 17.047' N	113° 55.634' E	22.17	26.51	36.10	23.06	<u>149</u>	<u>139</u>			48.48	54.26						
10	M	22° 17.060' N	113° 55.620' E	40.50	43.57	35.37	55.36	46.31	47.69	67.33	36.52	50.96	71.60	66.32	66.39	50.05	65.29		
				47.25	63.61	58.24													
No. of ind.				29						19									

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

Underlined: size of mating pair or large individual (excluded from data analysis)

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)											
-----	------	----------------	--	-------------------------------	--	--	--	--	--	--	--	--	--	--	--

<u>Sampling site ST</u> (Search hour = 3 hrs)				<i>Carcinoscorpius rotundicauda</i>				<i>Tachypleus tridentatus</i>			
1	S	22° 17.370' N	113° 55.463' E	34.08							
2	S	22° 17.385' N	113° 55.459' E	30.37	34.19			37.27	40.83	53.93	58.58
3	S	22° 17.392' N	113° 55.482' E	22.60	45.77						
4	M	22° 17.076' N	113° 55.607' E	35.05				51.53	66.59		
5	M	22° 17.085' N	113° 55.617' E	65.14				48.70	51.77	70.57	
6	M	22° 17.104' N	113° 55.605' E	36.75	36.98	68.38	70.68	60.16	65.64	66.85	
7	M	22° 17.116' N	113° 55.560' E	62.35	15.09			36.04			
8	M	22° 17.146' N	113° 55.554' E	61.27							
9	M	22° 17.149' N	113° 55.490' E					50.61			
10	S	22° 17.162' N	113° 55.478' E	30.53							
11	S	22° 17.182' N	113° 55.493' E	28.09	30.12			64.56			
12	S	22° 17.175' N	113° 55.482' E	20.12	31.33	36.41	49.03	58.94	60.95		

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

Underlined: size of mating pair or large individual (excluded from data analysis)

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)							
<u>Sampling site ST</u> (Search hour = 3 hrs)			<i>Carcinoscorpius rotundicauda</i>				<i>Tachypleus tridentatus</i>			

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

Estimated area (m ²)	Estimated coverage (%)		GPS coordinate		Remark
TC1 & TC2 (search hour = 2 hrs)					
No record					
TC3 <i>Halophila ovalis</i> (search hour = 3 hrs)					
0.3	20	a single patch	22° 17.021' N	113° 55.637' E	A small patch of seagrass bed at tidal zone 1.5-2.0 m above C.D.
ST <i>Halophila ovalis</i> (search hour = 3 hrs)					
2.0	40	a single patch	22° 17.163' N	113° 55.478' E	A small patch of seagrass bed at tidal zone 1.5-2.0 m above C.D.
80.0	20-100	horizontal line	22° 17.170' N	113° 55.476' E	--
			22° 17.176' N	113° 55.474' E	A medium, horizontal strand of seagrass bed nearby the seaward side of
		vertical line	22° 17.173' N	113° 55.474' E	-- mangrove area at tidal level 2.0 m above C.D.
			22° 17.173' N	113° 55.478' E	
990.0	20-100	horizontal line	22° 17.182' N	113° 55.474' E	--
			22° 17.217' N	113° 55.475' E	A horizontal strand of seagrass bed nearby the seaward side of mangrove
		vertical line	22° 17.197' N	113° 55.473' E	-- area at tidal level 2.0 m above C.D.
			22° 17.197' N	113° 55.481' E	

Annex IV. Taxonomic resolution of every recorded species of intertidal soft shore community survey

