

Contract No. HY/2011/03

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

Monthly EM&A Report No.84 (September 2019)

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Revision 1

Main Contractor



中國連築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD. 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 Environmental Impact Assessment (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 eighty-fourth Monthly 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 to 30 September 2019.

Environmental Monitoring and Audit Progress

The monthly EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKLR (Version 1.0). A summary of the monitoring activities during this reporting month is listed below:

1-hr TSP Monitoring	4, 10, 16, 20, 26 September 2019
24-hr TSP Monitoring	3, 9, 13, 19, 25, 30 September 2019
Noise Monitoring	4, 10, 16, 26 September 2019
Water Quality Monitoring	4, 6, 9, 11, 13, 16, 18, 20, 23, 25, 27 and 30 September 2019
Chinese White Dolphin Monitoring	4, 11, 17 and 23 September 2019
Site Inspection	4, 11, 18 and 27 September 2019
Mudflat Monitoring (Mudflat)	9, 10, 23, 25 September 2019
Mudflat Monitoring (Sedimentation Rate)	12 September 2019

As Strong Wind Signal, No. 3 /Standby Signal No.1 was hoisted on 2 September 2019. The water quality monitoring for both ebb and flood tides on 2 September 2019 were cancelled due to safety reason and no substitute monitoring was conducted.

Due to boat unavailability on 16, 25 September 2019, the dolphin monitoring on 16 September 2019 was rescheduled to 17 September 2019; and the dolphin monitoring on 25 September 2019 was rescheduled to 23 September 2019.



Due to weather condition and manpower allocation, the mudflat monitoring on 11, 12, 13 September 2019 were rescheduled to 10, 23, 25 September 2019.

Breaches of Action and Limit Levels

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

Environmental Monitoring	Parameters	Action Level (AL)	Limit Level (LL)
Air Quality	1-hr TSP	0	0
Air Quality	24-hr TSP	0	0
Noise	L _{eq (30 min)}	0	0
	Suspended solids level (SS)	2	0
Water Quality	Turbidity level	0	0
	Dissolved oxygen level (DO)	0	0

Complaint Log

There was no complaint received in relation to the environmental impacts during this reporting month.

Notifications of Summons and Prosecutions

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

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.

Water quality monitoring station SR10A(N) (Coordinate: 823644E, 823484N) was unreachable on 4 October 2017 during flood tide as fishing activities were observed. As such, the water monitoring at station SR10A(N) was conducted at Coordinate: 823484E, 823593N during flood tide on 4 October 2017 temporarily.

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.

The works area WA5 was handed over to other party on 22 June 2013.

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.

Original WQM stations IS8 and SR4(N) are located within the active work area of TCNTE project and the access to the WQM stations IS8 (Coordinate: E814251, N818412) and SR4(N) (Coordinate: E814705, N817859) are blocked by the silt curtains of the Tung Chung New Town Extension (TCNTE) project. Alternative monitoring stations IS8(N) (Coordinate: E814413, N818570) and SR4(N2) (Coordinate: E814688, N817996) are proposed to replace the original monitoring stations IS8 and SR4(N). Proposal for permanently relocating the aforementioned stations was approved by EPD on 20 August 2019. The water quality monitoring has been conducted at stations IS8(N) and SR4(N2) on 21 August 2019.

There were no marine works conducted by Contract No. HY/2011/03 since July 2019. A proposal for temporary suspension of marine related environmental monitoring (water quality monitoring and dolphin monitoring for the Contract No. HY/2011/03) was justified by the ET leader and verified by IEC in mid of September 2019 and it was approved by EPD on 24 September 2019. Water quality monitoring and dolphin monitoring for the Contract will not be conducted starting from 1 October 2019 until marine works (i.e. toe loading removal works) be resumed. As discussed with Contract No. HY/2012/08, they will take up the survey works staring from 1 October 2019 and continue the dolphin monitoring.

The future key issues include potential noise, air quality, water quality and ecological impacts and waste management arising from the following construction activities to be undertaken in the upcoming month:

- Landscaping works at Portion X and Airport Road;
- E&M works at Portion X and Airport Road;
- Works for Diversion of Airport Road;
- Establishment of Site Access at Airport Road / Airport Express Line/ East Coast Road;



- Finishing Works for Highway Operation and Maintenance Area Building at Portion X; and
- Finishing Works for Scenic Hill Tunnel West Portal Ventilation building at West Portal.



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 Environmental Impact Assessment (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 28 February 2018. Figure 1.1 shows the project site boundary. The works areas are shown in Appendix O.
- 1.1.4 The Contract includes the following key aspects:
 - New reclamation along the east coast of the approximately 23 hectares.
 - Tunnel of Scenic Hill (Tunnel SHT) from Scenic Hill to the new reclamation, of approximately 1km in length with three (3) lanes for the east bound carriageway heading to the HKBCF and four (4) lanes for the westbound carriageway heading to the HZMB Main Bridge.
 - An abutment of the viaduct portion of the HKLR at the west portal of Tunnel SHT and associated road works at the west portal of Tunnel SHT.
 - An at grade road on the new reclamation along the east coast of the HKIA to connect with the HKBCF, of approximately 1.6 km along dual 3-lane carriageway with hard shoulder for each bound.
 - Road links between the HKBCF and the HKIA including new roads and the modification of existing roads at the HKIA, involving viaducts, at grade roads and a Tunnel HAT.
 - A highway operation and maintenance area (HMA) located on the new reclamation, south of the Dragonair Headquarters Building, including the construction of buildings, connection roads and other associated facilities.
 - Associated civil, structural, building, geotechnical, marine, environmental protection, landscaping, drainage and sewerage, tunnel and highway electrical and mechanical works, together with the installation of street lightings, traffic aids and sign gantries, water mains and fire hydrants, provision of facilities for installation of traffic control and surveillance system (TCSS), reprovisioning works of affected existing facilities, implementation of transplanting, compensatory planting and protection of existing trees, and implementation of an environmental monitoring and audit (EM&A) program.
- 1.1.5 This is the eighty-fourth Monthly 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 to 30 September 2019.





1.1.6 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 as follows.

1.2 Project Organisation

1.2.1 The project organization structure and lines of communication with respect to the on-site environmental management structure is shown in **Appendix A**. The key personnel contact names and numbers are summarized in **Table 1.1**.

Party	Position	Name	Telephone	Fax
Supervising Officer's (Chief Resid Representative (Ove Arup & Partners Hong Kong Limited)		Jackson Wong	3968 4802	2109 1882
Environmental Project Office / Independent Environmental Checker	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899
(Ramboll Hong Kong Limited)	Independent Environmental Checker	Ray Yan	3465 2888	3465 2899
Contractor	Project Manager	S. Y. Tse	3968 7002	2109 2588
(China State Construction Engineering (Hong Kong) Ltd)	Environmental Officer	Federick Wong	3968 7117	2109 2588
Environmental Team (BMT Hong Kong Limited)	Environmental Team Leader	Claudine Lee	2241 9847	2815 3377
24 hours complaint hotline			5699 5730	

Table 1.1	Contact	Information	of Key	Personnel
	Contact	mormation	OTINE	y i ei sonnei

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 Month**
- 1.4.1 A summary of the construction activities undertaken during this reporting month is shown in **Table 1.2.**





Table 1.2 Construction Activities During Reporting Month

Description of Activities	Site Area
Loading and unloading of fill materials	Portion X
Landscaping works	Portion X and Airport Road
Works for diversion	Airport Road
Establishment of Site Access	Airport Road / Airport Express Line/ East Coast Road
E&M works	Airport Road
Finishing works for Highway Operation and Maintenance Area Building	Portion X
Finishing works for Scenic Hill Tunnel West Portal Ventilation building	West Portal





2 Air Quality Monitoring

2.1 Monitoring Requirements

2.1.1 In accordance with the Contract Specific EM&A Manual, baseline 1-hour and 24-hour TSP levels at two air quality monitoring stations were established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days. The Action and Limit Level for 1-hr TSP and 24-hr TSP are provided in **Table 2.1** and **Table 2.2**, respectively.

Monitoring Station	Action Level, μg/m³	Limit Level, µg/m³
AMS 5 – Ma Wan Chung Village (Tung Chung)	352	500
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	360	500

Table 2.1	Action	and	Limit		for 1	l-hour	TSD
	ACTION	anu		LEVEIS		I-IIUUI	I OF

Table 2.2Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level, μg/m³	Limit Level, µg/m³
AMS 5 – Ma Wan Chung Village (Tung Chung)	164	260
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	173	260

2.2 Monitoring Equipment

2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the Contract Specific EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in **Table 2.3**.

Table 2.3	Air Quality	Monitoring	Equipment
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Equipment	Brand and Model
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Indicator (Model No. LD-5R)
High Volume Sampler (24-hour TSP)	Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Air Sampler (Model No. TE- 5170)

2.3 Monitoring Locations

- 2.3.1 Monitoring locations AMS5 and AMS6 were set up at the proposed locations in accordance with Contract Specific EM&A Manual.
- 2.3.2 **Figure 2.1** shows the locations of monitoring stations. **Table 2.4** describes the details of the monitoring stations.





Table 2.4 Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location
AMS5	Ma Wan Chung Village (Tung Chung)
AMS6	Dragonair / CNAC (Group) Building (HKIA)

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 **Table 2.5** summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

Table 2.5	Air Quality	Monitoring	Parameters.	Frequency	y and Duration
	All Quality	monitoring	r arameters,	riequenc	y and Duration

Parameter	Frequency and Duration	
1-hour TSP	Three times every 6 days while the highest dust impact was expected	
24-hour TSP	Once every 6 days	

2.5 Monitoring Methodology

2.5.1 24-hour TSP Monitoring

- (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.
 - (i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
 - (ii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
 - (iii) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler was provided.
 - (iv) No furnace or incinerator flues are nearby.
 - (v) Airflow around the sampler was unrestricted.
 - (vi) Permission was obtained to set up the samplers and access to the monitoring stations.
 - (vii) A secured supply of electricity was obtained to operate the samplers.
 - (viii) The sampler was located more than 20 meters from any dripline.
 - (ix) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
 - (x) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.
- (b) Preparation of Filter Papers
 - (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
 - (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.



- (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
- (c) Field Monitoring
 - (i) The power supply was checked to ensure the HVS works properly.
 - (ii) The filter holder and the area surrounding the filter were cleaned.
 - (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
 - (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
 - (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
 - (vi) Then the shelter lid was closed and was secured with the aluminium strip.
 - (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
 - (viii) A new flow rate record sheet was set into the flow recorder.
 - (ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m³/min, and complied with the range specified in the Updated EM&A Manual for HKLR (Version 1.0) (i.e. 0.6-1.7 m³/min).
 - (x) The programmable digital timer was set for a sampling period of 24 hours, and the starting time, weather condition and the filter number were recorded.
 - (xi) The initial elapsed time was recorded.
 - (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
 - (xiii) The final elapsed time was recorded.
 - (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
 - (xv) It was then placed in a clean plastic envelope and sealed.
 - (xvi) All monitoring information was recorded on a standard data sheet.
 - (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.
- (d) Maintenance and Calibration
 - (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
 - (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
 - (iii) Calibration certificate of the HVSs are provided in **Appendix C**.
- 2.5.2 1-hour TSP Monitoring
 - (a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:-

(i) Turn the power on.



- (ii) Close the air collecting opening cover.
- (iii) Push the "TIME SETTING" switch to [BG].
- (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
- (v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
- (vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- (vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- (viii) Pull out the knob and return it to MEASURE position.
- (ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
- (x) Lower down the air collection opening cover.
- (xi) Push "START/STOP" switch to start measurement.
- (b) Maintenance and Calibration
 - (i) The 1-hour TSP meter was calibrated at 1-year intervals against a Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Air Sampler. Calibration certificates of the Laser Dust Monitors are provided in **Appendix C**.

2.6 Monitoring Schedule for the Reporting Month

2.6.1 The schedule for air quality monitoring in September 2019 is provided in **Appendix D**.

2.7 Monitoring Results

2.7.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in **Tables 2.6** and **2.7** respectively. Detailed impact air quality monitoring results and relevant graphical plots are presented in **Appendix E**.

Monitoring Station	Average (μg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
AMS5	35	8 - 67	352	500
AMS6	35	11 - 84	360	500

 Table 2.7
 Summary of 24-hour TSP Monitoring Results During the Reporting Month

Monitoring Station	Average (μg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
AMS5	62	22 - 113	164	260
AMS6	58	20 - 114	173	260

- 2.7.2 No Action and Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at stations AMS5 and AMS6 during the reporting month. The event action plan is annexed in **Appendix F**.
- 2.7.3 On-site wind meter was irreparably damaged and the wind data could not be retrieved since August 2019. As the wind data could not be monitored, the wind data during this reporting month



were reference to the wind data obtained from Hong Kong Observatory's Chek Lap Kok weather station. The wind data obtained from Chek Lap Kok weather station are shown in **Appendix G**.





3 Noise Monitoring

3.1 Monitoring Requirements

3.1.1 In accordance with the Contract Specific EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Project. The Action and Limit level of the noise monitoring is provided in **Table 3.1**.

 Table 3.1
 Action and Limit Levels for Noise during Construction Period

Monitoring Station	Time Period	Action Level	Limit Level
NMS5 – Ma Wan Chung Village (Ma Wan Chung Resident Association) (Tung Chung)	0700-1900 hours on normal weekdays	When one documented complaint is received	75 dB(A)

3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meters at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment are given in **Table 3.2**.

Table 3.2 Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	B&K 2238
Acoustic Calibrator	B&K 4231

3.3 Monitoring Locations

- 3.3.1 Monitoring location NMS5 was set up at the proposed locations in accordance with Contract Specific EM&A Manual.
- 3.3.2 **Figure 2.1** shows the locations of monitoring stations. **Table 3.3** describes the details of the monitoring stations.

Table 3.3 Locations of Impact Noise Monitoring Stations

Monitoring Station	Location
NMS5	Ma Wan Chung Village (Ma Wan Chung Resident Association) (Tung Chung)

3.4 Monitoring Parameters, Frequency and Duration

3.4.1 **Table 3.4** summarizes the monitoring parameters, frequency and duration of impact noise monitoring.



Table 3.4 Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L _{eq} , L ₁₀ and L ₉₀ would be recorded.	At least once per week

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

- (a) The sound level meter was set on a tripod at a height of 1.2 m above the podium for free-field measurements at NMS5. A correction of +3 dB(A) shall be made to the free field measurements.
- (b) The battery condition was checked to ensure the correct functioning of the meter.
- (c) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:-
 - (i) frequency weighting: A
 - (ii) time weighting: Fast
 - (iii) time measurement: L_{eq(30-minutes)} during non-restricted hours i.e. 07:00 1900 on normal weekdays
- (d) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94.0 dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after recalibration or repair of the equipment.
- (e) During the monitoring period, the L_{eq} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- (f) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
- (g) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 3.5.2 Maintenance and Calibration
 - (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
 - (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
 - (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in **Appendix C**.

3.6 Monitoring Schedule for the Reporting Month

3.6.1 The schedule for construction noise monitoring in September 2019 is provided in **Appendix D**.





3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in **Table 3.5** and the monitoring results and relevant graphical plots are provided in **Appendix E.**

 Table 3.5
 Summary of Construction Noise Monitoring Results During the Reporting Month

Monitoring	Average L _{eq (30 mins)} ,	Range of L _{eq (30 mins)} ,	Limit Level L _{eq (30 mins)} ,
Station	dB(A)	dB(A)	dB(A)
NMS5	60	57 – 62	75

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

- 3.7.2 There were no Action and Limit Level exceedances for noise during daytime on normal weekdays of the reporting month.
- 3.7.3 Major noise sources during the noise monitoring included aircraft/helicopter noise and nearby construction activities by other parties.
- 3.7.4 The event action plan is annexed in **Appendix F.**





4 Water Quality Monitoring

4.1 Monitoring Requirements

- 4.1.1 Impact water quality monitoring was carried out to ensure that any deterioration of water quality is detected, and that timely action is taken to rectify the situation. For impact water quality monitoring, measurements were taken in accordance with the Contract Specific EM&A Manual. **Table 4.1** shows the established Action/Limit Levels for the environmental monitoring works. The ET proposed to amend the Acton Level and Limit Level for turbidity and suspended solid and EPD approved ET's proposal on 25 March 2013. Therefore, Action Level and Limit Level for the Contract have been changed since 25 March 2013.
- 4.1.2 The original and revised Action Level and Limit Level for turbidity and suspended solid are shown in **Table 4.1**.

Parameter (unit)	Water Depth	Action Level	Limit Level
Dissolved Oxygen (mg/L) (surface,	Surface and Middle	5.0	4.2 except 5 for Fish Culture Zone
middle and bottom)	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	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
		and 120% of upstream control station's turbidity at the same tide of the same day" since 25 March 2013.	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

Table 4.1 Action and Limit Levels for Water Quality

Notes:

- (1) Depth-averaged is calculated by taking the arithmetic means of reading of all three depths.
- (2) For DO, non-compliance of the water quality limit occurs when monitoring result is lower that the limit.
- (3) For SS & turbidity non-compliance of the water quality limits occur when monitoring result is higher



than the limits.

(4) The change to the Action and limit Levels for Water Quality Monitoring for the EM&A works was approved by EPD on 25 March 2013.

4.2 Monitoring Equipment

4.2.1 **Table 4.2** summarizes the equipment used in the impact water quality monitoring programme.

Table 4.2 Water Quality Monitoring Equipment						
Equipment	Brand and Model					
DO and Temperature Meter, Salinity Meter, Turbidimeter and pH Meter	YSI Model 6820					
Positioning Equipment	JRC DGPS 224 Model JLR-4341 with J-NAV 500 Model NWZ4551					
Water Depth Detector	Eagle Cuda-168 and Lowrance x-4					
Water Sampler	Kahlsio Water Sampler (Vertical) 2.2 L with messenger					

4.3 Monitoring Parameters, Frequency and Duration

4.3.1 **Table 4.3** summarizes the monitoring parameters, frequency and monitoring depths of impact water quality monitoring as required in the Contract Specific EM&A Manual.

Table 4.3 Impact Water Quality Monitoring Parameters and Frequency

Monitoring Stations	Parameter, unit	Frequency	No. of depth				
Impact Stations: IS5, IS(Mf)6, IS7, IS8(N), IS(Mf)9 & IS10(N) Control/Far Field	 Depth, m Temperature, °C Salinity, ppt Dissolved Oxygen 	Three times per week during mid- ebb and mid-	3 (1 m below water surface, mid-depth and 1 m above sea bed, except where the water				
Stations: CS2(A) & CS(Mf)5,	 (DO), mg/L DO Saturation, % Turbidity, NTU 	flood tides (within ± 1.75 hour of the	depth is less than 6 m, in which case the mid- depth station may be omitted. Should the				
Sensitive Receiver Stations: SR3(N), SR4(N2), SR5(N), SR10A(N) & SR10B(N2)	 pH Suspended Solids (SS), mg/L 	predicted time)	water depth be less than 3 m, only the mid- depth station will be monitored).				

Remark:

1) Original WQM stations IS8 and SR4(N) are located within the active work area of TCNTE project and the access to the WQM stations IS8 (Coordinate: E814251, N818412) and SR4(N) (Coordinate: E814705, N817859) are blocked by the silt curtains of the Tung Chung New Town Extension (TCNTE) project. Alternative monitoring stations IS8(N) (Coordinate: E814413, N818570) and SR4(N2) (Coordinate: E814688, N817996) were proposed to replace the original monitoring stations IS8 and SR4(N). Proposal for permanently relocating the aforementioned stations was approved by EPD on 20 August 2019. The water quality monitoring has been conducted at stations IS8(N) and SR4(N2) since 21 August 2019.



4.4 Monitoring Locations

- 4.4.1 In accordance with the Contract Specific EM&A Manual, thirteen stations (6 Impact Stations, 5 Sensitive Receiver Stations and 2 Control Stations) were designated for impact water quality monitoring. The six Impact Stations (IS) were chosen on the basis of their proximity to the reclamation and thus the greatest potential for water quality impacts, the five Sensitive Receiver Stations (SR) were chosen as they are close to the key sensitive receives and the two Control Stations (CS) were chosen to facilitate comparison of the water quality of the IS stations with less influence by the Project/ ambient water quality conditions.
- 4.4.2 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.
- 4.4.3 The topographical condition of the water monitoring stations SR3(N) (Coordinate: 810525E, 816456N), SR4(N) (Coordinate: 814760E, 817867N), SR10A(N) (Coordinate: 823741E, 823495N) and SR10B(N2) (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: 823644E, 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.
- 4.4.4 Original WQM stations IS8 and SR4(N) are located within the active work area of TCNTE project and the access to the WQM stations IS8 (Coordinate: E814251, N818412) and SR4(N) (Coordinate: E814705, N817859) are blocked by the silt curtains of the Tung Chung New Town Extension (TCNTE) project. Alternative monitoring stations IS8(N) (Coordinate: E814413, N818570) and SR4(N2) (Coordinate: E814688, N817996) were proposed to replace the original monitoring stations IS8 and SR4(N). Proposal for permanently relocating the aforementioned stations was approved by EPD on 20 August 2019. The water quality monitoring has been conducted at stations IS8(N) and SR4(N2) since 21 August 2019.
- 4.4.5 The locations of water quality monitoring stations during the reporting period are summarized in **Table 4.4** and shown in **Figure 2.1**.

Monitoring	Description	Coordinates		
Stations	Description	Easting	Northing	
IS5	Impact Station (Close to HKLR construction site)	811579	817106	
IS(Mf)6	Impact Station (Close to HKLR construction site)	812101	817873	
IS7	Impact Station (Close to HKBCF construction site)	812244	818777	
IS8(N)	Impact Station (Close to HKBCF construction site)	814413	818570	
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850	
IS10(N)	Impact Station (Close to HKBCF construction site)	812942	820881	
SR3(N)	Sensitive receivers (San Tau SSSI)	810689	816591	
SR4(N2)	Sensitive receivers (Tai Ho Inlet)	814688	817996	

Table 4.4 Impact Water Quality Monitoring Stations





Monitoring	Description	Coordinates		
Stations		Easting	Northing	
SR5(N)	Sensitive Receivers (Artificial Reef in NE Airport)	812569	821475	
SR10A(N)	Sensitive receivers (Ma Wan Fish Culture Zone)	823644	823484	
SR10B(N2)	Sensitive receivers (Ma Wan Fish Culture Zone)	823689	823159	
CS2(A)	Control Station (Mid-Ebb)	805232	818606	
CS(Mf)5	Control Station (Mid-Flood)	817990	821129	

4.5 Monitoring Methodology

4.5.1 Instrumentation

- (a) The in-situ water quality parameters including dissolved oxygen, temperature, salinity and turbidity, pH were measured by multi-parameter meters.
- 4.5.2 Operating/Analytical Procedures
 - (a) Digital Differential Global Positioning Systems (DGPS) were used to ensure that the correct location was selected prior to sample collection.
 - (b) Portable, battery-operated echo sounders were used for the determination of water depth at each designated monitoring station.
 - (c) All in-situ measurements were taken at 3 water depths, 1 m below water surface, middepth and 1 m above sea bed, except where the water depth was less than 6 m, in which case the mid-depth station was omitted. Should the water depth be less than 3 m, only the mid-depth station was monitored.
 - (d) At each measurement/sampling depth, two consecutive in-situ monitoring (DO concentration and saturation, temperature, turbidity, pH, salinity) and water sample for SS. The probes were retrieved out of the water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of DO or turbidity parameters was more than 25% of the value of the first reading, the reading was discarded and further readings were taken.
 - (e) Duplicate samples from each independent sampling event were collected for SS measurement. Water samples were collected using the water samplers and the samples were stored in high-density polythene bottles. Water samples collected were well-mixed in the water sampler prior to pre-rinsing and transferring to sample bottles. Sample bottles were pre-rinsed with the same water samples. The sample bottles were then be packed in cool-boxes (cooled at 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. for the analysis of suspended solids concentrations. The laboratory determination work would be started within 24 hours after collection of the water samples. ALS Technichem (HK) Pty Ltd. is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
 - (f) The analysis method and detection limit for SS is shown in **Table 4.5**.

Parameters	Instrumentation	Analytical Method	Detection Limit
Suspended Solid (SS) Weighting		APHA 2540-D	0.5mg/L

Table 4.5 Laboratory Analysis for Suspended Solids

(g) Other relevant data were recorded, including monitoring location / position, time, water depth, tidal stages, weather conditions and any special phenomena or work underway at the construction site in the field log sheet for information.





4.5.3 Maintenance and Calibrations

(a) All in situ monitoring instruments would be calibrated by ALS Technichem (HK) Pty Ltd. before use and at 3-monthly intervals throughout all stages of the water quality monitoring programme. The procedures of performance check of sonde and testing results are provided in **Appendix C**.

4.6 Monitoring Schedule for the Reporting Month

4.6.1 The schedule for impact water quality monitoring in September 2019 is provided in **Appendix D**.

4.7 Monitoring Results

- 4.7.1 Impact water quality monitoring was conducted at all designated monitoring stations during the reporting month. Impact water quality monitoring results and relevant graphical plots are provided in **Appendix E**.
- 4.7.2 Water quality impact sources during water quality monitoring were nearby construction activities by other parties and nearby operating vessels by other parties.
- 4.7.3 For marine water quality monitoring, no Action Level and Limit Level exceedances of dissolved oxygen level and turbidity level were recorded during the reporting month. No Limit Level exceedances of suspended solid level were recorded during the reporting month.
- 4.7.4 On 30 September 2019, an Action Level exceedance of suspended solid was recorded at station IS10(N) during mid-ebb tide and an Action Level exceedance of suspended solid was recorded at station SR5(N) during mid-flood tide.
- 4.7.5 Number of exceedances recorded during the reporting month at each impact station are summarized in **Table 4.6.**





Table 4.6	Summary	of Water	Quality	Exceedances
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Station	Exceedance Level	D (S8	•	DO (Bottom)		Turk	oidity	idity SS			Total number of exceedances	
		Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	
	Action Level									0	0	
IS5	Limit Level									0	0	
10/11/10	Action Level									0	0	
IS(Mf)6	Limit Level									0	0	
IS7	Action Level									0	0	
157	Limit Level									0	0	
	Action Level	-	-							0	0	
IS8(N)	Limit Level									0	0	
	Action Level									0	0	
IS(Mf)9	Limit Level									0	0	
IS10(N)	Action Level	30 Sep 2019								1	0	
1310(14)	Limit Level									0	0	
SR3(N)	Action Level									0	0	
313(11)	Limit Level									0	0	
SR4(N2)	Action Level									0	0	
314(112)	Limit Level									0	0	
SR5(N)	Action Level	-	30 Sep 2019							0	1	
SK3(IN)	Limit Level	-	1							0	0	
SR10A(N)	Action Level									0	0	
SK IUA(III)	Limit Level	-	1							0	0	
SR10B(N2)	Action Level									0	0	
	Limit Level									0	0	
Total	Action	0	0	0	0	0	0	0	0		2**	
iotai	Limit	0	0	0	0	0	0	0	0		0**	

Notes:

S: Surface; M: Mid-depth;

The total number of exceedances

- 4.7.6 Land-based work including landscaping works at Zone 1 and Zone 3 were carried out on 30 September 2019. No wastewater was discharged from work areas of this Contract to the open water on 30 September 2019. It is also noted that exceedances were not recorded at stations IS5, IS(Mf)6 and IS7 which are located close to the site boundary of this Contract. As confirmed by the Contractor of this Contract, there were no marine based works and no marine transportation in the vicinity of stations IS10(N) and SR5(N) which are located far away the site boundary of this Contract (over 1.5 km).
- 4.7.7 Water appearance was observed clear at stations IS10(N) and SR5(N) during sampling exercise. No silt plume was observed in the vicinity of stations IS10(N) and SR5(N) during the



sampling exercise. Also, no abnormity or malpractice for the contract works was observed during the sampling exercise

- 4.7.8 There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedances of suspended solid level are considered to be attributed to other external factors such as sea condition, rather than the contract works. Therefore, the exceedances were considered as non-contract related. Records of "Notification of Environmental Quality Limit Exceedances" are provided in **Appendix N**.
- 4.7.9 The event action plan is annexed in **Appendix F**.





5 Dolphin Monitoring

5.1 Monitoring Requirements

5.1.1 Impact dolphin monitoring is required to be conducted by a qualified dolphin specialist team to evaluate whether there have been any effects on the dolphins.

5.1.2 The Action Level and Limit Level for dolphin monitoring are shown in **Table 5.1**.

Table 5.1 Action and Limit Levels for Dolphin Monitoring

	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 encounter rate of number of dolphin sightings.

- 2. ANI means guarterly encounter rate of total number of dolphins.
- 3. For North Lantau Social Cluster, AL will be trigger if either NEL or NWL fall below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.
- 5.1.3 The revised Event and Action Plan for dolphin Monitoring was approved by EPD in 6 May 2013. The revised Event and Action Plan is annexed in **Appendix F.**

5.2 Monitoring Methodology

Vessel-based Line-transect Survey

5.2.1 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 of Appendix H**) twice per month throughout the entire construction period. The co-ordinates of all transect lines are shown in **Table 5.2**. The coordinates of several starting and ending points have been revised 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, and the revised coordinates are in red and marked with an asterisk in **Table 5.2**.

	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

Table 5.2 Co-ordinates of Transect Lines





	Line No.	Easting	Northing			Line No.	Easting	Northing
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*
Not	e:	•		·			•	

Co-ordinates in red and marked with asterisk are revised co-ordinates of transect line.

- 5.2.2 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 20 years of marine mammal monitoring surveys in Hong Kong developed by HKCRP (see Hung 2017). 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.
- 5.2.3 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.
- 5.2.4 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*).
- 5.2.5 Data including time, position and vessel speed were also automatically and continuously logged by handheld GPS throughout the entire survey for subsequent review.
- 5.2.6 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.
- 5.2.7 Survey effort being conducted along the parallel transect lines that were perpendicular to the coastlines (as indicated in **Figure 1 of Appendix H**) 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.

5.2.8 Encounter rates of Chinese white dolphins (number of on-effort sightings per 100 km of survey effort and number of dolphins from all on-effort sightings 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. Only data collected under Beaufort 3 or below condition would be used for encounter rate analysis. Dolphin encounter rates were calculated using primary survey effort alone, as well as the combined survey effort from both primary and secondary lines.

Photo-identification Work

HIGHWAYS DEPARTMENT

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

- 5.2.9 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.
- 5.2.10 A professional digital camera (*Canon* EOS 7D model), 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.
- 5.2.11 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.
- 5.2.12 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).
- 5.2.13 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.

5.3 Monitoring Results

Vessel-based Line-transect Survey

- 5.3.1 During the month of September 2019, two sets of systematic line-transect vessel surveys were conducted on the 4th, 11th, 17th and 23rd to cover all transect lines in NWL and NEL survey areas twice. The survey routes of each survey day are presented in **Figures 2 to 5 of Appendix H**.
- 5.3.2 From these surveys, a total of 267.91 km of survey effort was collected with 98.8% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) (Annex I of Appendix H).
- 5.3.3 Among the two survey areas, 99.40 km and 168.51 km of survey effort were collected from NEL and NWL survey areas respectively. Moreover, the total survey effort conducted on primary lines was 193.93 km, while the effort on secondary lines was 73.98 km.
- 5.3.4 During the two sets of monitoring surveys in September 2019, two groups of five Chinese White Dolphins were sighted (**Annex II of Appendix H**). Both dolphin sightings were made in NWL, while none was sighted in NEL.





- 5.3.5 Notably, one of the two dolphin groups was sighted on primary line during on-effort search. Both dolphin groups were not associated with any operating fishing vessel (**Annex II of Appendix H**).
- 5.3.6 Distribution of the dolphin sightings made in September 2019 is shown in Figure 6 of Appendix
 H. The two dolphin groups were sighted near Black Point and to the west of Sha Chau respectively (Figure 6 of Appendix H).
- 5.3.7 During the September's surveys, encounter rates of Chinese White Dolphins deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) are shown in **Tables 5.3 and 5.4**.
- 5.3.8 The average dolphin group size in September 2019 was 2.5 individuals per group (with two groups of five animals in total), which was slightly lower than the averages in previous monitoring months. Both groups were quite small with two and three animals only respectively (Annex II of Appendix H).

		Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	Encounter rate (ANI) (no. of dolphins from all on- effort sightings per 100 km of survey effort)		
		Primary Lines Only	Primary Lines Only		
NEL	Set 1: September 4 th / 11 th	0.0	0.0		
NEL	Set 2: September 17 th / 23 rd	0.0	0.0		
	Set 1: September 4 th / 11 th	1.6	3.3		
NWL	Set 2: September 17 th / 23 rd	0.0	0.0		
Remark [.]					

Table 5.3 Individual Survey Event Encounter Rates

Remark:

1. Dolphin Encounter Rates Deduced from the Two Sets of Surveys in September 2019 in Northeast Lantau (NEL) and Northwest Lantau (NWL).

Table 5.4	Monthly		Encounter	Pates
1 able 5.4	wonung	Average	Encounter	Rales

	Encounter rate (STG)(no. of on-effort dolphin sightings per 100 km of survey effort)Primary Lines OnlyBoth Primary and Secondary Lines		(no. of dolphir	ter rate (ANI) ns from all on-effort er 100 km of survey effort)
			Primary Lines Only	Both Primary and Secondary Lines
Northeast Lantau	0.0	0.0	0.0	0.0
Northwest Lantau	0.8	1.2	1.7 3.0	

Remark:

1. Overall dolphin encounter rates (sightings per 100 km of survey effort) from the surveys conducted in September 2019 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau).

Photo-identification Work

5.3.9 Only three of the five dolphins sighted during the monitoring month were identified as known individual dolphin from the photo-identification catalogue (Annexes III and IV of Appendix H). Two of them (NL202 and NL286) were a mother-calf pair that have been sighted many times in previous monitoring surveys throughout the HKLR03 construction period.

Conclusion

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





5.4 Reference

- 5.4.1 Buckland, S. T., Anderson, D. R., Burnham, K. P., Laake, J. L., Borchers, D. L., and Thomas, L. 2001. Introduction to distance sampling: estimating abundance of biological populations. Oxford University Press, London.
- 5.4.2 Hung, S. K. 2017. Monitoring of Marine Mammals in Hong Kong waters: final report (2016-17). An unpublished report submitted to the Agriculture, Fisheries and Conservation Department, 162 pp.
- 5.4.3 Jefferson, T. A. 2000. Population biology of the Indo-Pacific hump-backed dolphin in Hong Kong waters. Wildlife Monographs 144:1-65.





6 Mudflat Monitoring

6.1 Sedimentation Rate Monitoring

<u>Methodology</u>

- 6.1.1 To avoid disturbance to the mudflat and nuisance to navigation, no fixed marker/monitoring rod was installed at the monitoring stations. A high precision Global Navigation Satellite System (GNSS) real time location fixing system (or equivalent technology) was used to locate the station in the precision of 1mm, which is reasonable under flat mudflat topography with uneven mudflat surface only at micro level. This method has been used on Agricultural Fisheries and Conservation Department's (AFCD) project, namely Baseline Ecological Monitoring Programme for the Mai Po Inner Deep Bay Ramsar Site for measurement of seabed levels.
- 6.1.2 Measurements were taken directly on the mudflat surface. The Real Time Kinematic GNSS (RTK GNSS) surveying technology was used to measure mudflat surface levels and 3D coordinates of a survey point. The RTK GNSS survey was calibrated against a reference station in the field before and after each survey. The reference station is a survey control point established by the Lands Department of the HKSAR Government or traditional land surveying methods using professional surveying instruments such as total station, level and/or geodetic The coordinates system was in HK1980 GRID system. For this contract, the GNSS. reference control station was surveyed and established by traditional land surveying methods using professional surveying instruments such as total station, level and RTK GNSS. The accuracy was down to mm level so that the reference control station has relatively higher accuracy. As the reference control station has higher accuracy, it was set as true evaluation relative to the RTK GNSS measurement. All position and height correction were adjusted and corrected to the reference control station. Reference station survey result and professional land surveying calibration is shown as Table 6.1:

Reference Station	Easting (m)	Northing (m)	Baseline reference elevation (mPD) (A)	Round 1 Survey (mPD) (B)	Calibration Adjustment (B-A)
T1	811248.660mE	816393.173mN	3.840	3.817	-0.023
T2	810806.297mE	815691.822mN	4.625	4.653	+0.028
Т3	810778.098mE	815689.918mN	4.651	4.660	+0.009
T4	810274.783mE	816689.068mN	2.637	2.709	+0.072

Table 6.1 Reference Station Survey result and GNSS RTK calibration result of Round 1

6.1.3 The precision of the measured mudflat surface level reading (vertical precision setting) was within 10 mm (standard deviation) after averaging the valid survey records of the XYZ HK1980 GRID coordinates. Each survey record at each station was computed by averaging at least three measurements that are within the above specified precision setting. Both digital data logging and written records were collected in the field. Field data on station fixing and mudflat surface measurement were recorded.

Monitoring Locations

6.1.4 Four monitoring stations were established based on the site conditions for the sedimentation monitoring and are shown in **Figure 6.1**.

Monitoring Results

6.1.5 The baseline sedimentation rate monitoring was in September 2012 and impact sedimentation rate monitoring was undertaken on 12 September 2019. The mudflat surface levels at the four established monitoring stations and the corresponding XYZ HK1980 GRID coordinates are presented in **Table 6.2 and Table 6.3**.



	Baseline Monitoring (September 2012)			Impact Mo	onitoring (Septe	ember 2019)
Monitoring Station	Easting (m)	Northing (m)	Surface Level (mPD)	Easting (m)	Northing (m)	Surface Level (mPD)
S1	810291.160	816678.727	0.950	810291.144	816678.726	1.118
S2	810958.272	815831.531	0.864	810958.295	815831.522	0.970
S3	810716.585	815953.308	1.341	810716.578	815953.313	1.486
S4	811221.433	816151.381	0.931	811221.460	816151.363	1.139

Table 6.2 Measured Mudflat Surface Level Results

Table 6.3	Comparison of measurement
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	Comparison of measurement			
Monitoring Station	Easting (m)	Northing (m)	Surface Level (mPD)	Remarks and Recommendation
S1	-0.016	-0.001	0.168	Level continuously increased
S2	0.023	-0.009	0.106	Level continuously increased
S3	-0.007	0.005	0.145	Level continuously increased
S4	0.027	-0.018	0.208	Level continuously increased

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

6.2 Water Quality Monitoring

- 6.2.1 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**.
- 6.2.2 Impact water quality monitoring in San Tau (monitoring station SR3(N)) was conducted in September 2019. The monitoring parameters included dissolved oxygen (DO), turbidity and suspended solids (SS).
- 6.2.3 The Impact monitoring results for SR3(N) were extracted and summarised below:



Date		Mid Ebb Tide		Mid Flood Tide		
DO (mg/L)	Turbidity (NTU)	SS (mg/L)	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	
02-Sep-2019	(See remark 1)	(See remark 1)	(See remark 1)	(See remark 1)	(See remark 1)	(See remark 1)
04-Sep-2019	5.9	7.4	8.0	6.3	7.2	7.8
06-Sep-2019	5.4	1.5	3.7	6.4	5.5	9.7
09-Sep-2019	10.4	2.5	4.5	6.5	4.3	9.8
11-Sep-2019	8.1	5.5	4.5	6.1	1.5	3.9
13-Sep-2019	6.9	7.4	3.7	5.9	1.8	1.9
16-Sep-2019	5.4	10.2	9.5	5.9	8.4	9.2
18-Sep-2019	5.0	7.1	9.3	5.9	9.5	8.2
20-Sep-2019	5.7	5.8	12.7	6.0	5.4	11.9
23-Sep-2019	5.8	2.5	6.3	6.2	3.5	5.2
25-Sep-2019	6.7	9.2	5.9	6.3	15.5	19.6
27-Sep-2019	6.4	6.3	10.0	6.0	4.1	6.0
30-Sep-2019	5.9	2.3	9.0	6.0	2.4	6.7
Average	6.5	5.6	7.2	6.1	5.7	8.3

Table 6.4 Impact Water Quality Monitoring Results (Depth Average)

6.3 Mudflat Ecology Monitoring Methodology

Sampling Zone

- 6.3.1 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 I). 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 I). Survey of horseshoe crabs, seagrass beds and intertidal communities were conducted in every sampling zone. The present survey was conducted in September 2019 (totally 4 sampling days on 9th, 10th, 23th and 25th September 2019).
- 6.3.2 Since the field survey of June 2016, increasing number of trashes and even big trashes (Figure 2.3 of Appendix I) were found in every sampling zone. It raised a concern about the solid waste dumping and current-driven waste issues in Tung Chung Way. Respective measures (e.g. manual clean-up) should be implemented by responsible governmental agency units.

Horseshoe Crabs

- 6.3.3 Active search method was adopted 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 hour 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 9th, 10th, 23th and 25th September 2019, which were hot and humid days.
- 6.3.4 In June 2017, a big horseshoe crab was tangled by a trash gill net in ST mudflat (**Figure 2.3 of Appendix I**). 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 units.

Seagrass Beds

6.3.5 Active search method was adopted 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 9th (for ST), 10th (for TC2), 23th (for TC1) and 25th (for TC3) September 2019 which were hot and humid days.

Intertidal Soft Shore Communities

- 6.3.6 The intertidal soft shore community surveys were conducted in low tide period on 9th (for ST), 10th (for TC2), 23th (for TC1) and 25th (for TC3) September 2019. In every sampling zone, three 100m horizontal transect lines were laid at high tidal level (H: 2.0m above C.D.), mid tidal level (M: 1.5m above C.D.) and low tidal level (L: 1.0m above C.D.). Along every horizontal transect line; ten random quadrats (0.5 m x 0.5m) were placed.
- 6.3.7 Inside a quadrat, any visible epifauna was collected and was in-situ identified to the lowest practical taxonomical resolution. Whenever possible a hand core sample (10 cm internal diameter × 20 cm depth) of sediments was collected in the quadrat. The core sample was gently washed through a sieve of mesh size 2.0 mm in-situ. Any visible infauna was collected and identified. Finally, the top 5 cm surface sediment was dug for visible infauna in the quadrat regardless of hand core sample was taken.
- 6.3.8 All collected fauna were released after recording except some tiny individuals that were too small to be identified on site. These tiny individuals were taken to laboratory for identification under dissecting microscope.
- 6.3.9 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

6.3.10 Data collected from direct counting 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'= -Σ (Ni / N) ln (Ni / N) (Shannon and Weaver, 1963) *J* = *H*' / ln S, (Pielou, 1966)

where S is the total number of species in the sample, N is the total number of individuals, and Ni is the number of individuals of the ith species.

6.4 Event and Action Plan for Mudflat Monitoring

6.4.1 In the event of the impact monitoring results indicating that the density or the distribution pattern of intertidal fauna and seagrass is found to be significant different to the baseline condition (taking into account natural fluctuation in the occurrence and distribution pattern such as due to seasonal change), appropriate actions should be taken and additional mitigation measures should be implemented as necessary. Data should then be re-assessed and the need for any further monitoring should be established. The action plan, as given in **Table 6.5** should be undertaken within a period of 1 month after a significant difference has been determined.