Kingdom	Phylum	Class	Order	Family	Species
Animalia	Annelida	Polychaeta	Eunicida	Eunicidae	Eunicidae spp.
Animalia	Annelida	Polychaeta	Eunicida	Onuphidae	Onuphidae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Nereididae	Nereididae spp.
Animalia	Annelida	Polychaeta	Sabellida	Oweniidae	Oweniidae spp.
Animalia	Annelida	Polychaeta	Sabellida	Sabellidae	Sabellidae spp.
Animalia	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae spp.
Animalia	Annelida	Polychaeta		Maldanidae	Maldanidae spp.
Animalia	Annelida	Polychaeta		Orbiniidae	Orbiniidae spp.
Animalia	Arthropoda	Malacostraca	Decapoda	Penaeidae	<i>Penaeus</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Diogenidae	<i>Clibanarius</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Paguridae	<i>Pagurus dubius</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Leucosiidae	<i>Philyra carinata</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Macrophthalmus erato</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Uca borealis</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Uca lactea</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Uca</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Uca vocans</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Sesarmidae	<i>Nanosesarma minutum</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus penicillatus</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Etisus laevimanus</i>
Animalia	Arthropoda	Maxillopoda	Sessilia	Balanidae	<i>Balanus amphitrite</i>
Animalia	Arthropoda	Maxillopoda	Sessilia	Balanidae	<i>Balanus trigonus</i>
Animalia	Cnidaria	Anthozoa	Actiniaria	Diadumenidae	<i>Diadumene lineata</i>
Animalia	Echinodermata	Ophiuroidea	Ophiurida	Amphiuridae	<i>Amphioplus</i> sp.
Animalia	Echiura				Echiura spp.
Animalia	Mollusca	Bivalvia	Anomalodesmata	Laternulidae	<i>Laternula anatina</i>
Animalia	Mollusca	Bivalvia	Euheterodonta	Hiatellidae	<i>Hiatella arctica</i>
Animalia	Mollusca	Bivalvia	Veneroida	Corbiculidae	<i>Geloina erosa</i>
Animalia	Mollusca	Bivalvia	Veneroida	Tellinidae	<i>Macoma murrayana</i>
Animalia	Mollusca	Bivalvia	Veneroida	Tellinidae	<i>Tellina</i> sp.
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	<i>Anomalocardia squamosa</i>
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	<i>Circe</i> sp.
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	<i>Cyclina sinesis</i>

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	Veneroidea	Veneridae	<i>Ruditapes philippinarum</i>
Animalia	Mollusca	Bivalvia	Arcoida	Arcidae	<i>Barbatia virescens</i>
Animalia	Mollusca	Bivalvia	Mytiloidea	Mytilidae	<i>Xenostrobus atratus</i>
Animalia	Mollusca	Bivalvia	Ostreoidea	Ostreidae	<i>Saccostrea cucullata</i>
Animalia	Mollusca	Bivalvia			<i>Unidentified small bivalve</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	<i>Batillaria bornii</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	<i>Batillaria multiformis</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	<i>Batillaria zonalis</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	<i>Cerithidea moerchii</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	<i>Pirenella asiatica</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	<i>Pirenella incisa</i>
Animalia	Mollusca	Gastropoda	Littorinimorpha	Littorinidae	<i>Littoraria articulata</i>
Animalia	Mollusca	Gastropoda	Littorinimorpha	Littorinidae	Peasiella spp.
Animalia	Mollusca	Gastropoda	Cephalaspidea	Philinidae	<i>Philine vitrea</i>
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	<i>Clithon faba</i>
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	<i>Clithon oualaniensis</i>
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	<i>Nerita polita</i>
Animalia	Mollusca	Gastropoda		Lottiidae	<i>Nipponacmea concinna</i>
Animalia	Mollusca	Gastropoda		Lottiidae	<i>Patelloida pygmaea</i>
Animalia	Mollusca	Gastropoda		Nacellidae	<i>Cellana grata</i>
Animalia	Mollusca	Gastropoda		Nacellidae	<i>Cellana toreuma</i>
Animalia	Mollusca	Gastropoda	Neogastropoda	Nassariidae	<i>Nassarius festivus</i>
Animalia	Mollusca	Gastropoda	Neogastropoda	Nassariidae	<i>Nassarius hepaticus</i>
Animalia	Mollusca	Gastropoda		Trochidae	<i>Euchelus scaber</i>
Animalia	Mollusca	Gastropoda		Trochidae	<i>Monodonta labio</i>
Animalia	Mollusca	Gastropoda		Turbinidae	<i>Chlorostoma argyrostoma</i>
Animalia	Mollusca	Gastropoda		Turbinidae	<i>Lunella coronata</i>
Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae	<i>Lepidozona</i> sp.
Animalia	Mollusca	Scaphopoda	Dentaliida	Dentaliidae	<i>Dentalium sinuosum</i>
Animalia	Nemertea				Nemertea spp.
Animalia	Platyhelminthes				Platyhelminthes spp.
Animalia	Sipuncula	Sipunculidea	Golfingiida	Sipunculidae	<i>Sipunculus nudus</i>