Table 6.5	Event and Actio	on Plan for Mudfla	t Monitoring
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Event	ET Leader	IEC	SO	Contractor
Density or the distribution pattern of horseshoe crab, seagrass or intertidal soft shore communities recorded in the impact or post- construction monitoring are significantly lower than or different from those recorded in the baseline monitoring.	Review historical data to ensure differences are as a result of natural variation or previously observed seasonal differences; Identify source(s) of impact; Inform the IEC, SO and Contractor; Check monitoring data; Discuss additional monitoring and any other measures, with the IEC and Contractor.	Discuss monitoring with the ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SO accordingly.	Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; Make agreement on the measures to be implemented.	Inform the SO and in writing; Discuss with the ET and the IEC and propose measures to the IEC and the ER; Implement the agreed measures.

Notes:

ET – Environmental Team

IEC – Independent Environmental Checker SO – Supervising Officer

6.5 Mudflat Ecology Monitoring Results and Conclusion

Horseshoe Crabs

- 6.5.1 In total of 42 and 8 individuals of *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* were found in present survey. The recorded individuals were mainly distributed along the shoreline from TC3 to ST. All of them were observed on similar substratum (fine sand or soft mud, slightly submerged). Photo records of the observed horseshoe crab are shown in Figure 3.1 of Appendix I and the present survey result regarding horseshoe crab are presented in Table 3.1 of Appendix I. The complete survey records are presented in Annex II of Appendix I.
- 6.5.2 For *Carcinoscorpius rotundicauda*, more individuals (32 ind.) were found in TC3 with average body size 37.02mm (prosomal width ranged 10.13 70.71mm). In ST, there were 9 individuals with average body size 26.81mm (prosomal width ranged 18.25 35.41mm). In TC2, only 1 individual with body size 20.32mm was found in present survey. The research record in TC3 was medium (5.33 ind. hr⁻¹ person⁻¹), while that in ST was low (1.50 ind. hr⁻¹ person⁻¹). In TC2, the research record was very low (0.25 ind. hr⁻¹ person⁻¹). No individual of horseshoe crab, *Carcinoscorpius rotundicauda*, was recorded at TC1 in present survey.
- 6.5.3 For *Tachypleus tridentatus*, 8 individuals with average body size 47.62mm (prosomal width ranged 20.52 98.14mm) were found in TC3. The research record in TC3 was low (1.33 ind. hr⁻¹. Person⁻¹), No *Tachypleus tridentatus* were found in TC1, TC2 and ST in present survey.
- 6.5.4 No mating pair or large individual (≥100mm) was found in present survey.



- 6.5.5 In the survey of March 2015, there was one important finding that a mating pair of Carcinoscorpius rotundicauda was found in ST (prosomal width: male 155.1mm, female 138.2mm). It indicated the importance of ST as a breeding ground of horseshoe crab. In June 2017, mating pairs of Carcinoscorpius rotundicauda were 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 I). In December 2017 and June 2018, one mating pair was of Carcinoscorpius rotundicauda was found in TC3 (December 2017: male 127.80 mm, female 144.61 mm; June 2018: male 139 mm, female 149 mm). In June 2019, one pair of *Tachypleus tridentatus* with large body sizes (male 150mm and Female 200mm; Male 180mm and Female 220mm) was found. Another mating pair was found in ST (male 140mm and Female 180mm). (Figure 3.2 of Appendix I) 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 (March - September) because tiny individuals (i.e. newly hatched) were usually recorded in June and September every year (Figure 3.3 of Appendix I).
- 6.5.6 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 3.4 of Appendix I). In December 2018, one large individual of *Carcinoscorpius rotundicauda* was found in TC3 (prosomal width 148.9 mm). In March 2019, 3 large individuals (prosomal width ranged 220 310mm) of *Carcinoscorpius rotundicauda* were observed in TC2. In June 2019, there were 3 and 7 large individuals of *Tachypleus tridentatus* were recorded in ST (prosomal width ranged 140 180mm) and TC3 (prosomal width ranged 150 220mm), respectively. 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.
- 6.5.7 No marked individual of horseshoe crab was recorded in the present survey. Some marked individuals were found in the previous surveys of September 2013, March 2014 and September 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 crabs population might be restored in the natural habitat. Through a personal conversation with Prof. Shin, about 100 individuals were released in the sampling zone ST on 20 June 2013. All of them were marked with color tape and internal chip detected by specific chip sensor. There should be second round of release between June and September 2014 since new marked individuals were found in the survey of September 2014
- 6.5.8 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

- 6.5.9 **Figure 3.5** and **3.6 of Appendix I** show the changes of number of individuals, mean prosomal width and search record of horseshoe crabs *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* in respectively in each sampling zone throughout the monitoring period.
- 6.5.10 To consider the entire monitoring period for TC3 and ST, medium to high search records (i.e. number of individuals) of both species (*Carcinoscorpius rotundicauda* and *Tachypleus*



tridentatus) were usually found in wet season (June and September). The search record of ST was higher from September 2012 to June 2014 while it was replaced by TC3 from September 2014 to June 2015. The search records were similar between two sampling zones from September 2015 to June 2016. In September 2016, the search record of *Carcinoscorpius rotundicauda* in ST was much higher than TC3. From March to June 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 September 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 September. One possible reason was that the serial cyclone hit decreased horseshoe crab activity (totally 4 cyclone records between June and September 2017, to be discussed in 'Seagrass survey' section). From December 2017 to September 2018, the search records of both species increased again to low-moderate level in ST. Relatively higher population fluctuation of *Tachypleus tridentatus* was observed in TC3.

- 6.5.11 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. There were occasional records of 1 to 4 individuals between March and September throughout the monitoring period. The maximum record was 6 individuals only in June 2016.
- 6.5.12 About the body size, larger individuals of *Carcinoscorpius rotundicauda* were usually found in ST and TC1 relative to that in TC3 from September 2012 to June 2017. But the body size was higher in TC3 and ST followed by TC1 from September 2017 to March 2019. For *Tachypleus tridentatus*, larger individuals were usually found in ST and TC3 followed by TC1 throughout the monitoring period. In June 2019, all found horseshoe crabs were large individuals and mating pairs. In September 2019 (present survey), the sizes of the horseshoe crabs were decrease. It is believed that the size of horseshoe crabs would be gradually rise afterward due to the stable growth of juveniles after the spawning season.
- 6.5.13 In general, it was obvious that the shoreline along 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 substratum. 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

6.5.14 Throughout the monitoring period, the search records of horseshoe crabs were fluctuated and at moderate – very low level in June (**Figures 3.5 and 3.6 of Appendix I**). Low – Very low search record was found in June 2013, totally 82 individuals of *Tachypleus tridentatus* and 0 ind. of *Carcinoscorpius rotundicauda* were found in TC1, TC3 and ST. Compare with the search record of June 2013, the numbers of *Tachypleus tridentatus* were gradually decreased in June 2014 and 2015 (55 ind. in 2014 and 18 ind. in 2015); the number of *Carcinoscorpius rotundicauda* raise to 88 and 66 individuals. in June 2014 and 2015 respectively. In June 2016, the search record increased about 3 times compare with June 2015. In total, 182 individuals of *Carcinoscorpius rotundicauda* and 47 individuals. of *Tachypleus tridentatus* were noted, respectively. Then, the search record was similar to June 2016. The number of recorded *Carcinoscorpius rotundicauda*(133 ind.) slightly dropped in June 2017. However, that of *Tachypleus tridentatus* rapidly increased (125 ind.). In June 2018, the search record was low to moderate while the numbers of *Tachypleus tridentatus* dropped sharply (39 ind.). In March 2019, 3 individuals of *Carcinoscorpius rotundicauda* were observed in TC2. However, all of them were



large individuals (prosomal width >100mm), their records are excluded from the data analysis to avoid mixing up with the juvenile population living on intertidal habitat. Throughout the monitoring period, similar distribution of horseshoe crabs population were found in March. Most of the horseshoe crabs were found in TC3 and ST.

- 6.5.15 The search record of horseshoe crab declined obviously in all sampling zones during dry season especially December (Figures 3.5 and 3.6 of Appendix I) throughout the monitoring period. Very low - low search record was found in December from 2012 to 2015 (0-4 ind. of Carcinoscorpius rotundicauda and 0-12 ind. of Tachypleus tridentatus). 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⁻¹person⁻¹ and 0.00 ind. hr⁻¹ person⁻¹ in wet season and dry season respectively (details see Li, 2008). Compare with the search record of December from 2012 to 2015, which of December 2016 were much higher relatively. There were totally 70 individuals of Carcinoscorpius rotundicauda and 24 individuals of Tachypleus tridentatus in TC3 and ST. Since the survey was carried in earlier December with warm and sunny weather (~22 °C during dawn according to Hong Kong Observatory database, Chek Lap Kok station on 5 December 2016), the horseshoe crab was more active (i.e. move onto intertidal shore during high tide for foraging and breeding) and easier to be found. 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 December). The horseshoe crab activity would decrease gradually with the colder climate. In December of 2017 and 2018, very low search records were found again as mentioned above.
- 6.5.16 From September 2012 to December 2013, *Carcinoscorpius rotundicauda* was less common species relative to *Tachypleus tridentatus*. Only 4 individuals were ever recorded in ST in December 2012. This species had ever been believed of very low density in ST hence the encounter rate was very low. In March 2014, it was found in all sampling zones with higher abundance in ST. Based on its average size (mean prosomal width 39.28-49.81 mm), it indicated that breeding and spawning of this species had occurred about 3 years ago along the coastline of Tung Chun Wan. However, these individuals were still small while their walking trails were inconspicuous. Hence there was no search record in previous sampling months. Since March 2014, more individuals were recorded due to larger size and higher activity (i.e. more conspicuous walking trail).
- 6.5.17 For Tachypleus tridentatus, sharp increase of number of individuals was recorded in ST during the wet season of 2013 (from March to September). 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 March and June 2014 and followed by a rapid decline in September 2014. Then the number of individuals fluctuated slightly in TC3 and ST until March 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 March 2014. Then it varied slightly between 35-65 mm from September 2014 to March 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 June 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. In September 2017, moderate numbers of individual were found in TC3 and ST indicating a stable population size. In September 2018, the population size was lower while natural mortality was the possible cause.
- 6.5.18 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 in 2018, the number of *Tachypleus tridentatus became* increased TC3 and ST. 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

- 6.5.19 Figure 3.7 of Appendix I shows the changes of prosomal width of *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* in TC3. As mentioned above, *Carcinoscorpius rotundicauda* was rarely found between September 2012 and December 2013 hence the data were lacking. In March 2014, the major size (50% of individual records between upper (top box) and lower quartile (bottom box)) ranged 40 60 mm while only few individuals were found. From March 2014 to September 2018, the median prosomal width (middle line of whole box) and major size (whole box) decreased after March of every year. It was due to more small individuals found in June indicating new rounds of spawning. Also, there were slight increasing trends of body size from June to March 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.
- 6.5.20 For *Tachypleus tridentatus*, the major size ranged 20-50 mm while the number of individuals fluctuated from September 2012 to June 2014. Then a slight but consistent growing trend was observed from September 2014 to June 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 March to September 2016, slight increasing trend of major size was noticed again. From December 2016 to June 2017, similar increasing trend of major size was noted with much higher number of individuals. It reflected new round of spawning. In September 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 June and September 2017 (to be discussed in the 'Seagrass survey' section). From December 2017 to September 2018, 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

- 6.5.21 Figure 3.8 of Appendix I shows the changes of prosomal width of *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* in ST. As mentioned above, *Carcinoscorpius rotundicauda* was rarely found between September 2012 and December 2013 hence the data were lacking. From March 2014 to September 2018, the size of major population decreased and more small individuals (i.e. lower whisker) were recorded after June of every year. It indicated new round of spawning. Also, there were similar increasing trends of body size from September to June of next year between 2014 and 2017. It indicated a stable growth of individuals. 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 March 2017. It reflected juveniles reaching this size would gradually migrate to sub-tidal habitats.
- 6.5.22 For *Tachypleus tridentatus*, a consistent growing trend was observed for the major population from December 2012 to December 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 March to September 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 December 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 March 2016, the prosomal width of major population ranged 50 70 mm. But it dropped clearly to 30 40 mm in September 2016 followed by an increase to 40 50 mm in December 2016, 40 70 mm in March 2017 and 50 60mm in June 2017. Based on overall higher number of small individuals from June 2016 to September 2017, it indicated another

round of spawning. From September 2017 to June 2018, the major size range increased slightly from 40 - 50 mm to 45 - 60 mm indicating a continuous growth. In September 2018, decrease of major size was noted again that might reflect new round of spawning. 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.

- 6.5.23 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. The population size was consistent 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 rounds of spawning were recorded in ST while the population size increased to a moderate level.
- 6.5.24 In March to June 2019, no horseshoe crab juveniles (prosomal width <100mm) were recorded in TC3 and ST. All recorded horseshoe crabs were large individuals (prosomal width >100mm) or mating pairs which were all excluded from the data analysis. In September 2019, the population size of both horseshoe crab species in TC3 and ST gradually increased to low moderate level while their body sizes were mostly in small to medium range (~30 50mm).

Impact of the HKLR project

6.5.25 It was the 28th survey of the EM&A programme during construction period. Based on the monitoring results, no detectable impact on horseshoe crab was revealed due to HKLR project. The population change was mainly determined by seasonal variation, no abnormal phenomenon of horseshoe crab individual, such as large number of dead individuals on the shore) had been reported.

Seagrass Beds

- 6.5.26 Only seagrass species *Halophila ovalis* was found in present survey, which was found in TC3 and ST. In ST, There were one small sized and one large sized of seagrass beds found at tidal zone 1.5 2.0 m above C.D nearby mangroves plantation. The larger rand had area ~1000 m² in high vegetation coverage (90 100%). At close vicinity, a small sized (~200 m²) of *Halophila ovalis* beds in low vegetation coverage (10-20%) were observed at tidal zone 1.5 2.0 m above C.D. In TC3, four small patches of *Halophila ovalis* were found at tidal zone 1.5 2.0 m above C.D. In TC3, four small patches had areas ~0.25 9 m² in high vegetation coverage (90 100%). Another seagrass pataches had areas ~0.25 9 m² in high vegetation coverage (90 100%). Another seagrass species *Zostera japonica* was not found in present survey. **Table 3.2** of **Appendix I** summarizes the results of present seagrass beds survey and the photograph records of the seagrass are shown on **Figure 3.9 of Appendix I**. The complete record throughout the monitoring period is presented in **Annex III of Appendix I**.
- 6.5.27 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 3.10 of Appendix I). 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 sometimes grown extensively and had 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 co-existed with Halophila ovalis nearby the mangrove strand at 2.0 m above C.D.
- 6.5.28 According to the previous results, majority of seagrass bed was confined in ST, the temporal change of both seagrass species were investigated in details:

Temporal variation of seagrass beds

6.5.29 **Figure 3.11 of Appendix** I 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 Mach 2013 that grew within the large patch of seagrass Halophila ovalis. Then, the patch size increased and merged gradually with the warmer climate from March to June





2013 (15 m²). However, the patch size decreased and remained similar from September 2013 (4 m2) to March 2014 (3 m²). In June 2014, the patch size increased obviously again (41 m²) with warmer climate followed by a decrease between September 2014 (2 m²) and December 2014 (5 m²). From March to June 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 September 2015 to June 2016, it was found coexisting with seagrass *Halophila ovalis* with steady increasing patch size (from 44 m2 to 115 m²) and variable coverage. In September 2016, the patch size decreased again to (38 m²) followed by an increase to a horizontal strand (105.4 m²) in June 2017. And it did no longer coexist with *Halophila ovalis*. Between September 2014 and June 2017, an increasing trend was noticed from September to June of next year followed by a rapid decline in September of next year. It was possibly the causes of heat stress, typhoon and stronger grazing pressure during wet season. However, such increasing trend was not found from September 2017 to September 2019 (present survey) while no patch of *Zostera japonica* was found.

- For Halophila ovalis, it was recorded as 3 4 medium to large patches (area 18.9 251.7 m²; 6.5.30 vegetation coverage 50 - 80%) beside the mangrove vegetation at tidal level 2 m above C.D. in September 2012. The total seagrass bed area grew steadily from 332.3 m² in September 2012 to 727.4 m² in December 2013. Flowers were observed in the largest patch during its flowering period. In March 2014, 31 small to medium patches were newly recorded (variable area 1 - 72m² 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 June 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 September 2014, the total seagrass area declined sharply to 1111m². 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 September 2014, there were two tropical cyclone records in Hong Kong (7th-8th) September: no cyclone name, maximum signal number 1; 14th - 17th September: Kalmaegi, maximum signal number 8SE) before the seagrass survey dated 21stSeptember 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.
- 6.5.31 In December 2014, all the seagrass patches of *Halophila ovalis* disappeared in ST. **Figure 3.12 of Appendix I** shows the difference of the original seagrass beds area nearby the mangrove vegetation at high tidal level between June 2014 and December 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

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



- 6.5.33 Prolonged light deprivation due to turbid water would be another unfavorable 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).
- In order to investigate any deterioration of water quality (e.g. more turbid) in ST, the water quality 6.5.34 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 September 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 September 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, was carried out within silt curtain as recommended in the EIA report. Moreover, there was no leakage of turbid water, abnormity or malpractice recorded during water sampling. In general, the exceedance of suspended solids concentration was considered to be attributed to other external factors, rather than the contract works.
- 6.5.35 Based on the weather condition and water quality results in ST, the co-occurrence of cyclone hit and turbid waters in September 2014 might have combined the adverse effects on *Halophila ovalis* that leaded to disappearance of this short-lived and r-strategy seagrass species. Fortunately, *Halophila ovalis* was a fast-growing species (Vermaat *et al.*, 1995). Previous studies showed that the seagrass bed could be recovered to the original sizes in 2 months through vegetative propagation after experimental clearance (Supanwanid, 1996). Moreover it was reported to recover rapidly in less than 20 days after dugong herbivory (Nakaoka and Aioi, 1999).As mentioned, the disappeared seagrass in ST in 1995 could recover gradually after the completion of reclamation works for international airport (Fong, 1998).The seagrass beds of *Halophila ovalis* might recolonize in the mudflat of ST through seed reproduction as long as there was no unfavourable condition in the coming months.

Recolonization of seagrass beds

6.5.36 **Figure 3.12 of Appendix I** shows the recolonization of seagrass bed in ST from December 2014 to June 2017. From March to June 2015, 2 - 3 small patches of *Halophila ovalis* were newly found co-inhabiting with another seagrass species *Zostera japonica*. But the total patch area of Halophila ovalis was still very low compare with previous records. The recolonization rate was low while cold weather and insufficient sunlight were possible factors between December 2014 and March 2015. Moreover, it would need to compete with seagrass *Zostera japonica* for substratum and nutrient, because *Zostera japonica* had extended and covered the original seagrass bed of Halophila ovalis at certain degree. From June 2015 to March 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 its competitor *Zostera japonica*. In June 2016, the total seagrass area increased sharply to 4707.3m². Similar to the previous records of March to June 2014, the original patch area of *Halophila ovalis* 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 September 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-selected seagrass. In December 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. The total seagrass bed decreased to 12550 m². From March to June 2017, the seagrass bed area remained generally stable (12438 - 17046.5 m²) but the vegetation coverage fluctuated (20 - 50% in March 2017 to 80-100% in June 2017). The whole recolonization process took about 2.5 years.

Second disappearance of seagrass bed

- 6.5.37 In September 2017, the whole seagrass bed of *Halophila ovalis* disappeared again along the shore of TC3 and ST (**Figure 3.12 of Appendix I**). Similar to the first disappearance of seagrass bed occurred between September and December 2014, strong water current (e.g. cyclone) or deteriorated water qualities (e.g. high turbidity) was the possible cause.
- 6.5.38 Between the survey periods of June and September 2017, there were four tropical cyclone records in Hong Kong (Merbok in 12 13th, June; 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 with highest signal 10.
- 6.5.39 According to the water quality monitoring results (July to August 2017) of the two closest monitoring stations SR3 and IS5 of the respective EM&A programme, the overall water quality was in normal fluctuation. There was an exceedance of suspended solids (SS) at SR3 on 12 July 2017. The SS concentration reached 24.7 mg/L during mid-ebb tide, which exceeded the Action Level (≤ 23.5 mg/L). But it 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.
- 6.5.40 Overall, the disappearance of seagrass beds in ST has believed the cause of serial cyclone hit in July and August 2017. Based on previous findings, the seagrass beds of both species were expected to recolonize in the mudflat as long as the vicinal water quality was normal. The whole recolonization process (from few, small patches to extensive strand) would be gradually lasting at least 2 years. From December 2017 to March 2018, there was still no recolonization of few, small patches of seagrass at the usual location (Figure 3.12 of Appendix I). It was different from the previous round (March 2015 - June 2017). Until June 2018, the new seagrass patches with small-medium size were found at the usual location (seaward side of mangrove plantation at 2.0 m C.D.) again, indicating the recolonization. However, the seagrass bed area decreased sharply to 22.5 m² in September 2018. Again, it was believed that the decrease was due to the hit of the super cyclone in September 2018 (Mangkhuton 16th September, highest signal 10). From December 2018 to June 2019, the seagrass bed area increased from 404 m² to 1229 m² while the vegetation coverage is also increased. (December 2018: 5 - 85%; March 2019: 50 -100% and June 2019: 60 - 100%). Relatively, the whole recolonization process would occur slower than the previous round (more than 2 years). In September 2019, the seagrass bed area slightly decreased to 1200 m² which was in normal fluctuation.

Impact of the HKLR project

6.5.41 It was the 28th survey of the EM&A programme during construction period. Throughout the monitoring period, the disappearance of seagrass beds was believed the cause of cyclone hits rather than impact of HKLR project. The seagrass bed was since there had been a gradual increase in the size and number from December 2018 to June 2019 after the hit of the super cyclone in September 2018. The seagrass bed area slightly decreased in September 2019 (present survey) which was in normal fluctuation.

Intertidal Soft Shore Communities

<u>Substratum</u>

6.5.42 **Table 3.3 and Figure 3.13 of Appendix I** show the substratum types along the horizontal transect at every tidal level in all sampling zones. The relative distribution of substratum types 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' (H: 90%; M: 70%) were recorded at high and mid tidal levels. Relatively higher percentages of 'Gravels and Boulders' (50%) and 'Soft mud' (40%) were recorded at low tidal level.
- In TC2, high percentages of 'Gravels and Boulders' (H: 80%; M: 60%) were recorded at high and mid tidal levels. Relatively higher percentages of 'Gravels and Boulders' (40%) and 'Soft mud' (40%) were recorded at low tidal level.
- In TC3, higher percentage of 'Gravels and Boulders' (50%) was recorded followed by 'Sand' (30%) at high tidal level. At mid tidal level, higher percentages of 'Gravels and Boulders' (40%) and 'Sand' (40%) were recorded. At low tidal level, the main substratum type was 'Gravels and Boulders' (70%).
- In ST, 'Gravels and Boulders' was the main substratum type (H:90%; M: 70%) at high tidal level and mid tidal level. At low tidal level, 'Gravels and Boulders' was the main substratum type (40%) following by 'Sand '(30%) and 'Soft Mud'(30%).
- 6.5.43 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.

Soft shore communities

- 6.5.44 **Table 3.4 of Appendix I** lists the total abundance, density and number of taxon of every phylum in this survey. A total of 11243 individuals were recorded. Mollusca was the most abundant phylum (total abundance 10594 ind, density 353 ind. m⁻², relative abundance 94.2%). The second and third abundant phya were Arthropoda (506 ind., 17 ind. m⁻², 4.5%) and Annelida (60 ind., 2 ind. m⁻², 0.4%) respectively. Relatively other phyla were very low in abundances (density <2 ind. m⁻², relative abundance ≤0.3%). Moreover, the most diverse phylum was Mollusca (40 taxa) followed by Arthropoda (9 taxa) and Annelida (7 taxa). There were 3 taxa recorded for Sipuncula and 1 taxon for other phyla.
- 6.5.45 The taxonomic resolution and complete list of recorded fauna are shown in **Annexes IV and V** of **Appendix I** respectively. As reported in June 2018, taxonomic revision of three potamidid snail species was conducted according to the latest identification key published by Agriculture, Fisheries and Conservation Department (details see AFCD, 2018), the species names of following gastropod species were revised:
 - Cerithidea cingulata was revised as Pirenella asiatica
 - Cerithidea djadjariensis was revised as Pirenella incisa
 - Cerithidea rhizophorarum was revised as Cerithidea moerchii

Moreover, taxonomic revision was conducted on another snail species while the specie name was revised:

- Batillaria bornii was revised as Clypeomorus bifasciata
- 6.5.46 Table 3.5 of Appendix I shows the number of individual, relative abundance and density of each phylum in every sampling zone. The total abundance (2030 3412 ind.) varied among the four sampling zones while the phyla distributions were similar. In general, Mollusca was the most dominant phylum (no. of individuals: 1761 3360 ind.; relative abundance 86.7 98.5%; density 235 448 ind. m⁻²). Other phyla were much lower in number of individuals. Arthropoda (28 216 ind.; 0.8 10.6%; 4 29 ind. m⁻²) and Annelida (3 -28 ind.; 0.1 1.4%; 0 4 ind. m⁻²) were common phyla relatively. Other phyla were very low in abundance in all sampling zones.

Dominant species in every sampling zone





- 6.5.47 Table 3.6 of Appendix I lists the abundant species in every sampling zone. In the present survey, most of the listed abundant species were of low to moderate densities (42-100 ind. m⁻²). Few listed species of high or very high density (>100 ind. m⁻²) were regarded as dominant species. Other listed species of lower density (<42 ind. m⁻²) were regarded as common species.
- 6.5.48 In TC1, the substratum was mainly 'Gravels and Boulders' at high and mid tidal levels. At high tidal level, the rock oyster *Saccostrea cucullata* (mean density 66 ind. m⁻²; relative abundance 23%), the gastropod *Batillaria zonalis* (44 ind. m⁻²; relative abundance 15%), *Monodonta labio* (43 ind. m⁻²; relative abundance 15%) and *Batillaria multiformis* (42 ind. m⁻²; relative abundance 14%) were of abundant species found at low-moderate densities. At mid tidal level, the rock oyster *Saccostrea cucullata* (144 ind. m⁻², 33%) was of dominant species with high density. Meanwhile, the gastropod *Monodonta labio* (62 ind. m⁻², 14%) and *Batillaria multiformis* (59 ind. m⁻², 13%) were found at moderate densities. At low tidal level (main substratum types 'Gravels and Boulders' or 'Soft mud'), the Rock oyster *Saccostrea cucullata* (186 ind. m⁻², 29%) was dominant at high density. The gastropod *Nodilittorina radiata* (108 ind. m⁻², 17%) and *Monodonta labio* (99 ind. m⁻², 16%) were abundant at moderate densities.
- 6.5.49 In TC2, the substratum types were mainly ' Gravels and Boulders' at high tidal level. Gastropods *Batillaria multiformis* (73 ind. m⁻², 20%) and *Batillaria zonalis* (47 ind. m⁻², 13%), as well as the rock oyster *Saccostrea cucullata* (60 ind. m⁻², 17%) were of abundant species at low moderate densities. At mid tidal level (major substratum type 'Gravels and Boulders'), rock oyster *Saccostrea cucullata* (94 ind. m⁻², 23%) was of dominant species at high density. Meanwhile, gastropods *Batillaria zonalis* (89 ind. m⁻², 22%) and *Monodonta labio* (66 ind. m⁻², 16%) were of abundant species at low- moderate density. Substratum types 'Gravels and Boulders; and 'Soft mud' were evenly distributed at low tidal level, rock oyster *Saccostrea cucullata* (108 ind. m⁻², 27%) and the gastropod *Monodonta labio* (60 ind. m⁻², 15%) were of abundant species at high densities.
- 6.5.50 In TC3, the substratum types were mainly 'Gravels and Boulders' at high tidal level. The rock oyster Saccostrea cucullata (86 ind. m⁻², 28%) and Batillaria multiformis (38 ind. m⁻², 12%) were of abundant species at low moderate densities. At mid tidal level, the substratum types 'Gravels and Boulders' and 'Sand' were evenly distributed. The rock oyster Saccostrea cucullata (43 ind.m⁻², 18%) was of common species, and followed by gastropod Monodonta labio (24 ind. m⁻², 10%) and Batillaria multiformis (24 ind. m⁻², 10%). Both of them were at low moderate densities. At low tidal level, the major substratum type was 'Gravels and Boulders'. There was dominated by rock oyster Saccostrea cucullata (74 ind. m⁻², 28%) and followed by two abundant species, Balanus amphitrite (31 ind. m⁻², 12%) and Lunella granulate (28 ind. m⁻², 11%), at low moderate densities.
- 6.5.51 In ST, the major substratum type was 'Gravels and Boulders' at high tidal level. At high tidal level, gastropod *Monodonta labio* (61 ind. m⁻², 47%) and the rock oyster *Saccostrea cucullata* (47 ind. m⁻², 21%) were abundant at low moderate densities. At mid tidal level, the main substratum type was 'Gravals and Boulders'. The rock oyster *Saccostrea cucullata* (80 ind.m⁻², 18%) was abundant at high density and followed by gastropods Batillaria zonalis (73 ind. m⁻², 16%) and *Monodonta labio* (62 ind. m⁻², 13%) and at low moderate densities. At low tidal level (major substratum: 'Gravals and Boulders'), rock oyster *Saccostrea cucullata* (146 ind. m⁻², 30%, attached on boulders) was dominant at high density and followed by gastropod *Monodonta labio* (65 ind. m⁻², 13%) at moderate density.
- 6.5.52 In general, there was no consistent zonation pattern of species distribution across all sampling zones and tidal levels. The species distribution was determined by the type of substratum primarily. In general, rock oyster *Saccostrea cucullate* (1706 ind.), gastropods *Monodonta labio* (861 ind.), *Batillaria multiformis* (746 ind.) were the most common species on gravel and boulders substratum. Rock oyster *Saccostrea cucullata* (518 ind.), *Monodonta labio* (244 ind.), *Batillaria multiformis* (219 ind.) were the most common species on sandy substrata.

Biodiversity and abundance of soft shore communities

6.5.53 **Table 3.7 of Appendix I** 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.

- 6.5.54 Among the sampling zones, the mean species number was similar (6 13 spp. 0.25 m⁻²) among the four sampling zones. The mean densities of TC1 (455 ind. m⁻²) was higher than ST (389 ind. m⁻²) followed by TC2 (384 ind. m⁻²) and TC3 (271 ind. m⁻²). The higher densities of TC1 and ST are due to the relatively high number of individuals in each quadrat. TC1 and TC3 were relatively higher in H' (1.90 and 1.83) and followed by TC2 (1.70) and ST (1.57). TC1, TC2 and TC3 were higher in *J* (0.80) compare with that of ST (0.77) due to their higher species number and even taxa distribution.
- 6.5.55 In the present survey, no clear trend of mean species number, mean density, *H*' and *J* observed among the tidal level.
- 6.5.56 **Figures 3.14 to 3.17 of Appendix I** 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 (December) but the mean *H*' and *J* fluctuated within a limited range.
- 6.5.57 From June to December 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 unfavorable change reflecting environmental stresses. The heat stress and serial cyclone hit were believed the causes during the wet season of 2017. From March 2018 to September 2019, 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

6.5.58 It was the 28th 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. Abnormal phenomena (e.g. rapid, consistent or non-seasonal decline of fauna densities and species number) were not recorded.

6.6 Reference

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- 6.6.2 Chan, K.K., Caley, K.J., 2003. Sandy Shores, Hong Kong Field Guides 4. The Department of Ecology & Biodiversity, The University of Hong Kong. pp 117.
- 6.6.3 Dai, A.Y., Yang, S.L., 1991. Crabs of the China Seas. China Ocean Press. Beijing.
- 6.6.4 Dong, Y.M., 1991. Fauna of ZheJiang Crustacea. Zhejiang Science and Technology Publishing House. ZheJiang.
- 6.6.5 EPD, 1997. Technical Memorandum on Environmental Impact Assessment Process (1st edition). Environmental Protection Department, HKSAR Government.
- 6.6.6 Fauchald, K., 1977. The polychaete worms. Definitions and keys to the orders, families and genera. Natural History Museum of Los Angeles County, Science Series 28. Los Angeles, U.S.A..
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- 6.6.8 Li, H.Y., 2008. The Conservation of Horseshoe Crabs in Hong Kong. MPhil Thesis, City University of Hong Kong, pp 277.





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- 6.6.10 Longstaff, B.J., Loneragan, N.R., O'Donohue, M.J., Dennison, W.C., 1999. Effects of light deprivation on the survival and recovery of the seagrass *Halophila ovalis* (R. Br.) Hook. Journal of Experimental Marine Biology and Ecology 234 (1), 1-27.
- 6.6.11 Nakaoka, M., Aioi, K., 1999. Growth of seagrass *Halophila ovalis* at dugong trails compared to existing within-patch variation in a Thailand intertidal flat. Marine Ecology Progress Series 184, 97-103.
- 6.6.12 Pielou, E.C., 1966. Shannon's formula as a measure of species diversity: its use and misuse. American Naturalist 100, 463-465.
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- 6.6.14 Qin, H., Chiu, H., Morton, B., 1998. Nursery beaches for Horseshoe Crabs in Hong Kong. In: Porcupine! No. 18. The School of Biological Sciences, The University of Hong Kong, in collaboration with Kadoorie Farm & Botanic Garden Fauna Conservation Department, p9-10.
- 6.6.15 Shannon, C.E., Weaver, W., 1963. The Mathematical Theory of Communication. Urbana: University of Illinois Press, USA.
- 6.6.16 Shin, P.K.S., Li, H.Y., Cheung, S.G., 2009. Horseshoe Crabs in Hong Kong: Current Population Status and Human Exploitation. Biology and Conservation of Horseshoe Crabs (part 2), 347-360.
- 6.6.17 Supanwanid, C., 1996. Recovery of the seagrass *Halophila ovalis* after grazing by dugong. In: Kuo, J., Philips, R.C., Walker, D.I., Kirkman, H. (eds), Seagrass biology: Proc Int workshop, Rottenest Island, Western Australia. Faculty of Science, The University of Western Australia, Nedlands, 315-318.
- 6.6.18 Vermaat, J.E., Agawin, N.S.R., Duarte, C.M., Fortes, M.D., Marba. N., Uri, J.S., 1995. Meadow maintenance, growth and productivity of a mixed Philippine seagrass bed. Marine Ecology Progress Series 124, 215-225.
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Environmental Site Inspection and Audit

7.1 Site Inspection

- 7.1.1 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 month, four site inspections were carried out on 4, 11, 18 and 27 September 2019.
- 7.1.2 A summary of observations found during the site inspections and the follow up actions taken by the Contractor are described in **Table 7.1**.

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
30 Aug 2019	 Waste was observed at S7. Chemical container without drip tray was observed at S7. Waste was observed at S7. 	 The waste was removed from S7. The chemical container was removed from S7. The waste was removed from S7. 	4 Sep 2019
4 Sep 2019	 A chemical drum without drip tray was observed at N4. A stockpile of dusty material was observed on the ground at S7. Waste was observed at LCSD Depot. 	 The chemical drum was removed at N4. The stockpile of dusty material was removed from S7. The waste was removed from LSCD Depot. 	11 Sep 2019
11 Sep 2019	 Waste was accumulated on the ground at N4. Unused water barriers were placed near a tree at N4. A chemical container was observed at LCSD Depot. 	 The waste was removed from N4. The unused water barriers were removed from N4. The chemical container was removed from LCSD Depot. 	18 Sep 2019
18 Sep 2019	 Chemical containers were observed without drip tray at N4. Stagnant water was observed on the ground at N4. Waste was observed on the ground at S7. Waste was observed on the ground at LCSD Depot. 	 The chemical containers without drip tray at N4 were removed. The stagnant water was removed at N4. The waste was removed at S7. The waste was removed at LCSD Depot. 	27 Sep 2019

Table 7.1	Summarv	of Environmental	Site Inspections
	Guilling		





Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
27 Sep 2019	 Stagnant water was observed at S7. Unused chemical container without drip tray was observed S7. Waste was observed at S15. 	to:	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.

7.1.3 Summary of Environmental Site Inspections (Landscape works) for the Contract works area described in **Table 7.2**. The landscape work for the Contract was conducted during the reporting month. The implementation of mitigation measures for landscape and visual resources recommended in the EIA Report were monitored during the reporting period. Landscape and visual mitigation measures in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor.

Table 7.2 Summary of Environmental Site Inspections (Landscape works) for the Contract works area

Date Audit	of	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
4 2019	Sep	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
18 2019	Sep	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.

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

7.2 Advice on the Solid and Liquid Waste Management Status

- 7.2.1 The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 7.2.2 Monthly summary of waste flow table is detailed in **Appendix J**.
- 7.2.3 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.

7.3 Environmental Licenses and Permits

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



7.4 Implementation Status of Environmental Mitigation Measures

- 7.4.1 In response to the site audit findings, the Contractors have rectified most of the observations as identified during environmental site inspections during the reporting month. Follow-up actions for outstanding observations will be inspected during the next site inspections.
- 7.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix M**. Most of the necessary mitigation measures were implemented properly.
- 7.4.3 Regular marine travel route for marine vessels were implemented properly in accordance to the submitted plan and relevant records were kept properly.
- 7.4.4 Dolphin Watching Plan was implemented during the reporting month. No dolphins inside the silt curtain were observed. The relevant records were kept properly.

7.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 7.5.1 For air quality, no Action and Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at stations AMS5 and AMS6 during the reporting month.
- 7.5.2 For construction noise, no Action and Limit Level exceedances were recorded at station NMS5 during the reporting month.
- 7.5.3 For marine water quality monitoring, no Action Level and Limit Level exceedances of dissolved oxygen level and turbidity level were recorded during the reporting month. No Limit Level exceedances of suspended solid level were recorded during the reporting month.
- 7.5.4 On 30 September 2019, an Action Level exceedance of suspended solid was recorded at station IS10(N) during mid-ebb tide and an Action Level exceedance of suspended solid was recorded at station SR5(N) during mid-flood tide. The exceedances of suspended solid level recorded during the reporting month were considered to be attributed to other external factors such as sea condition, rather than the contract works. Therefore, the exceedances were considered as non-contract related.

7.6 Summary of Complaints, Notification of Summons and Successful Prosecution

- 7.6.1 There was no complaint received in relation to the environmental impacts during this reporting month.
- 7.6.2 The details of cumulative statistics of Environmental Complaints are provided in **Appendix K**.
- 7.6.3 No notification of summons and prosecution was received during the reporting period. Statistics on notifications of summons and successful prosecutions are summarized in **Appendix N**.





B Future Key Issues

8.1 Construction Programme for the Coming Months

8.1.1 As informed by the Contractor, the major construction activities for October 2019 are summarized in **Table 8.1**.

Site Area	Description of Activities						
Portion X and Airport Road	Landscaping Works						
Portion X and Airport Road	E&M works						
Airport Road	Works for Diversion						
Airport Road / Airport Express Line/ East Coast Road	Establishment of Site Access						
Portion X	Finishing works for Highway Operation and Maintenance Area Building						
West Portal	Finishing Works for Scenic Hill Tunnel West Portal Ventilation Building						

Table 8.1 Construction Activities for October 2019

8.2 Environmental Monitoring Schedule for the Coming Month

8.2.1 The tentative schedule for environmental monitoring in October 2019 is provided in **Appendix D**.



9 Conclusions

9.1 Conclusions

9.1.1 The construction phase and EM&A programme of the Contract commenced on 17 October 2012. This is the eighty-fourth Monthly 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 to 30 September 2019.

Air Quality

9.1.2 For air quality, no Action Level and Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at stations AMS5 and AMS6 during the reporting month.

Noise

9.1.3 For construction noise, no Action and Limit Level exceedances were recorded at station NMS5 during the reporting month.

Water Quality

- 9.1.4 For marine water quality monitoring, no Action Level and Limit Level exceedances of dissolved oxygen level and turbidity level were recorded during the reporting month. No Limit Level exceedances of suspended solid level were recorded during the reporting month.
- 9.1.5 On 30 September 2019, an Action Level exceedance of suspended solid was recorded at station IS10(N) during mid-ebb tide and an Action Level exceedance of suspended solid was recorded at station SR5(N) during mid-flood tide. The exceedances of suspended solid level recorded during the reporting month were considered to be attributed to other external factors such as sea condition, rather than the contract works. Therefore, the exceedances were considered as non-contract related.

Dolphin

9.1.6 During the September's surveys of the Chinese White Dolphin, no adverse impact from the activities of this construction project on Chinese White Dolphins was noticeable from general observations.

Mudflat

- 9.1.7 This measurement result was generally and relatively higher than the baseline measurement at S1, S2, S3 and S4.
- 9.1.8 The September 2019 survey results indicate that the impacts of the HKLR project could not be detected on intertidal soft shore community. Based on the monitoring results, no detectable impact on horseshoe crab was revealed due to HKLR project. The population change was mainly determined by seasonal variation, no abnormal phenomenon of horseshoe crab individual, such as large number of dead individuals on the shore) had been reported. Throughout the monitoring period, the disappearance of seagrass beds was believed the cause of cyclone hits rather than impact of HKLR project. The seagrass bed was since there had been a gradual increase in the size and number from December 2018 to June 2019 after the hit of the super cyclone in September 2018. The seagrass bed area slightly decreased in September 2019 (present survey) which was in normal fluctuation.

Environmental Site Inspection and Audit

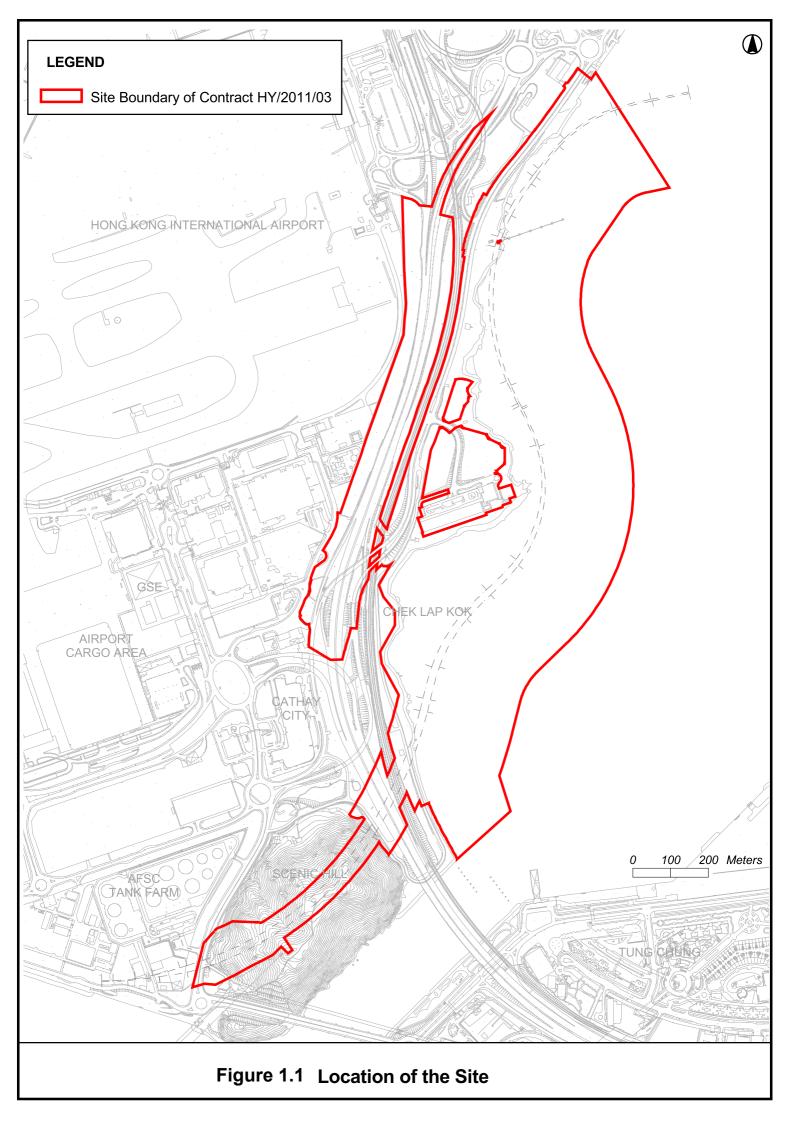
- 9.1.9 Environmental site inspections were carried out on 4, 11, 18 and 27 September 2019. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 9.1.10 There was no complaint received in relation to the environmental impact during the reporting period. No notification of summons and prosecution was received during the reporting period.

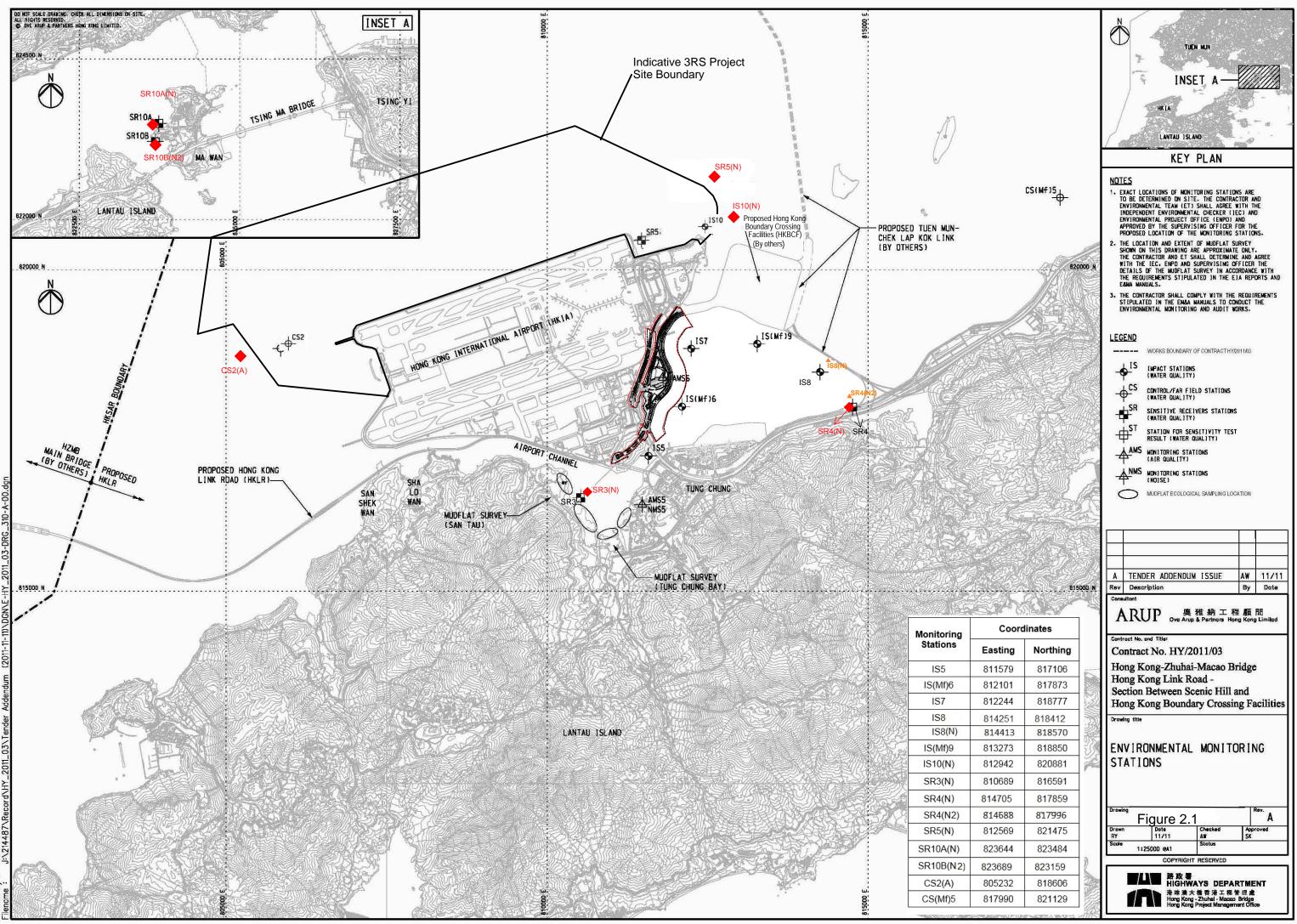




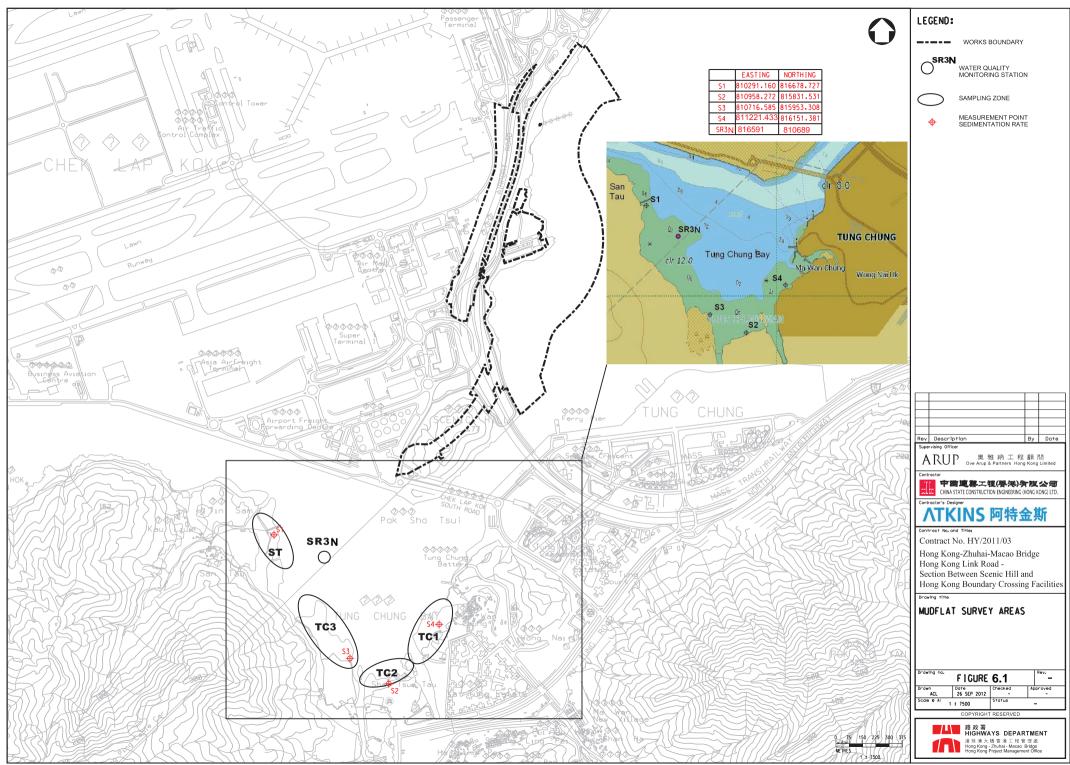
FIGURES







ted by : 10/11/2011 ----- י וייאיא פראשייליא און מזע היילים אלאפיילווייה (2011-11-11)/DGN



P:/CNHKA/Environment/Est1/ENV/PROJECT/ACL_Projects/4809 - HKLR ET Role/EP & EM&A Deliverables/Mudflat Survey/Figure/SK-600445_Reg/MQKINS ALL RIGHTS RESERVED

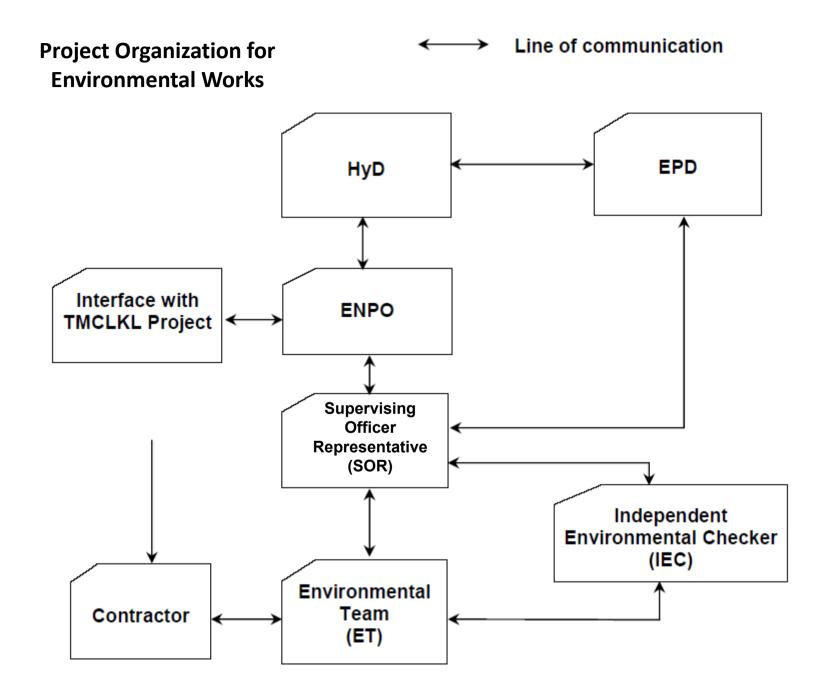
DR2XI a





Environmental Management Structure







APPENDIX B

Construction Programme





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

Construction Programme (Oct to Dec 2019)

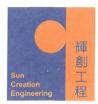
Description		Oc	-19			No	v-19			De	c-19	
Description	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4
Works for Diversion of Airport Road												
Establishment of Site Access at Airport Road / Airport Express Line / East Coast Road / Kwo Lo Wan Road												
E&M / Landscaping works for HKBCF to Airport Tunnel West (C&C T) at Airport Road												
E&M / Landscaping works for HKBCF to Airport Tunnel West (C&C T) at Portion X												
Finishing works for Highway Operation and Maintenace Area Building at Portion X												
Finishing works for Scenic Hill Tunnel West Portal Ventilation Building at West Portal												



APPENDIX C

Calibration Certificates





輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C185655 證書編號

ITEM TESTED / 送檢項	目月	(Job No. / 序引編號:IC18-1966)	Date of Receipt / 收件日期:	27 September 2018
Description / 儀器名稱	:	Integrating Sound Level Meter		
Manufacturer / 製造商	:	Brüel & Kjær		
Model No. / 型號	:	2238		
Serial No. / 編號	:	2684503		
Supplied By / 委託者	:	Atkins China Limited		
		13/F., Wharf T&T Centre, Harbour City	/,	
		Tsim Sha Tsui, Kowloon, Hong Kong		

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (50±25)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 17 October 2018

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. The results do not exceed manufacturer's specification. The results are detailed in the subsequent page(s).

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

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

Tested By 測試	:	K C/Lee Engineer			
Certified By 核證	: _	Chan Un CM H C Chan Engineer	te of Issue 發日期	1	19 October 2018

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



Certificate of Calibration 校正證書

Certificate No. : C185655 證書編號

> Certificate No. C180024 CDK1806821

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration using laboratory acoustic calibrator was performed before the test from 6.1.1.2 to 6.3.2.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID	Description
CL280	40 MHz Arbitrary Waveform Generator
CL281	Multifunction Acoustic Calibrator

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level :
- 6.1.1 Reference Sound Pressure Level
- 6.1.1.1 Before Self-calibration

	UU	Γ Setting	Applie	UUT		
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
50 - 130	L _{AFP}	A	F	94.00	1	94.1

6.1.1.2 After Self-calibration

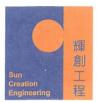
	UUT Setting				l Value	UUT	IEC 61672 Class 1
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
50 - 130	L _{AFP}	А	F	94.00	1	94.0	± 1.1

6.1.2 Linearity

UUT Setting				Applied	Value	UUT	
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	
50 - 130	L _{AFP}	A	F	94.00	1	94.0 (Ref.)	
				104.00		104.0	
			Γ	114.00] [114.0	

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

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



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C185655 證書編號

6.2 Time Weighting

	UUT	Setting		Applied Value		UUT	IEC 61672 Class 1
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Spec. (dB)
50 - 130	L _{AFP}	A	F	94.00	1	94.0	Ref.
	L _{ASP}		S			94.1	± 0.3

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT	Setting		App	ied Value	UUT	IEC 61672 Class 1
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Spec. (dB)
50 - 130	L _{AFP}	A	F	94.00	63 Hz	67.8	-26.2 ± 1.5
					125 Hz	77.8	-16.1 ± 1.5
					250 Hz	85.3	-8.6 ± 1.4
					500 Hz	90.7	-3.2 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	95.2	$+1.2 \pm 1.6$
					4 kHz	95.0	$+1.0 \pm 1.6$
					8 kHz	92.9	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.7	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

	UUT Setting				Applied Value		IEC 61672 Class 1
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
50 - 130	L _{CFP}	C	F	94.00	63 Hz	93.2	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.0	0.0 ± 1.4
					l kHz	94.0	Ref.
					2 kHz	93.8	-0.2 ± 1.6
					4 kHz	93.1	-0.8 ± 1.6
					8 kHz	90.9	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

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



Certificate of Calibration 校正證書

Certificate No. : C185655 證書編號

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2682524

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dI	3 : 63 Hz - 125 Hz 250 Hz - 500 Hz	
	1 kHz	$\pm 0.30 \text{ dB}$: $\pm 0.20 \text{ dB}$
	2 kHz - 4 kHz	= 0.20 dB $= \pm 0.35 \text{ dB}$
	8 kHz	: ± 0.45 dB
	12.5 kHz	$\pm 0.70 \text{ dB}$
104 c	IB : 1 kHz	$\pm 0.10 \text{ dB}$ (Ref. 94 dB)
114 d	IB : 1 kHz	: ± 0.10 dB (Ref. 94 dB)

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

Note :

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

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

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



Certificate of Calibration 校正證書

Certificate No. : C193865 證書編號

ITEM TESTED / 送檢項目	(Job No. / 序引編號:IC19-1433)	Date of Receipt / 收件日期:12 July 2019
Description / 儀器名稱 :	Integrating Sound Level Meter	
Manufacturer / 製造商 :	Brüel & Kjær	
Model No. / 型號 :	2238	
Serial No. / 編號 :	2800932	
Supplied By / 委託者 :	Atkins China Limited	
	13/F., Wharf T&T Centre, Harbour City	,
	Tsim Sha Tsui, Kowloon, Hong Kong	
TEST CONDITIONS / 測記	式條件	
Temperature / 溫度 : (23	3 ± 2)°C	Relative Humidity / 相對濕度 : (50 ± 25)%

TEST SPECIFICATIONS / 測試規範

Calibration check

Line Voltage / 電壓 :

DATE OF TEST / 測試日期 : 21 July 2019

TEST RESULTS / 測試結果

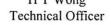
The results apply to the particular unit-under-test only. The results do not exceed manufacturer's specification. The results are detailed in the subsequent page(s).

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

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By : 測試

H T Wong



Certified By Date of Issue : 22 July 2019 核證 簽發日期 K C Lee Engineer

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



Certificate of Calibration 校正證書

Certificate No.: C193865 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration using the B & K Acoustic Calibrator 4231, S/N : 3003246 was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C190176
CL281	Multifunction Acoustic Calibrator	CDK1806821

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

	UUT	Setting		Applied Value		UUT	IEC 61672 Class 1
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
50 - 130	LAFP	Α	F	94.00	1	94.1	± 1.1

6.1.2 Linearity

	UUT	Setting		Applied	Value	UUT	
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	
50 - 130	L _{AFP}	A	F	94.00	1	94.1 (Ref.)	
				104.00] [104.1	
				114.00		114.1	

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

6.2 Time Weighting

	UUT	Setting		Applied Value		UUT	IEC 61672 Class 1
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
50 - 130	L _{AFP}	A	F	94.00	1	94.1	Ref.
	L _{ASP}		S			94.2	± 0.3

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



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C193865 證書編號

6.3 **Frequency Weighting**

6.3.1 A-Weighting

		Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
50 - 130	L _{AFP}	A	F	94.00	63 Hz	67.9	-26.2 ± 1.5
					125 Hz	77.9	-16.1 ± 1.5
					250 Hz	85.4	-8.6 ± 1.4
					500 Hz	90.8	-3.2 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	95.3	$+1.2 \pm 1.6$
					4 kHz	95.1	$+1.0 \pm 1.6$
					8 kHz	92.9	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.8	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

	UUT Setting				Applied Value		IEC 61672 Class 1
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
50 - 130	L _{CFP}	C	F	94.00	63 Hz	93.3	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.1	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.2	-0.8 ± 1.6
					8 kHz	90.9	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

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



Certificate of Calibration 校正證書

Certificate No.: C193865 證書編號

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2791360

- Mfr's Spec. : IEC 61672 Class 1			
- Uncertainties of Applied Value :	94 dB	: 63 Hz - 125 Hz 250 Hz - 500 Hz	$\pm 0.35 dB$ $\pm 0.30 dB$
		1 kHz	: ± 0.20 dB
		2 kHz - 4 kHz 8 kHz	: ± 0.35 dB : ± 0.45 dB
		12.5 kHz	: ± 0.70 dB
	104 dB	: 1 kHz	$\pm 0.10 \text{ dB}$ (Ref. 94 dB)
	114 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)

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

Note :

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

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

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



Certificate of Calibration 校正證書

Certificate No.: C193864 證書編號

ITEM TESTED / 送檢項目 Description / 儀器名稱 : Manufacturer / 製造商 : Model No. / 型號 : Serial No. / 編號 : Supplied By / 委託者 :	 (Job No. / 序引編號: IC19-1433) Acoustical Calibrator Brüel & Kjær 4231 3003246 Atkins China Limited 13/F., Wharf T&T Centre, Harbour Citt Tsim Sha Tsui, Kowloon, Hong Kong 	Date of Receipt / 收件日期:12 July 2019
TEST CONDITIONS / 測 Temperature / 溫度 : (2 Line Voltage / 電壓 :		Relative Humidity / 相對濕度 : (50 ± 25)%
TEST SPECIFICATIONS Calibration check	/ 測試規範	

TEST RESULTS / 測試結果

DATE OF TEST / 測試日期

The results apply to the particular unit-under-test only. The results do not exceed manufacturer's specification. The results are detailed in the subsequent page(s).

•

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

21 July 2019

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By 測試

:	Init.
	H T Wong
	Technical Officer

١

Certified By 核證 K C Lee Engineer

Date of Issue 簽發日期 •

22 July 2019

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



Certificate of Calibration 校正證書

Certificate No.: C193864 證書編號

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

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C193756
CL281	Multifunction Acoustic Calibrator	CDK1806821
TST150A	Measuring Amplifier	C181288

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.0		

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

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

Note :

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

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

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



Certificate of Calibration 校正證書

Certificate No.: C192571 證書編號

ITEM TESTED / 送檢項目 Description / 儀器名稱 : Manufacturer / 製造商 : Model No. / 型號 : Serial No. / 編號 : Supplied By / 委託者 :	(Job No. / 序引編號: IC19-0945) Acoustical Calibrator Brüel & Kjær 4231 3018753 Atkins China Limited 13/F., Wharf T&T Centre, Harbour Cit Tsim Sha Tsui, Kowloon, Hong Kong	Date of Receipt / 收件日期:14 May 2019 ty,
TEST CONDITIONS / 測記 Temperature / 溫度 : (2) Line Voltage / 電壓 :		Relative Humidity / 相對濕度 : (50 ± 25)%
TEST SPECIFICATIONS Calibration check	/ 測試規範	
DATE OF TEST / 測試日其	月 : 19 May 2019	
	cular unit-under-test only. anufacturer's specification. e subsequent page(s). calibration are traceable to National Star	ndards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試	:H T Wong Technical Officer			
Certified By 核證	: K¢Lee Engineer	Date of Issue 簽發日期	:	20 May 2019

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



Certificate of Calibration 校正證書

Certificate No.: C192571 證書編號

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

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C183775
CL281	Multifunction Acoustic Calibrator	CDK1806821
TST150A	Measuring Amplifier	C181288

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.0		

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

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

Note :

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

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

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

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

ENVIROTECH SERVICES CO.

		<u>Colume TSP Sampler</u> Calibration Record
Location	:	AMS5(Ma Wan Chung Village)
Calibrated by	:	P.F.Yeung
Date	:	26/08/2019
<u>Sampler</u>		
Model	:	TE-5170
Serial Number	:	S/N3640

Calibration Orifice and Star	ndard Calib	ration Relationship
Serial Number	:	2454
Service Date	:	25 February 2019
Slope (m)	:	2.07076
Intercept (b)	:	-0.02917
Correlation Coefficient(r)	:	1.00000
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1006
Ta(K)	:	303

R	esistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic	IC	Y
				meter/min)		
1	18 holes	12.0	3.424	1.667	56	55.34
2	13 holes	9.4	3.030	1.477	51	50.40
3	10 holes	7.2	2.652	1.295	46	45.46
4	7 holes	4.5	2.096	1.027	39	38.54
5	5 holes	2.8	1.654	0.813	32	31.63

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

Sampler Calibration Relationship

Slope(m):27.466 Intercept(b):9.785

Correlation Coefficient(r): 0.9991

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

Date: 29/08/2019

ENVIROTECH SERVICES CO.

			SP Sampler tion Record	
Location	:	AMS6(Dragonair Building)
Calibrated by	:	P.F.Yet		
Date	:	19/07/2	019	
<u>Sampler</u>				
Model	:	TE-517	0	
Serial Number	:	S/N363	9	
<u>Calibration Orifice</u> Serial Number	and Standard Calil :	<u>bration Rel</u> 2454	<u>ationshi</u> p	
Service Date	:	25 Febr	uary 2019	
Slope (m)		2.07076	•	
Intercept (b)	•	-0.0291	7	
Correlation Coeffic	ient(r) :	1.00000	1	
Standard Condition	<u>l</u>			
Pstd (hpa)	:	1013		
Tstd (K)	:	298.18		
Calibration Conditi	on			
Pa (hpa)	:	1001		
Ta(K)	:	304		
Resistance d	H [green liquid]	Z	X=Qstd	IC
			<i>(</i>)	1

R	lesistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic	IC	Y
				meter/min)		
1	18 holes	12.0	3.409	1.661	55	54.13
2	13 holes	9.2	2.985	1.456	50	49.21
3	10 holes	7.0	2.604	1.272	45	44.29
4	7 holes	4.6	2.111	1.033	38	37.40
5	5 holes	2.7	1.617	0.795	29	28.54

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

Sampler Calibration Relationship

Intercept(b): <u>6.199</u> Slope(m):<u>29.370</u>

Correlation Coefficient(r): 0.9962

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

Date: 22/07/2019

ENVIROTECH SERVICES CO.

	<u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>				
Location	:	AMS6 (Dragonair Building)			
Calibrated by	:	P.F.Yeung			
Date	:	10/09/2019			
Sampler					
Model	:	TE-5170			
Serial Number	:	S/N3639			
Calibration Orifice and Standa	rd Ca	libration Relationship			
Serial Number	:	2454			
Service Date	:	25 February 2019			
Slope (m)	:	2.07076			
Intercept (b)	:	-0.02917			
Correlation Coefficient(r)	:	1.00000			
Standard Condition					
Pstd (hpa)	:	1013			
Tstd (K)	:	298.18			
Calibration Condition					
Pa (hpa)	:	1007			
Ta(K)	:	306			

R	esistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1	18 holes	12.0	3.408	1.660	54	53.13
2	13 holes	9.2	2.984	1.455	50	49.20
3	10 holes	6.9	2.585	1.262	45	44.28
4	7 holes	4.7	2.133	1.044	38	37.39
5	5 holes	2.5	1.556	0.765	30	29.52

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

_

Sampler Calibration Relationship

Slope(m): <u>26.931</u>	Intercept(b): <u>9.377</u>
0.9967	

Correlation Coefficient(r):

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

Date: 10/09/2019

1S nviro				J)			CALIBRATION DUE DATE: Jary 25, 202
		tifu	cate	/			ntion	
C-1 D-1			Calibration					
	February 25 lim Tisch	, 2019	Roots	meter S/N:	438320		294 762.0	°K
Calibration N		TE-5025A	Cali	brator S/N:	2454	Pa:	762.0	mm Hg
	1040111							
	Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)	
	1	1	2	(m3)	1.4400	(mm ng) 3.2	2.00	
	2	3	4	1	1.0200	6.4	4.00	
	3	5	6	1	0.9120	7.9	5.00 5.50	
	5	9	10	1	0.7180	12.8	8.00	
Í			8	Data Tabula	tion			
	Vstd	Qstd	√∆H(<u>Pa</u> Pstc	$T \left(\frac{1310}{Ta} \right)$		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-a)		Va	(x-axis)	(y-axis)	
	1.0120	0.7028	1.42		0.9958	0.6915	0.8784	
	1.0057	1.1028	2.25	42	0.9896	1.0851	1.3889	
	1.0045	1.1546	2.36		0.9885	1.1362 1.3694	1.4567 1.7569	
	0.9992	1.5910 m=	2.05		0.9632	1.5094 m=	1.29667	
	QSTD	b=	-0.02		QA	b=	-0.01797	
		r=	1.000	000		r=	1.00000	
			10-+-11/2-+-1/2	Calculatio			2) /0-)	
		ΔVol((Pa-ΔP) Vstd/ΔTime	/Pstd)(Tstd/T	aj		ΔVol((Pa-Δl Va/ΔTime	-//Pa)	
			For subsequ	uent flow ra	te calculatio			
	Qstd=	1/m ((\\ \[\] \ H (Pa Pstd / Tstd Ta	-))-b)	Qa=	1/m ((√∆H	l(Ta/Pa))-b)	
		Conditions]				
Tstd: Pstd:	298.15 760	°K mm Hg				RECA	LIBRATION	
	ŀ	ley	110.61		10000000000000000000000000000000000000		nnual recalibratio	
ΔH: calibrato	ter manomet	er reading (i eter reading	(mm Hg)		and the second second second		Regulations Part , Reference Meth	and the second
Ta: actual ab	solute tem	perature (°K)					ended Particulat	
Par actual ba	rometric pr	ressure (mm	Hg)		th	e Atmosphe	ere, 9.2.17, page	30
b: intercept								

EQUIPMENT CALIBRATION RECORD

Type : Manufacturer / Brand : Model No.: Equipment No.: Serial No.: Sensitivity Adjustment Scale Setting :

Laser Dust Monitor				
SIBATA				
LD-5R				
LD-5R-001				
640595				
765 CPM				

Standard Equipment

Equipment :	MFC High Volume Air Sampler			
Venue :	Tung Chung Pier			
Model No.:	TE-5170 Total Suspended Particulate			
Serial No.:	S/N3641			
Previous Calibration Date:	13-Jul-2019			

Calibration Result

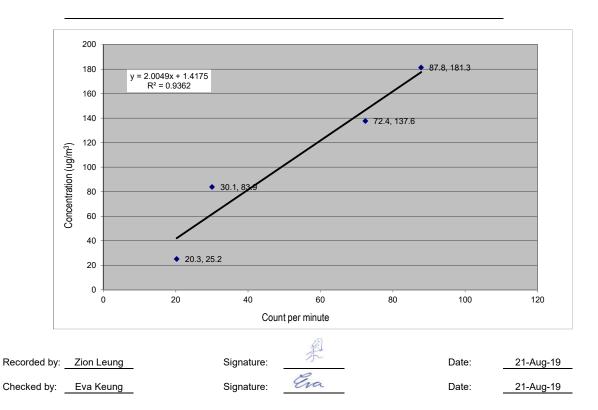
Sensitivity Adjustment Scale Setting (Before Calibration) :	764 CPM
Sensitivity Adjustment Scale Setting (After Calibration) :	764 CPM

Date (dd-mmm-yy)	lime		Ambient Condition		Concentration (ug/m ³)	Total Count	Count/Minute X-axis
			Temp (°C)	R.H. (%)	Y-axis		
08-Aug-19	09:26	09:56	30.8	74%	25.2	609	20.3
08-Aug-19	10:59	11:59	30.0	74%	83.9	1805	30.1
08-Aug-19	12:25	13:55	31.8	70%	137.6	6519	72.4
08-Aug-19	14:36	16:36	34.0	63%	181.3	10540	87.8

Be Linear Regression of Y or XSlope (K-factor):2.0049Correlation coefficient (R):0.9676

Intercept,b: 1.4175

Remark: Srong Correlation (R>0.8)



EQUIPMENT CALIBRATION RECORD

Type : Manufacturer / Brand : Model No.: Equipment No.: Serial No.: Sensitivity Adjustment Scale Setting :

Laser Dust Monitor				
SIBATA				
LD-5R				
LD-5R-002				
861988				
621 CPM				

Standard Equipment

Equipment :	MFC High Volume Air Sampler		
Venue :	Tung Chung Pier		
Model No.:	TE-5170 Total Suspended Particulate		
Serial No.:	S/N3641		
Previous Calibration Date:	13-Jul-2019		

Calibration Result

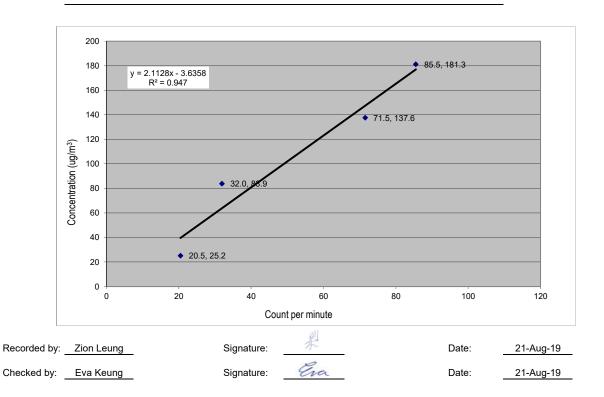
Sensitivity Adjustment Scale Setting (Before Calibration) :	620 CPM
Sensitivity Adjustment Scale Setting (After Calibration) :	620 CPM

Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m ³)	Total Count	Count/Minute X-axis
			Temp (°C)	R.H. (%)	Y-axis		
08-Aug-19	09:26	09:56	30.8	74%	25.2	614	20.5
08-Aug-19	10:59	11:59	30.0	74%	83.9	1917	32.0
08-Aug-19	12:25	13:55	31.8	70%	137.6	6437	71.5
08-Aug-19	14:36	16:36	34.0	63%	181.3	10263	85.5

Be Linear Regression of Y or XSlope (K-factor):2.1128Correlation coefficient (R):0.9732

Intercept,b: -3.6358

Remark: Srong Correlation (R>0.8)





ALS Technichem (HK) Pty Ltd 11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street, Kwai Chung N.T., Hong Kong T: +852 2610 1044 | F: +852 2610 2021

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: CLIENT:	MR MIKE SHEK AECOM ASIA COMPANY LIMITED	WORK ORDER:	HK1929390
ADDRESS:	1501-10, 15/F, TOWER 1,	SUB- BATCH:	0
	GRAND CENTRAL PLAZA,	LABORATORY:	HONG KONG
	138 SHATIN RURAL COMMITTEE ROAD,	DATE RECEIVED:	09-Jul-2019
	SHATIN, NEW TERRITORIES, HONG KONG	DATE OF ISSUE:	12-Jul-2019

COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the ALS Hong Kong laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test:	Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature
Equipment Type:	Multifunctional Meter
Brand Name:	YSI
Model No.:	6820 V2
Serial No.:	12A101545
Equipment No.:	W.026.35
Date of Calibration:	09-lul-2019

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganic

This report may not be reproduced except with prior written approval from ALS Technichem (HK) Pty Ltd.

WORK ORDER: HK1929390

SUB- BATCH:	0
DATE OF ISSUE:	12-Jul-2019
CLIENT:	AECOM ASIA COMPANY LIMITED

Equipment Type:	Multifunctional Meter		
Brand Name:	YSI		
Model No.:	6820 V2		
Serial No.:	12A101545		
Equipment No.:	W.026.35		
Date of Calibration:	09-Jul-2019	Date of Next Calibration:	09-Oct-2019

PARAMETERS: Conductivity

Method Ref: APHA (21st edition), 2510B

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	148.0	+0.7
6667	6630	-0.6
12890	12800	-0.7
58670	58500	-0.3
	Tolerance Limit (%)	±10.0

Dissolved Oxygen

Method Ref: APHA (21st edition), 4500- O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.40	3.36	-0.04
5.50	5.47	-0.03
7.40	7.41	+0.01
	Tolerance Limit (mg/L)	±0.20

pH Value

Method Ref: APHA (21st edition), 4500H:B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.03	+0.03
7.0	7.03	+0.03
10.0	10.04	+0.04
	Tolerance Limit (pH unit)	±0.20

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

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Ms. Lin Wai Yu, Iris Assistant Manager - Inorganic

WORK ORDER: HK1929390

SUB- BATCH:	0
DATE OF ISSUE:	12-Jul-2019
CLIENT:	AECOM ASIA COMPANY LIMITED

Equipment Type:	Multifunctional Meter		
Brand Name:	YSI		
Model No.:	6820 V2		
Serial No.:	12A101545		
Equipment No.:	W.026.35		
Date of Calibration:	09-Jul-2019	Date of Next Calibration:	09-Oct-2019

PARAMETERS: Turbidity

4

Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	3.9	-2.5
10	9.5	-5.0
20	19.2	-4.0
50	49.1	-1.8
100	99.3	-0.7
	Tolerance Limit (%)	±10.0

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	
10	10.08	+0.8
20	19.93	-0.4
30	29.91	-0.3
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

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Ms. Lin Wai Yu, Iris Assistant Manager - Inorganic



WORK ORDER:	HK1929390			ALS
SUB- BATCH: DATE OF ISSUE: CLIENT:	0 12-Jul-2019 AECOM ASIA COMPANY LIMITE	Đ		
Equipment Type: Brand Name: Model No.: Serial No.: Equipment No.:	Multifunctional Meter YSI 6820 V2 12A101545 W.026.35			
Date of Calibration:	09-Jul-2019	Date of Next Calibration:	09-Oct-2019	

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	10.94	+0.9
20.0	19.93	-0.1
40.0	39.89	-0.1
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: CLIENT:	MR MIKE SHEK AECOM ASIA COMPANY LIMITED	WORK ORDER:	HK1933819
ADDRESS:	1501-10, 15/F, TOWER 1,	SUB- BATCH:	0
	GRAND CENTRAL PLAZA,	LABORATORY:	HONG KONG
	138 SHATIN RURAL COMMITTEE ROAD,	DATE RECEIVED:	08-Aug-2019
	SHATIN, NEW TERRITORIES, HONG KONG	DATE OF ISSUE:	14-Aug-2019

COMMENTS

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client. The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the ALS Hong Kong laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test:Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and TemperatureEquipment Type:Multifunctional MeterBrand Name/ Model No.:6820 V2Serial No./ Equipment No.:00H1019/ W.026.09Date of Calibration:08-Aug-2019

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganic

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WORK ORDER: HK1933819

SUB- BATCH:	0
DATE OF ISSUE:	14-Aug-2019
CLIENT:	AECOM ASIA COMPANY LIMITED

Equipment Type:	Multifunctional Meter
Brand Name/	6820 V2
Model No.:	
Serial No./	00H1019/W.026.09
Equipment No.:	
Date of Calibration:	08-Aug-2019

Date of Next Calibration:

08-Nov-2019

PARAMETERS: Conductivity

Method Ref: APHA (21st edition), 2510B

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	145.0	-1.3
6667	6600	-1.0
12890	12680	-1.6
58670	58500	-0.3
	Tolerance Limit (%)	±10.0

Dissolved Oxygen

Method Ref: APHA (21st edition), 4500- O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.40	3.37	-0.03
5.45	5.41	-0.04
7.50	7.47	-0.03
	Tolerance Limit (mg/L)	±0.20

pH Value

Method Ref: APHA (21st edition), 4500H:B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)				
4.0	4.01	+0.01				
7.0	7.04	+0.04				
10.0	9.98	-0.02				
	Tolerance Limit (pH unit)	±0.20				

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

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ALS

WORK ORDER: HK1933819

SUB- BATCH:	0
DATE OF ISSUE:	14-Aug-2019
CLIENT:	AECOM ASIA COMPANY LIMITED

Equipment Type:	Multifunctional Meter
Brand Name/	6820 V2
Model No.:	
Serial No./	00H1019/W.026.09
Equipment No.:	
Date of Calibration:	08-Aug-2019

Date of Next Calibration:

08-Nov-2019

PARAMETERS:

Turbidity

Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	4.1	+2.5
10	9.8	-2.0
20	19.2	-4.0
50	49.3	-1.4
100	99.0	-1.0
	Tolerance Limit (%)	±10.0

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)				
0	0.00					
10	9.89	-1.1				
20	19.87	-0.6				
30	29.60	-1.3				
	Tolerance Limit (%)	±10.0				

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

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SUB- BATCH: 0 DATE OF ISSUE: 14-Aug-2019 CLIENT: AECOM ASIA COMPANY LIMITED Equipment Type: Multifunctional Meter Brand Name/ 6820 V2 Model No.: Serial No./ 00H1019/W.026.09 Equipment No.: Date of Calibration: 08-Aug-2019 Date of Next Calibration: 08-Nov-2019 PARAMETERS: Temperature

WORK ORDER:

HK1933819

Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	10.02	+0.0
20.5	20.37	-0.1
38.0	37.89	-0.1
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

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APPENDIX D

Monitoring Schedule





Monitoring Schedule for September 2019

Date							1-Sep
.							
Date	2-Sep	3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep
.		AMS5/AMS6 - 24hr Dust	AMS5-1hr Dust, NMS5,				
			AMS6-1hr Dust				
.			1 st Dolphin Monitoring				
	Water Quality Monitoring (See		Water Quality Monitoring		Water Quality Monitoring		
	Remark 1)						
Date	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep
	AMS5/AMS6 - 24hr Dust	AMS5-1hr Dust, NMS5,			AMS5/AMS6 - 24hr Dust		
	Mudflet Menitering	AMS6-1hr Dust					
.	Mudflat Monitoring	Mudflat Monitoring (See Remark 3)					
.				Sedimentation Rate monitoring			
.			1 st Dolphin Monitoring				
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring		
Date	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep
	AMS5-1hr Dust, NMS5,			AMS5/AMS6 - 24hr Dust	AMS5-1hr Dust,		
.	AMS6-1hr Dust	and a second			AMS6-1hr Dust		
		2 nd Dolphin Monitoring (See Remark 2)					
	Water Quality Monitoring	Remark 2)	Water Quality Monitoring		Water Quality Monitoring		
					Water Quality Monitoring		
Date	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep
	Mudflat Monitoring		AMS5/AMS6 - 24hr Dust	AMS5-1hr Dust, NMS5,			
	(See Remark 3)		Mudflat Monitoring (See Remark 3)	AMS6-1hr Dust			
	2 nd Dolphin Monitoring (See		(See Remark S)				
' I	Remark 2)						
	Remark 2) Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring		
Date	Remark 2)		Water Quality Monitoring		Water Quality Monitoring		
Date	Remark 2) Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring		
Date	Remark 2) Water Quality Monitoring 30-Sep		Water Quality Monitoring		Water Quality Monitoring		

Remark:

1) The water quality monitoring for both ebb and flood tides on 2 September 2019 were cancelled due to safety reasons (hoisting of Strong Wind Signal, No. 3 /Standby Signal No.1) and no substitute monitoring was conducted.

2) Due to boat unavailability on 16, 25 September 2019, the dolphin monitoring on 16 September 2019 was rescheduled to 17 September 2019; and the dolphin monitoring on 25 September 2019 was rescheduled to 23 September 2019. 3) Due to weather condition and manpower allocation, the mudflat monitoring on 11, 12, 13 September 2019 were rescheduled to 10, 23, 25 September 2019.

Monitoring Schedule for October 2019

Date		1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct
			AMS5-1hr Dust, NMS5, AMS6-1hr Dust			AMS5/AMS6 - 24hr Dust	
Date	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct
		AMS5-1hr Dust, <mark>NMS5,</mark> AMS6-1hr Dust			AMS5/AMS6 - 24hr Dust		
Date	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct
	AMS5-1hr Dust, <mark>NMS5,</mark> AMS6-1hr Dust			AMS5/AMS6 - 24hr Dust	AMS5-1hr Dust, AMS6-1hr Dust		
Date	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct
			AMS5/AMS6 - 24hr Dust	AMS5-1hr Dust, <mark>NMS5,</mark> AMS6-1hr Dust			
Date	28-Oct	29-Oct		31-Oct			
		AMS5/AMS6 - 24hr Dust	AMS5-1hr Dust, <mark>NMS5,</mark> AMS6-1hr Dust				

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc.).