Annex V. List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 1 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Bi	<i>Hiatella arctica</i>																		1			1
Bi	<i>Saccostrea cucullata</i>			2				1		2		5		2					2		6	20
C	<i>Nanosesarma minutum</i>			1																		1
C	<i>Uca borealis</i>																		1			1
G	<i>Batillaria multiformis</i>	8		3		15		27		36		150		101		144		82		93		659
G	<i>Batillaria zonalis</i>	13		13																		26
G	<i>Cerithidea moerchii</i>											2				1		1		2		6
G	<i>Clithon faba</i>	2												1				2		4		9
G	<i>Clithon oualaniensis</i>	1						2												2		5
G	<i>Littoraria articulata</i>													6								6
G	<i>Lunella coronata</i>	3		1		1																5
G	<i>Monodonta labio</i>			8		24		20		12		2		9		3		2		6		86
G	<i>Pirenella asiatica</i>	65		9				1		1						4				2		82
G	<i>Pirenella incisa</i>	99		83		9		33		10		3		2		20		4		24		287
P	<i>Maldanidae spp.</i>	1																				1
																					Total	1195

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 1 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>	1																				1
Bi	<i>Barbatia virescens</i>					1						5										6
Bi	<i>Cyclina sinesis</i>													7								7
Bi	<i>Geloina erosa</i>																				1	1
Bi	<i>Hiatella arctica</i>															1		1				2
Bi	<i>Saccostrea cucullata</i>	29		31		34		27		13		61		15		74		8		5		297
Bi	<i>Xenostrobus atratus</i>												14									14
C	<i>Nanosesarma minutum</i>	2		2		4		3				1				1						13
G	<i>Batillaria multiformis</i>	1		10		11		76		95		65		61		38		16		78		451
G	<i>Batillaria zonalis</i>	9		3		1																13
G	<i>Cellana toreuma</i>	3		1		3		2		3		2		1		1		1				17
G	<i>Cerithidea moerchii</i>																				3	3
G	<i>Clithon faba</i>															4		5				9
G	<i>Clithon oualaniensis</i>	2								2						4					3	11
G	<i>Littoraria articulata</i>	1		2				1				2									1	7
G	<i>Lunella coronata</i>	3		1		1		3										1		1		10
G	<i>Monodonta labio</i>	14		41		25		25		24		20		31		51		27		7		265
G	<i>Nerita polita</i>			1		1		1														3
G	<i>Nipponacmea concinna</i>					9		4						3								16

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 1 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Patelloida pygmaea</i>													1		5		5				11
G	<i>Pirenella asiatica</i>	12		7				8		11						1					3	42
G	<i>Pirenella incisa</i>	34		16		35		21		20						15		4		29	174	
Ne	<i>Nemertea spp.</i>							1		1												2
Sp	<i>Sipunculus nudus</i>	1				1		2					2									6
																					Total	1381