APPENDIX E

Monitoring Data and Graphical Plots





Air Quality Monitoring Data

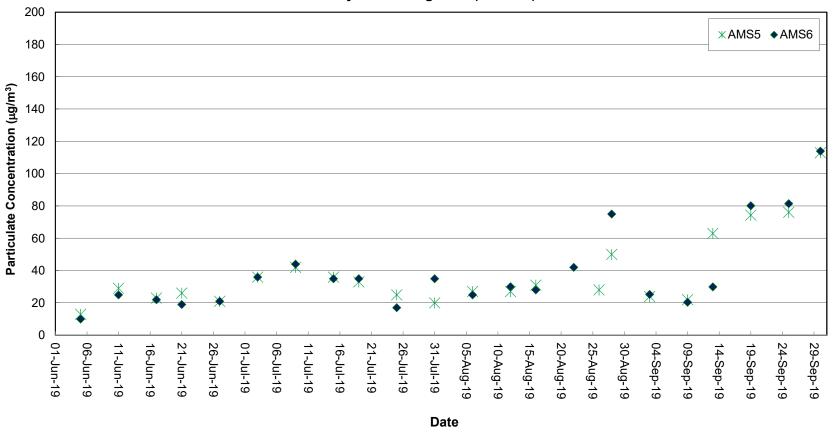
Project	Works	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
HKLR	HY/2011/03	2019-09-04	AMS5	09:00	1-hr TSP	12	µg/m ³
HKLR	HY/2011/03	2019-09-04	AMS5	10:00	1-hr TSP	11	μg/m ³
HKLR	HY/2011/03	2019-09-04	AMS5	11:00	1-hr TSP	12	μg/m ³
HKLR	HY/2011/03	2019-09-10	AMS5	13:00	1-hr TSP	9	μg/m ³
HKLR	HY/2011/03	2019-09-10	AMS5	14:00	1-hr TSP	9	μg/m ³
HKLR	HY/2011/03	2019-09-10	AMS5	15:00	1-hr TSP	8	μg/m ³
HKLR	HY/2011/03	2019-09-16	AMS5	08:45	1-hr TSP	67	μg/m ³
HKLR	HY/2011/03	2019-09-16	AMS5	09:45	1-hr TSP	51	μg/m ³
HKLR	HY/2011/03	2019-09-16	AMS5	10:45	1-hr TSP	56	μg/m ³
HKLR	HY/2011/03	2019-09-20	AMS5	10:40	1-hr TSP	57	μg/m ³
HKLR	HY/2011/03	2019-09-20	AMS5	11:00	1-hr TSP	44	μg/m ³
HKLR	HY/2011/03	2019-09-20	AMS5	12:00	1-hr TSP	33	μg/m μg/m ³
					1-hr TSP	48	
HKLR	HY/2011/03	2019-09-26	AMS5	09:00	1-hr TSP		µg/m ³
HKLR	HY/2011/03	2019-09-26	AMS5	10:00		48	µg/m ³
HKLR	HY/2011/03	2019-09-26	AMS5	11:00	1-hr TSP	54	µg/m ³
HKLR	HY/2011/03	2019-09-03	AMS5	08:00	24-hr TSP	24	μg/m ³
HKLR	HY/2011/03	2019-09-09	AMS5	08:00	24-hr TSP	22	µg/m ³
HKLR	HY/2011/03	2019-09-13	AMS5	08:00	24-hr TSP	63	µg/m ³
HKLR	HY/2011/03	2019-09-19	AMS5	08:00	24-hr TSP	74	µg/m ³
HKLR	HY/2011/03	2019-09-25	AMS5	08:00	24-hr TSP	76	µg/m ³
HKLR	HY/2011/03	2019-09-30	AMS5	08:00	24-hr TSP	113	µg/m ³
HKLR	HY/2011/03	2019-09-04	AMS6	13:00	1-hr TSP	12	µg/m ³
HKLR	HY/2011/03	2019-09-04	AMS6	14:00	1-hr TSP	13	µg/m ³
HKLR	HY/2011/03	2019-09-04	AMS6	15:00	1-hr TSP	14	µg/m ³
HKLR	HY/2011/03	2019-09-10	AMS6	09:00	1-hr TSP	12	µg/m ³
HKLR	HY/2011/03	2019-09-10	AMS6	10:00	1-hr TSP	11	µg/m ³
HKLR	HY/2011/03	2019-09-10	AMS6	11:00	1-hr TSP	13	µg/m ³
HKLR	HY/2011/03	2019-09-10	AMS6	09:00	1-hr TSP	12	µg/m ³
HKLR	HY/2011/03	2019-09-10	AMS6	10:00	1-hr TSP	11	µg/m³
HKLR	HY/2011/03	2019-09-10	AMS6	11:00	1-hr TSP	13	µg/m³
HKLR	HY/2011/03	2019-09-16	AMS6	13:04	1-hr TSP	48	µg/m³
HKLR	HY/2011/03	2019-09-16	AMS6	14:04	1-hr TSP	50	µg/m³
HKLR	HY/2011/03	2019-09-16	AMS6	15:04	1-hr TSP	52	µg/m ³
HKLR	HY/2011/03	2019-09-20	AMS6	14:35	1-hr TSP	32	µg/m³
HKLR	HY/2011/03	2019-09-20	AMS6	15:35	1-hr TSP	28	µg/m ³
HKLR	HY/2011/03	2019-09-20	AMS6	16:35	1-hr TSP	25	µg/m ³
HKLR	HY/2011/03	2019-09-26	AMS6	13:00	1-hr TSP	84	µg/m ³
HKLR	HY/2011/03	2019-09-26	AMS6	14:00	1-hr TSP	77	µg/m ³
HKLR	HY/2011/03	2019-09-26	AMS6	15:00	1-hr TSP	57	µg/m ³
HKLR	HY/2011/03	2019-09-03	AMS6	08:00	24-hr TSP	25	µg/m ³
HKLR	HY/2011/03	2019-09-09	AMS6	08:00	24-hr TSP	20	µg/m ³
HKLR	HY/2011/03	2019-09-13	AMS6	08:00	24-hr TSP	30	µg/m ³
HKLR	HY/2011/03	2019-09-19	AMS6	08:00	24-hr TSP	80	µg/m ³
HKLR	HY/2011/03	2019-09-25	AMS6	08:00	24-hr TSP	81	µg/m ³
HKLR	HY/2011/03	2019-09-30	AMS6	08:00	24-hr TSP	114	µg/m ³

400 375 ★AMS5 ◆AMS6 350 325 300 275 Particulate Concentration ($\mu g/m^3$) 250 225 200 Ж 175 150 125 100 75 ¥ ⋇ ¥ Ӂ 50 ¥ * * X ₩ 💥 漸 Ӂ ¥ Ж ¥ ₩ Ж 25 ☀ Ж * 0 21-Jun-19 01-Jul-19 06-Jul-19 11-Jul-19 26-Jul-19 31-Jul-19 20-Aug-19 09-Sep-19 19-Sep-19 24-Sep-19 16-Jun-19 26-Jun-19 16-Jul-19 10-Aug-19 15-Aug-19 04-Sep-19 01-Jun-19 21-Jul-19 05-Aug-19 30-Aug-19 25-Aug-19 29-Sep-19 06-Jun-19 11-Jun-19 14-Sep-19

Date

Air Quality Monitoring Data (1-hour)

Graphical Plot of 1-hour TSP at AMS5 and AMS6



Air Quality Monitoring Data (24-hour)

Remark:

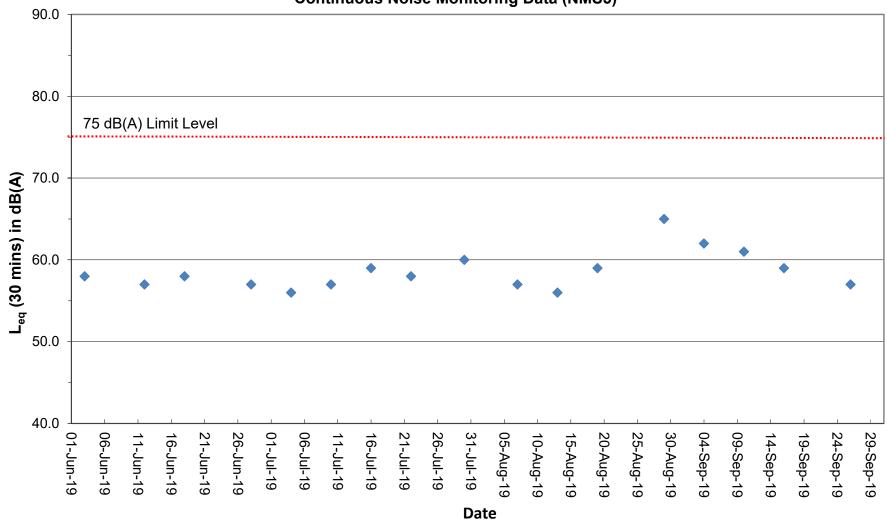
1) Due to malfunction of the high volume sampler (HVS), monitoring time for 24-hr TSP monitoring on 22 August 2019 at AMS5 (Ma Wan Chung Village) was less than 24 hours. The 24-hr TSP monitoring on 22 August 2019 at AMS5 was rescheduled to 26 August 2019.

Project	Works	Date (yyyy-mm-dd)	Station	Start Time	Wind Speed, m/s	1st s	et 5mins	2nd	set 5mins	3rd s	et 5mins	4th s	et 5mins	5th s	set 5mins	6th	set 5mins	Over	rall (30mins)*	Unit			
						Leq:	59.1	Leq:	60.4	Leq:	59.2	Leq:	59.0	Leq:	58.4	Leq:	59.4	Leq:	62				
HKLR	HY/2011/03	2019-09-04	NMS5	14:25	<5	L10:	60.5	L10:	62.0	L10:	60.0	L10:	60.5	L10:	60.0	L10:	61.5	L10:	64	dB(A)			
						L90:	56.5	L90:	58.0	L90:	58.0	L90:	57.5	L90:	56.5	L90:	57.0	L90:	60				
						Leq:	59.4	Leq:	59.9	Leq:	57.1	Leq:	56.9	Leq:	57.6	Leq:	57.0	Leq:	61				
HKLR	HY/2011/03	2019-09-10	NMS5	13:36	<5	L10:	60.5	L10:	59.5	L10:	57.0	L10:	57.0	L10:	58.5	L10:	57.5	L10:	62	dB(A)			
									L90:	56.5	L90:	56.0	L90:	56.0	L90:	56.5	L90:	56.5	L90:	56.0	L90:	59	
							Leq:	56.9	Leq:	58.8	Leq:	55.7	Leq:	55.4	Leq:	55.1	Leq:	54.3	Leq:	59			
HKLR	HY/2011/03	2019-09-16	NMS5	09:07	<5	L10:	59.0	L10:	61.5	L10:	58.0	L10:	58.0	L10:	57.0	L10:	56.0	L10:	62	dB(A)			
						L90:	51.0	L90:	51.5	L90:	51.5	L90:	51.0	L90:	52.0	L90:	51.5	L90:	54				
						Leq:	54.7	Leq:	54.0	Leq:	54.4	Leq:	53.0	Leq:	53.3	Leq:	52.5	Leq:	57				
HKLR	HY/2011/03	2019-09-26	NMS5	09:20	<5	L10:	57.5	L10:	57.0	L10:	57.5	L10:	55.0	L10:	55.0	L10:	55.5	L10:	59	dB(A)			
						L90:	50.0	L90:	50.0	L90:	50.0	L90:	50.0	L90:	50.0	L90:	49.0	L90:	53				

Remark:

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

Graphical Plot of Noise Levels at NMS5



Continuous Noise Monitoring Data (NMS5)

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

HHKB HY/2011/03 2019-09-44 Md-Ebb Cloudy ISS 1.318 1.0 Surface 1 2.685 8.30 2.5.88 2.84 2.5.4 1.1 HKB HY/2011/03 2019-09-04 Md-Ebb Cloudy ISS 1.5.17 4.2 Middle 2 2.6.79 8.28 2.5.47 8.28 2.5.68 8.49 HKB HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISS 1.5.18 7.3 Bottom 3 1 2.6.78 8.28 2.7.04 8.83 HKB HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISS 1.5.18 7.3 Bottom 3 1 2.6.80 8.20 2.5.17 8.14 HKR HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISM/HP 1.5.28 2.2 Bottom 3 1 2.6.16 8.3.6 2.5.17 8.4.8 HKR HY/2011/03 2019-044 Mid-Ebb Cloudy ISM/HP	roject	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HHKB HY/2011/03 2019/09 44 Mid-Ebb Cloudy 95 15:17 4.2 Middle 2 1 26:77 8.30 26.88 96.6 HKB HY/2011/03 2019/09 44 MidE Ebb Cloudy 955 15:18 7.3 Bottom 3 1 26:78 8.38 27:04 833 HKB HY/2011/03 2019/09 44 MidE Ebb Cloudy 15:17 7.3 Bottom 3 2 26:50 8.35 25:57 81.4 HKB HY/2011/03 2019/09 44 MidE Ebb Cloudy ISIMT 15:27 2.0 Bottom 3 1 26:91 8.36 25:37 84.2 HKB HY/2011/03 2019/09 44 MidE Ebb Cloudy IST 1 27:22 Bottom 3 1 27:12 8.44 25:00 89.2 HKB HY/2011/03 2019/09 44 Mide Ebb Cloudy IST 15:35 1.0 Surface 1	HKLR	HY/2011/03	2019-09-04	Mid-Ebb	Cloudy	IS5	15:18	1.0	Surface	1	1	26.86	8.30	25.68	89.4	6.15	6.5	11.2
HHKR HY/2011/03 2019 09 04 Mid Ebb Cloudy 153 1518 4.2 Mide 2 26.79 8.28 25.00 84.9 HKR HY/2011/03 2019 09 04 Mid Ebb Cloudy 155 1517 7.3 Bottom 3 1 26.78 8.38 27.04 8.89 HKR HY/2011/03 2019 09 04 Mid-Ebb Cloudy IS/Miffs 15.28 1.0 Surface 1 26.92 8.26 25.17 8.44 HKR HY/2011/03 2019 09 04 Mid-Ebb Cloudy IS/Miffs 15.28 2.2 Bottom 3 1 26.86 8.28 25.38 88.2 HKR HY/2011/03 2019 09 44 Mid-Ebb Cloudy IS7 15.38 1.0 Surface 1 27.22 8.44 25.00 88.1 HKR HY/2011/03 2019 09 44 Mid-Ebb Cloudy IS7 15.38 2.0 Bottom 3 1 27.18 <td>HKLR</td> <td>HY/2011/03</td> <td>2019-09-04</td> <td>Mid-Ebb</td> <td>Cloudy</td> <td></td> <td>15:18</td> <td>1.0</td> <td>Surface</td> <td>1</td> <td>2</td> <td></td> <td>8.28</td> <td>25.47</td> <td>91.1</td> <td>6.26</td> <td>6.5</td> <td>10.4</td>	HKLR	HY/2011/03	2019-09-04	Mid-Ebb	Cloudy		15:18	1.0	Surface	1	2		8.28	25.47	91.1	6.26	6.5	10.4
HKIR HY/2011/03 2019 09 44 Mid Ebb Cloudy ISS ISS TS Bottom 3 1 26.78 8.28 27.04 83.39 HKIR HY/2011/03 2019 09 64 Mid Ebb Cloudy ISS ISS 1.0 Surface 1 1 26.90 8.30 Z6.56 84.8 HKIR HY/2011/03 2019 09 64 Mid Ebb Cloudy ISIMf ISS 2.2 Bottom 3 1 26.91 8.26 2.5.16 84.8 HKIR HY/2011/03 2019 09 64 Mid Ebb Cloudy ISIMf ISS 1.0 Surface 1 2 7.24 8.27 2.48 2.5 0 83.0 1.6 3.1 27.12 8.44 2.5.00 88.1 HKIR HY/2011/03 2019 09 44 Mid Ebb Cloudy IS7 15.33 1.0 Surface 1 2 8.42 2.5.00 88.1 HKIR HY/2011/03 2019 09 4	HKLR	HY/2011/03	2019-09-04	Mid-Ebb	Cloudy		15:17	4.2	Middle					26.88	86.6	5.99	6.4	8.5
HHLR HY/2011/03 2019-99-04 Mid-Ebb Cloudy ISS 15:1 7.3 Borton 3 2 26.80 8.30 26.96 94.4 HHLR HY/2011/03 2019-99-04 Mid-Ebb Cloudy ISIMP6 152.8 10 Surface 1 2 26.92 8.26 25.17 81.4 HHLR HY/2011/03 2019-99-04 Mid-Ebb Cloudy ISIMP6 15.28 2.2 Bottom 3 2 26.86 82.8 25.17 84.2 HHLR HY/2011/03 2019-99-04 Mid-Ebb Cloudy 157 15.35 10 Surface 1 2 27.22 82.4 25.10 89.0 HHLR HY/2011/03 2019-90-44 Mid-Ebb Cloudy 157 15.35 10 Surface 1 2 77.33 82.6 25.10 98.0 HKR HY/2011/03 2019-90-44 Mid-Ebb Cloudy 157 15.35 2.0 Bottom									Middle							5.80	6.3	8.9
HHKB HY/2011/03 2019-99-44 Mid-Ebb Cloudy ISMM6 1527 1.0 Surface 1 2 26.91 8.26 25.16 84.6 HKB HY/2011/03 2019-99-44 Mid-Ebb Cloudy ISMM6 1527 1.0 Surface 1 2 76.98 8.26 25.16 84.6 HKB HY/2011/03 2019-99-44 Mid-Ebb Cloudy 157 15.35 1.0 Surface 1 1 277.28 82.5 22.89 98.2 HKB HY/2011/03 2019-99-44 Mid-Ebb Cloudy 157 15.35 2.0 Botom 3 1 277.12 8.24 25.10 98.0 HKR HY/2011/03 2019-99-44 Mid-Ebb Cloudy 157 15.35 2.0 Botom 3 1 27.13 8.26 28.97 94.3 HKR HY/2011/03 2019-99-44 Mid-Ebb Cloudy IS8N 160.33 10 Surface	HKLR		2019-09-04	Mid-Ebb	Cloudy				Bottom							5.77	6.5	8.3
HHLR HY/2011/03 2019-09-4 Mid Ebb Cloudy ISM/f6 15:27 1.0 Surface 1 2.6 2.6 2.5.1 8.42 HHLR HY/2011/03 2019-09-4 Mid Ebb Cloudy ISM/f6 15:27 2.2 Bottom 3 2 2.6.6 8.28 2.5.27 8.22 8.2.8 2.5.28 8.2.8 2.5.28 8.2.8 2.5.28 8.2.8 2.5.28 8.2.8 2.5.28 8.2.8 2.5.28 8.2.8 2.5.28 8.2.8 2.5.28 8.2.8 2.5.28 8.2.8 2.5.29 8.2.8 2.5.29 8.2.8 2.5.00 8.8.1 8.3.0 9.3.1 1.5.3 1.0 Surface 1 2.2 2.7.1 8.2.6 2.5.15 9.1.9 1.6.3 1.0 Surface 1 2.6 2.8.2 2.4.50 9.3.7 1.4.3 1.0 Surface 1 2.5.18 8.2.6 2.5.15 9.3.2 1.4.4.50 1.0 Surface 1 2.2.5.18 8.2.6					Cloudy				Bottom		2					5.83	6.6	7.5
HHKB HY/2011/03 2019-09-4 Mid-Ebb Cloudy S[M/R6 15:28 2.2 Bettom 3 1 26:31 8:26 25:17 8:42 HKB HY/2011/03 2019-09-4 Mid-Ebb Cloudy IS7 15:35 10 Surface 1 27:24 8:25 24:89 98:2 HKB HY/2011/03 2019-09-4 Mid-Ebb Cloudy IS7 15:35 10 Surface 1 2 27:24 8:24 25:10 88:1 HKB HY/2011/03 2019-09-44 Mid-Ebb Cloudy IS7 15:35 2.0 Bottom 3 1 27:12 8:24 25:10 99:15 HKB HY/2011/03 2019-09-4 Mid-Ebb Cloudy IS8(N) 16:03 10 Surface 1 2:5:44 8:26 24:50 8:3:2 HKR HY/2011/03 2019-09-4 Mid-Ebb Cloudy IS8(N) 16:03 2.7 Bottom 3 2			2019-09-04		Cloudy				Surface							5.64	4.6	7.9
HKIR HY/2011/03 2019/90-04 Mid-Ebb Cloudy IS/27 2 2 Dentom 3 2 26.86 8.28 25.28 98.2 HKIR HY/2011/03 2019/90-04 Mid-Ebb Cloudy IS7 15.35 1.0 Surface 1 2 27.22 8.24 25.00 88.1 HKIR HY/2011/03 2019/90-04 Mid-Ebb Cloudy 15.7 15.33 2.0 Bottom 3 1 27.72 8.24 25.10 89.0 HKIR HY/2011/03 2019/90-04 Mid-Ebb Cloudy ISR(N) 16.03 1.0 Surface 1 2 27.03 8.26 25.55 88.2 HKIR HY/2011/03 2019/90-04 Mid-Ebb Cloudy ISR(N) 16.03 2.7 Bottom 3 1 26.58 8.27 24.89 86.6 HKIR HY/2011/03 2019/90-04 Mid-Ebb Cloudy IS(M)P 15.43 1.0 Surface<		1 - 1					-	-								5.86	4.8	8.6
HKB HY/2011/03 2019-09-04 Mid-Ebb Cloudy 157 1533 10 Surface 1 1 27.24 8.25 24.99 89.2 HKB HY/2011/03 2019-09-04 Mid-Ebb Cloudy 157 15.35 2.0 Bottom 3 1 27.12 8.24 25.10 89.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy 158(N) 16.03 1.0 Surface 1 2.63 8.26 24.97 94.9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy 158(N) 16.03 1.0 Surface 1 2 2.73 8.28 2.450 89.7 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy 158(N) 1.603 2.7 Bottom 3 1 2.549 8.26 2.505 83.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy 158(N) 1.0 Surface 1 1 <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td>Bottom</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5.84</td> <td>4.8</td> <td>10.4</td>					,				Bottom							5.84	4.8	10.4
HKIR HY/2011/03 2019-90-04 Mid-Ebb Cloudy 157 1533 1.0 Surface 1 2 27.22 8.24 25.00 88.1 HKIR HY/2011/03 2019-90-04 Mid-Ebb Cloudy 157 1533 2.0 Bottom 3 1 27.13 8.26 25.15 91.5 HKIR HY/2011/03 2019-90-44 Mid-Ebb Cloudy 158(N) 16.03 1.0 Surface 1 2.69.3 8.26 2.45.0 89.7 HKIR HY/2011/03 2019-90-44 Mid-Ebb Cloudy 158(N) 16.03 2.7 Bottom 3 1 2.69.4 8.26 2.50.5 83.2 HKIR HY/2011/03 2019-90-44 Mid-Ebb Cloudy 15(M/9) 15.43 1.0 Surface 1 1 27.11 8.25 2.5.14 83.5 HKIR HY/2011/03 2019-90-44 Mid-Ebb Cloudy 15(M/9) 15.43 1.0 Surface					,	. ,										6.12	4.7	9.4
HKIR HY/2011/03 2019-09-04 Mid-Ebb Cloudy 157 1533 2.0 Bottom 3 1 27.12 8.24 25.10 89.0 HKIR HY/2011/03 2019-09-04 Mid-Ebb Cloudy 158(N) 16:03 1.0 Surface 1 1 26:93 8.26 24.97 94.9 HKIR HY/2011/03 2019-09-04 Mid-Ebb Cloudy 158(N) 16:03 1.0 Surface 1 2 27.03 8.28 24.50 89.7 HKIR HY/2011/03 2019-09-04 Mid-Ebb Cloudy 158(N) 16:03 2.7 Bottom 3 1 27.13 8.26 2.50 83.2 HKIR HY/2011/03 2019-09-04 Mid-Ebb Cloudy 15(M/9) 15.43 1.0 Surface 1 2 2.69 8.25 2.5.20 84.3 HKIR HY/2011/03 2019-09-04 Mid-Ebb Cloudy 15(M/9) 15.32 Bottom																6.15	3.1	7.3
HKR HY/2011/03 2019-09-04 Mid-Ebb Cloudy 157 15.34 2.0 Bottom 3 2 27.13 8.26 25.15 91.5 HKR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS8(N) 16.03 1.0 Surface 1 2 27.03 8.28 24.50 88.7 HKR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS8(N) 16.03 2.7 Bottom 3 1 25.69 8.27 2.85 86.5 HKR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(M) 16.03 2.7 Bottom 3 2 25.59 8.25 2.5.0 84.3 HKR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(M) 15.43 1.0 Surface 1 2 25.9 8.25 2.5.0 83.8 HKR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(M) 15.52 1.0 Surface <td></td> <td></td> <td></td> <td></td> <td>Cloudy</td> <td></td> <td></td> <td></td> <td>Surface</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6.08</td> <td>3.1</td> <td>7.2</td>					Cloudy				Surface							6.08	3.1	7.2
HKUR HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISR(N) 16.03 1.0 Surface 1 2.6.33 8.2.6 2.4.97 94.9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISR(N) 16.03 2.7 Bottom 3 1 26.94 8.2.6 25.05 88.27 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISR(N) 16.03 2.7 Bottom 3 2 26.58 8.2.7 24.89 86.6 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(MP) 15.43 1.0 Surface 1 2 26.99 8.25 25.20 84.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(MP) 15.43 2.5 Bottom 3 2 27.09 8.25 25.20 83.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISI(M) 15.52 1.0 Surface </td <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td>6.15</td> <td>3.2</td> <td>8.4</td>					,											6.15	3.2	8.4
HKR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS8(N) 16.03 2.7 Bottom 3 1 26.04 8.26 28.30 89.7 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS8(N) 16.03 2.7 Bottom 3 1 26.98 8.27 24.89 88.6 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(M) 15.33 1.0 Surface 1 1 27.11 8.25 25.20 84.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(M)9 15.43 1.0 Surface 1 2 2.59 8.25 25.20 84.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(M)9 15.54 1.0 Surface 1 1 2.800 7.67 2.216 80.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15.52 9.7 <		, ,			,											6.32	3.1	7.5
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS8(N) 16.03 2.7 Bottom 3 1 25.94 8.26 25.05 88.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS8(N) 16.03 2.7 Bottom 3 2 26.98 8.27 24.89 86.6 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(MP) 15.43 1.0 Surface 1 2 26.99 8.25 25.20 84.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(MP) 15.43 2.5 Bottom 3 2 27.09 8.25 25.20 83.8 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(NP) 15.52 1.0 Surface 1 2 28.19 7.67 25.16 80.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15.52 9.7					,											6.58	4.8	9.3
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISR(N) 16:03 2.7 Bottom 3 2 26:98 8.27 24.89 86.6 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(MI)9 15:43 1.0 Surface 1 1 27.11 8.25 25:20 84.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(MI)9 15:43 2.5 Bottom 3 1 26:91 8.26 25:34 87.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(MI)9 15:43 2.5 Bottom 3 2 27.09 8.25 25:20 83.8 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(NI) 15:52 5.4 Middle 2 1 27.77 7.67 25.01 76.8 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS1(NI) 15:51 9.7					,											6.23	4.7	9.7
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(Mf)9 15:43 1.0 Surface 1 1 27.11 8.25 25.14 83.5 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(Mf)9 15:43 1.0 Surface 1 2 26:99 8.25 25:20 84.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(Mf)9 15:43 2.5 Bottom 3 2 27.09 8.25 25:20 83.8 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISI(N) 15:52 1.0 Surface 1 2 28:19 7.67 22:16 80.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISI(N) 15:52 1.0 Surface 1 2 27.77 7.67 25:05 7.66 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISI(N) 15:10 1.0					,	. ,										5.77	5.7	9.0
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(Mf)9 15:43 1.0 Surface 1 2 26.99 8.25 25.20 84.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(MI)9 15:43 2.5 Bottom 3 1 26.91 8.26 25.34 87.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(MI)9 15:52 1.0 Surface 1 1 28.00 7.69 22.32 77.4 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:52 5.4 Middle 2 1 27.72 7.67 25.05 76.6 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:51 5.4 Middle 2 2 27.70 7.68 25.05 76.6 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:51 9.7						. ,				-			-			6.00	5.7	9.2
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(MI)9 15:43 2.5 Bottom 3 1 26.91 8.26 25.34 87.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(MI)9 15:52 1.0 Surface 1 1 28.00 7.69 23.23 77.4 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISIO(N) 15:52 1.0 Surface 1 2 28.19 7.67 22.16 80.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISIO(N) 15:52 5.4 Middle 2 2 27.70 7.68 25.05 76.6 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy ISIO(N) 15:51 9.7 Bottom 3 1 27.76 7.67 25.06 77.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0					/											5.77	4.4	10.0
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS(Mf)9 15:43 2.5 Bottom 3 2 27.09 8.25 25.20 83.8 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:52 1.0 Surface 1 2 28.19 7.67 22.16 80.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:52 5.4 Middle 2 1 27.70 7.67 25.01 76.6 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:51 5.4 Middle 2 2 27.70 7.68 25.05 76.6 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:51 9.7 Bottom 3 2 27.69 7.67 25.15 77.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0																5.84	4.5	9.0
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:52 1.0 Surface 1 1 28.00 7.69 22.32 77.4 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:52 1.0 Surface 1 2 28.19 7.67 22.16 80.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:52 5.4 Middle 2 2 27.70 7.68 25.05 76.6 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:51 5.4 Middle 2 2 27.70 7.68 25.05 76.6 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:51 9.7 Bottom 3 1 27.69 76.7 25.06 77.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0																6.04	4.8	10.1
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:52 1.0 Surface 1 2 28.19 7.67 22.16 80.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:52 5.4 Middle 2 1 27.72 7.67 22.16 80.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:52 9.7 Bottom 3 1 27.70 7.68 25.05 77.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:51 9.7 Bottom 3 2 27.69 7.67 25.15 77.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0 Surface 1 2 27.04 8.30 25.26 87.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 2.3																5.79	4.8	9.1
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:52 5.4 Middle 2 1 27.72 7.67 25.01 76.8 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:51 5.4 Middle 2 2 27.70 7.67 25.06 77.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:51 9.7 Bottom 3 2 27.69 7.67 25.15 77.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0 Surface 1 1 27.04 8.30 25.04 82.8 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:00 2.3 Bottom 3 1 26.90 8.31 25.26 87.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0					,											5.35	6.7	14.0
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:51 5.4 Middle 2 2 27.70 7.68 25.05 76.6 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:52 9.7 Bottom 3 1 27.75 7.67 25.06 77.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0 Surface 1 1 27.69 7.67 25.15 77.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0 Surface 1 2 27.04 8.30 25.04 82.8 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0 Surface 1 1 26.90 8.33 25.26 87.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0					,											5.54	6.8	13.9
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:52 9.7 Bottom 3 1 27.75 7.67 25.06 77.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:51 9.7 Bottom 3 2 27.69 7.67 25.15 77.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0 Surface 1 1 27.10 8.33 24.97 84.7 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0 Surface 1 2 27.04 8.30 25.26 87.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 2.3 Bottom 3 2 26.92 8.31 25.26 87.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0					,	. ,										5.25	7.0	13.5
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy IS10(N) 15:51 9.7 Bottom 3 2 27.69 7.67 25.15 77.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0 Surface 1 1 27.10 8.33 24.97 84.7 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0 Surface 1 2 27.04 8.30 25.04 82.8 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 2.3 Bottom 3 2 26.92 8.31 25.28 83.4 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0 Surface 1 1 26.71 8.24 24.79 79.1 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 2.6						. ,		-								5.24	6.9	14.6
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0 Surface 1 1 27.10 8.33 24.97 84.7 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0 Surface 1 2 27.04 8.30 25.04 82.8 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 2.3 Bottom 3 1 26.90 8.33 25.26 87.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0 Surface 1 1 26.70 8.21 24.86 82.9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0 Surface 1 2 26.70 8.21 24.86 82.9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 2.6					,					-						5.28	7.2	13.7
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 1.0 Surface 1 2 27.04 8.30 25.04 82.8 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:09 2.3 Bottom 3 1 26.90 8.33 25.26 87.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 2.3 Bottom 3 2 26.92 8.31 25.28 83.4 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0 Surface 1 1 26.70 8.21 24.86 82.9 1 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0 Surface 1 2 26.70 8.21 24.86 82.9 2 44.86 82.9 2 44.86 82.9 2 56.6 80.0 <								-								5.27	6.9	12.6
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:09 2.3 Bottom 3 1 26:90 8.33 25:26 87.3 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 2.3 Bottom 3 2 26:92 8.31 25:28 83.4 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0 Surface 1 1 26:70 8.21 24.86 82:9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0 Surface 1 2 26:70 8.21 24.86 82:9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 2.6 Bottom 3 2 26:69 8:25 25:06 78:2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 1.0					,											5.86	7.5	8.8
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR3(N) 15:10 2.3 Bottom 3 2 26.92 8.31 25.28 83.4 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0 Surface 1 1 26.71 8.24 24.79 79.1 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0 Surface 1 2 26.70 8.21 24.86 82.9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 2.6 Bottom 3 1 26.70 8.21 24.86 82.9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 2.6 Bottom 3 2 26.69 8.25 25.06 78.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 1.0					,	. ,										5.73	7.3	7.8 8.2
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0 Surface 1 1 26.71 8.24 24.79 79.1 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0 Surface 1 2 26.70 8.21 24.86 82.9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 2.6 Bottom 3 1 26.70 8.21 24.86 82.9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 2.6 Bottom 3 2 26.69 8.25 25.06 78.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 1.0 Surface 1 2 28.01 7.70 22.00 78.1 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 4.1					,	. ,				-						6.05	7.5	
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 1.0 Surface 1 2 26.70 8.21 24.86 82.9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 2.6 Bottom 3 1 26.70 8.21 24.86 82.9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 2.6 Bottom 3 2 26.69 8.25 25.06 78.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 1.0 Surface 1 1 28.06 7.70 21.91 78.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 1.0 Surface 1 2 28.01 7.70 22.00 78.1 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 4.1					,											5.77 5.52	7.2	7.1
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 2.6 Bottom 3 1 26.70 8.22 24.97 75.9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 2.6 Bottom 3 2 26.69 8.22 24.97 75.9 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 1.0 Surface 1 1 28.06 7.70 21.91 78.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 1.0 Surface 1 2 28.01 7.70 22.00 78.1 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 4.1 Midele 2 1 27.73 7.68 24.78 77.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:40 4.1					,	. ,										5.52	7.5	11.3 10.6
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR4(N2) 15:56 2.6 Bottom 3 2 26.69 8.25 25.06 78.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 1.0 Surface 1 1 28.06 7.70 21.91 78.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 1.0 Surface 1 2 28.01 7.70 22.00 78.1 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 4.1 Middle 2 1 27.73 7.68 24.78 77.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:40 4.1 Middle 2 2 27.74 7.69 24.68 77.4 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:40 7.1					/	. ,										5.29	7.6	10.6
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 1.0 Surface 1 1 28.06 7.70 21.91 78.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 1.0 Surface 1 2 28.01 7.70 22.00 78.1 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 1.0 Surface 1 2 28.01 7.70 22.00 78.1 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:40 4.1 Midele 2 1 27.73 7.68 24.78 77.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:40 7.1 Bottom 3 1 27.70 7.68 25.22 78.7 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 7.1					,	. ,								-		5.44	7.5	12.9
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 1.0 Surface 1 2 28.01 7.70 22.00 78.1 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 4.1 Middle 2 1 27.73 7.68 24.78 77.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:40 4.1 Middle 2 2 27.74 7.69 24.68 77.4 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:40 7.1 Bottom 3 1 27.70 7.68 25.22 78.7 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 7.1 Bottom 3 1 27.70 7.68 25.22 78.7 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 7.1 <																5.44	5.3	11.9
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 4.1 Middle 2 1 27.73 7.68 24.78 77.2 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:40 4.1 Middle 2 2 27.74 7.69 24.68 77.4 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:40 7.1 Bottom 3 1 27.70 7.68 25.22 78.7 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 7.1 Bottom 3 1 27.82 7.67 25.15 78.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:40 1.0 Surface 1 1 27.49 7.75 26.75 80.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:41 1.0																5.40	5.3	13.0
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:40 4.1 Middle 2 2 27.74 7.69 24.68 77.4 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:40 7.1 Bottom 3 1 27.70 7.68 25.22 78.7 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 7.1 Bottom 3 2 27.82 7.67 25.15 78.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:40 1.0 Surface 1 1 27.49 7.75 26.75 80.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:41 1.0 Surface 1 1 27.44 7.74 26.84 84.8 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:41 1.0					,											5.29	5.3	13.4
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:40 7.1 Bottom 3 1 27.70 7.68 25.22 78.7 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 7.1 Bottom 3 2 27.82 7.67 25.15 78.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:40 1.0 Surface 1 1 27.49 7.75 26.75 80.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:41 1.0 Surface 1 1 27.44 7.74 26.84 84.8 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:41 1.0 Surface 1 2 27.44 7.74 26.84 84.8					,											5.31	5.6	12.9
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR5(N) 15:41 7.1 Bottom 3 2 27.82 7.67 25.15 78.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:40 1.0 Surface 1 1 27.49 7.75 26.75 80.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:41 1.0 Surface 1 2 27.44 7.74 26.84 84.8					,	. ,										5.38	6.6	13.5
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:40 1.0 Surface 1 1 27.49 7.75 26.75 80.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:41 1.0 Surface 1 2 27.44 7.74 26.84 84.8					,	. ,				-						5.32	7.0	13.8
HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:41 1.0 Surface 1 2 27.44 7.74 26.84 84.8					,	. ,										5.51	5.1	10.3
					,					_	-					5.83	5.0	10.3
THKIK THYZULIZUST ZU19-09-04 TIMIG-EDD F CIQUAY TSK10A(N) T15-40 T 6.1 TMIddle 1 2 T 1 T 27.06 T 7.78 T 28.06 T 78.6 T	HKLR	HY/2011/03	2019-09-04	Mid-Ebb	Cloudy	SR10A(N)	16:40	6.1	Middle	2	1	27.06	7.74	28.06	78.6	5.41	5.8	8.2
Hick Hitzbil/05 2215 05 04 Mid bb Cloudy Shipking 0.1 Middle 2 1 27.00 7.74 27.45 76.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:40 6.1 Middle 2 2 27.21 7.74 27.45 76.0																5.24	5.6	7.3
Hick High 2019 03 04 Mid bb Cloudy Shipk(r) 10.40 0.1 Middle 2 2 21.21 7.44 21.43 70.0 HKLR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10A(N) 16:39 11.2 Bottom 3 1 27.12 7.80 28.01 75.6					,											5.24	5.7	8.0
Hitte HY/2011/03 2019-09-04 Mid-Ebb Cloudy Sn104(N) 16:40 11.2 Bottom 3 2 27.20 7.74 27.53 74.6					,					-						5.14	5.4	7.0
HKL HY/201/03 2019-09-04 Mid-Ebb Cloudy SR10B(N) 16-49 1.0 Surface 1 1 27.46 7.73 26.85 75.1					,											5.17	5.8	9.1
HKL HY/201/03 2019-09-04 Mid-Ebb Cloudy SR10B(N2) 1.0 Surface 1 2 27.32 7.73 27.17 74.5					,	. ,										5.13	6.0	10.1
HKIR HY/201/03 2019-09-04 Mid-Ebb Cloudy SR10B(N2) 16:49 3.3 Middle 2 1 27:23 7.73 27:38 73.7					,	. ,		-								5.08	6.5	8.2
HKIR HY/2011/03 2019-09-04 Mid-Ebb Cloudy SR10B(N2) 16:50 3.3 Middle 2 2 27.25 7.73 27.28 74.5					/	. ,										5.13	6.4	9.2

HKLR HY HKLR HY HKLR HY HKLR HY HKLR HY HKLR HY	HY/2011/03 HY/2011/03 HY/2011/03 HY/2011/03 HY/2011/03	2019-09-04 2019-09-04 2019-09-04	Mid-Ebb Mid-Ebb	Cloudy			-	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	20, 116, 2	Turbidity, NTU	SS, mg/L
HKLR HY HKLR HY HKLR HY HKLR HY HKLR HY	HY/2011/03 HY/2011/03 HY/2011/03		Mid-Ebb	cioudy	SR10B(N2)	16:49	5.5	Bottom	3	1	27.19	7.73	27.52	73.9	5.10	6.6	9.4
HKLR HY HKLR HY HKLR HY HKLR HY	HY/2011/03 HY/2011/03	2019-09-04		Cloudy	SR10B(N2)	16:49	5.5	Bottom	3	2	27.25	7.73	27.39	74.7	5.15	6.7	8.7
HKLR HY HKLR HY HKLR HY	HY/2011/03		Mid-Ebb	Cloudy	CS2(A)	15:01	1.0	Surface	1	1	27.95	7.76	22.28	89.2	6.11	5.2	15.3
HKLR HY		2019-09-04	Mid-Ebb	Cloudy	CS2(A)	15:02	1.0	Surface	1	2	28.14	7.72	21.95	84.6	5.81	5.2	16.3
HKLR H		2019-09-04	Mid-Ebb	Cloudy	CS2(A)	15:02	3.1	Middle	2	1	27.78	7.72	24.44	80.2	5.50	5.7	15.3
	HY/2011/03	2019-09-04	Mid-Ebb	Cloudy	CS2(A)	15:01	3.1	Middle	2	2	27.79	7.78	24.39	82.9	5.74	5.5	15.1
HKLR HY	HY/2011/03	2019-09-04	Mid-Ebb	Cloudy	CS2(A)	15:01	5.1	Bottom	3	1	27.76	7.84	24.92	80.2	5.55	6.3	13.6
	HY/2011/03	2019-09-04	Mid-Ebb	Cloudy	CS2(A)	15:01	5.1	Bottom	3	2	27.84	7.72	24.95	81.4	5.56	6.8	13.2
HKLR H	HY/2011/03	2019-09-04	Mid-Ebb	Cloudy	CS(Mf)5	16:28	1.0	Surface	1	1	26.85	8.25	25.92	75.4	5.19	5.1	5.2
HKLR H	HY/2011/03	2019-09-04	Mid-Ebb	Cloudy	CS(Mf)5	16:28	1.0	Surface	1	2	26.87	8.27	25.90	81.8	5.65	5.2	4.8
HKLR HY	HY/2011/03	2019-09-04	Mid-Ebb	Cloudy	CS(Mf)5	16:27	5.8	Middle	2	1	26.13	8.25	28.03	74.7	5.16	5.1	6.1
HKLR HY	HY/2011/03	2019-09-04	Mid-Ebb	Cloudy	CS(Mf)5	16:28	5.8	Middle	2	2	26.06	8.23	28.26	73.2	5.06	5.1	5.1
HKLR HY	HY/2011/03	2019-09-04	Mid-Ebb	Cloudy	CS(Mf)5	16:28	10.5	Bottom	3	1	26.11	8.23	28.68	70.7	4.88	5.1	6.4
	HY/2011/03	2019-09-04	Mid-Ebb	Cloudy	CS(Mf)5	16:27	10.5	Bottom	3	2	25.97	8.27	28.88	72.2	4.99	5.2	6.0
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS5	10:56	1.0	Surface	1	1	26.66	8.12	25.06	82.6	5.74	7.9	8.5
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS5	10:56	1.0	Surface	1	2	26.64	8.15	25.14	79.2	5.51	7.5	9.5
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS5	10:56	4.4	Middle	2	1	26.62	8.10	25.47	80.4	5.59	7.8	8.7
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS5	10:56	4.4	Middle	2	2	26.62	8.14	25.43	78.4	5.45	7.9	9.6
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS5	10:56	7.7	Bottom	3	1	26.62	8.08	25.54	79.7	5.55	7.8	12.9
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS5	10:56	7.7	Bottom	3	2	26.67	8.13	25.24	78.0	5.43	7.8	11.7
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS(Mf)6	10:49	1.0	Surface	1	1	26.63	8.17	25.19	78.7	5.48	7.5	10.6
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS(Mf)6	10:48	1.0	Surface	1	2	26.63	8.15	25.25	79.5	5.54	7.6	12.0
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS(Mf)6	10:48	2.3	Bottom	3	1	26.63	8.16	25.27	78.9	5.49	7.5	13.0
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS(Mf)6	10:48	2.3	Bottom	3	2	26.63	8.15	25.22	80.2	5.59	7.5	12.3
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS7	10:34	1.0	Surface	1	1	26.63	8.14	25.20	84.1	5.85	8.8	17.3
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS7	10:34	1.0	Surface	1	2	26.63	8.12	25.21	90.4	6.30	8.6	16.0
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS7	10:34	2.2	Bottom	3	1	26.63	8.09	25.25	82.7	5.76	8.3	13.3
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS7	10:34	2.2	Bottom	3	2	26.63	8.13	25.21	81.4	5.67	8.7	12.9
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS8(N)	10:06	1.0	Surface	1	1	26.52	8.19	25.09	88.1	6.14	6.5	20.6
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS8(N)	10:06	1.0	Surface	1	2	26.52	8.20	25.11	83.4	5.82	6.8	21.3
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS8(N)	10:06	3.1	Bottom	3	1	26.52	8.19	25.29	79.5	5.55	6.8	12.3
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS8(N)	10:05	3.1	Bottom	3	2	26.52	8.22	25.18	80.2	5.59	6.7	11.2
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS(Mf)9	10:27	1.0	Surface	1	1	26.56	8.22	25.45	81.8	5.69	7.1	5.7
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS(Mf)9	10:27	1.0	Surface	1	2	26.56	8.21	25.43	83.0	5.78	6.9	6.6
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS(Mf)9	10:27	2.7	Bottom	3	1	26.56	8.21	25.45	79.9	5.56	7.5	6.2
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS(Mf)9	10:27	2.7	Bottom	3	2	26.55	8.22	25.47	80.7	5.62	7.5	7.2
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS10(N)	10:08	1.0	Surface	1	1	27.72	7.72	24.20	76.1	5.23	9.8	10.1
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS10(N)	10:07	1.0	Surface	1	2	27.72	7.73	24.22	76.2	5.24	10.6	11.4
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS10(N)	10:07	5.1	Middle	2	1	27.66	7.72	24.43	75.5	5.19	9.5	10.0
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS10(N)	10:07	5.1	Middle	2	2	27.66	7.72	24.45	75.9	5.22	10.7	11.4
HKLR HY	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS10(N)	10:07	9.2	Bottom	3	1	27.65	7.72	24.57	75.7	5.20	10.3	9.3
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	IS10(N)	10:06	9.2	Bottom	3	2	27.68	7.72	24.45	76.3	5.24	10.8	10.6
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR3(N)	11:07	1.0	Surface	1	1	26.65	8.18	25.09	78.2	5.44	7.1	7.8
HKLR H	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR3(N)	11:07	1.0	Surface	1	2	26.65	8.18	25.08	78.1	5.44	7.3	8.5
	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR3(N)	11:07	2.6	Bottom	3	1	26.68	8.18	25.10	78.1	5.44	7.2	7.1
	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR3(N)	11:07	2.6	Bottom	3	2	26.63	8.17	25.39	78.1	5.43	7.3	7.7
	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR4(N2)	10:15	1.0	Surface	1	1	26.61	8.19	24.56	88.4	6.15	3.4	6.3
	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR4(N2)	10:15	1.0	Surface	1	2	26.60	8.21	24.40	83.4	5.84	3.2	5.8
	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR4(N2)	10:15	2.6	Bottom	3	1	26.60	8.19	25.48	78.0	5.45	3.4	9.5
	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR4(N2)	10:15	2.6	Bottom	3	2	26.57	8.21	25.54	80.2	5.58	3.4	8.5
	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR5(N)	10:20	1.0	Surface	1	1	27.72	7.72	24.17	76.5	5.26	10.9	11.3
	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR5(N)	10:19	1.0	Surface	1	2	27.70	7.72	24.25	75.9	5.22	11.6	10.7

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR5(N)	10:20	4.0	Middle	2	1	27.69	7.72	24.30	75.8	5.21	12.8	11.0
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR5(N)	10:19	4.0	Middle	2	2	27.66	7.73	24.47	75.7	5.20	12.7	11.9
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR5(N)	10:19	6.9	Bottom	3	1	27.65	7.73	24.62	75.5	5.19	12.5	10.9
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR5(N)	10:20	6.9	Bottom	3	2	27.66	7.72	24.56	75.7	5.20	13.0	10.7
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR10A(N)	9:19	1.0	Surface	1	1	27.73	7.73	24.22	76.2	5.23	3.9	4.6
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR10A(N)	9:18	1.0	Surface	1	2	27.71	7.73	24.25	76.1	5.23	4.0	5.6
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR10A(N)	9:19	6.2	Middle	2	1	27.62	7.72	24.64	75.6	5.19	4.3	4.5
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR10A(N)	9:18	6.2	Middle	2	2	27.63	7.72	24.60	75.8	5.21	4.2	4.8
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR10A(N)	9:18	11.3	Bottom	3	1	27.65	7.72	24.63	76.2	5.23	6.1	6.0
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR10A(N)	9:19	11.3	Bottom	3	2	27.66	7.72	24.59	76.0	5.22	5.8	5.5
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR10B(N2)	9:14	1.0	Surface	1	1	27.72	7.72	24.25	89.3	6.13	3.6	6.9
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR10B(N2)	9:13	1.0	Surface	1	2	27.72	7.71	24.24	88.0	6.04	3.8	6.0
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR10B(N2)	9:13	3.3	Middle	2	1	27.67	7.71	24.38	82.7	5.68	4.1	6.1
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR10B(N2)	9:13	3.3	Middle	2	2	27.68	7.71	24.34	79.8	5.48	3.9	6.4
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR10B(N2)	9:13	5.5	Bottom	3	1	27.68	7.69	24.45	78.1	5.36	4.6	4.9
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	SR10B(N2)	9:13	5.5	Bottom	3	2	27.63	7.72	24.55	77.0	5.29	4.3	4.6
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	CS2(A)	11:18	1.0	Surface	1	1	27.72	7.72	24.18	76.5	5.26	9.2	10.4
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	CS2(A)	11:19	1.0	Surface	1	2	27.72	7.72	24.16	76.8	5.28	8.8	9.9
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	CS2(A)	11:18	3.0	Middle	2	1	27.71	7.72	24.24	76.2	5.24	10.0	11.1
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	CS2(A)	11:18	3.0	Middle	2	2	27.71	7.72	24.21	76.1	5.23	9.9	10.9
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	CS2(A)	11:18	5.0	Bottom	3	1	27.71	7.72	24.28	76.3	5.24	9.7	13.3
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	CS2(A)	11:18	5.0	Bottom	3	2	27.71	7.72	24.25	76.1	5.23	9.6	11.8
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	CS(Mf)5	9:44	1.0	Surface	1	1	26.47	8.16	26.10	73.8	5.11	4.5	6.3
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	CS(Mf)5	9:43	1.0	Surface	1	2	26.44	8.12	26.06	75.8	5.24	4.6	5.7
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	CS(Mf)5	9:43	6.2	Middle	2	1	26.19	8.14	27.64	72.4	5.02	4.6	8.2
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	CS(Mf)5	9:43	6.2	Middle	2	2	26.14	8.08	27.92	73.1	5.05	4.5	8.6
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	CS(Mf)5	9:42	11.3	Bottom	3	1	26.06	8.03	28.28	71.1	4.91	4.5	8.0
HKLR	HY/2011/03	2019-09-04	Mid-Flood	Rainy	CS(Mf)5	9:43	11.3	Bottom	3	2	26.09	8.12	28.29	71.4	4.93	4.6	9.1
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS5	5:59	1.0	Surface	1	1	26.95	8.22	26.13	76.3	5.27	2.2	5.3
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS5	5:58	1.0	Surface	1	2	26.94	8.22	26.14	77.5	5.34	2.1	4.3
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS5	5:59	4.1	Middle	2	1	26.76	8.22	26.27	76.3	5.25	2.2	4.3
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS5	5:58	4.1	Middle	2	2	26.76	8.22	26.26	76.8	5.30	2.2	4.7
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS5	5:59	7.2	Bottom	3	1	26.76	8.21	26.45	75.4	5.20	2.3	3.5
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS5	5:58	7.2	Bottom	3	2	26.66	8.21	26.77	76.4	5.26	2.2	3.9
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS(Mf)6	5:47	1.0	Surface	1	1	27.12	8.22	26.06	81.7	5.61	2.5	3.5
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS(Mf)6	5:48	1.0	Surface	1	2	26.94	8.22	26.13	79.8	5.50	2.4	4.0
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS(Mf)6	5:48	2.2	Bottom	3	1	26.95	8.22	26.12	79.8	5.50	2.5	3.6
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS(Mf)6	5:47	2.2	Bottom	3	2	26.93	8.22	26.12	82.9	5.72	2.5	2.6
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS7	5:40	1.0	Surface	1	1	27.16	8.22	26.04	82.5	5.67	1.4	3.4
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS7	5:40	1.0	Surface	1	2	27.15	8.22	26.05	80.4	5.52	1.4	3.1
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS7	5:39	2.1	Bottom	3	1	26.99	8.22	26.05	84.2	5.80	1.5	2.8
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS7	5:40	2.1	Bottom	3	2	27.03	8.22	26.07	81.0	5.57	1.4	3.7
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS8(N)	5:11	1.0	Surface	1	1	27.10	8.23	26.12	78.1	5.37	1.5	5.0
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS8(N)	5:11	1.0	Surface	1	2	27.10	8.23	26.11	75.8	5.21	1.4	4.0
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS8(N)	5:11	2.7	Bottom	3	1	26.85	8.23	26.27	75.0	5.17	1.6	6.2
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS8(N)	5:11	2.7	Bottom	3	2	27.08	8.23	26.13	77.4	5.32	1.5	5.3
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS(Mf)9	5:33	1.0	Surface	1	1	27.05	8.22	26.11	85.0	5.85	1.3	6.0
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS(Mf)9	5:33	1.0	Surface	1	2	27.09	8.22	26.09	82.4	5.66	1.4	5.8
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS(Mf)9	5:33	2.7	Bottom	3	1	26.95	8.22	26.14	87.6	6.03	1.4	4.6
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS(Mf)9	5:33	2.7	Bottom	3	2	27.09	8.22	26.07	83.7	5.75	1.4	3.6
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS10(N)	5:39	1.0	Surface	1	1	28.15	7.82	26.08	80.6	5.44	8.6	4.8
HKLR	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS10(N)	5:39	1.0	Surface	1	2	28.06	7.83	26.17	79.7	5.39	8.8	4.4

HHAB HV/2011/03 J019-99.06 M464ba Fine KS10(M 5.38 KS1 Medie 2 2 200 7.81 5.30 L01 HKRR HV/2011/03 J019-90.6 M464ba Fine KS10(M) 5.38 6.6 Batton 3 1 2.727 7.83 KA34 80.6 6.72 1 HKRR HV/2011/03 J019-90.6 M644ba Fine KS10(M) 5.38 6.6 Batton 3 2 J019 Batton A J019	oject	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HYRAB. HYZ211/03 2012-90-66 Mid-Edo Frie ISIONI 539 9.6 Bottom 3 1 P722 7.83 28.4 80.6 5.42 171 HRRAB. HYZ201/03 2013-90-66 Mid-Ebo Frie SIGNI 6.11 1.0 Surface 1 2.711 8.22 26.04 77.13 5.43 1.0 HRRAB. HYZ201/03 2013-90-66 Mid-Ebo Frie SIGNI 6.21 2.0 Surface 1 2.716 6.22 2.60 78.4 5.4 1.1 HRRAB. HYZ201/03 2013-90-66 Mid-Ebo Frie SIGNI 5.22 1.0 Surface 1 2 2.23 6.0 7.79 5.32 1.1 HRRAB. HYZ201/03 2019-90-66 Mid-Ebo Frie SIGNI 5.22 2.7 Butme 1 2 2.65 0.22 2.62.6 7.79 5.33 1 HRRAB. HYZ201/03 2019-90.	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS10(N)	5:39	5.3	Middle	2	1	27.68	7.83	28.49	79.1	5.31	10.4	3.4
HHAR HY/2011/08 JOTO DO G. Mel EBb Free SSB 9.6 Pertor 8.2 27.73 7.83 20.44 POL Sola Pol SSB Pol Pol<	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS10(N)	5:38		Middle	2	2		7.82	28.09		5.33	10.7	4.5
HHR HY/201/08 2019 09.06 Mid Ebb Fine SRIN 6.11 1.0 Surface 1 1 27.11 8.22 20.04 77.11 5.44 1.1 HKR HY/201/03 2019 04.06 Mid Ebb Fine SRIN 6.12 2.2 Battom 3 1 27.05 8.22 20.05 78.8 5.44 1.1 HKR HY/201/03 2019 04-06 Mid Ebb Fine SRINP 6.12 2.2 Battom 3 2 2.6.64 8.22 2.6.1 77.3 3.2 1.1 1.7.12 8.22 2.6.0 77.4 3.2.0 1.1 1.1 1.2.1.2 8.2.0 7.6.1 7.7.3 3.3.0 1.1 1.1 1.2.1.2 8.2.0 7.6.0 7.7.3 3.3.0 1.1 1.0.0 Surface 1 1.2 2.8.0 7.8.1 2.6.0 7.8.1 2.6.0 7.8.1 2.8.0 7.8.1 2.8.0 7.8.1 2.8.0 7.8.1 2.8.0	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	IS10(N)	5:39	9.6	Bottom	-					80.8	5.42	10.8	4.4
HNR.R HY/201/01 2019-09-6 Md-Ebb Fine SNIN 6-12 2.2 Bottom 3 1 27.0 8.22 2.6.07 78.2 5.44 1 HKR.R HY/201/03 2019.09-66 Md-Ebb Fine SRIN 6-11 2.2 Bottom 3 2 26.64 8.22 26.63 78.4 5.44 1.1 HKR.R HY/201/03 2019.09-66 Md-Ebb Fine SRIN 5.22 1.0 Surface 1 2.1 2.6.58 8.7.3 5.37 1.1 HKR.R HY/201/03 2019.09-66 Md-Ebb Fine SRIN 5.22 2.7 Bottom 3 2 2.6.56 8.22 2.6.56 7.8 3.5.31 5.33 1.0 Surface 1 2.1 2.6.4 7.83 5.31 1.0 Surface 1 2.7.6 7.33 2.3 8.30 8.3 3.33 8.0 7.33 2.33 2.33 8.30 8.3																	11.3	3.8
HHRB HY/2011/03 2019 09 06 Multibb Fine SRIN 6-11 2 Battern 3 1 2705 B-12 26.65 78.8 542 1 HKRA HY/2011/03 2019 09-06 Mul-Ebb Fine SRIN 5.11 1 22 26.68 8.22 26.68 78.2 5.37 1 HKRA HY/2011/03 2019-09-06 Mul-Ebb Fine SRIV(2) 5.21 1.0 Surface 1 2 26.68 8.22 26.28 177.9 5.38 1 HKRA HY/2011/03 2019-09-06 Mul-Ebb Fine SRIV(1) 5.32 1.0 Surface 1 2.81.9 7.84 2.81.6 7.83 5.33 1.4 HKRA HY/2011/03 2019-06 Mul-Ebb Fine SRIV 5.31 4.0 Nullebb 2 2 2.72.7 7.84 2.82.7 5.81 7.8 HKRA HY/2011/03 2019-06 Mul-Ebb <td>KLR H</td> <td>HY/2011/03</td> <td></td> <td></td> <td>Fine</td> <td>SR3(N)</td> <td></td> <td></td> <td>Surface</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.5</td> <td>3.1</td>	KLR H	HY/2011/03			Fine	SR3(N)			Surface								1.5	3.1
HHKR HY/201/03 2019.09.06 Melfebb Fine SR/ND 6-11 2.2 Bettern 3 2 26.48 BC2 26.13 78.4 5.41 1 HKR HY/201/03 2019.09.06 Melfebb Fine SMAR2 5.22 1.0 Surface 1 2 26.36 7.0 S.37 1 HKR HY/201/03 2019.09.06 Melfebb Fine SMAR2 5.22 2.7 Bottom 3 1 20.56 8.22 26.36 7.73 5.38 1 HKR HY/201/03 2019-0406 Melfebb Fine SMAR2 5.21 0 Surface 1 2 28.09 7.83 26.11 8.06 7.83 5.31 0 Surface 1 2.2 28.09 7.84 28.50 7.82 2.83 8.13 8.00 R.8 5.31 0 Surface 1 2.2 28.0 7.82 7.84 28.50 7.82 5.8		, ,			Fine				Surface								1.4	2.1
HHLR HY/2011/03 2019-09-06 Md-Ebb Frier SMRN2 5.22 1.0 Surface 1 1 27.12 8.22 25.08 7.82 5.37 1 HMLR HY/2011/03 2019-09-06 Md-Ebb Frier SMRN2 5.21 1.0 Surface 1 2 25.68 7.79 5.38 1.1 HMLR HY/2011/03 2019-09-06 Md-Ebb Frier SMNN 5.51 1.0 Surface 1 2 26.56 8.22 26.56 6.78 2 26.56 6.78 2 26.56 6.72 26.56 6.72 26.56 6.72 25.56 6.72 25.56 6.72 25.56 6.72 25.56 6.72 25.51 6.0 Surface 1 2 28.09 7.83 5.33 8.40 8 8.40 8.40 1.0 Surface 1 27.44 7.46 7.48 7.85 5.27 8 5.40 8 8.40		, ,			Fine	. ,			Bottom	-							1.5	4.6
HHR HY/201103 2019-90-6 Mid-Ebb Fine SMNN2 5:22 1.0 Surface 1 2 26:36 9:32 26:16 77:9 5:33 1 HKR HY/201103 2019-90-66 Mid-Ebb Fine SMNN 5:22 2.7 Bottom 3 2 26:56 8:22 26:54 7:8 5:36 1 HKR HY/201103 2019-90-66 Mid-Ebb Fine SNNN 5:51 4.0 Midele 1 2 28:09 7:83 25:31 39:8 5:33 8 HKR HY/201103 2019-90-66 Mid-Ebb Fine SNNN 5:51 4.0 Middle 2 2 27:44 7:84 2:83 7:85 5:21 8 HKR HY/201103 2019-90-66 Mid-Ebb Fine SNNN 5:10 6.9 Bottom 3 1 27:74 7:83 2:83 7:85 5:31 4 HKR HY/2		1 . 1			Fine	. ,	-		Bottom				-		-	-	1.6	4.8
HH(R HY/20103 2012-09-06 Md-Ebb Fine SMA(N2) 5:21 2.7 Bottom 3 1 26:76 2.22 20:83 77.9 5:88 1 HKR HY/2011/03 2019-09-06 Md-Ebb Fine SKN(N) 5:52 1.0 Surface 1 28:19 78.8 26:11 80:6 5:44 77.8 5:36 1.0 HKR HY/2011/03 2019-09-06 Md-Ebb Fine SKN(N) 5:51 4.0 Mddelte 2 27.4 7.84 28:99 78.9 5:33 8 HKR HY/2011/03 2019-09-06 Md-Ebb Fine SKN(N) 5:51 6.9 Bottom 3 1 27.74 7.84 28:27 78.5 5.31 7 HKR HY/2011/03 2019-09-06 Md-Ebb Fine SKN(N) 5:51 6.9 Bottom 3 2 27.66 7.84 28:27 78:5 5:40 Md <abblebb< td=""> Fine</abblebb<>	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR4(N2)	5:22		Surface	1				26.08			1.5	4.3
HHRR HY/2011/03 2019-09-06 Mid-Ebb Fine Stage Stage 2.2 2.8 Date 2.2 2.8 Date 7.8 5.36 1 HHRR HY/2011/03 2019-09-06 Mid-Ebb Fine StS(N) 5.51 1.0 Surface 1 2 28.00 7.83 26.13 7.98 5.30 8.0 HNRR HY/2011/03 2019-09-06 Mid-Ebb Fine StS(N) 5.51 4.0 Middle 2 2 27.74 7.84 28.93 7.85 5.27 8 HNRR HY/2011/03 2019-09-06 Mid-Ebb Fine StS(N) 5.51 6.9 Bottom 3 1 27.73 7.84 28.50 7.92 5.31 7.8 HNRR HY/2011/03 2019-09-06 Mid-Ebb Fine StS(N) 5.51 6.9 Bottom 3 1 27.86 7.84 28.23 8.13 5.40 7.8 48.14 1.1	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR4(N2)	5:22	1.0	Surface	1	2	26.98	8.22	26.16	77.9	5.37	1.4	4.6
HUR HY/2011/03 2019-09-66 Mid-Ebb Fine StS1 10 Surface 1 1 28.15 7.82 26.11 B0.6 5.40 8. HUR HY/2011/03 2019-09-06 Mid-Ebb Fine StS1N 5.51 4.0 Midele 2 1 27.84 7.84 26.99 7.89 5.31 8. HUR HY/2011/03 2019-09-06 Mid-Ebb Fine StS1N 5.51 4.0 Middle 2 27.74 7.84 28.50 7.92 5.31 8. HUR HY/2011/03 2019-09-06 Mid-Ebb Fine StS1N 4.6 10 Surface 1 2 28.01 7.84 28.50 7.92 5.31 4. HUR HY/2011/03 2019-09.06 Mid-Ebb Fine StRJN(N 4.46 6.4 Middle 2 2 7.83 26.73 80.5 5.44 4 HUR HY/2011/03 2019-09.06	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR4(N2)	5:21	2.7	Bottom	3	1	26.76	8.22	26.28	77.9	5.38	1.5	5.3
HHQB HY/2011/03 2019 09:6 Mid Ebb Fine StSN(N) 5:51 4.0 Middle 2 1 2 28.09 7.83 26.33 7.83 5.43 8 HHQB HY/2011/03 2019 09:0 Mid Ebb Fine StSN(N) 5:51 4.0 Middle 2 2 27.74 7.84 28.23 7.85 5.27 8 HHQB HY/2011/03 2019 09:0 Mid Ebb Fine StSN(N) 5:51 6.9 Bettron 3 2 27.88 7.84 28.20 7.92 5.31 7.8 HHQB HY/2011/03 2019 09:0 Mid Ebb Fine StBUN(N) 4.46 1.0 Surfac 1 2 28.01 7.84 28.53 8.63 5.43 4 HHQB HY/2011/03 2019 09:06 Mid Ebb Fine StBUN(N) 4.46 1.0 Surfac 1 2 28.01 7.85 28.57 80.5 5.44 4	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR4(N2)	5:22	2.7	Bottom	3	2	26.96	8.22	26.16	77.8	5.36	1.4	5.0
HUGB HY/D011/03 2019-09-06 Mid-Ebb Fine SS(h) 551 4.0 Middle 2 1 2734 7.84 2.59 7.89 5.33 8.8 HUGB HY/D011/03 2019-09-06 Mid-Ebb Fine SS(h) 5.51 6.9 Bottom 3 1 27.73 7.83 28.47 79.5 5.34 8 HUGB HY/D011/03 2019-09.06 Mid-Ebb Fine SS10.04 9.51 6.9 Bottom 3 1 27.76 7.84 26.32 1.5 5.4 8 HUGB HY/D011/03 2019-09.06 Mid-Ebb Fine SS10.04/N 4.44 1.0 Surface 1 2 28.07 7.84 26.33 8.13 5.49 3 HUGB HY/D011/03 2019-09.06 Mid-Ebb Fine SS10.04/N 4.44 6.4 Middeb 2 27.74 7.84 2.8.30 8.0.5 5.4.4 4 HUGB	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR5(N)	5:52	1.0	Surface	1	1	28.15	7.82	26.11	80.6	5.44	7.8	4.8
HURB HY/2011/03 2019 99 06 Mul-Ebb Fine SSIM 551 4.0 Mule 2 2 27.74 7.84 2.8.3 7.8.5 5.2.7 8.8 HURB HY/2011/03 2019 99 0.6 Mule/Ebb Fine SSIM 5.51 6.9 Bottom 3 2 27.68 7.84 2.8.47 7.9.5 5.3.4 8.8 HUR HY/2011/03 2019-09.06 Mule/Ebb Fine SSIL0AN 4.46 1.0 Surface 1 2.2.60 7.84 2.6.22 8.16 5.51 4 HUR HY/2011/03 2019-09.06 Mule/Ebb Fine SSIL0AN 4.46 6.4 Muldle 2 1 27.84 2.8.2 8.13 5.6.4 4 HUR HY/2011/03 2019-09.06 Mule/Ebb Fine SSIL0AN 4.46 1.1.7 Bottom 3 2 2.7.7.8 7.84 2.8.50 80.5 5.4.4 4 HUR HY/201	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR5(N)	5:51	1.0	Surface	1	2	28.09	7.83	26.13	79.8	5.40	8.2	4.2
HHKB HY/2011/03 2019-09-06 Mid-Ebb Fine SRIM 551 6.9 Bottom 3 1 27.73 7.83 28.47 79.5 5.34 8 HKB HY/2011/03 2019-09-06 Mid-Ebb Fine SRIDA(h) 4.45 1.0 Surface 1 1 28.06 7.84 28.22 81.6 5.51 4 HKB HY/2011/03 2019-09.66 Mid-Ebb Fine SRIDA(h) 4.46 6.4 Middle 2 1 22.86 7.85 26.78 80.3 5.43 4 HKB HY/2011/03 2019-09.66 Mid-Ebb Fine SRIDA(h) 4.45 1.1 Middle 2 1.27.69 7.85 28.53 80.6 5.41 4 HKR HY/2011/03 2019-09.66 Mid-Ebb Fine SRIDA(h) 4.45 1.1 Bottom 3 2 27.4 7.82 28.05 80.5 5.44 4.5 1.4 1.00	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR5(N)	5:51	4.0	Middle	2	1	27.84	7.84	26.99	78.9	5.33	8.2	4.7
HKB HY/2011/03 2019-09-06 Mid-Ebb Fine \$\$RU0N 5.51 6.9 Bortom 3 2 27.68 7.84 28.50 7.92 5.31 7.9 HKB HY/2011/03 2019-09-06 Mid-Ebb Fine \$\$RU0A(N) 446 1.0 Surface 1 22.80.1 7.84 26.32 81.3 5.49 3 HKB HY/2011/03 2019-09-06 Mid-Ebb Fine \$\$RU0A(N) 446 6.4 Middle 2 2.7.87 7.85 26.73 80.5 5.44 4 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine \$\$RU0A(N) 445 1.1.7 Bortom 3 1 27.67 7.84 26.16 86.6 5.8.6 3 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine \$\$R108(N2) 4.37 1.0 Surface 1 2 28.02 7.86 26.75 84.4 5.65 3 HKR HY/20	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR5(N)	5:51	4.0	Middle	2	2	27.74	7.84	28.35	78.5	5.27	8.5	3.9
HHR HY/2011/03 2019.09.06 Mul-Ebb Fine SEI0/(0) 4.45 1.0 Surface 1 1 28.01 7.84 26.32 81.6 5.51 4 HKR HY/2011/03 2019.09.06 Mul-Ebb Fine SEI0.0NI 4.46 6.4 Muldle 2 2 27.87 7.85 26.75 80.3 5.43 4.4 HKR HY/2011/03 2019.09.06 Mul-Ebb Fine SEI0.0NI 4.45 6.4 Muldle 2 2 27.87 7.85 28.53 80.0 5.44 4.4 HKR HY/2011/03 2019.09.06 Mul-Ebb Fine SEI0.0NI 4.46 11.7 Bottom 3 2 27.74 7.84 28.30 80.3 5.40 4 HKR HY/2011/03 2019.09.06 Mul-Ebb Fine SEI0.012 1.0 SUFrace 1 2 28.00 7.85 28.53 8.0.5 5.66 5.79 3	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR5(N)	5:51	6.9	Bottom	3	1	27.73	7.83	28.47	79.5	5.34	8.2	4.5
HHUR HY/2011/03 2019.90-6 Mid-Ebb Fine SR10A(N) 4.46 10 Surface 1 2 28.01 7.44 26.33 81.3 5.49 3 HKUR HY/2011/03 2019.90-66 Mid-Ebb Fine SR10A(N) 4.46 6.4 Middle 2 1 27.86 7.85 26.75 80.3 5.43 4. HKUR HY/2011/03 2019.90-66 Mid-Ebb Fine SR10A(N) 4.45 6.4 Middle 2 2 27.74 7.85 28.53 80.6 5.41 3 HKUR HY/2011/03 2019.90-66 Mid-Ebb Fine SR108(N2) 4.37 1.0 Surface 1 1 28.10 7.86 26.57 84.4 5.65 3 HKUR HY/2011/03 2019.90-6 Mid-Ebb Fine SR108(N2) 4.37 3.2 Middle 2 1 27.78 7.88 26.80 85.6 5.79 3.1	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR5(N)	5:51	6.9	Bottom	3	2	27.68	7.84	28.50	79.2	5.31	7.9	3.7
HKB HY/2011/03 2019-99-06 Mid-Ebb Fine SRIDA(N) 44.6 6.4 Midle 2 1 27.86 26.75 80.3 5.43 4 HKB HY/2011/03 2019-99-06 Mid-Ebb Fine SRIDA(N) 44.5 11.7 Bottom 3 1 27.67 7.85 26.75 80.5 5.44 4 HKR HY/2011/03 2019-99-06 Mid-Ebb Fine SRIDA(N) 4.46 11.7 Bottom 3 2 27.74 7.84 28.50 80.5 5.40 4 HKR HY/2011/03 2019-99-06 Mid-Ebb Fine SRID0RN2 4.37 1.0 Surface 1 2 2.80.2 7.86 26.28 91.5 6.14 3. HKR HY/2011/03 2019-99-06 Mid-Ebb Fine SRID0RN2 4.37 3.2 Middle 2 2.7.78 7.88 2.6.80 8.5.6 5.79 3. HKR HY/2011/03	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR10A(N)	4:45	1.0	Surface	1	1	28.06	7.84	26.22	81.6	5.51	4.2	3.6
HKR HY/2011/03 2019-09-06 Mid-Ebb Fine SR10A(N) 4.45 1.1 Bottom 3 1 27.69 7.85 28.75 80.5 5.44 4.45 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine SR10A(N) 4.45 11.7 Bottom 3 2 27.74 7.84 28.50 80.5 5.40 4 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine SR108(N2) 4.37 1.0 Surface 1 2 28.00 7.84 26.16 86.6 5.86 3.3 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine SR108(N2) 4.37 3.2 Middle 2 1 27.83 7.86 26.75 84.4 5.65 5.79 3.3 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine SR108(N2) 4.37 5.3 Bottom 3 1 27.77 7.88 28.25 83.1 5.61 4<	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR10A(N)	4:46	1.0	Surface	1	2	28.01	7.84	26.33	81.3	5.49	3.9	3.6
HKR HY/2011/03 2019-09-06 Mid-bb Fine SR10A(N) 4.45 11.7 Bottom 3 1 27.69 7.85 28.53 80.6 5.41 3 HKR HY/2011/03 2019-09-06 Mid-bb Fine SR108(N2) 4.37 1.0 Surface 1 1 28.10 7.84 28.50 80.5 5.40 4. HKR HY/2011/03 2019-09-06 Mid-bb Fine SR108(N2) 4.37 1.0 Surface 1 2 28.02 7.86 26.28 91.5 6.14 3. HKR HY/2011/03 2019-09-06 Mid-bb Fine SR108(N2) 4.37 3.2 Middle 2 2 27.78 7.88 26.80 85.6 5.79 3. HKR HY/2011/03 2019-09-06 Mid-bb Fine SR108(N2) 4.37 5.3 Bottom 3 2 7.74 7.88 28.29 83.1 5.61 4.	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR10A(N)	4:46	6.4	Middle	2	1	27.86	7.85	26.78	80.3	5.43	4.1	2.8
HKR HY/2011/03 2019-09-06 Mid-Ebb Fine \$\$10.0(N) 4.46 11.7 Bottom 3 2 27.74 7.84 28.50 80.5 5.40 4 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine \$\$R108(N2) 4.37 1.0 Surface 1 2 28.02 7.86 26.18 86.5 5.86 3 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine \$\$R108(N2) 4.37 3.2 Middle 2 2 7.78 7.88 26.05 84.4 5.65 3 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine \$\$R108(N2) 4.37 5.3 Bottom 3 1 27.77 7.88 28.25 83.1 5.61 4 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine \$	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR10A(N)	4:45	6.4	Middle	2	2	27.87	7.85	26.75	80.5	5.44	4.0	3.7
HKR HY/2011/03 2019-09-06 Mid-Ebb Fine SR10B(N2) 4:37 1.0 Surface 1 2 2.0.0 7.84 2.6.16 8.6.6 5.8.6 3.3 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine SR10B(N2) 4:37 3.2 Middle 2 1 27.83 7.86 2.6.75 8.44 5.65 3.4 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine SR10B(N2) 4:37 3.2 Middle 2 2 27.78 7.88 2.8.20 8.5.6 5.79 3.3 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine SR10B(N2) 4:37 5.3 Bottom 3 2 27.94 7.84 28.39 82.9 5.61 4.4 HKR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6.52 1.0 Surface 1 2 28.16 7.81 26.16 8.13 5.44 8 <td< td=""><td>KLR H</td><td>HY/2011/03</td><td>2019-09-06</td><td>Mid-Ebb</td><td>Fine</td><td>SR10A(N)</td><td>4:45</td><td>11.7</td><td>Bottom</td><td>3</td><td>1</td><td>27.69</td><td>7.85</td><td>28.53</td><td>80.6</td><td>5.41</td><td>3.8</td><td>3.5</td></td<>	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR10A(N)	4:45	11.7	Bottom	3	1	27.69	7.85	28.53	80.6	5.41	3.8	3.5
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine SR108(N2) 4:37 1.0 Surface 1 2 28.02 7.86 26.28 91.5 6.14 3.3 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine SR108(N2) 4:37 3.2 Middle 2 2 27.78 7.86 26.75 84.4 5.65 3.3 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine SR108(N2) 4:37 5.3 Bottom 3 1 27.77 7.88 28.25 83.1 5.61 4 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 65.3 1.0 Surface 1 2 28.16 7.81 26.16 81.3 5.44 8 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 652 3.0 Middle 2 1 27.83 7.83 26.77 79.7 5.39 8	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR10A(N)	4:46	11.7	Bottom	3	2	27.74	7.84	28.50	80.5	5.40	4.0	4.5
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine \$\$R108(N2) 4:37 3.2 Middle 2 1 27.83 7.86 26.75 84.4 5.65 3.3 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine \$\$R108(N2) 4:37 5.3 Bottom 3 1 27.77 7.88 26.80 85.6 5.79 3 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine \$\$R108(N2) 4:37 5.3 Bottom 3 2 27.94 7.84 28.25 81.6 5.51 7 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 1.0 Surface 1 28.16 7.81 26.61 81.3 5.49 7 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 3.0 Middle 2 27.87 7.83 26.70 80.1 5.38 8 10 HKLR </td <td>KLR H</td> <td>HY/2011/03</td> <td>2019-09-06</td> <td>Mid-Ebb</td> <td>Fine</td> <td>SR10B(N2)</td> <td>4:37</td> <td>1.0</td> <td>Surface</td> <td>1</td> <td>1</td> <td>28.10</td> <td>7.84</td> <td>26.16</td> <td>86.6</td> <td>5.86</td> <td>3.6</td> <td>3.2</td>	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR10B(N2)	4:37	1.0	Surface	1	1	28.10	7.84	26.16	86.6	5.86	3.6	3.2
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine SR108(N2) 4:37 3.2 Middle 2 2 27.78 7.88 26.80 85.6 5.79 3.3 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine SR108(N2) 4:37 5.3 Bottom 3 1 27.77 7.88 28.25 83.1 5.61 4.4 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:53 1.0 Surface 1 1 28.13 7.81 26.22 81.6 5.51 7 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 3.0 Middle 2 1 27.78 7.83 26.70 80.5 5.44 8 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 5.0 Bottom 3 1 27.70 7.83 28.70 79.7 5.39 8	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR10B(N2)	4:37	1.0	Surface	1	2	28.02	7.86	26.28	91.5	6.14	3.5	4.2
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine SR10B(N2) 4:37 5.3 Bottom 3 1 27.77 7.88 28.25 83.1 5.61 44 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine SR10B(N2) 4:37 5.3 Bottom 3 2 27.94 7.84 28.39 82.9 5.61 44 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:53 1.0 Surface 1 2 28.16 7.81 26.16 81.3 5.49 7. HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 3.0 Middle 2 27.83 7.83 26.77 7.9.7 5.39 88 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 5.0 Bottom 3 1 27.90 7.81 28.62 81.1 5.38 10 HKLR	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR10B(N2)	4:37	3.2	Middle	2	1	27.83	7.86	26.75	84.4	5.65	3.5	3.2
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine SR108(N2) 4:37 5.3 Bottom 3 2 27.94 7.84 28.39 82.9 5.61 4. HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:53 1.0 Surface 1 28.16 7.81 26.22 81.6 5.51 7. HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:53 3.0 Middle 2 1 27.87 7.83 26.70 80.5 5.44 8. HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 3.0 Middle 2 2 7.83 26.70 80.5 5.44 8. 10 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 5.0 Bottom 3 2 27.90 7.81 28.35 81.1 5.43 9. HKLR	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR10B(N2)	4:37	3.2	Middle	2	2	27.78	7.88	26.80	85.6	5.79	3.7	2.9
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6-53 1.0 Surface 1 1 28.13 7.81 26.22 81.6 5.51 7.7 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 3.0 Middle 2 1 27.87 7.83 26.70 80.5 5.44 8.8 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 3.0 Middle 2 2 27.83 7.83 26.77 79.7 5.39 8.8 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 5.0 Bottom 3 1 27.72 7.81 28.83 81.1 5.43 9 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(M/J5 4.42 1.0 Surface 1 26.94 8.23 26.13 7.65 5.26 2 HKLR	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR10B(N2)	4:37	5.3	Bottom	3	1	27.77	7.88	28.25	83.1	5.61	4.2	5.8
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 1.0 Surface 1 2 28.16 7.81 26.16 81.3 5.49 7. HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 3.0 Middle 2 1 27.87 7.83 26.77 79.7 5.39 8 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 5.0 Bottom 3 1 27.72 7.83 26.77 79.7 5.39 8 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 5.0 Bottom 3 2 27.90 7.81 28.35 81.1 5.43 9 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4.42 1.0 Surface 1 2 27.10 8.24 26.13 76.5 5.26 2.2 <	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	SR10B(N2)	4:37	5.3	Bottom	3	2	27.94	7.84	28.39	82.9	5.61	4.4	4.8
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:53 3.0 Middle 2 1 27.87 7.83 26.70 80.5 5.44 88. HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 3.0 Middle 2 2 27.83 7.83 26.77 79.7 5.39 88. HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 5.0 Bottom 3 1 27.72 7.81 28.55 81.1 5.43 99. HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4.43 1.0 Surface 1 1 26.94 8.23 26.22 74.4 5.12 2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4.42 1.0 Surface 1 2 27.10 8.24 26.78 75.7 5.20 2	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	CS2(A)	6:53	1.0	Surface	1	1	28.13	7.81	26.22	81.6	5.51	7.9	4.9
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 3.0 Middle 2 2 27.83 7.83 26.77 79.7 5.39 8. HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 5.0 Bottom 3 1 27.72 7.82 28.47 80.1 5.38 10 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 5.0 Bottom 3 2 27.90 7.81 28.35 81.1 5.43 99 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 1.0 Surface 1 2 27.10 8.24 26.13 76.5 5.26 2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 6.1 Middle 2 2 2.6.62 8.24 26.78 75.7 5.20 2 HKLR	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	CS2(A)	6:52	1.0	Surface	1	2	28.16	7.81	26.16	81.3	5.49	7.7	4.6
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 5.0 Bottom 3 1 27.72 7.82 28.47 80.1 5.38 10 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 5.0 Bottom 3 2 27.90 7.81 28.35 81.1 5.43 9.9 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:43 1.0 Surface 1 1 26.94 8.23 26.22 74.4 5.12 2.2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 1.0 Surface 1 2 27.10 8.24 26.33 76.5 5.26 2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:41 6.1 Middle 2 2 26.62 8.24 26.78 75.7 5.20 2	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	CS2(A)	6:53	3.0	Middle	2	1	27.87	7.83	26.70	80.5	5.44	8.5	5.4
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS2(A) 6:52 5.0 Bottom 3 2 27.90 7.81 28.35 81.1 5.43 9.9 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:43 1.0 Surface 1 1 26.94 8.23 26.22 74.4 5.12 2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 1.0 Surface 1 2 27.10 8.24 26.13 76.5 5.26 2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 1.0 Midele 2 1 26.64 8.23 26.79 75.7 5.20 2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:41 11.1 Bottom 3 2 26.52 8.23 27.91 73.7 5.09 2	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	CS2(A)	6:52	3.0	Middle	2	2	27.83	7.83	26.77	79.7	5.39	8.7	5.8
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:43 1.0 Surface 1 1 26.94 8.23 26.22 74.4 5.12 2.2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 1.0 Surface 1 2 27.10 8.24 26.13 76.5 5.26 2.2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 6.1 Middle 2 1 26.64 8.23 26.49 74.3 5.11 2.2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:41 6.1 Middle 2 2 26.62 8.24 26.78 75.7 5.20 2.2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 11.1 Bottom 3 1 26.52 8.22 27.85 73.4 5.07 HKLR </td <td>KLR H</td> <td>HY/2011/03</td> <td>2019-09-06</td> <td>Mid-Ebb</td> <td>Fine</td> <td>CS2(A)</td> <td>6:52</td> <td>5.0</td> <td>Bottom</td> <td>3</td> <td>1</td> <td>27.72</td> <td>7.82</td> <td>28.47</td> <td>80.1</td> <td>5.38</td> <td>10.3</td> <td>3.0</td>	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	CS2(A)	6:52	5.0	Bottom	3	1	27.72	7.82	28.47	80.1	5.38	10.3	3.0
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 1.0 Surface 1 2 27.10 8.24 26.13 76.5 5.26 2.2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 6.1 Middle 2 1 26.64 8.23 26.49 74.3 5.11 2.2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:41 6.1 Middle 2 2 26.62 8.24 26.78 75.7 5.20 2.2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:41 11.1 Bottom 3 1 26.49 8.23 27.91 73.7 5.09 2.2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 1.1 Bottom 3 2 26.37 83.0 5.68 4.4 HKLR HY/2011/0	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	CS2(A)	6:52	5.0	Bottom	3	2	27.90	7.81	28.35	81.1	5.43	9.6	2.7
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 6.1 Middle 2 1 26.64 8.23 26.49 74.3 5.11 2.2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:41 6.1 Middle 2 2 26.62 8.24 26.78 75.7 5.20 2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:41 11.1 Bottom 3 1 26.62 8.23 27.91 73.7 5.09 2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 11.1 Bottom 3 2 26.52 8.22 27.85 73.4 5.07 2 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 1.0 Surface 1 2 27.29 8.29 26.37 87.8 6.00 55	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine	CS(Mf)5	4:43	1.0	Surface	1	1	26.94	8.23	26.22	74.4	5.12	2.5	3.8
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 6.1 Middle 2 1 26.64 8.23 26.49 74.3 5.11 2.2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:41 6.1 Middle 2 2 26.62 8.24 26.78 75.7 5.20 2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:41 11.1 Bottom 3 1 26.62 8.24 26.78 73.7 5.09 2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 11.1 Bottom 3 2 26.52 8.22 27.85 73.4 5.07 2 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 1.0 Surface 1 2 27.29 8.29 26.37 87.8 6.00 55	KLR H	HY/2011/03	2019-09-06	Mid-Ebb	Fine		4:42	1.0		1	2				76.5		2.5	2.9
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:41 6.1 Middle 2 2 26.62 8.24 26.78 75.7 5.20 2.2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:41 11.1 Bottom 3 1 26.62 8.24 26.78 75.7 5.09 2 HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 11.1 Bottom 3 2 26.52 8.22 27.85 73.4 5.07 2 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:50 1.0 Surface 1 1 27.31 8.27 26.39 83.0 5.68 4 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 1.0 Surface 1 2 27.29 8.29 26.37 87.8 6.00 5.5					Fine		4:42	6.1					8.23	26.49		5.11	2.8	3.8
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:41 11.1 Bottom 3 1 26.49 8.23 27.91 73.7 5.09 2. HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 11.1 Bottom 3 2 26.52 8.22 27.85 73.4 5.07 2 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:50 1.0 Surface 1 1 27.31 8.27 26.39 83.0 5.68 4.4 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 1.0 Surface 1 2 27.29 8.29 26.37 87.8 6.00 5.72 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 4.2 Middle 2 2 27.21 8.28 26.73 81.0 5.53 6.		, ,				. ,	4:41				2						2.8	4.8
HKLR HY/2011/03 2019-09-06 Mid-Ebb Fine CS(Mf)5 4:42 11.1 Bottom 3 2 26.52 8.22 27.85 73.4 5.07 2.2 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:50 1.0 Surface 1 1 27.31 8.27 26.39 83.0 5.68 4.4 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 1.0 Surface 1 2 27.29 8.29 26.37 87.8 6.00 55 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 4.2 Middle 2 1 27.18 8.30 26.82 83.7 5.72 6. HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 4.2 Middle 2 2 27.21 8.28 26.73 81.0 5.53 6.																	2.8	5.5
HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny ISS 11:50 1.0 Surface 1 1 27.31 8.27 26.39 83.0 5.68 44. HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny ISS 11:49 1.0 Surface 1 2 27.29 8.29 26.37 87.8 6.00 5. HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny ISS 11:49 4.2 Middle 2 1 27.18 8.30 26.82 83.7 5.72 6. HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny ISS 11:49 4.2 Middle 2 2 27.21 8.28 26.73 81.0 5.53 6. HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny ISS 11:49 7.3 Bottom 3 1 27.17 8.30 26.95 82.5 5.65 6.		, ,				. ,				3							2.7	4.7
HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 1.0 Surface 1 2 27.29 8.29 26.37 87.8 6.00 5.5 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 4.2 Middle 2 1 27.18 8.30 26.82 83.7 5.72 6. HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 4.2 Middle 2 2 27.21 8.28 26.37 87.8 6.00 5.53 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 7.3 Bottom 3 1 27.17 8.30 26.95 82.5 5.65 6. HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 7.3 Bottom 3 2 27.17 8.30 26.95 82.5 5.65 6.		, ,															4.8	3.5
HKIR HY/2011/03 2019-09-06 Mid-Flood Sunny ISS 11:49 4.2 Middle 2 1 27.18 8.30 26.82 83.7 5.72 6.73 HKIR HY/2011/03 2019-09-06 Mid-Flood Sunny ISS 11:49 4.2 Middle 2 2 27.21 8.28 26.73 81.0 5.53 6.6 HKIR HY/2011/03 2019-09-06 Mid-Flood Sunny ISS 11:49 7.3 Bottom 3 1 27.17 8.30 26.95 82.5 5.65 6.6 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny ISS 11:49 7.3 Bottom 3 1 27.17 8.30 26.95 82.5 5.65 6.6 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny ISS 11:49 7.3 Bottom 3 2 27.19 8.27 26.88 80.9 5.53 5.5					,			-									5.1	4.5
HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 4.2 Middle 2 2 27.21 8.28 26.73 81.0 5.53 6.6 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 7.3 Bottom 3 1 27.17 8.30 26.95 82.5 5.65 6.6 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 7.3 Bottom 3 2 27.19 8.27 26.88 80.9 5.53 5.5 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 7.3 Bottom 3 2 27.19 8.27 26.88 80.9 5.53 5.5 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS(Mf)6 11:59 1.0 Surface 1 1 27.55 8.29 26.20 88.5 6.04 3.3							-	-		2							6.4	3.8
HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 7.3 Bottom 3 1 27.17 8.30 26.95 82.5 5.65 6.6 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 7.3 Bottom 3 2 27.19 8.27 26.88 80.9 5.53 5.5 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS(Mf)6 11:59 1.0 Surface 1 1 27.55 8.29 26.20 88.5 6.04 3. HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS(Mf)6 11:59 1.0 Surface 1 1 27.48 8.27 26.18 84.8 5.79 3. HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS(Mf)6 11:59 1.0 Surface 1 2 27.48 8.27 26.18 84.8 5.79 3. <td></td> <td>6.1</td> <td>4.7</td>																	6.1	4.7
HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS5 11:49 7.3 Bottom 3 2 27.19 8.27 26.88 80.9 5.53 5.53 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS(Mf)6 11:59 1.0 Surface 1 1 27.55 8.29 26.20 88.5 6.04 3.3 HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS(Mf)6 11:59 1.0 Surface 1 2 27.48 8.27 26.18 84.8 5.79 3.3		, ,			,												6.1	4.7
HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS(Mf)6 11:59 1.0 Surface 1 1 27.55 8.29 26.20 88.5 6.04 3. HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS(Mf)6 11:59 1.0 Surface 1 2 27.48 8.27 26.18 84.8 5.79 3.		, ,			,												5.9	4.4
HKLR HY/2011/03 2019-09-06 Mid-Flood Sunny IS(Mf)6 11:59 1.0 Surface 1 2 27.48 8.27 26.18 84.8 5.79 3.0		, ,			,												3.8	3.5
					,												3.7	2.5
		HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS(Mf)6	11:58	2.1	Bottom	3	1	27.48	8.31	26.13	91.2	6.23	3.8	5.0
		, ,			,	. ,									-		3.8	4.1