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 1 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus trigonus</i>																	24		6		30
Bi	<i>Barbatia virescens</i>							1				5		2		2		4		7		21
Bi	<i>Hiatella arctica</i>							6		1		7		17		27		2		8		68
Bi	<i>Saccostrea cucullata</i>	47		15		7		43		32		65		45		48		35		59		396
Bi	<i>Xenostrobus atratus</i>							4				6		7		7				5		29
C	<i>Hemigrapsus penicillatus</i>			1		1										1						3
C	<i>Nanosesarma minutum</i>			2				2		1										1		6
C	<i>Uca lactea</i>			1																		1
G	<i>Batillaria bornii</i>			1				1												4		6
G	<i>Batillaria multiformis</i>	17		6		15		10		8		6		2		16		3		2		85
G	<i>Batillaria zonalis</i>			22	1	2																25
G	<i>Cellana grata</i>							1														1
G	<i>Cellana toreuma</i>			3		4		1		4		9		10		12		8		7		58
G	<i>Cerithidea moerchii</i>													1								1
G	<i>Clithon faba</i>					1		1						2		3		2		1		10
G	<i>Clithon oualaniensis</i>			2		2		2								2						8
G	<i>Euchelus scaber</i>							1										1				2
G	<i>Lepidozona sp.</i>									1						1		1				3
G	<i>Littoraria articulata</i>							1		1										1		3

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 1 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Lunella coronata</i>	3				2		2		3		3		4		4		3		1		25
G	<i>Monodonta labio</i>	49		1	1	23		38		21		14		23		26		18		63		277
G	<i>Nipponacmea concinna</i>	4		2		1		3		1				8		4		6		8		37
G	<i>Patelloida pygmaea</i>			1						2		5		2		7		7		7		31
G	<i>Pirenella asiatica</i>	2		5		1				7								4				19
G	<i>Pirenella incisa</i>	11		40		33		1		29		1		3		4		21				143
Hc	<i>Pagurus dubius</i>																	1				1
Ne	<i>Nemertea spp.</i>															1		1				2
P	<i>Ampharetidae spp.</i>																	1				1
P	<i>Maldanidae spp.</i>				3													1				4
Pl	<i>Platyhelminthes spp.</i>																			1		1
Sp	<i>Sipunculus nudus</i>									2						2						4
																					Total	1301

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 2 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>			2												2		1				5
Bi	<i>Anomalocardia squamosa</i>															1						1
Bi	<i>Laternula anatina</i>																	1				1
Bi	<i>Saccostrea cucullata</i>	4		28		12				34		2		1		6		13		19		119
Bi	<i>Xenostrobus atratus</i>			5						1						1		6		2		15
C	<i>Hemigrapsus penicillatus</i>	2																				2
C	<i>Macrophthalmus erato</i>								1													1
C	<i>Nanosesarma minutum</i>	1		1																		2
C	<i>Uca lactea</i>	2				1						2		7		1		6		4		23
Eh	<i>Echiura spp.</i>	2				1																3
G	<i>Batillaria multiformis</i>	6		33		2		1		7		24		4		2	1	5		2		87
G	<i>Batillaria zonalis</i>					2				3		8		25		35		11	1	9		94
G	<i>Cellana toreuma</i>			1																		1
G	<i>Cerithidea moerchii</i>	8				1		2				2		2				1				16
G	<i>Clithon oualaniensis</i>					2																2
G	<i>Littoraria articulata</i>	1		22						2												25
G	<i>Lunella coronata</i>																	1		2		3
G	<i>Monodonta labio</i>	17		61		8				3								3		1		93
G	<i>Nerita polita</i>			3		1				1												5

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 2 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Nipponacmea concinna</i>			2		1										1		3				7
G	<i>Pirenella asiatica</i>	3				75		10	2	10		13		5		5		1				124
G	<i>Pirenella incisa</i>	46		12		40		43		99		168		100		100		72		73		753
P	<i>Ampharetidae spp.</i>												4		3		1					8
P	<i>Maldanidae spp.</i>																1					1
																					Total	1391