	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS7	12:11	1.0	Surface	1	1	27.67	8.27	26.31	82.5	5.61	2.2	3.6
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS7	12:10	1.0	Surface	1	2	27.67	8.28	26.32	83.1	5.65	2.1	4.6
	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS7	12:10	2.1	Bottom	3	1	27.66	8.28	26.32	82.8	5.63	2.5	5.9
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS7	12:10	2.1	Bottom	3	2	27.69	8.30	26.32	87.5	5.95	2.5	5.6
	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS8(N)	12:42	1.0	Surface	1	1	27.54	8.30	25.63	89.6	6.12	3.2	2.6
	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS8(N)	12:42	1.0	Surface	1	2	27.62	8.28	25.58	87.0	5.94	3.3	2.8
	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS8(N)	12:42	3.1	Bottom	3	1	27.58	8.29	25.61	87.9	6.01	3.5	3.5
	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS8(N)	12:42	3.1	Bottom	3	2	27.43	8.32	25.70	91.9	6.30	3.6	3.4
	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS(Mf)9	12:21	1.0	Surface	1	1	27.14	8.35	26.31	86.7	5.95	5.2	4.2
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS(Mf)9	12:22	1.0	Surface	1	2	27.20	8.32	26.21	83.4	5.72	5.5	4.9
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS(Mf)9	12:21	2.7	Bottom	3	1	27.18	8.34	26.28	85.3	5.85	5.4	5.1
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS(Mf)9	12:21	2.7	Bottom	3	2	27.11	8.32	26.46	89.3	6.12	5.5	4.4
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS10(N)	12:23	1.0	Surface	1	1	28.07	7.69	23.91	77.8	5.32	11.2	3.7
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS10(N)	12:23	1.0	Surface	1	2	28.17	7.69	23.71	79.1	5.41	10.9	4.7
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS10(N)	12:23	5.3	Middle	2	1	27.86	7.68	25.48	77.6	5.28	12.3	2.6
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS10(N)	12:23	5.3	Middle	2	2	27.88	7.68	25.46	77.7	5.29	12.8	3.6
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS10(N)	12:23	9.5	Bottom	3	1	27.99	7.68	25.42	79.1	5.38	12.8	2.8
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	IS10(N)	12:23	9.5	Bottom	3	2	27.90	7.68	25.48	78.7	5.36	13.0	2.7
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR3(N)	11:40	1.0	Surface	1	1	27.18	8.29	26.73	82.1	5.62	5.5	8.6
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR3(N)	11:40	1.0	Surface	1	2	27.18	8.31	26.72	82.9	5.67	5.3	9.5
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR3(N)	11:40	2.2	Bottom	3	1	27.13	8.30	26.84	82.3	5.63	5.7	9.9
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR3(N)	11:40	2.2	Bottom	3	2	27.12	8.33	26.86	83.8	5.73	5.5	10.9
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR4(N2)	12:36	1.0	Surface	1	1	27.14	8.33	25.84	94.4	6.50	2.1	5.8
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR4(N2)	12:36	1.0	Surface	1	2	27.06	8.33	25.94	90.4	6.22	2.1	4.8
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR4(N2)	12:36	2.8	Bottom	3	1	26.98	8.33	26.21	86.8	5.97	2.0	5.5
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR4(N2)	12:36	2.8	Bottom	3	2	27.03	8.34	26.14	85.5	5.88	2.2	5.8
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR5(N)	12:14	1.0	Surface	1	1	28.17	7.70	23.84	79.0	5.40	10.4	6.4
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR5(N)	12:14	1.0	Surface	1	2	28.12	7.70	23.87	79.1	5.41	10.6	5.8
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR5(N)	12:14	3.9	Middle	2	1	27.94	7.70	25.09	78.2	5.33	11.9	6.8
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR5(N)	12:14	3.9	Middle	2	2	27.96	7.69	25.13	78.6	5.36	11.5	5.9
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR5(N)	12:14	6.7	Bottom	3	1	28.14	7.69	25.33	79.6	5.40	11.7	5.1
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR5(N)	12:14	6.7	Bottom	3	2	27.89	7.69	25.48	79.1	5.38	12.0	4.7
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR10A(N)	13:22	1.0	Surface	1	1	27.66	7.72	27.30	80.4	5.41	5.0	4.1
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR10A(N)	13:21	1.0	Surface	1	2	27.75	7.72	27.12	79.3	5.38	5.0	5.1
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR10A(N)	13:22	6.5	Middle	2	1	27.45	7.73	28.36	75.2	5.12	4.9	3.4
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR10A(N)	13:21	6.5	Middle	2	2	27.43	7.74	28.44	76.1	5.18	5.2	8.4
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR10A(N)	13:21	11.9	Bottom	3	1	27.50	7.72	28.32	73.7	5.01	7.1	4.5
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR10A(N)	13:21	11.9	Bottom	3	2	27.54	7.73	28.34	73.9	5.04	7.2	4.1
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR10B(N2)	13:32	1.0	Surface	1	1	27.88	7.70	26.78	75.3	5.13	4.7	2.8
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR10B(N2)	13:31	1.0	Surface	1	2	27.71	7.72	27.19	74.5	5.08	4.4	2.4
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR10B(N2)	13:31	3.3	Middle	2	1	27.52	7.72	27.96	74.0	5.04	4.8	3.4
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR10B(N2)	13:32	3.3	Middle	2	2	27.51	7.71	27.99	73.7	5.02	5.0	7.0
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR10B(N2)	13:31	5.6	Bottom	3	1	27.55	7.71	28.00	74.3	5.06	5.6	3.8
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	SR10B(N2)	13:31	5.6	Bottom	3	2	27.56	7.71	27.95	74.8	5.09	5.7	3.2
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	CS2(A)	11:36	1.0	Surface	1	1	28.26	7.71	23.80	80.9	5.52	9.0	4.6
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	CS2(A)	11:35	1.0	Surface	1	2	28.23	7.73	23.78	81.8	5.59	9.1	5.5
	HY/2011/03	2019-09-06	Mid-Flood	Sunny	CS2(A)	11:36	3.1	Middle	2	1	28.00	7.71	24.91	79.9	5.45	9.2	3.3
	HY/2011/03	2019-09-06	Mid-Flood	Sunny	CS2(A)	11:35	3.1	Middle	2	2	28.09	7.74	24.71	81.2	5.53	9.8	4.3
	HY/2011/03	2019-09-06	Mid-Flood	Sunny	CS2(A)	11:35	5.2	Bottom	3	1	27.93	7.71	25.47	80.9	5.50	10.0	4.6
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	CS2(A)	11:35	5.2	Bottom	3	2	27.86	7.76	25.53	82.4	5.61	10.6	3.7
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	CS(Mf)5	13:07	1.0	Surface	1	1	26.85	8.34	27.10	78.0	5.32	2.5	5.7
	HY/2011/03	2019-09-06	Mid-Flood	Sunny	CS(Mf)5	13:08	1.0	Surface	1	2	27.14	8.30	26.91	73.9	5.05	2.5	4.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	CS(Mf)5	13:07	6.1	Middle	2	1	26.34	8.35	29.16	73.6	5.04	4.1	4.9
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	CS(Mf)5	13:08	6.1	Middle	2	2	26.32	8.30	29.36	73.6	5.05	4.1	3.9
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	CS(Mf)5	13:07	11.1	Bottom	3	1	26.28	8.36	29.89	72.7	4.95	4.2	4.4
HKLR	HY/2011/03	2019-09-06	Mid-Flood	Sunny	CS(Mf)5	13:08	11.1	Bottom	3	2	26.44	8.30	29.70	70.2	4.80	4.1	3.4
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS5	10:42	1.0	Surface	1	1	29.17	8.48	22.52	98.8	6.67	3.4	5.0
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS5	10:41	1.0	Surface	1	2	29.17	8.44	22.39	102.9	6.97	3.4	5.0
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS5	10:41	4.1	Middle	2	1	27.11	8.44	29.06	86.9	5.86	3.5	5.1
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS5	10:41	4.1	Middle	2	2	27.08	8.44	29.16	87.8	5.94	3.5	5.2
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS5	10:41	7.1	Bottom	3	1	27.03	8.45	29.57	78.7	5.33	3.5	5.2
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS5	10:41	7.1	Bottom	3	2	27.01	8.48	29.57	79.1	5.35	3.5	5.3
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS(Mf)6	10:32	1.0	Surface	1	1	28.99	8.44	22.19	133.3	9.07	2.2	5.9
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS(Mf)6	10:32	1.0	Surface	1	2	29.08	8.45	21.90	143.1	9.74	2.2	5.6
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS(Mf)6	10:31	2.1	Bottom	3	1	28.92	8.46	23.62	132.8	9.04	2.1	5.4
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS(Mf)6	10:32	2.1	Bottom	3	2	28.98	8.46	23.75	138.7	9.36	2.1	5.5
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS7	10:23	1.0	Surface	1	1	28.70	8.51	22.72	111.8	7.60	8.5	6.0
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS7	10:23	1.0	Surface	1	2	28.81	8.51	22.63	122.3	8.33	8.5	5.6
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS7	10:23	2.1	Bottom	3	1	28.41	8.50	24.62	99.7	6.76	8.5	4.4
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS7	10:23	2.1	Bottom	3	2	28.77	8.50	22.92	103.1	7.03	8.6	4.4
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS8(N)	9:54	1.0	Surface	1	1	28.66	8.52	20.73	111.0	7.65	3.9	5.4
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS8(N)	9:54	1.0	Surface	1	2	28.56	8.56	21.36	112.0	7.71	3.8	6.2
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS8(N)	9:54	3.1	Bottom	3	1	28.44	8.52	24.21	114.1	7.75	4.4	7.9
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS8(N)	9:53	3.1	Bottom	3	2	28.19	8.50	24.78	110.2	7.49	4.5	7.2
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS(Mf)9	10:15	1.0	Surface	1	1	28.80	8.43	21.88	136.0	9.30	3.6	5.2
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS(Mf)9	10:15	1.0	Surface	1	2	28.91	8.41	22.34	139.8	9.52	3.5	4.7
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS(Mf)9	10:14	2.6	Bottom	3	1	28.56	8.41	25.43	137.5	9.44	3.5	4.3
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS(Mf)9	10:15	2.6	Bottom	3	2	28.96	8.44	25.13	142.4	9.54	3.5	4.1
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS10(N)	10:01	1.0	Surface	1	1	29.27	7.86	20.47	89.1	6.10	2.5	4.1
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS10(N)	10:00	1.0	Surface	1	2	29.29	7.87	20.36	89.2	6.10	2.5	3.5
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS10(N)	10:00	5.2	Middle	2	1	28.89	7.81	22.92	82.5	5.60	2.5	4.7
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS10(N)	10:01	5.2	Middle	2	2	28.99	7.81	22.26	82.8	5.63	2.6	4.8
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS10(N)	10:00	9.3	Bottom	3	1	28.65	7.78	24.49	80.9	5.47	2.8	5.4
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	IS10(N)	10:00	9.3	Bottom	3	2	28.47	7.76	25.24	80.6	5.44	2.9	5.3
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR3(N)	10:51	1.0	Surface	1	1	29.49	8.44	21.17	149.0	10.11	2.6	3.6
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR3(N)	10:52	1.0	Surface	1	2	29.45	8.42	21.44	157.7	10.69	2.4	3.5
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR3(N)	10:51	2.1	Bottom	3	1	29.40	8.44	23.11	148.3	10.05	2.6	5.5
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR3(N)	10:51	2.1	Bottom	3	2	29.44	8.43	22.98	156.9	10.55	2.5	5.5
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR4(N2)	10:02	1.0	Surface	1	1	28.51	8.51	20.09	104.6	7.26	2.5	4.7
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR4(N2)	10:02	1.0	Surface	1	2	28.57	8.53	20.52	100.6	6.96	2.3	4.5
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR4(N2)	10:02	2.7	Bottom	3	1	28.44	8.49	23.03	103.0	7.04	3.3	5.5
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR4(N2)	10:02	2.7	Bottom	3	2	28.31	8.49	22.87	101.7	6.97	3.2	5.0
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR5(N)	10:12	1.0	Surface	1	1	29.31	7.86	20.25	88.9	6.08	3.7	6.8
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR5(N)	10:13	1.0	Surface	1	2	29.32	7.86	20.38	89.7	6.13	3.6	7.1
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR5(N)	10:13	3.9	Middle	2	1	28.91	7.80	22.76	82.6	5.61	4.0	8.0
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR5(N)	10:12	3.9	Middle	2	2	28.99	7.81	22.31	83.2	5.66	3.9	8.0
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR5(N)	10:12	6.8	Bottom	3	1	28.45	7.75	25.24	79.2	5.35	4.2	9.3
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR5(N)	10:11	6.8	Bottom	3	2	28.44	7.76	25.33	79.4	5.36	4.1	8.6
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR10A(N)	8:58	1.0	Surface	1	1	29.37	7.97	20.98	105.2	7.16	2.2	5.9
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR10A(N)	8:57	1.0	Surface	1	2	29.36	7.97	21.83	105.4	7.14	2.2	6.5
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR10A(N)	8:57	6.7	Middle	2	1	29.34	7.96	21.95	103.7	7.02	2.4	4.2
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR10A(N)	8:58	6.7	Middle	2	2	29.30	7.96	21.89	103.7	7.03	2.5	4.4
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR10A(N)	8:57	12.4	Bottom	3	1	29.11	7.92	24.37	103.2	6.92	2.5	4.2
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR10A(N)	8:58	12.4	Bottom	3	2	29.13	7.93	23.57	103.5	6.97	2.7	3.8

	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR10B(N2)	8:42	1.0	Surface	1	1	29.30	7.97	22.12	104.8	7.10	2.3	2.8
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR10B(N2)	8:42	1.0	Surface	1	2	29.26	7.97	22.47	104.3	7.05	2.3	3.2
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR10B(N2)	8:42	3.7	Middle	2	1	29.22	7.96	22.84	103.8	7.01	2.5	3.7
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR10B(N2)	8:42	3.7	Middle	2	2	29.25	7.96	22.33	103.9	7.03	2.4	3.3
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR10B(N2)	8:41	6.4	Bottom	3	1	29.19	7.96	23.09	103.8	7.01	2.8	4.9
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	SR10B(N2)	8:42	6.4	Bottom	3	2	29.18	7.95	23.15	103.7	7.00	2.8	4.8
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	CS2(A)	11:08	1.0	Surface	1	1	28.94	7.96	22.44	84.9	5.77	5.7	5.8
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	CS2(A)	11:09	1.0	Surface	1	2	28.91	7.93	22.94	84.4	5.73	5.6	6.5
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	CS2(A)	11:09	3.7	Middle	2	1	28.39	7.87	24.75	75.8	5.14	6.1	5.7
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	CS2(A)	11:08	3.7	Middle	2	2	28.26	7.87	27.03	76.4	5.11	6.0	5.2
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	CS2(A)	11:09	6.4	Bottom	3	1	28.00	7.85	28.79	75.9	5.06	6.3	4.7
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	CS2(A)	11:07	6.4	Bottom	3	2	27.99	7.87	28.89	76.3	5.09	6.2	4.4
HKLR	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	CS(Mf)5	9:24	1.0	Surface	1	1	28.37	8.49	21.13	90.2	6.25	2.2	4.2
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	CS(Mf)5	9:23	1.0	Surface	1	2	28.30	8.46	21.10	89.7	6.21	2.2	4.3
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	CS(Mf)5	9:23	5.9	Middle	2	1	27.42	8.35	27.28	83.6	5.61	2.2	3.8
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	CS(Mf)5	9:24	5.9	Middle	2	2	27.33	8.36	26.99	86.9	5.81	2.2	4.1
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	CS(Mf)5	9:23	10.8	Bottom	3	1	27.19	8.34	30.58	78.5	5.35	2.3	3.1
	HY/2011/03	2019-09-09	Mid-Ebb	Sunny	CS(Mf)5	9:23	10.8	Bottom	3	2	27.02	8.33	30.63	78.0	5.29	2.2	3.5
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS5	16:23	1.0	Surface	1	1	29.60	8.43	22.33	156.5	10.55	7.5	8.4
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS5	16:23	1.0	Surface	1	2	29.70	8.42	22.13	161.2	10.87	7.6	8.3
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS5	16:23	4.0	Middle		1	29.16	8.41	22.85	147.5	10.05	7.5	8.5
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS5	16:22	4.0	Middle	2	2	29.25	8.42	22.95	146.8	10.01	7.5	8.5
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS5	16:22	7.0	Bottom	3	1 2	28.87	8.40	23.85	125.6	8.50	7.4	7.9 7.7
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS5	16:23	7.0 1.0	Bottom	-	1	29.35 29.56	8.41 8.43	23.79 21.47	124.8 155.8	8.44	4.8	
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS(Mf)6	16:32		Surface	1						10.58		8.0
HKLR HKLR	HY/2011/03 HY/2011/03	2019-09-09 2019-09-09	Mid-Flood Mid-Flood	Sunny	IS(Mf)6	16:31 16:31	1.0 2.1	Surface	1	2	29.56 29.55	8.43 8.43	21.46 21.51	156.9 153.1	10.62 10.48	4.9	7.8 7.5
	HY/2011/03	2019-09-09	Mid-Flood	Sunny Sunny	IS(Mf)6 IS(Mf)6	16:31	2.1	Bottom Bottom	3	2	29.55	8.43	21.51	153.1	10.48	5.8 5.8	7.5
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS(IVII)6	16:42	1.0	Surface	1	1	29.39	8.43	20.88	132.5	9.55	2.6	6.8
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS7 IS7	16:42	1.0	Surface	1	2	29.39	8.43	20.88	141.7	9.55	2.8	6.8
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS7	16:42	2.0	Bottom	3	1	29.39	8.42	20.97	138.5	9.48	2.6	8.1
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS7	16:42	2.0	Bottom	3	2	29.43	8.45	20.33	139.3	9.41	2.0	8.1
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS8(N)	17:13	1.0	Surface	1	1	29.30	8.45	19.66	133.3	10.15	4.5	8.0
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS8(N)	17:13	1.0	Surface	1	2	29.14	8.43	19.66	147.3	9.66	4.5	7.4
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS8(N)	17:12	2.9	Bottom	3	1	28.92	8.41	22.80	133.7	9.20	4.6	9.7
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS8(N)	17:12	2.9	Bottom	3	2	29.25	8.42	20.56	134.8	9.31	4.5	10.1
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS(Mf)9	16:51	1.0	Surface	1	1	23.23	8.48	20.50	128.2	8.68	9.1	15.1
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS(Mf)9	16:51	1.0	Surface	1	2	28.84	8.45	20.84	133.7	9.19	9.5	14.4
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS(Mf)9	16:51	2.6	Bottom	3	1	28.62	8.45	22.86	114.9	7.84	10.1	12.6
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS(Mf)9	16:51	2.6	Bottom	3	2	28.90	8.46	23.32	120.3	8.27	10.1	11.6
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS10(N)	16:54	1.0	Surface	1	1	29.57	7.96	18.29	99.1	6.82	3.1	8.1
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS10(N)	16:55	1.0	Surface	1	2	29.76	8.00	18.12	99.5	6.86	3.3	7.9
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS10(N)	16:55	5.5	Middle	2	1	29.14	7.84	22.84	88.6	5.99	3.6	6.9
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS10(N)	16:54	5.5	Middle	2	2	29.11	7.84	22.94	88.6	5.99	3.8	6.5
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS10(N)	16:54	9.9	Bottom	3	1	28.61	7.75	24.93	86.3	5.82	4.4	5.7
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	IS10(N)	16:54	9.9	Bottom	3	2	28.57	7.75	25.11	85.3	5.75	4.2	5.1
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR3(N)	16:14	1.0	Surface	1	1	29.65	8.42	22.62	151.9	10.46	3.2	8.3
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR3(N)	16:14	1.0	Surface	1	2	29.84	8.44	22.39	151.2	10.44	3.1	9.0
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR3(N)	16:13	2.3	Bottom	3	1	29.60	8.41	22.81	151.2	10.41	5.5	10.4
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR3(N)	16:14	2.3	Bottom	3	2	29.68	8.44	22.79	150.5	10.38	5.4	11.3
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR4(N2)	17:06	1.0	Surface	1	1	29.54	8.38	20.02	150.8	10.25	3.1	7.7
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR4(N2)	17:05	1.0	Surface	1	2	29.59	8.36	19.96	149.5	10.20	3.0	7.6

	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR4(N2)	17:05	2.7	Bottom	3	1	29.60	8.33	20.04	148.8	10.14	3.3	8.6
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR4(N2)	17:05	2.7	Bottom	3	2	29.52	8.38	20.39	148.7	10.14	3.2	9.0
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR5(N)	16:45	1.0	Surface	1	1	30.94	8.17	15.14	105.1	7.10	4.2	8.0
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR5(N)	16:44	1.0	Surface	1	2	30.62	8.11	16.07	109.3	7.49	4.1	7.6
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR5(N)	16:45	4.1	Middle	2	1	29.68	7.97	21.47	85.1	5.73	4.3	6.5
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR5(N)	16:44	4.1	Middle	2	2	29.02	7.83	23.63	85.5	5.77	4.2	6.4
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR5(N)	16:43	7.2	Bottom	3	1	28.45	7.74	25.86	76.7	5.16	4.3	6.8
	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR5(N)	16:44	7.2	Bottom	3	2	28.52	7.74	25.38	75.5	5.14	4.4	6.5
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR10A(N)	17:52	1.0	Surface	1	1	28.78	7.93	26.57	90.2	6.01	2.9	5.1
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR10A(N)	17:53	1.0	Surface	1	2	28.79	7.93	26.51	90.5	6.03	3.0	5.0
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR10A(N)	17:53	6.9	Middle	2	1	28.65	7.90	26.93	84.4	5.63	3.5	4.5
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR10A(N)	17:52	6.9	Middle	2	2	28.61	7.90	27.02	84.1	5.61	3.4	4.9
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR10A(N)	17:53	12.7	Bottom	3	1	28.37	7.86	28.31	80.7	5.36	3.7	4.7
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR10A(N)	17:52	12.7	Bottom	3	2	28.33	7.87	28.41	80.5	5.35	3.7	4.8
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR10B(N2)	18:03	1.0	Surface	1	1	28.79	7.92	26.52	91.7	6.11	3.1	4.8
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR10B(N2)	18:04	1.0	Surface	1	2	28.89	7.93	25.77	92.2	6.16	3.2	4.2
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR10B(N2)	18:04	4.1	Middle	2	1	28.73	7.90	26.64	85.2	5.68	3.2	4.2
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR10B(N2)	18:02	4.1	Middle	2	2	28.61	7.88	27.01	84.1	5.61	3.1	4.7
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR10B(N2)	18:02	7.1	Bottom	3	1	28.34	7.85	28.39	82.9	5.51	3.3	4.3
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	SR10B(N2)	18:04	7.1	Bottom	3	2	28.46	7.85	27.86	82.9	5.51	3.4	4.5
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	CS2(A)	16:01	1.0	Surface	1	1	28.93	7.93	23.01	88.9	6.03	6.6	3.2
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	CS2(A)	16:03	1.0	Surface	1	2	28.72	7.89	23.29	88.1	5.99	6.6	3.1
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	CS2(A)	16:02	4.0	Middle	2	1	28.61	7.86	25.28	80.5	5.42	6.7	5.8
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	CS2(A)	16:01	4.0	Middle	2	2	28.59	7.87	26.14	82.2	5.51	6.8	5.5
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	CS2(A)	16:01	7.0	Bottom	3	1	28.12	7.85	28.03	78.9	5.28	6.9	6.0
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	CS2(A)	16:02	7.0	Bottom	3	2	28.09	7.84	28.20	78.9	5.27	7.0	6.7
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	CS(Mf)5	17:37	1.0	Surface	1	1	28.57	8.48	21.97	126.2	8.66	2.4	3.9
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	CS(Mf)5	17:38	1.0	Surface	1	2	28.61	8.46	21.88	122.9	8.43	2.2	3.7
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	CS(Mf)5	17:37	5.9	Middle	2	1	27.20	8.45	29.02	89.9	6.07	2.2	3.7
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	CS(Mf)5	17:36	5.9	Middle	2	2	27.11	8.49	29.45	91.5	6.10	2.2	3.5
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	CS(Mf)5	17:36	10.8	Bottom	3	1	27.26	8.44	30.88	80.9	5.46	2.2	3.2
HKLR	HY/2011/03	2019-09-09	Mid-Flood	Sunny	CS(Mf)5	17:37	10.8	Bottom	3	2	27.14	8.44	30.98	81.5	5.52	2.2	3.1
HKLR	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS5	10:03	1.0	Surface	1	1	28.35	8.22	23.71	105.1	7.11	5.7	7.0
HKLR	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS5	10:03	1.0	Surface	1	2	28.36	8.22	23.57	105.7	7.21	5.8	6.6
HKLR	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS5	10:03	4.2	Middle	2	1	28.02	8.16	24.53	102.0	6.96	5.8	7.2
HKLR	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS5	10:03	4.2	Middle	2	2	28.00	8.17	24.71	100.8	6.88	5.9	7.2
HKLR	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS5	10:03	7.4	Bottom	3	1	28.06	8.18	25.98	92.8	6.30	5.7	7.6
HKLR	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS5	10:02	7.4	Bottom	3	2	27.81	8.14	26.22	92.5	6.31	5.8	7.9
HKLR	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS(Mf)6	10:11	1.0	Surface	1	1	28.77	8.28	23.65	115.9	7.85	3.3	5.0
HKLR	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS(Mf)6	10:12	1.0	Surface	1	2	28.83	8.30	23.60	121.8	8.25	3.4	5.2
HKLR	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS(Mf)6	10:11	2.1	Bottom	3	1	28.69	8.28	23.84	119.1	8.07	3.4	6.2
HKLR	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS(Mf)6	10:11	2.1	Bottom	3	2	28.37	8.24	24.14	113.1	7.66	3.3	6.6
HKLR	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS7	10:21	1.0	Surface	1	1	28.78	8.34	23.25	129.3	8.78	2.8	5.1
HKLR	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS7	10:21	1.0	Surface	1	2	28.71	8.33	23.32	125.1	8.50	2.6	4.8
	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS7	10:21	2.0	Bottom	3	1	28.69	8.33	23.39	120.1	8.16	2.9	5.7
	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS7	10:21	2.0	Bottom	3	2	28.67	8.31	23.80	119.4	8.11	2.8	6.2
	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS8(N)	10:51	1.0	Surface	1	1	28.63	8.27	23.99	112.2	7.61	13.5	15.9
	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS8(N)	10:51	1.0	Surface	1	2	28.54	8.25	24.29	106.8	7.24	14.4	16.7
	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS8(N)	10:51	2.8	Bottom	3	1	28.45	8.23	24.64	104.4	7.07	14.5	13.9
	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS8(N)	10:51	2.8	Bottom	3	2	28.49	8.25	24.55	109.2	7.40	14.6	14.3
	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS(Mf)9	10:31	1.0	Surface	1	1	28.65	8.27	23.80	114.4	7.76	4.1	15.5
	HY/2011/03	2019-09-11	Mid-Ebb	Sunny	IS(Mf)9	10:31	1.0	Surface	1	2	28.66	8.28	23.75	113.2	7.68	4.1	14.4