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 2 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total	
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C		
Ba	<i>Balanus amphitrite</i>							1					2		9		9		2		12		35
Bi	<i>Barbatia virescens</i>			1											6		7		2				16
Bi	<i>Hiatella arctica</i>												2		2		1		2		3		10
Bi	<i>Saccostrea cucullata</i>	27		59		1				11		18		62		89		31		8		306	
Bi	<i>Unidentified small bivalve</i>																				1	1	
Bi	<i>Xenostrobus atratus</i>	5												7		7		3				22	
C	<i>Hemigrapsus penicillatus</i>													1		2		2				5	
C	<i>Nanosesarma minutum</i>			1										6		7		3		1		18	
C	<i>Uca lactea</i>					6																6	
C	<i>Uca sp.</i>								1													1	
G	<i>Batillaria bornii</i>			1									3		5		1		2			12	
G	<i>Batillaria multiformis</i>	22		3	1	2				1		4		2		15		2		6		58	
G	<i>Batillaria zonalis</i>	9		7		18		16		12		31		25		28		37	1	38		222	
G	<i>Cellana toreuma</i>	29		3										1								33	
G	<i>Cerithidea moerchii</i>							1		2												3	
G	<i>Clithon oualaniensis</i>																		1			1	
G	<i>Euchelus scaber</i>																		1			1	
G	<i>Lunella coronata</i>	5		1		1				2		3		3		2		4		1		22	
G	<i>Monodonta labio</i>	39		5										3		8		4				59	

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 2 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Nerita polita</i>	2		2										1								5
G	<i>Nipponacmea concinna</i>	5		1								3							2			11
G	<i>Patelloida pygmaea</i>											1		21		1		1				24
G	<i>Pirenella asiatica</i>	31		1		3	1			1		8		3		1		2				51
G	<i>Pirenella incisa</i>	1		30		50		48		34		35		33		13		36		30		310
Hc	<i>Pagurus dubius</i>			2														1				3
P	<i>Ampharetidae spp.</i>				1		1		1							1						4
P	<i>Maldanidae spp.</i>						1		1												1	3
P	<i>Onuphidae spp.</i>						1												1			2
P	<i>Oweniidae spp.</i>														1							1
Sp	<i>Sipunculus nudus</i>													1	2	2		2				7
																					Total	1252

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 2 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>			14		8						7		13		8		13		14		77
Bi	<i>Hiatella arctica</i>																			10		10
Bi	<i>Saccostrea cucullata</i>			48						14				11		14		24		68		179
Bi	<i>Xenostrobus atratus</i>																			4		4
C	<i>Hemigrapsus penicillatus</i>																			1		1
C	<i>Nanosesarma minutum</i>	1		2		1						1		2				1		6		14
Ec	<i>Amphioplus sp.</i>						1															1
G	<i>Batillaria bornii</i>										2							2				4
G	<i>Batillaria multiformis</i>	3		4		1		3				1				1		2				15
G	<i>Batillaria zonalis</i>	6		6		5		5		17		15		6		22	1	5		14		102
G	<i>Cellana grata</i>																			2		2
G	<i>Chlorostoma argyrostoma</i>			3																		3
G	<i>Euchelus scaber</i>			3										1								4
G	<i>Lepidozona sp.</i>													1		2		1				4
G	<i>Lunella coronata</i>			1						9				3		1		3		2		19
G	<i>Nassarius festivus</i>																	2				2
G	<i>Nipponacmea concinna</i>	3		3						3								1				10
G	<i>Patelloida pygmaea</i>													3		2		2		4		11

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 2 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Pirenella asiatica</i>	24												2		3		12				41
G	<i>Pirenella incisa</i>	2		3		5		8		15		18		12		22		8		9		102
Hc	<i>Pagurus dubius</i>	1																				1
Ne	Nemertea spp.									1				1		1						3
P	<i>Eunicidae spp.</i>						1															1
P	<i>Maldanidae spp.</i>		1				1							4		3						9
P	<i>Nereididae spp.</i>		1																			1
P	<i>Onuphidae spp.</i>		1														1					2
S	<i>Penaeus sp.</i>						3															3
																					Total	625