HKLR HY/2C HKLR HY/2C </th <th>1/2011/03 1/2011/03</th> <th>2019-09-11 2019-0</th> <th>Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb</th> <th>Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny</th> <th>IS(Mf)9 IS(Mf)9 IS10(N) IS10(N) IS10(N) IS10(N) IS10(N) IS10(N) SR3(N) SR3(N) SR3(N) SR3(N) SR3(N) SR3(N) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR5(N)</th> <th>10:31 10:31 10:51 10:51 10:51 10:51 10:51 9:55 9:55 9:55 9:55 10:44 10:44 10:44 10:44</th> <th>2.6 2.6 1.0 5.2 9.3 9.3 1.0 1.0 2.4 2.4 1.0 1.0 2.6 2.6</th> <th>Bottom Bottom Surface Surface Middle Bottom Bottom Surface Bottom Surface Surface Surface Surface Surface</th> <th>3 3 1 2 2 3 3 1 1 3 3 1 1 3 1 1 1</th> <th>1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2</th> <th>28.67 28.55 29.79 30.15 29.05 29.08 29.10 29.29 28.72 28.69 28.57 28.60 28.21</th> <th>8.27 8.29 8.05 8.11 7.92 7.93 7.94 7.97 8.30 8.29 8.29 8.29 8.27 8.17</th> <th>23.76 23.84 21.29 21.07 24.55 24.67 25.07 25.07 23.23 23.34 23.78 23.78 23.73 24.07</th> <th>108.4 103.5 112.4 116.6 105.7 112.5 102.9 105.5 123.1 125.7 110.9 119.3 95.4 97.9</th> <th>7.35 7.03 7.49 7.83 7.13 7.52 6.91 7.07 8.36 8.54 7.53 8.11 6.51 6.69</th> <th>4.1 4.2 8.3 8.2 8.6 8.1 8.8 8.5 5.7 5.5 5.5 5.5 5.4 8.9</th> <th>12.5 12.7 4.5 4.2 4.7 4.9 5.0 4.9 4.0 4.7 4.8 4.7 4.8 4.5 7.5 8.1</th>	1/2011/03 1/2011/03	2019-09-11 2019-0	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	IS(Mf)9 IS(Mf)9 IS10(N) IS10(N) IS10(N) IS10(N) IS10(N) IS10(N) SR3(N) SR3(N) SR3(N) SR3(N) SR3(N) SR3(N) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR5(N)	10:31 10:31 10:51 10:51 10:51 10:51 10:51 9:55 9:55 9:55 9:55 10:44 10:44 10:44 10:44	2.6 2.6 1.0 5.2 9.3 9.3 1.0 1.0 2.4 2.4 1.0 1.0 2.6 2.6	Bottom Bottom Surface Surface Middle Bottom Bottom Surface Bottom Surface Surface Surface Surface Surface	3 3 1 2 2 3 3 1 1 3 3 1 1 3 1 1 1	1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2	28.67 28.55 29.79 30.15 29.05 29.08 29.10 29.29 28.72 28.69 28.57 28.60 28.21	8.27 8.29 8.05 8.11 7.92 7.93 7.94 7.97 8.30 8.29 8.29 8.29 8.27 8.17	23.76 23.84 21.29 21.07 24.55 24.67 25.07 25.07 23.23 23.34 23.78 23.78 23.73 24.07	108.4 103.5 112.4 116.6 105.7 112.5 102.9 105.5 123.1 125.7 110.9 119.3 95.4 97.9	7.35 7.03 7.49 7.83 7.13 7.52 6.91 7.07 8.36 8.54 7.53 8.11 6.51 6.69	4.1 4.2 8.3 8.2 8.6 8.1 8.8 8.5 5.7 5.5 5.5 5.5 5.4 8.9	12.5 12.7 4.5 4.2 4.7 4.9 5.0 4.9 4.0 4.7 4.8 4.7 4.8 4.5 7.5 8.1
HKLR HY/2C HKLR HY/2C </td <td>//2011/03 //2011/03</td> <td>2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11</td> <td>Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb</td> <td>Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny</td> <td>IS10(N) IS10(N) IS10(N) IS10(N) IS10(N) IS10(N) SR3(N) SR3(N) SR3(N) SR3(N) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR5(N)</td> <td>10:51 10:51 10:51 10:51 10:51 9:55 9:55 9:55 9:55 9:55 10:44 10:44 10:44 10:44</td> <td>1.0 1.0 5.2 9.3 9.3 1.0 2.4 1.0 1.0 2.4 1.0 2.4 1.0 2.4</td> <td>Surface Surface Middle Bottom Bottom Surface Surface Bottom Surface Surface</td> <td>1 1 2 2 3 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>1 2 1 2 1 2 1 2 1 2 1 2 1</td> <td>29.79 30.15 29.05 29.08 29.10 29.29 28.72 28.69 28.57 28.60 28.21</td> <td>8.05 8.11 7.92 7.93 7.94 7.97 8.30 8.29 8.29 8.29 8.27 8.17</td> <td>21.29 21.07 24.55 24.67 25.07 24.94 23.23 23.34 23.78 23.73 24.07</td> <td>112.4 116.6 105.7 112.5 102.9 105.5 123.1 125.7 110.9 119.3 95.4</td> <td>7.49 7.83 7.13 7.52 6.91 7.07 8.36 8.54 7.53 8.11 6.51</td> <td>8.3 8.2 8.6 8.1 8.8 8.5 5.7 5.5 5.5 5.5 5.4 8.9</td> <td>4.5 4.2 4.7 4.9 5.0 4.9 4.0 4.7 4.8 4.5 7.5</td>	//2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	IS10(N) IS10(N) IS10(N) IS10(N) IS10(N) IS10(N) SR3(N) SR3(N) SR3(N) SR3(N) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR5(N)	10:51 10:51 10:51 10:51 10:51 9:55 9:55 9:55 9:55 9:55 10:44 10:44 10:44 10:44	1.0 1.0 5.2 9.3 9.3 1.0 2.4 1.0 1.0 2.4 1.0 2.4 1.0 2.4	Surface Surface Middle Bottom Bottom Surface Surface Bottom Surface Surface	1 1 2 2 3 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 2 1 2 1 2 1 2 1 2 1	29.79 30.15 29.05 29.08 29.10 29.29 28.72 28.69 28.57 28.60 28.21	8.05 8.11 7.92 7.93 7.94 7.97 8.30 8.29 8.29 8.29 8.27 8.17	21.29 21.07 24.55 24.67 25.07 24.94 23.23 23.34 23.78 23.73 24.07	112.4 116.6 105.7 112.5 102.9 105.5 123.1 125.7 110.9 119.3 95.4	7.49 7.83 7.13 7.52 6.91 7.07 8.36 8.54 7.53 8.11 6.51	8.3 8.2 8.6 8.1 8.8 8.5 5.7 5.5 5.5 5.5 5.4 8.9	4.5 4.2 4.7 4.9 5.0 4.9 4.0 4.7 4.8 4.5 7.5
HKLR HY/2C HKLR HY/2C </td <td>//2011/03 //2011/03</td> <td>2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11</td> <td>Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb</td> <td>Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny</td> <td>IS10(N) IS10(N) IS10(N) IS10(N) IS10(N) SR3(N) SR3(N) SR3(N) SR3(N) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR5(N)</td> <td>10:51 10:51 10:51 9:55 9:55 9:55 9:55 10:44 10:44 10:44 10:44</td> <td>1.0 5.2 9.3 9.3 1.0 2.4 1.0 1.0</td> <td>Surface Middle Bottom Bottom Surface Surface Bottom Surface Surface</td> <td>1 2 2 3 3 1 1 3 3 3 1 1 1</td> <td>2 1 2 1 2 1 2 1 2 1 2 1</td> <td>30.15 29.05 29.08 29.10 29.29 28.72 28.69 28.57 28.60 28.21</td> <td>8.11 7.92 7.93 7.94 7.97 8.30 8.29 8.29 8.29 8.27 8.17</td> <td>21.07 24.55 24.67 25.07 24.94 23.23 23.34 23.78 23.78 23.73 24.07</td> <td>116.6 105.7 112.5 102.9 105.5 123.1 125.7 110.9 119.3 95.4</td> <td>7.83 7.13 7.52 6.91 7.07 8.36 8.54 7.53 8.11 6.51</td> <td>8.2 8.6 8.1 8.8 8.5 5.7 5.5 5.5 5.5 5.4 8.9</td> <td>4.2 4.7 4.9 5.0 4.9 4.0 4.7 4.8 4.5 7.5</td>	//2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	IS10(N) IS10(N) IS10(N) IS10(N) IS10(N) SR3(N) SR3(N) SR3(N) SR3(N) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR5(N)	10:51 10:51 10:51 9:55 9:55 9:55 9:55 10:44 10:44 10:44 10:44	1.0 5.2 9.3 9.3 1.0 2.4 1.0 1.0	Surface Middle Bottom Bottom Surface Surface Bottom Surface Surface	1 2 2 3 3 1 1 3 3 3 1 1 1	2 1 2 1 2 1 2 1 2 1 2 1	30.15 29.05 29.08 29.10 29.29 28.72 28.69 28.57 28.60 28.21	8.11 7.92 7.93 7.94 7.97 8.30 8.29 8.29 8.29 8.27 8.17	21.07 24.55 24.67 25.07 24.94 23.23 23.34 23.78 23.78 23.73 24.07	116.6 105.7 112.5 102.9 105.5 123.1 125.7 110.9 119.3 95.4	7.83 7.13 7.52 6.91 7.07 8.36 8.54 7.53 8.11 6.51	8.2 8.6 8.1 8.8 8.5 5.7 5.5 5.5 5.5 5.4 8.9	4.2 4.7 4.9 5.0 4.9 4.0 4.7 4.8 4.5 7.5
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HKLR HY/2C HKLR HY/2C </td <td>//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03</td> <td>2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11</td> <td>Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb</td> <td>Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny</td> <td>IS10(N) IS10(N) SR3(N) SR3(N) SR3(N) SR3(N) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR5(N)</td> <td>10:51 10:51 9:55 9:55 9:55 10:44 10:44 10:44 10:44 10:44</td> <td>9.3 9.3 1.0 2.4 2.4 1.0 1.0 2.6</td> <td>Bottom Bottom Surface Bottom Bottom Surface Surface</td> <td>3 3 1 3 3 1 1</td> <td>1 2 1 2 1 2 1 2 1</td> <td>29.10 29.29 28.72 28.69 28.57 28.60 28.21</td> <td>7.94 7.97 8.30 8.29 8.29 8.27 8.17</td> <td>25.07 24.94 23.23 23.34 23.78 23.73 24.07</td> <td>102.9 105.5 123.1 125.7 110.9 119.3 95.4</td> <td>6.91 7.07 8.36 8.54 7.53 8.11 6.51</td> <td>8.8 8.5 5.7 5.5 5.5 5.4 8.9</td> <td>5.0 4.9 4.0 4.7 4.8 4.5 7.5</td>	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	IS10(N) IS10(N) SR3(N) SR3(N) SR3(N) SR3(N) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR5(N)	10:51 10:51 9:55 9:55 9:55 10:44 10:44 10:44 10:44 10:44	9.3 9.3 1.0 2.4 2.4 1.0 1.0 2.6	Bottom Bottom Surface Bottom Bottom Surface Surface	3 3 1 3 3 1 1	1 2 1 2 1 2 1 2 1	29.10 29.29 28.72 28.69 28.57 28.60 28.21	7.94 7.97 8.30 8.29 8.29 8.27 8.17	25.07 24.94 23.23 23.34 23.78 23.73 24.07	102.9 105.5 123.1 125.7 110.9 119.3 95.4	6.91 7.07 8.36 8.54 7.53 8.11 6.51	8.8 8.5 5.7 5.5 5.5 5.4 8.9	5.0 4.9 4.0 4.7 4.8 4.5 7.5
HKLR HY/2C HKLR HY/2C </td <td>//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03</td> <td>2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11</td> <td>Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb</td> <td>Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny</td> <td>IS10(N) SR3(N) SR3(N) SR3(N) SR3(N) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR5(N)</td> <td>10:51 9:55 9:55 9:55 10:44 10:44 10:44 10:44 10:38</td> <td>9.3 1.0 2.4 2.4 1.0 1.0 2.6</td> <td>Bottom Surface Surface Bottom Bottom Surface Surface</td> <td>3 1 3 3 1 1</td> <td>2 1 2 1 2 1 2 1</td> <td>29.29 28.72 28.69 28.57 28.60 28.21</td> <td>7.97 8.30 8.29 8.29 8.27 8.27 8.17</td> <td>24.94 23.23 23.34 23.78 23.73 24.07</td> <td>105.5 123.1 125.7 110.9 119.3 95.4</td> <td>7.07 8.36 8.54 7.53 8.11 6.51</td> <td>8.5 5.7 5.5 5.5 5.4 8.9</td> <td>4.9 4.0 4.7 4.8 4.5 7.5</td>	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	IS10(N) SR3(N) SR3(N) SR3(N) SR3(N) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR5(N)	10:51 9:55 9:55 9:55 10:44 10:44 10:44 10:44 10:38	9.3 1.0 2.4 2.4 1.0 1.0 2.6	Bottom Surface Surface Bottom Bottom Surface Surface	3 1 3 3 1 1	2 1 2 1 2 1 2 1	29.29 28.72 28.69 28.57 28.60 28.21	7.97 8.30 8.29 8.29 8.27 8.27 8.17	24.94 23.23 23.34 23.78 23.73 24.07	105.5 123.1 125.7 110.9 119.3 95.4	7.07 8.36 8.54 7.53 8.11 6.51	8.5 5.7 5.5 5.5 5.4 8.9	4.9 4.0 4.7 4.8 4.5 7.5
HKLR HY/2C	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	SR3(N) SR3(N) SR3(N) SR3(N) SR3(N) SR4(N2) SR5(N)	9:55 9:55 9:55 9:55 10:44 10:44 10:44 10:44 10:38	1.0 1.0 2.4 2.4 1.0 1.0 2.6	Surface Surface Bottom Bottom Surface Surface	1 1 3 3 1 1	1 2 1 2 1	28.72 28.69 28.57 28.60 28.21	8.30 8.29 8.29 8.27 8.17	23.23 23.34 23.78 23.73 24.07	123.1 125.7 110.9 119.3 95.4	8.36 8.54 7.53 8.11 6.51	5.7 5.5 5.5 5.4 8.9	4.0 4.7 4.8 4.5 7.5
HKLR HY/2C	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	SR3(N) SR3(N) SR3(N) SR4(N2) SR5(N)	9:55 9:55 9:55 10:44 10:44 10:44 10:44 10:38	1.0 2.4 2.4 1.0 2.6	Surface Bottom Bottom Surface Surface	1 3 3 1 1	2 1 2 1	28.69 28.57 28.60 28.21	8.29 8.29 8.27 8.17	23.34 23.78 23.73 24.07	125.7 110.9 119.3 95.4	8.54 7.53 8.11 6.51	5.5 5.5 5.4 8.9	4.7 4.8 4.5 7.5
HKLR HY/2C	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	SR3(N) SR3(N) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR5(N)	9:55 9:55 10:44 10:44 10:44 10:44 10:38	2.4 2.4 1.0 1.0 2.6	Bottom Bottom Surface Surface	3 3 1 1	1 2 1	28.57 28.60 28.21	8.29 8.27 8.17	23.78 23.73 24.07	110.9 119.3 95.4	7.53 8.11 6.51	5.5 5.4 8.9	4.8 4.5 7.5
HKLR HY/2C	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	SR3(N) SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR5(N) SR5(N)	9:55 10:44 10:44 10:44 10:44 10:38	2.4 1.0 1.0 2.6	Bottom Surface Surface	3 1 1	2 1	28.60 28.21	8.27 8.17	23.73 24.07	119.3 95.4	8.11 6.51	5.4 8.9	4.5 7.5
HKLR HY/2C	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny Sunny Sunny Sunny Sunny	SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR5(N) SR5(N)	10:44 10:44 10:44 10:44 10:38	1.0 1.0 2.6	Surface Surface	1 1	1	28.21	8.17	24.07	95.4	6.51	8.9	7.5
HKLR HY/2C	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny Sunny Sunny Sunny	SR4(N2) SR4(N2) SR4(N2) SR5(N) SR5(N)	10:44 10:44 10:44 10:38	1.0 2.6	Surface	1								
HKLR HY/2C	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny Sunny Sunny	SR4(N2) SR4(N2) SR5(N) SR5(N)	10:44 10:44 10:38	2.6			2				97.9	6 60		Q 1
HKLR HY/2C	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny Sunny	SR4(N2) SR5(N) SR5(N)	10:44 10:38		Bottom		2	28.28	8.23	23.73	31.3	0.09	8.4	0.1
HKLR HY/2C	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny Sunny	SR5(N) SR5(N)	10:38	2.6		3	1	28.38	8.28	23.95	98.1	6.68	8.5	9.2
HKLR HY/2C	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Sunny Sunny	SR5(N)			Bottom	3	2	28.22	8.19	24.14	97.6	6.66	8.4	9.4
HKLR HY/2C	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb Mid-Ebb	Sunny			1.0	Surface	1	1	29.81	8.06	21.28	114.4	7.62	8.3	4.1
HKLR HY/2C	//2011/03 //2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11 2019-09-11	Mid-Ebb Mid-Ebb			10:38	1.0	Surface	1	2	29.76	8.06	21.34	119.0	7.94	7.9	3.8
HKLR HY/2C	//2011/03 //2011/03 //2011/03	2019-09-11 2019-09-11	Mid-Ebb	Sunnv	SR5(N)	10:37	4.1	Middle	2	1	29.11	7.94	23.41	108.7	7.33	9.7	4.3
HKLR HY/20	//2011/03 //2011/03	2019-09-11			SR5(N)	10:38	4.1	Middle	2	2	29.20	7.96	22.82	109.2	7.37	9.5	3.9
HKLR HY/2C	//2011/03		Mid-Ebb	Sunny	SR5(N)	10:37	7.1	Bottom	3	1	29.17	7.97	25.15	104.4	7.04	9.3	3.6
HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20		2019-09-11	WIIU-LUU	Sunny	SR5(N)	10:38	7.1	Bottom	3	2	29.35	7.99	25.00	104.2	7.04	9.9	3.8
HKLRHY/20HKLRHY/20HKLRHY/20HKLRHY/20HKLRHY/20HKLRHY/20	/2011/03		Mid-Ebb	Sunny	SR10A(N)	11:36	1.0	Surface	1	1	29.21	8.01	24.09	111.4	7.39	4.8	3.1
HKLRHY/20HKLRHY/20HKLRHY/20HKLRHY/20HKLRHY/20HKLRHY/20		2019-09-11	Mid-Ebb	Sunny	SR10A(N)	11:35	1.0	Surface	1	2	29.24	8.01	24.75	113.3	7.57	5.0	3.1
HKLR HY/20 HKLR HY/20 HKLR HY/20	//2011/03	2019-09-11	Mid-Ebb	Sunny	SR10A(N)	11:35	6.2	Middle	2	1	28.96	7.95	26.35	108.5	7.22	5.2	3.0
HKLR HY/20 HKLR HY/20	/2011/03	2019-09-11	Mid-Ebb	Sunny	SR10A(N)	11:36	6.2	Middle	2	2	28.94	7.95	26.44	109.8	7.37	5.5	3.2
HKLR HY/20	/2011/03	2019-09-11	Mid-Ebb	Sunny	SR10A(N)	11:35	11.3	Bottom	3	1	29.01	7.96	26.85	104.9	6.98	6.8	2.5
, .	//2011/03	2019-09-11	Mid-Ebb	Sunny	SR10A(N)	11:36	11.3	Bottom	3	2	28.92	7.95	26.55	108.8	7.24	6.3	3.0
HKLR HY/20	//2011/03	2019-09-11	Mid-Ebb	Sunny	SR10B(N2)	11:45	1.0	Surface	1	1	29.43	8.05	23.62	120.3	8.06	4.4	3.2
	/2011/03	2019-09-11	Mid-Ebb	Sunny	SR10B(N2)	11:45	1.0	Surface	1	2	29.36	8.04	23.57	118.2	7.88	4.1	3.6
HKLR HY/20	//2011/03	2019-09-11	Mid-Ebb	Sunny	SR10B(N2)	11:45	3.3	Middle	2	1	29.19	8.01	24.95	117.2	7.83	5.1	3.8
HKLR HY/20	//2011/03	2019-09-11	Mid-Ebb	Sunny	SR10B(N2)	11:45	3.3	Middle	2	2	29.05	7.98	25.68	114.0	7.66	5.5	3.8
HKLR HY/20	/2011/03	2019-09-11	Mid-Ebb	Sunny	SR10B(N2)	11:45	5.5	Bottom	3	1	29.18	8.01	25.41	110.2	7.35	6.3	4.3
HKLR HY/20	//2011/03	2019-09-11	Mid-Ebb	Sunny	SR10B(N2)	11:45	5.5	Bottom	3	2	29.05	7.98	25.72	110.3	7.35	6.2	4.3
HKLR HY/20	/2011/03	2019-09-11	Mid-Ebb	Sunny	CS2(A)	9:50	1.0	Surface	1	1	29.78	8.06	21.34	110.6	7.39	6.4	5.5
HKLR HY/20	/2011/03	2019-09-11	Mid-Ebb	Sunny	CS2(A)	9:51	1.0	Surface	1	2	30.14	8.12	21.17	119.4	8.02	6.6	5.0
HKLR HY/20	/2011/03	2019-09-11	Mid-Ebb	Sunny	CS2(A)	9:51	3.2	Middle	2	1	29.37	8.01	22.00	107.2	7.26	7.5	3.7
HKLR HY/20	/2011/03	2019-09-11	Mid-Ebb	Sunny	CS2(A)	9:50	3.2	Middle	2	2	29.28	7.97	22.36	103.6	6.99	7.7	4.3
	/2011/03	2019-09-11	Mid-Ebb	Sunny	CS2(A)	9:50	5.3	Bottom	3	1	29.01	7.90	24.83	93.6	6.27	7.8	2.0
	/2011/03	2019-09-11	Mid-Ebb	Sunny	CS2(A)	9:51	5.3	Bottom	3	2	29.35	7.99	24.58	95.0	6.43	7.7	2.2
	/2011/03	2019-09-11	Mid-Ebb	Sunny	CS(Mf)5	11:14	1.0	Surface	1	1	28.69	8.26	24.15	104.8	7.09	2.8	6.1
	/2011/03	2019-09-11	Mid-Ebb	Sunny	CS(Mf)5	11:13	1.0	Surface	1	2	28.58	8.26	24.13	100.7	6.83	2.7	5.8
	/2011/03	2019-09-11	Mid-Ebb	Sunny	CS(Mf)5	11:13	5.8	Middle	2	1	27.79	8.16	27.39	93.0	6.19	4.8	4.9
	/2011/03	2019-09-11	Mid-Ebb	Sunny	CS(Mf)5	11:13	5.8	Middle	2	2	27.74	8.13	27.24	94.1	6.27	4.5	5.3
	/2011/03	2019-09-11	Mid-Ebb	Sunny	CS(Mf)5	11:12	10.6	Bottom	3	1	27.58	8.16	30.55	89.2	6.02	4.8	3.7
, -	/2011/03	2019-09-11	Mid-Ebb	Sunny	CS(Mf)5	11:13	10.6	Bottom	3	2	27.50	8.11	30.62	89.7	6.06	4.8	4.4
	/2011/03	2019-09-11	Mid-Flood	Fine	IS5	4:48	1.0	Surface	1	1	27.85	8.27	24.22	92.7	6.16	2.4	2.2
	/2011/03	2019-09-11	Mid-Flood	Fine	IS5	4:48	1.0	Surface	1	2	28.06	8.30	23.78	91.5	6.23	2.5	2.8
	/2011/03	2019-09-11	Mid-Flood	Fine	IS5	4:48	4.2	Middle	2	1	27.52	8.20	29.86	88.0	6.03	3.3	3.5
	/2011/03	2019-09-11	Mid-Flood	Fine	IS5	4:47	4.2	Middle	2	2	27.53	8.20	29.66	90.4	6.09	3.4	3.1
, -		2019-09-11	Mid-Flood	Fine	IS5	4:47	7.4	Bottom	3	1	27.40	8.19	30.91	86.1	5.76	3.4	4.7
HKLR HY/20	/2011/03	2019-09-11	Mid-Flood	Fine	IS5	4:48	7.4	Bottom	3	2	27.57	8.21	30.70	86.8	5.80	3.5	4.6

IPHAR IPV201403 2019-09-11 Mid-Flood Frime Stiving 4.37 1.0 Surface 1 2 <	Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HHR HY/2011/03 2019-09-11 MeFnod Free FSMM6 4/36 2.2 Settom 3 1 26.04 8.32 25.54 10.64 7.22 HHRR HY/2011/03 2019-09-11 Md-Flood Free 157 4.23 1.0 Surface 1 1 28.20 8.34 23.57 10.8.3 7.42 HHRR HY/2011/03 2019-09-11 Md-Flood Free 157 4.22 2.1 Bottom 3 1 28.21 8.33 24.85 10.08 7.32 HHRR HY/2011/03 2019-09-11 Md-Flood Free 157 4.22 2.1 Bottom 3 2 28.15 8.33 2.347 10.0 7.46 HHRR HY/2011/03 2019-09-11 Md-Flood Free ISMN 5.5 2.0 8.41 2.33 2.364 10.8 7.50 HHRR HY/2011/03 2019-09-11 Md-Flood Free ISMN 4.22 <	HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	IS(Mf)6	4:36	1.0	Surface	1	1	28.18	8.33	24.64	108.1	7.36	2.9	3.9
HHKR HY/2011/03 2019-09-11 MeFhood Fine 157 4.29 1.0 Strate 1 1 2.5 28.00 8.31 22.32 108.3 7.20 HHKR HY/201103 2019-09-11 MeFhood Fine 157 4.29 1.0 Strate 1 2.8 8.33 2.23 1.08.3 7.4 HHKR HY/201103 2019-09-11 MeFhood Fine 1.57 4.29 2.1 Bottom 3 2 2.8.15 8.33 2.3.7 10.8.5 7.22 HHKR HY/201103 2019-09-11 MeFhood Fine 1.0 Strate 1 2 2.8.10 8.33 2.3.8 10.6 7.6 HKR HY/201103 2019-09-11 MeFhood Fine 1.0 Strate 1 2 2.8.10 8.31 2.6.0 1.0 Strate 1 2 2.8.10 8.31 2.6.0 1.0 Strate 1 2 2.8.01 8.	HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	IS(Mf)6	4:37		Surface		2				109.9	7.48	2.8	4.2
HHLR HY/2011/03 2019-09:11 Mid-flood Fire A:2 10. Surface 1 3 28.00 8.34 23.32 10.8 74.2 HHLR HY/2011/03 2019-09:11 Mid-flood Fine 157 4.29 2.1 Bottom 3 1 2.82.11 8.33 2.28.1 8.33 2.48.1 8.33 2.48.1 8.33 2.48.1 8.33 2.48.1 8.33 2.5.4 10.5 7.2 11.1 2 8.10 8.33 2.5.6 10.6 7.2 10.6 5.7 2.2 10.6 5.7 10.6 5.7 2.2 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6 5.7 10.6						. ,											2.9	4.9
HHX HY/2011/03 2019-09-11 Mid-Flood Fine 157 4.29 1.0 Surface 1 2 28.11 8.33 22.75 109.4 7.47 HKR HY/2011/03 2019-09-11 Mid-Flood Fine 157 4.29 2.1 Bottom 3 2 28.15 8.33 22.48 106.5 7.22 HKR HY/2011/03 2019-09-11 Mid-Flood Fine BR(N) 3.9 1.0 Surface 1 2 28.10 8.31 2.3.97 10.6 X/7.1 HKR HY/2011/03 2019-09-11 Mid-Flood Fine BR(N) 3.50 1.0 Surface 1 1 2.0 8.44 8.31 2.50 10.6 Tinte 1 1 2.0 8.44 8.36 2.60 10.0 7.46 HKR HY/2011/03 2019-05-11 Mid-Flood Fine 1.0 Surface 1 2.0 2.60 8.0 2.56 10.0										×							2.8	5.2
HHX HY/201103 2019-09-11 Mid-Flood Fine 57 4/29 2.1 Bottom 3 1 28.21 8.33 24.45 1005 7/22 HHX HY/201103 2019-09-11 Mid-Flood Fine 158(N) 3.59 1.0 Surface 1 28.11 8.33 23.47 1002.5 7.22 HHX HY/201103 2019-09-11 Mid-Flood Fine 158(N) 3.59 1.0 Surface 1 20.16 8.31 25.50 100.4 7.41 HHX HY/201103 2019-09-11 Mid-Flood Fine 158(M) 3.42 1.0 Surface 1 28.22 8.31 25.60 10.00 7.43 HHX HY/201103 2019-09-11 Mid-Flood Fine 15(M) 4.22 1.0 Surface 1 1 28.24 8.56 10.0 7.44 HHX HY/201103 2019-09-11 Mid-Flood Fine 15(M) 4.04 1.0 </td <td></td> <td>1.8</td> <td>4.8</td>																	1.8	4.8
HHR HY/20103 2019-09-11 Mid-Flood Fine S7 4.29 2.1 Bortom 3 2 28.15 6.33 25.44 J006.5 7.22 HHR HY/201103 2019-09-11 Mid-Flood Fine ISRIN 35.9 1.0 Surface 1 2.811 6.33 23.83 109.2 7.44 HHR HY/201103 2019-09-11 Mid-Flood Fine ISRIN 35.9 3.0 Bottom 3 1 2.80.4 8.31 2.50.01 110.0 7.4 HHR HY/201103 2019-09-11 Mid-Flood Fine ISRIM19 4.22 1.0 Surface 1 1 2.82.0 8.34 2.38.4 1.008.7 7.4 HHRA HY/201103 2019-09-11 Mid-Flood Fine ISRIM19 4.22 2.8 Bottom 3 1 2.82.0 8.3 2.394 1.08.7 7.38 HHRA HY/201103 2019-09-11 Mid-Flood Fin																	1.8	4.5
HURB HV/2011/03 2019-09-11 Mid-Flood Frie FISHN 3.59 1.0 Surface 1 1 28.10 8.33 23.87 100.2 7.46 HURB HV/2011/03 2019-09-11 Mid-Flood Frie FSBNN 3.59 1.0 Surface 1 2.81.0 8.31 2.50.0 100.4 7.41 HURB HV/2011/03 2019-09-11 Mid-Flood Frie FSMN/9 4.22 1.0 Surface 1 1 2.82.0 8.34 2.94.0 100.0 7.45 HURB HV/2011/03 2019-09-11 Mid-Flood Frie FSMN/9 4.22 1.8 Surface 1 2 2.80.1 8.32 2.53.0 100.0 7.38 HURB HV/2011/03 2019-09-11 Mid-Flood Frie FSD(N) 4.04 1.0 Surface 1 2 2.80.0 8.04 1.03 8.45 5.65 HURB HV/2011/03 2019-09-11 Mid-Flood																	1.7	5.2
HHAB HY/2011/03 2019-09-11 Mid-Hood File JSSN 3.9 1.0 Surface 1 2 28.01 8.33 23.88 10.08 7.51 HHAB HY/2011/03 2019-09-11 Mid-Hood File ISSN 3.58 3.0 Bortom 3 2 28.03 8.31 25.00 10.00 7.45 HHAB HY/2011/03 2019-09-11 Mid-Hood File ISSN/P 422 1.0 Surface 1 1 28.24 3.83 23.44 10.08 7.60 HHAB HY/2011/03 2019-09-11 Mid-Flood File ISM/P 422 2.8 Bottom 3 2 2.801 8.32 2.530 10.80 7.38 HHAB HY/2011/03 2019-09-11 Mid-Flood File ISU(N) 4.04 5.3 Middle 2 2 2.80 7.32 7.42 8.33 5.64 HHAB HY/2011/03 2019-09-11 Mid-Flood																	1.8	5.0
HHLR HY/2011/03 2019-09-11 MH-Flood Free JSSN 3.0 Bontom 3.1 28.04 8.31 25.00 10.04 7.41 HHLR HY/2011/03 2019-09-11 MH-Flood Free ISKMP 4.22 1.0 Surface 1 1 28.34 8.31 26.01 10.00 7.45 HHLR HY/2011/03 2019-09-11 MH-Flood Free ISKMP 4.22 1.0 Surface 1 2 2.06 8.33 2.94 1.08.7 7.44 HHLR HY/2011/03 2019-09-11 MH-Flood Free ISKMP 4.22 2.8 Bortom 3 2 2.80 1.832 2.58 0.089 7.38 HHLR HY/2011/03 2019-09-11 MH-Flood Free ISION 4.04 1.0 Surface 1 2 2.09 8.04 2.17.8 8.86 5.56 HHLR HY/2011/03 2019-09-11 MH-Flood Free ISION </td <td></td> <td>1.6</td> <td>3.2</td>																	1.6	3.2
HHRB HY/2011/03 2019-99-11 Mid-Flood Fine ISMN 3.2 2.8.03 8.31 2.6.01 1.0.0 7.45 HHRB HY/2011/03 2019-99-11 Mid-Flood Fine ISMP 4.22 1.0 Surface 1 1 28.28 8.34 23.84 1.08 7.50 HHRB HY/2011/03 2019-99-11 Mid-Flood Fine ISMP 4.22 2.8 80ttom 3 1 28.04 8.32 25.86 10.89 7.38 HHRB HY/2011/03 2019-99-11 Mid-Flood Fine ISINM 4.22 2.8 80ttom 3 2 28.01 8.32 25.86 10.89 7.38 HHRB HY/2011/03 2019-99-11 Mid-Flood Fine ISINM 404 1.0 Surface 1 1 28.60 7.92 27.44 8.36 5.55 HKR HY/2011/03 2019-09-11 Mid-Flood Fine 150/10 4.46 5.						. ,											1.6	3.2
HHKB HY/2011/03 2019-09-11 Mid-Flood Fine IS/MP 4/22 1.0 Surface 1 1 28.22 8.34 22.368 109.8 7.50 HKB HY/2011/03 2019-09-11 Mid-Flood Fine IS/MP 422 2.8 Bottom 3 1 28.04 8.33 22.36 109.0 7.38 HKB HY/2011/03 2019-09-11 Mid-Flood Fine IS/MP 42.2 2.8 Bottom 3 2 28.01 8.32 22.56 108.0 7.83 HKB HY/2011/03 2019-09-11 Mid-Flood Fine IS/MV 4.06 1.0 Surface 1 2.850 7.92 27.44 8.3 5.56 HKR HY/2011/03 2019-09-11 Mid-Flood Fine IS/MV 4.05 5.8 Bottom 3 2 2.850 7.92 27.44 8.3 5.84 HKR HY/2011/03 2019-09-11 Mid-Flood Fine		1 2 1 2 2			-					-							1.5	3.0
HHLB HY/201103 2019-09-11 Mid-Flood Fine IS(MP) 4-22 1.0 Surface 1 2 28.08 8.33 23.94 100.7 7.44 HHLB HY/201103 2019-09-11 Mid-Flood Fine IS(MP) 4.22 2.8 Bottom 3 2 28.01 8.32 25.86 10.89 7.38 HKLB HY/201103 2019-09-11 Mid-Flood Fine IS10(N) 4.04 10 Surface 1 2 29.97 8.04 21.97 8.84 6.01 HKLB HY/201103 2019-09-11 Mid-Flood Fine IS10(N) 4.04 5 8 1 2 2.8.00 7.92 27.44 8.8.5 5.54 HKLB HY/201103 2019-09-11 Mid-Flood Fine IS10(N) 4.04 5.6 Bottom 3 2 2.8.0 7.93 27.43 8.8.5 5.83 HKLB HY/201103 2019-0911 Mid-Flood																-	1.6	3.3
HHKB HY/2011/03 2019-09-11 Mid-Flood Fine IS(MP) 4-22 2.8 Bottom 3 1 28.04 8.32 25.90 10.90 7.38 HKB HY/2011/03 2019-09-11 Mid-Flood Fine ISI0(N) 404 1.0 Surface 1 2.897 8.02 22.26 86.0 5.85 HKB HY/2011/03 2019-09-11 Mid-Flood Fine ISI0(N) 4.04 5.3 Middle 2 2.05.0 7.92 27.44 8.33 5.54 HKR HY/2011/03 2019-09-11 Mid-Flood Fine ISI0(N) 4.06 5.6 Bottom 3 1 28.62 7.93 27.44 8.33 5.54 HKR HY/2011/03 2019-09-11 Mid-Flood Fine ISI0(N) 4.06 5.6 Bottom 3 1 28.62 7.93 27.43 8.5 5.83 HKR HY/2011/03 2019-0911 Mid-Flood Fine																	1.5 1.5	4.6 4.2
HHLR HY/2011/03 2019-09-11 Mid-Flood Fine ISUMP 4.22 2.8 Battom 3 2 28.01 8.32 25.86 108.9 7.38 HKR HY/2011/03 2019-09-11 Mid-Flood Fine ISU(N) 4.45 1.0 Surface 1 2.860 7.92 2.742 88.4 6.01 HKR HY/2011/03 2019-09-11 Mid-Flood Fine ISU(N) 4.43 5.3 Middle 2 2.860 7.92 2.742 88.5 5.56 HKR HY/2011/03 2019-09-11 Mid-Flood Fine ISU(N) 4.405 9.6 Bottom 3 1 2.860 7.92 2.743 8.76 5.83 HKR HY/2011/03 2019-09-11 Mid-Flood Fine S81(N) 4.58 1.0 Surface 1 1 2.819 7.93 2.743 8.55 5.89 HKR HY/2011/03 2019-09-11 Mid-Flood Fine S		, ,			-												1.5	4.2
HKR HY/2011/03 2019-09-11 Mid-Flood Fine ISU(N) 4:04 1.0 Surface 1 1 22.97 8:02 22.26 8:80 5.85 HKIR HY/2011/03 2019-09-11 Mid-Flood Fine ISU(N) 4:04 5.3 Middle 2 1 22.860 7:92 27.42 83.6 5.56 HKIR HY/2011/03 2019-09-11 Mid-Flood Fine ISU(N) 4:05 5.3 Middle 2 2.860 7:92 27.43 87.6 5.83 HKIR HY/2011/03 2019-09-11 Mid-Flood Fine ISU(N) 4:04 9.6 Bottom 3 2 28.59 7.93 27.43 88.5 5.89 HKIR HY/2011/03 2019-09-11 Mid-Flood Fine SR(N) 4:58 1.0 Surface 1 2 28.02 8.31 25.99 1.06 7.23 7.74 HKIR HY/2011/03 2019-09-11 Mid-Fl																	1.6	4.3 3.8
HKR HY/2011/03 2019-09:11 Mid-Flood Fine ISU(N) 4.05 1.0 2 20.09 8.04 21.97 88.4 6.01 HKIR HY/2011/03 2019-09:11 Mid-Flood Fine ISU(N) 4.05 5.3 Middle 2 1 28.00 7.92 27.44 88.3 5.54 HKIR HY/2011/03 2019-09:11 Mid-Flood Fine ISU(N) 4.05 9.6 Bottom 3 1 28.62 7.93 27.43 88.5 5.83 HKIR HY/2011/03 2019-09:11 Mid-Flood Fine SR3(N 4.58 1.0 Surface 1 1 28.19 8.32 2.4.7 10.8.8 7.19 HKIR HY/2011/03 2019-09:11 Mid-Flood Fine SR3(N 4.58 2.3 Bottom 3 1 28.02 8.31 25.59 10.05 6.84 HKIR HY/2011/03 2019-09:11 Mid-Flood Fine SR3																	9.7	5.4
HKIR HY/2011/03 2019-09-11 Mid-Flood Fine IS10(N) 4:05 5.3 Middle 2 1 28:60 7.92 27.42 83.6 5.56 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine IS10(N) 4:05 5.3 Middle 2 2 28:50 7.93 27.43 87.6 5.83 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine IS10(N) 4:05 5.8 0 3 2 28:59 7.93 27.43 88.5 5.88 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine S83(N) 4:58 1.0 Surface 1 28.10 8.31 25.85 107.3 7.27 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine S83(N) 4:58 2.3 Bottom 3 1 28.02 8.31 25.43 11.0 7.52 HKLR HY/2011/03 2019-09-11 Mid-Flood Fi		, ,				. ,	-							-			9.7	5.2
HKR HY/2011/03 2019-09-11 Mid-Flood Fine IS10(N) 4.05 9.3 Middle 2 2 2 2 0 7.92 27.44 83.3 5.54 HKR HY/2011/03 2019-09-11 Mid-Flood Fine IS10(N) 4.05 9.6 Bottom 3 1 28.62 7.93 27.43 87.6 5.89 HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR3(N) 45.8 1.0 Surface 1 2 28.02 8.31 25.85 107.3 7.77 HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR3(N) 45.8 2.3 Bottom 3 1 28.05 8.31 25.85 10.16 6.88 HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2 4.06 1.0 Surface 1 1 28.23 8.34 23.33 111.0 7.53 HKR HY/2011/03 201																	11.9	4.5
HKR HY/2011/03 2019-09-11 Mid-Flood Fine IS10(N) 4.05 9.6 Bottom 3 1 28.62 7.93 27.43 87.6 5.83 HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR3(N) 4.58 1.0 Surface 1 28.19 8.32 24.72 105.8 7.19 HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR3(N) 4.58 1.0 Surface 1 28.10 8.31 25.59 106.9 7.23 HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR3(N) 4.58 2.3 Bottom 3 2 27.95 8.29 26.33 101.6 6.88 HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 407 1.0 Surface 1 1 28.20 8.34 23.33 111.0 7.53 HKR HY/2011/03 2019-09-11 Mid-Flood Fine <					-	()	-										12.0	4.8
HKR HY/2011/03 2019-09-11 Mid-Flood Fine IS3(N) 4.04 9.6 Bottm 3 2 28.59 7.93 27.43 88.5 5.89 HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR3(N) 4.58 1.0 Surface 1 2 28.02 8.31 25.85 107.3 7.27 HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR3(N) 4.58 2.3 Bottom 3 1 28.05 8.31 25.85 106.9 7.23 HKIR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4.08 1.0 Surface 1 2 28.20 8.34 23.33 111.0 7.53 HKIR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4.07 2.6 Bottom 3 1 28.09 8.32 25.33 111.0 7.53 HKIR HY/2011/03 2019-09-11 Mid-Fl																	11.7	4.3
HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR3(N) 4:58 1.0 Surface 1 1 28.19 8.32 24.72 105.8 7.19 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR3(N) 4:58 2.3 Bottom 3 1 28.05 8.31 25.85 107.3 7.27 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR3(N) 4:58 2.3 Bottom 3 2 27.95 8.29 26.33 101.6 6.88 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4:07 1.0 Surface 1 2 28.20 8.34 23.3 111.0 7.59 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4:07 1.0 Surface 1 1 28.07 8.31 25.33 111.0 7.53 HKLR HY/2011/03 2019-09-11 Mi																	11.6	4.4
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine \$\$\mathbb{SR}(N)\$ 44:58 1.0 Surface 1 2 28.02 8.31 25.85 107.3 7.27 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine \$\$\mathbb{SR}(N)\$ 4:58 2.3 Bottom 3 1 28.05 8.31 25.99 106.9 7.23 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine \$\$\mathbb{SR}(N)\$ 4:58 2.3 Bottom 3 1 28.05 8.34 23.43 111.0 7.59 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine \$\$\mathbb{SR}(N) 4:07 1.0 Surface 1 1 28.09 8.34 23.53 111.0 7.53 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine \$\$\mathbb{SR}(N) 4:17 1.0 \$\$\mathbb{Surface} 1 2 29.08 8.04 22.05 93.6 6.21 HKLR																	1.4	3.4
HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR3(N) 4:58 2.3 Bottom 3 1 28.05 8.31 25.99 106.9 7.23 HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4:08 1.0 Surface 1 1 28.23 8.24 28.33 111.0 7.62 HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4:07 1.0 Surface 1 2 28.20 8.34 23.33 111.0 7.53 HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4:08 2.6 Bottom 3 2 28.17 8.32 25.31 110.8 7.51 HKR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.9 Middle 2 20.8 8.01 22.05 9.6 6.21 HKR HY/2011/03 2019-09-11 Mid-Flood F																	1.4	3.9
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4:08 1.0 Surface 1 1 28.23 8.34 23.43 111.3 7.62 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4:07 1.0 Surface 1 2 28.09 8:34 23.53 111.0 7.53 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4:08 2.6 Bottom 3 2 28.17 8.32 25.31 110.8 7.51 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:18 1.0 Surface 1 2 29.08 8.04 22.0 89.4 6.07 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.9 Middle 2 2 28.67 7.94 27.39 82.7 5.50 HKLR HY/2011/03 2019-09-11 Mi	HKLR	, ,									1				106.9		1.6	4.0
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4:07 1.0 Surface 1 2 28.0 8.34 23.53 111.0 7.59 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4:07 2.6 Bottom 3 1 28.09 8.32 25.33 111.0 7.51 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:18 1.0 Surface 1 1 29.05 8.01 22.05 93.6 6.21 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.0 Surface 1 2 28.08 8.04 22.08 8.4 6.07 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.9 Middle 2 2 28.67 7.94 27.39 84.2 5.60 HKLR HY/2011/03 2019-09-11 Mid-F				Mid-Flood	Fine		4:58	2.3			2	27.95	8.29	26.33	101.6	6.88	1.5	4.3
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4:07 2.6 Bottom 3 1 28.09 8.32 25.33 111.0 7.53 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4:08 2.6 Bottom 3 2 28.17 8.32 25.31 110.8 7.51 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 1.0 Surface 1 29.08 8.04 22.20 89.4 6.07 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.9 Middle 2 1 28.66 7.94 27.39 82.7 5.50 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.9 Middle 2 2 28.67 7.94 27.39 82.7 5.50 HKLR HY/2011/03 2019-09-11 Mid-Flood <	HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	SR4(N2)	4:08	1.0	Surface	1	1	28.23	8.34	23.43	111.3	7.62	1.4	4.1
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR4(N2) 4:08 2.6 Bottom 3 2 28.17 8.32 25.31 110.8 7.51 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 1.0 Surface 1 1 29.05 8.01 22.00 89.4 6.07 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.9 Middle 2 1 28.66 7.94 27.39 82.7 5.50 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.9 Middle 2 2 28.67 7.94 27.39 84.2 5.60 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 6.7 Bottom 3 1 28.60 7.92 27.47 84.0 5.59 HKLR HY/2011/03 2019-09-11 Mid-Flo	HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	SR4(N2)	4:07	1.0	Surface	1	2	28.20	8.34	23.53	111.0	7.59	1.3	4.6
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:18 1.0 Surface 1 1 29.05 8.01 22.05 93.6 6.21 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 1.0 Surface 1 2 29.08 8.04 22.0 89.4 6.07 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.9 Middle 2 2 28.67 7.94 27.39 84.2 5.60 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 6.7 Bottom 3 1 28.60 7.92 27.47 84.0 5.59 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 1.0 Surface 1 29.22 8.08 22.00 95.2 6.33 HKLR HY/2011/03 2019-09-11 Mid-Flood <t< td=""><td>HKLR</td><td>HY/2011/03</td><td>2019-09-11</td><td>Mid-Flood</td><td>Fine</td><td>SR4(N2)</td><td>4:07</td><td>2.6</td><td>Bottom</td><td>3</td><td>1</td><td>28.09</td><td>8.32</td><td>25.33</td><td>111.0</td><td>7.53</td><td>1.4</td><td>3.1</td></t<>	HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	SR4(N2)	4:07	2.6	Bottom	3	1	28.09	8.32	25.33	111.0	7.53	1.4	3.1
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 1.0 Surface 1 2 29.08 8.04 22.20 89.4 6.07 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.9 Middle 2 1 28.66 7.94 27.39 82.7 5.50 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.9 Middle 2 2 28.67 7.94 27.39 84.2 5.60 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 6.7 Bottom 3 2 28.73 7.96 27.40 88.7 6.04 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 1.0 Surface 1 2 29.17 8.05 22.27 9.46 6.42 HKLR HY/2011/03 2019-09-11 Mid-Fl	HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	SR4(N2)	4:08	2.6	Bottom	3	2	28.17	8.32	25.31	110.8	7.51	1.3	3.0
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.9 Middle 2 1 28.66 7.94 27.39 82.7 5.50 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.9 Middle 2 2 28.67 7.94 27.39 84.2 5.60 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:16 6.7 Bottom 3 1 28.67 7.94 27.39 84.2 5.60 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 6.7 Bottom 3 1 28.67 7.94 27.40 88.7 6.04 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 1.0 Surface 1 2 29.17 8.05 22.27 94.6 6.42 HKLR HY/2011/03 2019-09-11 Mid-Flo	HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	SR5(N)	4:18	1.0	Surface	1	1	29.05	8.01	22.05	93.6	6.21	6.3	4.5
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 3.9 Middle 2 2 28.67 7.94 27.39 84.2 5.60 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:16 6.7 Bottom 3 1 28.60 7.92 27.47 84.0 5.59 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 6.7 Bottom 3 1 28.60 7.92 27.47 84.0 5.59 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 1.0 Surface 1 2 29.17 8.05 22.27 94.6 6.42 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 6.1 Middle 2 1 28.55 7.88 27.39 82.5 5.50 HKLR HY/2011/03 2019-09-11 Mid-F	HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	SR5(N)	4:17	1.0	Surface	1	2	29.08	8.04	22.20	89.4	6.07	6.7	4.1
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:16 6.7 Bottom 3 1 28.60 7.92 27.47 84.0 5.59 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 6.7 Bottom 3 2 28.73 7.96 27.40 88.7 6.04 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 1.0 Surface 1 1 29.22 8.08 22.00 95.2 6.33 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 1.0 Surface 1 2 29.17 8.05 22.27 94.6 6.42 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 6.1 Middle 2 2 28.55 7.88 27.39 82.5 5.50 HKLR HY/2011/03 2019-09-11 Mi	HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	SR5(N)	4:17		Middle						82.7	5.50	8.5	3.6
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR5(N) 4:17 6.7 Bottom 3 2 28.73 7.96 27.40 88.7 6.04 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 1.0 Surface 1 1 29.22 8.08 22.00 95.2 6.33 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 1.0 Surface 1 2 29.17 8.05 22.27 94.6 6.42 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 6.1 Midele 2 1 28.55 7.88 27.39 82.5 5.50 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 11.2 Bottom 3 1 28.57 7.88 27.39 82.5 5.50 HKLR HY/2011/03 2019-09-11 <td< td=""><td></td><td></td><td></td><td></td><td>Fine</td><td>SR5(N)</td><td></td><td></td><td>Middle</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>8.7</td><td>3.7</td></td<>					Fine	SR5(N)			Middle						-		8.7	3.7
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 1.0 Surface 1 1 29.22 8.08 22.00 95.2 6.33 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 1.0 Surface 1 2 29.17 8.05 22.27 94.6 6.42 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 6.1 Midele 2 1 28.58 7.92 27.41 83.3 5.61 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 1.1 Bottom 3 1 28.55 7.88 27.39 82.5 5.50 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 11.2 Bottom 3 1 28.70 7.91 27.36 85.9 5.72 HKLR HY/2011/03 2019-09-11 <					Fine	. ,			Bottom								9.1	3.2
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 1.0 Surface 1 2 29.17 8.05 22.27 94.6 6.42 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 6.1 Middle 2 1 28.58 7.92 27.41 83.3 5.61 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 6.1 Middle 2 2 28.55 7.88 27.39 82.5 5.50 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 11.2 Bottom 3 1 28.70 7.95 27.31 86.6 5.77 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:10 11.2 Bottom 3 2 28.57 7.91 27.36 85.9 5.72 HKLR HY/2011/03 2019-09-11 <								-									9.8	3.2
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 6.1 Middle 2 1 28.58 7.92 27.41 83.3 5.61 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 6.1 Middle 2 2 28.55 7.88 27.39 82.5 5.50 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 11.2 Bottom 3 1 28.70 7.95 27.31 86.6 5.77 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:10 11.2 Bottom 3 2 28.57 7.91 27.36 85.9 5.72 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 1.0 Surface 1 1 29.10 7.99 22.77 90.5 6.13 HKLR HY/2011/03 2019-09-11											-						6.0	3.2
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 6.1 Middle 2 2 28.55 7.88 27.39 82.5 5.50 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 11.2 Bottom 3 1 28.70 7.95 27.31 86.6 5.77 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:10 11.2 Bottom 3 2 28.57 7.91 27.36 85.9 5.72 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR108(N2) 3:02 1.0 Surface 1 1 29.10 7.99 22.77 90.5 6.13 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR108(N2) 3:02 1.0 Surface 1 2 28.88 8.00 22.47 90.5 6.13 HKLR HY/2011/03 2019-09-11																	6.1	3.5
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:11 11.2 Bottom 3 1 28.70 7.95 27.31 86.6 5.77 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:10 11.2 Bottom 3 2 28.57 7.91 27.36 85.9 5.72 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR108(N2) 3:02 1.0 Surface 1 1 29.10 7.99 22.77 90.5 6.13 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR108(N2) 3:02 1.0 Surface 1 2 28.88 8.00 22.46 92.3 6.13 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR108(N2) 3:02 3.3 Middle 2 1 28.66 7.93 27.28 86.3 5.74 HKLR HY/2011/03 2019-09-11																	6.8	3.4
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10A(N) 3:10 11.2 Bottom 3 2 28.57 7.91 27.36 85.9 5.72 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR108(N2) 3:02 1.0 Surface 1 1 29.10 7.99 22.77 90.5 6.13 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR108(N2) 3:02 1.0 Surface 1 2 28.88 8.00 22.46 92.3 6.13 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR108(N2) 3:02 3.3 Middle 2 1 28.66 7.93 27.28 86.3 5.74 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR108(N2) 3:01 3.3 Middle 2 2 28.63 7.89 27.29 82.4 5.48 HKLR HY/2011/03 2019-09-11																	6.7	4.0
HKIR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 1.0 Surface 1 1 29.10 7.99 22.77 90.5 6.13 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 1.0 Surface 1 2 28.88 8.00 22.46 92.3 6.13 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 3.3 Middle 2 1 28.66 7.93 27.28 86.3 5.74 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:01 3.3 Middle 2 2 28.63 7.89 27.29 82.4 5.48 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:01 5.5 Bottom 3 1 28.57 7.89 27.36 86.6 5.77 HKLR HY/2011/03 2019-09-11										-							7.1	4.4
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 1.0 Surface 1 2 28.88 8.00 22.46 92.3 6.13 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 3.3 Middle 2 1 28.66 7.93 27.28 86.3 5.74 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:01 3.3 Middle 2 2 28.63 7.89 27.29 82.4 5.48 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:01 5.5 Bottom 3 1 28.57 7.89 27.36 86.6 5.77 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 5.5 Bottom 3 1 28.57 7.94 27.23 87.1 5.93 HKLR HY/2011/03 2019-09-11																	7.2	3.9
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 3.3 Middle 2 1 28.66 7.93 27.28 86.3 5.74 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:01 3.3 Middle 2 2 28.63 7.89 27.29 82.4 5.48 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:01 5.5 Bottom 3 1 28.57 7.89 27.28 86.6 5.77 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:01 5.5 Bottom 3 1 28.57 7.89 27.28 86.6 5.77 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 5.5 Bottom 3 2 28.75 7.94 27.23 87.1 5.93						. ,											3.6	3.8
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:01 3.3 Middle 2 2 28.63 7.89 27.29 82.4 5.48 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:01 5.5 Bottom 3 1 28.57 7.89 27.36 86.6 5.77 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 5.5 Bottom 3 2 28.75 7.94 27.23 87.1 5.93 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 5.5 Bottom 3 2 28.75 7.94 27.23 87.1 5.93						()											4.0	3.8
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:01 5.5 Bottom 3 1 28.57 7.89 27.36 86.6 5.77 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 5.5 Bottom 3 1 28.57 7.89 27.36 86.6 5.77 HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 5.5 Bottom 3 2 28.75 7.94 27.23 87.1 5.93														-			5.5	5.1
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine SR10B(N2) 3:02 5.5 Bottom 3 2 28.75 7.94 27.23 87.1 5.93																	5.2 5.3	5.2 5.1
																	5.3	5.1
																	7.9	5.4
HKLR HY/2011/03 2019-09-11 Mid-Flood Fine CS2(A) 5:09 1.0 Surface 1 2 29.10 8.04 22.20 94.6 6.43																	7.9	1.4
																	8.1	2.4
						. ,											7.8	3.0