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 3 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Bi	<i>Circe sp.</i>												3						1			4
Bi	<i>Cyclina sinesis</i>										1											1
Bi	<i>Geloina erosa</i>																1		1			2
Bi	<i>Laternula anatina</i>							1	1												1	3
Bi	<i>Saccostrea cucullata</i>			3																		3
C	<i>Nanosesarma minutum</i>													1							1	2
C	<i>Philyra carinata</i>					1																1
C	<i>Uca lactea</i>													8	1						4	13
G	<i>Batillaria multiformis</i>	18		68	1	95		37		24		4		7	2	1		2		68	12	339
G	<i>Batillaria zonalis</i>	4		1		5	1	3		2												16
G	<i>Cerithidea moerchii</i>	3				1		3		1		5		3		4					3	23
G	<i>Clithon oualaniensis</i>					2		3		1											5	11
G	<i>Philine vitrea</i>																				2	2
G	<i>Pirenella asiatica</i>	31		8		69		30		92		20		4	1	28		7		10		300
G	<i>Pirenella incisa</i>	141		102		121		111		34		55		203		63		37		91		958
Ne	<i>Nemertea spp.</i>											1	1									2
P	<i>Ampharetidae spp.</i>						2				1				1							4
P	<i>Maldanidae spp.</i>							2		3	1	8										14

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 3 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
P	<i>Nereididae spp.</i>												1									1
P	<i>Orbiniidae spp.</i>														1							1
																				Total	1700	

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 3 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Bi	<i>Barbatia virescens</i>																		2			2
Bi	<i>Cyclina sinensis</i>								1													1
Bi	<i>Hiatella arctica</i>																		11			11
Bi	<i>Laternula anatina</i>												1									1
Bi	<i>Saccostrea cucullata</i>			1															61	13		75
Bi	<i>Xenostrobus atratus</i>																		9	3		12
C	<i>Nanosesarma minutum</i>							1											1			2
C	<i>Uca lactea</i>											6		15		4			3			28
C	<i>Uca vocans</i>			2		1																3
Cn	<i>Diadumene lineata</i>																		2			2
G	<i>Batillaria bornii</i>	1		9																		10
G	<i>Batillaria multiformis</i>	15	2	26	1	7	1	24	3	8		6		5		17		31		249		395
G	<i>Batillaria zonalis</i>	22		11		8	1	5	1	16		9		10		5		1				89
G	<i>Cellana grata</i>																		1			1
G	<i>Cerithidea moerchii</i>	1				1				1		2										5
G	<i>Clithon oualaniensis</i>	1		3																		4
G	<i>Lepidozona sp.</i>																		1			1
G	<i>Littoraria articulata</i>																		3			3
G	<i>Lunella coronata</i>																				3	3

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 3 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Monodonta labio</i>															1		24		5		30
G	<i>Nassarius festivus</i>													1								1
G	<i>Patelloida pygmaea</i>																	2		3		5
G	<i>Pirenella asiatica</i>	67		93	3	161	6	103	6	43	1	37		6		7	4	4		17		558
G	<i>Pirenella incisa</i>	51		88	1	21	1	93		58		138		169		148		49		106		923
P	<i>Ampharetidae spp.</i>				3																	3
P	<i>Maldanidae spp.</i>									3		2		1		1						7
Pl	<i>Platyhelminthes spp.</i>								2													2
Sp	<i>Sipunculus nudus</i>																	5				5
																					Total	2182

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 3 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>											3		3						3		9
Bi	<i>Barbatia virescens</i>	5		1		2		26		16		7		12		4		4		3		80
Bi	<i>Hiatella arctica</i>	1						2				7		5		1						16
Bi	<i>Saccostrea cucullata</i>	75		73		29		55		42		130		136		45		67		101		753
Bi	<i>Xenostrobus atratus</i>					1						4				2		6		19		32
C	<i>Etisus laevimanus</i>			1				1														2
C	<i>Hemigrapsus penicillatus</i>											2										2
C	<i>Nanosesarma minutum</i>	5		1				6		6		3		1						1		23
C	<i>Uca lactea</i>																				1	1
Cn	<i>Diadumene lineata</i>	1								1										1		3
Eh	<i>Echiura spp.</i>																			1		1
G	<i>Batillaria bornii</i>	1										3		7				1				12
G	<i>Batillaria multiformis</i>			47		23		4		41				2				23		4		144
G	<i>Batillaria zonalis</i>									2				2				1				5
G	<i>Cellana grata</i>															9				2		11
G	<i>Cellana toreuma</i>	1				2				2				1		17		15		25		63
G	<i>Cerithidea moerchii</i>											1						1				2
G	<i>Euchelus scaber</i>							1		1		3		3								8
G	<i>Lepidozona sp.</i>													1		1						2

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone TC 3 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Littoraria articulata</i>	2		11		4		5		1		1										24
G	<i>Lunella coronata</i>	5						4		7		16		6				9		8		55
G	<i>Monodonta labio</i>	36		43		83		42		27		14		10		50		69		75		449
G	<i>Nerita polita</i>					1						1		5		3		2				12
G	<i>Nipponacmea concinna</i>	8		3		4				4		1		3		1		1				25
G	<i>Patelloida pygmaea</i>											11		8		7		12		11		49
G	<i>Pirenella asiatica</i>							2		2								2				6
G	<i>Pirenella incisa</i>	3		1				10		14		14		8				13		10		73
Ne	<i>Nemertea spp.</i>	1		1										1								3
Pl	<i>Platyhelminthes spp.</i>													1								1
Sp	<i>Sipunculus nudus</i>					1		1		2				1				2		1		8
																					Total	1874

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone ST High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Bi	<i>Hiatella arctica</i>																				1	1
Bi	<i>Saccostrea cucullata</i>	26		9		30		13		20		6		18		8		17		35		182
Bi	<i>Xenostrobus atratus</i>	3				2		1		2				2								10
C	<i>Hemigrapsus penicillatus</i>							2														2
C	<i>Nanosesarma minutum</i>	1		1		1				2						2		3		1		11
Cn	<i>Diadumene lineata</i>			9		1																10
G	<i>Batillaria bornii</i>	2		1		6				22		5				3		1		7		47
G	<i>Batillaria multiformis</i>	6		7		37		20		23		35		30		33		30		35		256
G	<i>Cellana grata</i>					1		1		4		1								2		9
G	<i>Cellana toreuma</i>	3				16		19		35		29		11		17		23		1		154
G	<i>Clithon faba</i>					2		2				1										5
G	<i>Clithon oualaniensis</i>	1		2		2		1		2		3								3		14
G	<i>Lepidozona sp.</i>													3								3
G	<i>Littoraria articulata</i>	3		20		3		2														28
G	<i>Lunella coronata</i>			1		4		5		12		5		4		8		4		2		45
G	<i>Monodonta labio</i>	42		29		50		76		36		28		28		46		44		29		408
G	<i>Nerita polita</i>	1						1						1								3
G	<i>Nipponacmea concinna</i>			1				1		4		1		7								14
G	<i>Patelloida pygmaea</i>			1						6						4		1		4		16

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone ST High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Pirenella asiatica</i>					1				4		30		7		2		1		5		50
G	<i>Pirenella incisa</i>			1		2				2		2		9		6		1		4		27
Hc	<i>Clibanarius sp.</i>									2												2
Ne	<i>Nemertea spp.</i>													1								1
G	<i>Pirenella asiatica</i>					1				4		30		7		2		1		5		50
G	<i>Pirenella incisa</i>			1		2				2		2		9		6		1		4		27
Hc	<i>Clibanarius sp.</i>									2												2
Ne	<i>Nemertea spp.</i>													1								1
																					Total	1298

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone ST Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>													1								1
Bi	<i>Barbatia virescens</i>	1												1				7		3		12
Bi	<i>Circe sp.</i>						1		2													3
Bi	<i>Hiatella arctica</i>			4								4		2				1				11
Bi	<i>Saccostrea cucullata</i>	139		35						21		34		45		26		75		60		435
Bi	<i>Tellina sp.</i>						1															1
Bi	<i>Xenostrobus atratus</i>	7		5						2								4		3		21
C	<i>Hemigrapsus penicillatus</i>	1										1		1								3
C	<i>Nanosesarma minutum</i>	7		1										1				2		3		14
Cn	<i>Diadumene lineata</i>																	1				1
G	<i>Batillaria bornii</i>			2						17		13		2		15		10		19		78
G	<i>Batillaria multiformis</i>			4		2	1	2	1	2		1						2		3		18
G	<i>Batillaria zonalis</i>			1		22		14														37
G	<i>Cellana grata</i>	2										2				1				1		6
G	<i>Cellana toreuma</i>	5		7						1		4		4		7		11		18		57
G	<i>Cerithidea moerchii</i>																			1		1
G	<i>Clithon faba</i>									1				1		1						3
G	<i>Clithon oualaniensis</i>															3		1				4
G	<i>Euchelus scaber</i>			1										1		2						4

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone ST Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Lepidozона sp.</i>	1		2						3		1						2				9
G	<i>Littoraria articulata</i>	4																		1		5
G	<i>Lunella coronata</i>	7		11						1		6		12		12		15		19		83
G	<i>Monodonta labio</i>	41		25		1				5		7		21		19		45		55		219
G	<i>Nassarius hepaticus</i>					4																4
G	<i>Nerita polita</i>											2										2
G	<i>Nipponacmea concinna</i>									8		23		35								66
G	<i>Patelloida pygmaea</i>	4		16								1		5		2		5		7		40
G	<i>Peasiella spp.</i>			1																		1
G	<i>Pirenella asiatica</i>			1						2		17		3		4		2		9		38
G	<i>Pirenella incisa</i>	1		20		15		30		18		3		9		14		11		4		125
Hc	<i>Clibanarius sp.</i>									1												1
Ne	<i>Nemertea spp.</i>	2																		1		3
P	<i>Maldanidae spp.</i>						1															1
																					Total	1307

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone ST Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>	7																				7
Bi	<i>Barbatia virescens</i>	1															1					2
Bi	<i>Circe sp.</i>							2														2
Bi	<i>Hiatella arctica</i>	1																				1
Bi	<i>Laternula anatina</i>				1																	1
Bi	<i>Macoma murrayana</i>							1														1
Bi	<i>Ruditapes philippinarum</i>	1																				1
Bi	<i>Saccostrea cucullata</i>	47												2		9		7				65
Bi	<i>Xenostrobus atratus</i>	6																				6
C	<i>Hemigrapsus penicillatus</i>																		1			1
C	<i>Nanosesarma minutum</i>	6																				6
G	<i>Batillaria multiformis</i>			3											2	4						9
G	<i>Batillaria zonalis</i>	5		14								7				10					5	41
G	<i>Cellana toreuma</i>	8																				8
G	<i>Dentalium sinuosum</i>					1															1	2
G	<i>Euchelus scaber</i>	3																				3
G	<i>Lepidozona sp.</i>	1																				1
G	<i>Lunella coronata</i>	19				2		5		1												27
G	<i>Monodonta labio</i>											1		1								2

Annex V (Cont'd). List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2018 Sampling zone ST Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Nassarius festivus</i>												1	1								2
G	<i>Patelloida pygmaea</i>	7														2						9
G	<i>Pirenella asiatica</i>	17		1						2		1		1								22
G	<i>Pirenella incisa</i>	17		19						19		6				17						78
Ne	<i>Nemertea spp.</i>					1																1
P	<i>Ampharetidae spp.</i>													1								1
P	<i>Maldanidae spp.</i>						1				1		1									3
P	<i>Nereididae spp.</i>						1										1					2
P	<i>Oweniidae spp.</i>				1								1									2
P	<i>Sabellidae spp.</i>													1								1
Sp	<i>Sipunculus nudus</i>	1																				1
																					Total	308

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

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