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	CS2(A)	5:09	5.1	Bottom	3	1	28.84	7.97	27.37	94.9	6.29	7.8	3.9
HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	CS2(A)	5:08	5.1	Bottom	3	2	28.64	7.94	27.49	89.6	5.95	8.6	3.8
HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	CS(Mf)5	3:23	1.0	Surface	1	1	28.15	8.29	23.23	93.1	6.28	3.2	2.9
HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	CS(Mf)5	3:23	1.0	Surface	1	2	28.21	8.30	23.51	92.5	6.22	3.1	3.6
HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	CS(Mf)5	3:23	5.9	Middle	2	1	27.39	8.17	30.34	91.6	6.18	4.2	5.1
HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	CS(Mf)5	3:22	5.9	Middle	2	2	27.43	8.14	30.31	84.0	5.57	4.1	5.2
HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	CS(Mf)5	3:23	10.8	Bottom	3	1	27.45	8.18	31.24	87.4	5.84	4.0	7.1
HKLR	HY/2011/03	2019-09-11	Mid-Flood	Fine	CS(Mf)5	3:22	10.8	Bottom	3	2	27.35	8.13	31.52	78.6	5.25	4.1	7.6
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS5	12:16	1.0	Surface	1	1	28.89	8.25	24.82	98.1	6.60	6.5	9.5
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS5	12:16	1.0	Surface	1	2	28.94	8.26	24.75	96.5	6.48	6.3	8.5
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS5	12:16	4.2	Middle	2	1	28.54	8.24	25.42	97.4	6.54	6.5	9.0
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS5	12:16	4.2	Middle	2	2	28.66	8.25	25.18	95.8	6.45	6.5	8.0
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS5	12:16	7.3	Bottom	3	1	28.66	8.25	25.42	96.5	6.49	6.4	8.4
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS5	12:16	7.3	Bottom	3	2	28.46	8.24	25.69	94.5	6.36	6.5	7.6
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS(Mf)6	12:24	1.0	Surface	1	1	29.02	8.28	24.38	100.0	6.72	8.5	8.8
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS(Mf)6	12:24	1.0	Surface	1	2	28.87	8.27	24.60	100.7	6.77	8.4	7.9
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS(Mf)6	12:24	2.2	Bottom	3	1	28.74	8.27	24.91	100.3	6.75	8.5	6.4
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS(Mf)6	12:24	2.2	Bottom	3	2	28.88	8.27	24.78	100.7	6.77	8.4	6.0
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS7	12:33	1.0	Surface	1	1	29.53	8.30	23.96	105.0	7.01	2.6	5.3
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS7	12:33	1.0	Surface	1	2	29.04	8.29	24.25	106.9	7.19	2.7	4.7
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS7	12:33	2.1	Bottom	3	1	28.71	8.26	24.83	99.3	6.69	2.8	2.8
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS7	12:33	2.1	Bottom	3	2	29.02	8.29	24.41	106.4	7.15	2.9	2.8
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS8(N)	13:04	1.0	Surface	1	1	28.85	8.24	24.32	92.9	6.26	10.5	15.0
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS8(N)	13:04	1.0	Surface	1	2	28.95	8.25	24.45	95.7	6.43	10.5	17.4
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS8(N)	13:04	2.9	Bottom	3	1	28.97	8.25	24.53	95.0	6.38	10.1	13.0
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS8(N)	13:04	2.9	Bottom	3	2	28.58	8.22	25.55	93.9	6.31	10.5	12.7
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS(Mf)9	12:42	1.0	Surface	1	1	29.04	8.29	24.30	107.0	7.19	5.7	9.0
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS(Mf)9	12:42	1.0	Surface	1	2	28.99	8.28	24.36	104.0	6.99	5.5	8.0
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS(Mf)9	12:42	2.7	Bottom	3	1	28.88	8.30	24.34	102.3	6.89	5.3	9.9
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS(Mf)9	12:42	2.7	Bottom	3	2	29.07	8.29	24.28	105.6	7.09	5.4	8.9
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS10(N)	13:03	1.0	Surface	1	1	30.08	7.90	22.88	95.8	6.38	10.6	8.1
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS10(N)	13:04	1.0	Surface	1	2	30.13	7.90	22.71	95.6	6.37	10.6	8.4
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS10(N)	13:04	5.0	Middle	2	1	29.56	7.86	24.13	92.3	6.15	12.2	6.7
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS10(N)	13:03	5.0	Middle	2	2	29.54	7.86	24.16	90.8	6.06	12.7	5.7
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS10(N)	13:03	8.9	Bottom	3	1	29.78	7.88	24.14	96.0	6.38	12.8	5.2
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	IS10(N)	13:03	8.9	Bottom	3	2	29.53	7.86	24.26	91.4	6.10	13.3	6.1
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR3(N)	12:07	1.0	Surface	1	1	29.67	8.32	23.91	104.7	7.04	7.5	3.7
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR3(N)	12:07	1.0	Surface	1	2	29.48	8.30	24.04	106.6	7.12	7.4	2.7
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR3(N)	12:07	2.5	Bottom	3	1	28.87	8.30	24.68	101.9	6.79	7.1	4.4
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR3(N)	12:06	2.5	Bottom	3	2	28.57	8.32	25.06	95.6	6.45	7.5	3.8
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR4(N2)	12:56	1.0	Surface	1	1	28.70	8.24	24.21	90.2	6.10	10.5	9.9
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR4(N2)	12:56	1.0	Surface	1	2	28.73	8.21	24.52	89.0	6.00	10.9	9.2
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR4(N2)	12:56	2.6	Bottom	3	1	28.60	8.26	25.22	93.3	6.28	10.1	9.4
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR4(N2)	12:56	2.6	Bottom	3	2	28.76	8.22	24.57	90.0	6.06	10.4	10.0
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR5(N)	12:53	1.0	Surface	1	1	29.94	7.89	23.11	95.0	6.33	13.9	6.6
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR5(N)	12:53	1.0	Surface	1	2	30.03	7.89	22.94	96.4	6.42	14.2	5.6
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR5(N)	12:53	3.9	Middle	2	1	29.61	7.87	23.89	92.1	6.15	14.8	6.3
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR5(N)	12:53	3.9	Middle	2	2	29.69	7.87	23.68	91.8	6.12	15.5	5.4
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR5(N)	12:52	6.7	Bottom	3	1	29.50	7.85	24.39	90.4	6.03	15.6	3.6
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR5(N)	12:53	6.7	Bottom	3	2	29.56	7.86	24.27	93.4	6.22	16.0	4.6
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR10A(N)	13:49	1.0	Surface	1	1	30.02	7.99	24.68	102.1	6.74	4.2	2.1
HKLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR10A(N)	13:48	1.0	Surface	1	2	30.22	8.03	24.25	104.9	6.92	4.5	2.9

HREB HV/2011/03 2019-09-13 Midelie StituAving 13.49 6.1 Middle 2 2 29.75 79.7 29.88 99.6 65.5 HREB HV/2011/03 2019-09-13 Mid-Ebb Summy StituAving 13.48 11.1 Bottom 3 2 25.63 7.66 25.64 99.3 65.5 HREB HV/2011/03 2019-09.13 Mid-Ebb Summy StituAving 13.89 1.0 Surface 1 2 30.3 8.01 25.83 10.0 SituAving 13.2 2 2 2.5 7.56 2.5 7.57 99.5 5.5 HKE HV/2011/03 2019-09.13 Mid-Ebb Summy StituBving 13.7 5.8 Bottom 3 2 2.5 7.9 2.5 5.7 10.5 SituBving 11.1 2.6 7.83 2.5 7.9 9.5 5.5 4.4 4.4 4.4 4.4 4.4 4.4 4.4	oject	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKR HY/2011/03 2019/0-33 Md-Ebb Sumy St00/(N) 13:46 11.1 Bottom 3 1 29:73 6.08 25:71 99:6 65:55 HKR HY/2011/03 2019/09-13 Md-Ebb Sumy St00(N) 13:8 1.0 Surface 1 1 30:12 7.99 24:01 10:30 68 HKR HY/2011/03 2019/09-13 Md-Ebb Sumy St00(N) 13:8 3.4 Mddele 2 1 29:75 7.96 25:38 10:0 66 HKR HY/2011/03 2019/0-13 Md-Ebb Sumy St00(N) 13:8 3.4 Mddele 2 2 29:61 7:5 25:57 10:1 6.5 HKR HY/2011/03 2019/0-13 Md-Ebb Sumy St00(N) 13:57 5.8 Bottom 3 2 29:57 7:58 25:70 10:15 5:7.5 HKR HY/2011/03 2019:0-13 Md-Ebb Sum	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR10A(N)	13:48	6.1	Middle	2	1	29.69	8.01	25.63	99.1	6.54	4.4	2.7
HKR HV/2011/03 2019-09-13 Mul-Ebb Sum/ry Stillability Stillab	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR10A(N)	13:49	6.1	Middle	2	2			25.38	99.6	6.58	4.6	2.0
HHLR HY/2011/03 2019-09-13 Mid-Ebb Sumry Stroken 1 1 30.12 7.99 24.01 103.0 68. HHLR HY/2011/03 2019-09-13 Mid-Ebb Sumry Stroken 1 29.77 7.96 25.38 10.01 66. HHLR HY/2011/03 2019-09-13 Mid-Ebb Sumry Stroken 3 1 22.65 7.55 25.77 10.7 6.7 HHLR HY/2011/03 2019-09-13 Mid-Ebb Sumry Stroken 3 1 23.56 7.59 25.57 10.17 6.7 HHLR HY/2011/03 2019-09-13 Mid-Ebb Sumry Stroken 1 23.56 7.59 25.54 6.4 HHLR HY/2011/03 2019-09-13 Mid-Ebb Sumry Stroken 1 23.57 7.90 23.63 94.64 6.3 HHLR HY/2011/03 2019-09-13 Mid-Ebb Sumry Stroken 1 28.77	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR10A(N)	13:48	11.1	Bottom	-				25.71	99.6	6.57	5.3	1.8
HKR. HY/2011/03 2019-09-13 Mid-Ebb Summy Str.BBR/N 1357 1.0 Sufface 1 2 30.9 8.01 23.33 10.07 65.9 HKR. HY/2011/03 2019-09-13 Mid-Ebb Summy Str.BBR/N 1357 3.4 Middle 2 2 29.61 7.95 25.75 99.5 6.57 HKR. HY/2011/03 2019-09.13 Mid-Ebb Summy Str.BBR/N 1357 5.8 Bottom 3 1 29.56 7.95 25.78 90.5 6.6 HKR. HY/2011/03 2019-09.13 Mid-Ebb Summy CS2[A] 12.02 1.0 Surface 1 1 29.56 7.89 23.30 96.2 6.4 HKR. HY/2011/03 2019-09.13 Mid-Ebb Summy CS2[A] 12.01 1.3 Sufface 1 29.77 7.88 23.39 94.8 6.3 HKR. HY/2011/03 2019-03.1 Mid-Ebb <td< td=""><td></td><td></td><td></td><td></td><td>Sunny</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>6.56</td><td>5.7</td><td>2.1</td></td<>					Sunny											6.56	5.7	2.1
HKR HY/2011/03 2019-09-13 Mid-Ebb Summy St1808/V1 1357 3.4 Middle 2 1 29.75 7.96 25.38 10.00 6.6 HKR HY/2011/03 2019-09-13 Mid-Ebb Summy St1808/V1 1358 5.8 Bottom 3 1 229.65 7.95 25.80 10.10.7 6.7.5 HKR HY/2011/03 2019-09-13 Mid-Ebb Summy St218 12.01 1.0 Surface 1 1 229.66 7.85 25.80 10.10.7 6.7.7 HKR HY/2011/03 2019-09-13 Mid-Ebb Summy C52(A) 12.01 1.0 Surface 1 2.9.86 7.89 7.3.63 9.85 6.8. HKR HY/2011/03 2019-09-13 Mid-Ebb Summy C52(A) 12.02 3.2 Middle 2 2.9.77 7.86 7.83 7.85 7.85 7.85 7.85 7.9.8 7.85 7.86 7.9.8 <td< td=""><td>KLR</td><td>HY/2011/03</td><td></td><td>Mid-Ebb</td><td>Sunny</td><td>SR10B(N2)</td><td>13:58</td><td>1.0</td><td>Surface</td><td>1</td><td></td><td></td><td>7.99</td><td></td><td>103.0</td><td>6.81</td><td>2.5</td><td>3.7</td></td<>	KLR	HY/2011/03		Mid-Ebb	Sunny	SR10B(N2)	13:58	1.0	Surface	1			7.99		103.0	6.81	2.5	3.7
HKR HY/2011/03 2019-09-13 MM-Ebb Summy SR100HV2 115:7 3.4 MM(de) 2 2 295.6 7.95 25:70 995. 65.75 HKR HY/2011/03 2019-09-13 MM-Ebb Summy SR100HV2 11:57 5.8 Borton 3 2 29.56 7.95 25.70 10:15 65.76 HKR HY/2011/03 2019-09.13 MM-Ebb Summy CS2(A) 12:02 1.0 Sufface 1 29.88 7.90 23.83 945.2 66.4 HKR HY/2011/03 2019-09.13 MM-Ebb Summy CS2(A) 12:01 1.0 Sufface 1 29.77 7.90 23.83 94.8 63.3 HKR HY/2011/03 2019-09-13 MM-Ebb Summy CS2(A) 12:01 5.3 Borton 3 2 29.77 7.88 23.71 96.4 64.5 HKR HY/2011/03 2019-09-13 MM-Ebb Summy CS					Sunny	. ,					2					6.90	2.6	3.6
HKB HY/2011/03 2019 09.13 Mid-bb Summy StateRight 1.55 5.8 Bottom 3 1 29.65 7.95 25.70 10.17 6.77 HKB HY/2011/03 2019-09.13 Mid-bb Summy CS2(A) 12.01 1.01 Surface 1 1 29.65 7.95 22.30 96.5 6.4 HKB HY/2011/03 2019-09.13 Mid-bb Summy CS2(A) 12.01 1.0 Surface 1 2 29.84 7.90 23.80 96.5 6.4 HKB HY/2011/03 2019-09.13 Mid-bb Summy CS2(A) 12.01 3.3 Bottom 3 1 29.67 7.84 23.84 85.8 5.8 HKB HY/2011/03 2019-09.13 Mid-bb Summy CS2(M) 12.02 5.3 Bottom 3 1 28.64 8.80 25.81 87.7 5.8 HKB HY/2011/03 2019-09-13 Mid-bb Summy					Sunny	SR10B(N2)			Middle							6.67	2.7	3.0
HKIR HY/2011/03 2019-09-13 MidEbb Sumy SS10(N2) 13:57 5.8 Bentom 3 2 29.56 7.95 29.98 101.5 6.7 HKIR HY/2011/03 2019-09-13 MidEbb Sumry CS2(A) 12.01 1.0 Surface 1 2.9.86 7.80 23.27 66.5 6.4 HKIR HY/2011/03 2019-09-13 MidEbb Sumry CS2(A) 12.01 3.2 Middle 2 2 27.07 7.88 23.64 95.8 6.3 IMKIR HY/2011/03 2019-09-13 MidEbb Sumry CS2(A) 12.20 3.3 Bottom 3 1 2.06.7 7.98 23.64 95.8 6.3 IMKIR HY/2011/03 2019-09-13 MidEbb Sumry CS2(A) 12.20 3.3 Bottom 3 1 2.08.7 2.5.1 8.7 3.0 8.02 25.3 8.7 3.0 2.2.2 2.4.2 2.2.2		1 - 1			Sunny	. ,		-	Middle		2					6.57	2.9	4.0
HKR HY/2011/03 2019-09-13 Mide Ebb Sumy CS2(A) 12.02 1.0 Surface 1 2.9.86 7.89 23.27 96.5 6.4 HKR HY/2011/03 2019-09-13 Mide Ebb Sumy CS2(A) 12.01 1.0 Surface 1 2.9.72 7.90 23.63 94.5 6.6.3 HKR HY/2011/03 2019-09-13 Mide Ebb Sumny CS2(A) 12.01 3.2 Middle 2 2 29.70 7.88 23.64 95.8 6.3 HKR HY/2011/03 2019-09-13 Mide Ebb Sumny CS2(A) 12.01 5.3 Bottom 3 2 29.73 7.88 23.71 96.4 6.4 HKR HY/2011/03 2019-09-13 Mide Ebb Sumny CS1(M) 13.26 1.0 Surface 1 28.48 8.20 25.51 87.7 5.8 HKR HY/2011/03 2019-09-13 Mide Ebb Sumny CS1(M)	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR10B(N2)	13:58		Bottom						101.7	6.72	5.5	3.8
HKR HY/2011/03 2019/99.13 Md Ebb Sunny CSI/A 12.01 1.0 Surface 1 2 29.88 7.90 23.30 96.2 6.64 HKR HY/2011/03 2019/99.13 Md Ebb Sunny CSI/A 12.02 3.2 Middle 2 2 29.70 7.88 23.64 95.8 6.33 HKR HY/2011/03 2019/99.13 Mid/Ebb Sunny CSI/A 12.02 5.3 Bottom 3 2 29.73 7.88 23.71 96.4 6.4 HKR HY/2011/03 2019/99.13 Mid/Ebb Sunny CSI/A 12.02 5.3 Bottom 3 2 29.73 7.88 23.71 96.4 6.4 HKR HY/2011/03 2019/99.13 Mid/Ebb Sunny CSI/M15 13.26 1.0 Surface 1 2 28.26 8.7 7.9 98.2 5.7 7.7 98 7.9 98.2 5.7 7.7	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	SR10B(N2)	13:57	5.8	Bottom	3	2		7.95	25.98	101.5	6.70	5.1	3.0
HKR HY/2011/03 2019-09-13 Md-Ebb Sunny CSI/A 12.01 3.2 Midele 2 1 29.70 7.30 23.63 94.5 65.3 HKR HY/2011/03 2019-09-13 Mid-Ebb Sunny CSI/A 12.01 5.3 Bottom 3 1 29.77 7.88 7.84 9.84 6.3 HKR HY/2011/03 2019-09-13 Mid-Ebb Sunny CSI/M15 13.26 1.0 Surface 1 1 2.849 8.20 2.551 8.77 3.8 HKR HY/2011/03 2019-09-13 Mid-Ebb Sunny CSI/M15 13.26 6.0 Middle 2 2.850 8.22 2.729 7.80 2.717 5.9 HKR HY/2011/03 2019-09-13 Mid-Ebb Sunny CSI/M15 13.26 6.0 Middle 2 2.820 8.18 2.732 8.52 5.7 HKR HY/2011/03 2019-09-13 MideEbb Sunny	KLR	HY/2011/03	2019-09-13		Sunny	CS2(A)	12:02		Surface				7.89			6.43	13.8	4.9
HKR HY/2011/03 2019-09-13 Mid-Ebb Sumny C52(A) 12:02 5.3 Bottom 3 1 29:67 7.84 23:64 95.8 63:3 HKR HY/2011/03 2019-09-13 Mid-Ebb Sumny CS2(A) 12:02 5.3 Bottom 3 1 29:67 7.84 23:51 B6:4 64.4 HKR HY/2011/03 2019-09-13 Mid-Ebb Sumny CS2(A) 12:02 5.3 Bottom 3 1 28:48 8.20 25:51 B7.7 5.8 HKR HY/2011/03 2019-09-13 Mid-Ebb Sunny CS(MI)5 13:26 6.0 Middle 2 28:20 27:29 87.7 5.9 HKR HY/2011/03 2019-09-13 Mid-Ebb Sunny CS(MI)5 13:26 1.0 Mid-Ebc 28:20 27.29 86.2 5.7 HKR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6:03 1.0 Surf	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	CS2(A)	12:01	1.0	Surface	1	2	29.88	7.90	23.30	96.2	6.41	13.5	4.5
HKR HY/2011/03 2019-09-13 Mid-Ebb Sumny CSI(A) 12/02 5.3 Bottom 3 1 29.67 7.94 23.88 94.8 66.3 HKR HY/2011/03 2019-09-13 Mid-Ebb Sumny CSI(M) 13.26 1.0 Surface 1 1 28.48 8.20 25.51 87.7 5.8 HKR HY/2011/03 2019-09-13 Mid-Ebb Sunny CSI(M) 13.26 1.0 Surface 1 28.56 8.22 25.42 90.2 6.0 HKR HY/2011/03 2019-09-13 Mid-Ebb Sunny CSI(M) 13.26 1.0 Midelb 2 28.20 8.18 27.30 8.62 5.7 HKR HY/2011/03 2019-09-13 Mid-Ebo Sunny CSI(M) 13.26 11.0 Bottom 3 1 28.30 8.19 27.28 8.52 5.7 HKR HY/2011/03 2019-09-13 Mid-Flood Fine 155 <td>KLR</td> <td>HY/2011/03</td> <td>2019-09-13</td> <td>Mid-Ebb</td> <td>Sunny</td> <td>CS2(A)</td> <td>12:01</td> <td>3.2</td> <td>Middle</td> <td>2</td> <td>1</td> <td>29.72</td> <td>7.90</td> <td>23.63</td> <td>94.5</td> <td>6.31</td> <td>14.1</td> <td>4.2</td>	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	CS2(A)	12:01	3.2	Middle	2	1	29.72	7.90	23.63	94.5	6.31	14.1	4.2
HKR HY/2011/03 2019-09-13 Mid-Ebb Summy CSZ(A) 12.02 5.3 Bottom 3 2 29.73 7.88 23.71 96.4 6.4 HKIR HY/2011/03 2019-09-13 Mid-Ebb Summy CS(MI)5 13.26 1.0 Surface 1 28.46 8.20 25.51 8.77 5.8 HKIR HY/2011/03 2019-09-13 Mid-Ebb Summy CS(MI)5 13.26 6.0 Middle 2 1.2 28.20 8.12 7.52 85.2 HKIR HY/2011/03 2019-09-13 Mid-Ebb Sumny CS(MI)5 13.26 1.0 Bottom 3 1 28.30 8.19 27.52 85.2 5.7 HKIR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6.03 1.0 Surface 1 28.02 8.27 5.8 HKIR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6.03 4.3 Midd	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	CS2(A)	12:02	3.2	Middle	2	2	29.70	7.88	23.64	95.8	6.39	14.1	3.8
HKR HY/2011/03 2019-09-13 Mid-Ebb Sumy CS(M)5 13:26 1.0 Surface 1 28.48 8.20 25:51 87.7 5.8 HKR HY/2011/03 2019-09-13 Mid-Ebb Sumny CS(M)5 13:26 6.0 Middle 2 1 28.39 8.20 25.24 90.2 6.0 F 5.9 HKR HY/2011/03 2019-09-13 Mid-Ebb Sumny CS(M)5 13:26 6.0 Middle 2 2 28:30 8.19 27:30 86.2 5.8 HKIR HY/2011/03 2019-09-13 Mid-Ebb Sumny CS(M)5 13:26 11.0 Bottom 3 2 28:20 8:20 26:83 87.0 5:8 HKIR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6:03 1.0 Surface 1 2 28:41 8:20 26:83 87.0 5:8 HKIR HY/2011/03 2019-09-13 <t< td=""><td>KLR</td><td>HY/2011/03</td><td>2019-09-13</td><td>Mid-Ebb</td><td>Sunny</td><td>CS2(A)</td><td>12:01</td><td></td><td>Bottom</td><td>3</td><td>1</td><td>29.67</td><td>7.94</td><td>23.98</td><td>94.8</td><td>6.32</td><td>14.7</td><td>4.9</td></t<>	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	CS2(A)	12:01		Bottom	3	1	29.67	7.94	23.98	94.8	6.32	14.7	4.9
HKUR HY/2011/03 2019-09-13 Mid-Ebb Sumy CS(MI)S 13:26 1.0 Surface 1 2 28:56 8:22 25:42 90.2 6.0 HKUR HY/2011/03 2019-09-13 Mid-Ebb Sumny CS(MI)S 13:26 6.0 Middle 2 2 28:20 8:18 27:30 86:7.7 5.9 HKUR HY/2011/03 2019-09-13 Mid-Ebb Sumny CS(MI)S 13:26 11.0 Bottom 3 1 28:30 8:19 27:52 85:2 5:7. HKUR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6:03 1.0 Surface 1 1 28:02 8:17 5:8 HKUR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6:03 4:3 Middle 2 1 27:60 8:13 20:03 8:2.4 5:5 HKUR HY/2011/03 2019-09-13 Mid-Flood Fine 155	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	CS2(A)	12:02	5.3	Bottom	3	2		7.88	23.71	96.4	6.42	15.0	4.8
HKLR HY/2011/03 2019-09-13 Mid-Ebb Sunny CS(Mf)5 13:26 6.0 Middle 2 1 28:19 8.20 27:29 87.7 5.9 HKLR HY/2011/03 2019-09-13 Mid-Ebb Sunny CS(Mf)5 13:26 10.0 Bottom 3 1 28:00 8.18 27:30 86:2 5.8 HKLR HY/2011/03 2019-09-13 Mid-Ebb Sunny CS(Mf)5 13:26 11.0 Bottom 3 2 28:22 8.22 7.50 86:2 5.7. HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6:04 1.0 Surface 1 28:02 8:17 26:63 87.0 5.8 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6:03 7.5 Bottom 3 1 27.00 8:12 30.64 79.3 5.3 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine <td>KLR</td> <td>HY/2011/03</td> <td>2019-09-13</td> <td>Mid-Ebb</td> <td>Sunny</td> <td>CS(Mf)5</td> <td>13:26</td> <td></td> <td>Surface</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5.86</td> <td>6.4</td> <td>8.4</td>	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	CS(Mf)5	13:26		Surface							5.86	6.4	8.4
HKLR HY/2011/03 2019-09-13 Mid-Ebb Sunny CS(Mf)5 13:26 6.0 Midle 2 2 28:20 8:18 27:30 86.2 5.8 HKLR HY/2011/03 2019-09-13 Mid-Ebb Sunny CS(Mf)5 13:26 11.0 Bottom 3 1 28:30 8:19 27:50 86.2 5.7.7 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6:03 1.0 Surface 1 1 28:02 8:17 25:63 83.9 5:5 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6:03 4.3 Midle 2 1 27:60 8:13 29:03 82.4 5:5 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6:03 7.5 Bottom 3 1 27:50 8:12 30:64 7.3 5:3:3 HKLR HY/2011/03 2019-09-13 Mid-Flood	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	CS(Mf)5	13:26	1.0	Surface	1	2	28.56	8.22	25.42	90.2	6.04	6.5	9.0
HKLR HY/2011/03 2019-09-13 Mid-Ebb Sunny CS(Mf)S 13:26 11.0 Bottom 3 1 28:30 8:19 27:52 85:2 5:7 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6:03 1.0 Surface 1 28:22 8:10 27:52 86:2 5:7 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6:04 1.0 Surface 1 2 28:41 8:20 26:33 87:0 5:8 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6:04 4:3 Middle 2 27:72 8:14 28:06 81:7 5:4 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 155 6:03 7.5 Bottom 3 1 27:70 8:12 30:64 79:3 5:3 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 15(Mr)6	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	CS(Mf)5	13:26	6.0	Middle	2	1	28.19	8.20	27.29	87.7	5.90	6.5	8.3
HKLR HY/2011/03 2019-09-13 Mid-Ebb Sunny CS(Mf)5 13:26 11.0 Bottom 3 2 28.22 8.22 27.50 86.2 5.7 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine ISS 6.04 1.0 Surface 1 2.8.02 8.17 26.50 83.9 5.5 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine ISS 6.04 4.3 Middle 2 2 2.7.72 8.14 29.03 82.4 5.5 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine ISS 6.03 7.5 Bottom 3 1 27.50 8.12 30.64 7.9 5.3 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5.52 1.0 Surface 1 2 28.45 8.22 25.64 96.4 6.4 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	CS(Mf)5	13:26	6.0	Middle	2	2	28.20	8.18	27.30	86.2	5.81	6.6	7.7
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine ISS 6:03 1.0 Surface 1 1 28.02 8.17 26.50 83.9 5.57 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine ISS 6:04 1.0 Surface 1 2 28.41 8.20 26.83 87.0 5.8 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine ISS 6:04 4.3 Middle 2 2 27.72 8.14 28.06 81.7 5.4 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine ISS 6:03 7.5 Bottom 3 1 27.45 8.12 30.64 7.5 8.10 30.68 8.64 6.44 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 1.0 Surface 1 1 28.45 8.22 26.64 6.44 HKLR HY/2011/03 2019	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	CS(Mf)5	13:26	11.0	Bottom	3	1	28.30	8.19	27.52	85.2	5.71	6.6	7.7
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS5 6:04 1.0 Surface 1 2 28.41 8.20 26.83 87.0 5.8 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS5 6:04 4.3 Middle 2 1 27.760 8.13 29.03 82.4 5.5 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS5 6:03 7.5 Bottom 3 1 27.750 8.12 30.64 79.3 5.3 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS5 6:03 7.5 Bottom 3 2 27.45 8.12 30.64 79.3 5.3 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 1.0 Surface 1 2 28.45 8.22 26.34 96.5 6.4 HKLR HY/2011/03 2019-09-13 Mid-Flood	KLR	HY/2011/03	2019-09-13	Mid-Ebb	Sunny	CS(Mf)5	13:26	11.0	Bottom	3	2	28.22	8.22	27.50	86.2	5.78	6.6	8.1
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS5 6:03 4.3 Middle 2 1 27.60 8.13 29.03 82.4 5.5 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS5 6:03 7.5 Bottom 3 1 27.60 8.12 30.64 79.3 5.3 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS5 6:03 7.5 Bottom 3 2 27.45 8.12 30.64 79.3 5.3 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 1.0 Surface 1 2 28.45 8.22 26.34 96.5 6.4 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 2.3 Bottom 3 1 28.45 8.21 26.34 96.3 6.3 HKLR HY/2011/03 2019-09-13 Mid-Flood	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS5	6:03	1.0	Surface	1	1	28.02	8.17	26.50	83.9	5.59	2.5	1.9
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine ISS 6.04 4.3 Middle 2 2 27.72 8.14 28.06 81.7 5.4 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine ISS 6.03 7.5 Bottom 3 1 27.75 8.12 30.68 80.8 5.4 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 1.0 Surface 1 28.51 8.22 25.68 96.4 6.44 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 1.0 Surface 1 2 28.45 8.22 25.68 96.4 6.44 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 2.3 Bottom 3 1 28.15 8.20 27.38 95.1 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine<	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS5	6:04	1.0	Surface	1	2	28.41	8.20	26.83	87.0	5.82	2.5	2.1
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine ISS 6.03 7.5 Bottom 3 1 27.50 8.12 30.64 79.3 5.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine ISS 6.03 7.5 Bottom 3 2 27.45 8.12 30.64 79.3 5.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 1.0 Surface 1 2 28.45 8.22 25.68 96.4 6.44 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 2.3 Bottom 3 1 28.45 8.20 27.38 95.1 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 2.3 Bottom 3 1 28.40 8.21 26.70 96.0 6.4 HKLR HY/2011/03 2019-09-13 Mid-Flood <td>KLR</td> <td>HY/2011/03</td> <td>2019-09-13</td> <td>Mid-Flood</td> <td>Fine</td> <td>IS5</td> <td>6:03</td> <td>4.3</td> <td>Middle</td> <td>2</td> <td>1</td> <td>27.60</td> <td>8.13</td> <td>29.03</td> <td>82.4</td> <td>5.57</td> <td>2.9</td> <td>2.1</td>	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS5	6:03	4.3	Middle	2	1	27.60	8.13	29.03	82.4	5.57	2.9	2.1
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine ISS 6:03 7.5 Bottom 3 2 27.45 8.12 30.68 80.8 5.4. HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 1.0 Surface 1 1 28.51 8.22 25.68 96.4 6.44 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 2.3 Bottom 3 1 28.15 8.20 27.38 95.5 6.4 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 2.3 Bottom 3 2 28.33 8.21 26.70 96.0 6.4 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(T 5:45 1.0 Surface 1 1 28.42 8.21 26.31 94.3 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood <td>KLR</td> <td>HY/2011/03</td> <td>2019-09-13</td> <td>Mid-Flood</td> <td>Fine</td> <td>IS5</td> <td>6:04</td> <td>4.3</td> <td>Middle</td> <td>2</td> <td>2</td> <td>27.72</td> <td>8.14</td> <td>28.06</td> <td>81.7</td> <td>5.44</td> <td>2.8</td> <td>3.1</td>	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS5	6:04	4.3	Middle	2	2	27.72	8.14	28.06	81.7	5.44	2.8	3.1
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 1.0 Surface 1 1 28.51 8.22 25.68 96.4 6.44 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 1.0 Surface 1 2 28.45 8.22 25.34 96.5 6.4 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 2.3 Bottom 3 1 28.15 8.20 27.38 95.1 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 2.3 Bottom 3 1 28.40 8.21 26.34 94.9 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 1.0 Surface 1 2 28.42 8.21 26.31 94.3 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flo	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS5	6:03	7.5	Bottom	3	1	27.50	8.12	30.64	79.3	5.33	3.1	3.2
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 1.0 Surface 1 2 28.45 8.22 26.34 96.5 6.4 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 2.3 Bottom 3 1 28.15 8.20 27.38 95.1 6.3 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 2.3 Bottom 3 2 28.33 8.21 26.70 96.0 6.4 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 1.0 Surface 1 2 28.42 8.21 26.32 94.3 6.3 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 2.1 Bottom 3 1 28.42 8.21 26.23 94.3 6.3 HKLR HY/2011/03 2019-09-13 Mid-Flood	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS5	6:03	7.5	Bottom	3	2	27.45	8.12	30.68	80.8	5.42	3.2	2.7
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 2.3 Bottom 3 1 28.15 8.20 27.38 95.1 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 2.3 Bottom 3 2 28.33 8.21 26.70 96.0 6.4 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 1.0 Surface 1 1 28.40 8.21 26.34 94.9 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 1.0 Surface 1 2 28.42 8.20 26.81 94.3 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 2.1 Bottom 3 2 28.08 8.19 27.60 93.9 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS(Mf)6	5:52	1.0	Surface	1	1	28.51	8.22	25.68	96.4	6.49	2.1	3.1
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)6 5:52 2.3 Bottom 3 2 28.33 8.21 26.70 96.0 6.4 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 1.0 Surface 1 1 28.40 8.21 26.34 94.9 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 1.0 Surface 1 2 28.42 8.21 26.32 94.3 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 2.1 Bottom 3 1 28.33 8.20 26.81 94.3 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 2.1 Bottom 3 2 28.08 8.12 26.20 94.4 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS(Mf)6	5:52	1.0	Surface	1	2	28.45	8.22	26.34	96.5	6.47	2.1	2.9
HKLRHY/2011/032019-09-13Mid-FloodFineIS75:451.0Surface1128.408.2126.3494.96.33HKLRHY/2011/032019-09-13Mid-FloodFineIS75:451.0Surface1228.428.2126.3294.36.33HKLRHY/2011/032019-09-13Mid-FloodFineIS75:452.1Bottom3128.338.2026.8194.36.33HKLRHY/2011/032019-09-13Mid-FloodFineIS75:452.1Bottom3228.088.1927.6093.96.33HKLRHY/2011/032019-09-13Mid-FloodFineIS8(N)5:161.0Surface1128.488.2126.2094.46.33HKLRHY/2011/032019-09-13Mid-FloodFineIS8(N)5:161.0Surface1228.118.1926.4791.26.13HKLRHY/2011/032019-09-13Mid-FloodFineIS8(N)5:152.8Bottom3128.068.1727.8690.96.00HKLRHY/2011/032019-09-13Mid-FloodFineIS8(N)5:162.8Bottom3228.148.1827.5791.96.11HKLRHY/2011/032019-09-13Mid-FloodFineIS8(N)5:162.8Bottom3228.148.1	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS(Mf)6	5:52	2.3	Bottom	3	1	28.15	8.20	27.38	95.1	6.38	2.1	3.1
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 1.0 Surface 1 2 28.42 8.21 26.32 94.3 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 2.1 Bottom 3 1 28.33 8.20 26.81 94.3 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 2.1 Bottom 3 2 28.08 8.19 27.60 93.9 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 1.0 Surface 1 1 28.48 8.21 26.20 94.4 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 1.0 Surface 1 2 28.31 8.19 26.47 91.2 6.11 HKLR HY/2011/03 2019-09-13 Mid-Flood	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS(Mf)6	5:52	2.3	Bottom	3	2	28.33	8.21	26.70	96.0	6.44	2.2	2.1
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 157 5:45 2.1 Bottom 3 1 28.33 8.20 26.81 94.3 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 157 5:45 2.1 Bottom 3 2 28.08 8.19 27.60 93.9 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 158(N) 5:16 1.0 Surface 1 1 28.48 8.21 26.20 94.4 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 158(N) 5:16 1.0 Surface 1 2 28.31 8.19 26.47 91.2 6.1 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine 158(N) 5:15 2.8 Bottom 3 1 28.06 8.17 27.86 90.9 6.00 HKLR HY/2011/03 2019-09-13 Mid-Flood	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS7	5:45	1.0	Surface	1	1	28.40	8.21	26.34	94.9	6.37	1.7	2.5
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS7 5:45 2.1 Bottom 3 2 28.08 8.19 27.60 93.9 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 1.0 Surface 1 1 28.48 8.21 26.20 94.4 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 1.0 Surface 1 2 28.31 8.19 26.47 91.2 6.1 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:15 2.8 Bottom 3 1 28.06 8.17 27.86 90.9 6.0 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 2.8 Bottom 3 2 28.14 8.18 27.57 91.9 6.1 HKLR HY/2011/03 2019-09-13 Mid-Flood	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS7	5:45	1.0	Surface	1	2	28.42	8.21	26.32	94.3	6.33	1.8	2.3
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 1.0 Surface 1 1 28.48 8.21 26.20 94.4 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 1.0 Surface 1 2 28.31 8.19 26.47 91.2 6.13 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:15 2.8 Bottom 3 1 28.06 8.17 27.86 90.9 6.01 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 2.8 Bottom 3 1 28.06 8.17 27.86 90.9 6.01 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 2.8 Bottom 3 2 28.14 8.18 27.57 91.9 6.11 HKLR HY/2011/03 2019-09-13 Mid-Floo	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS7	5:45	2.1	Bottom	3	1	28.33	8.20	26.81	94.3	6.33	1.7	3.3
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 1.0 Surface 1 1 28.48 8.21 26.20 94.4 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 1.0 Surface 1 2 28.31 8.19 26.47 91.2 6.13 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:15 2.8 Bottom 3 1 28.06 8.17 27.86 90.9 6.01 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 2.8 Bottom 3 1 28.06 8.17 27.86 90.9 6.01 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 2.8 Bottom 3 2 28.14 8.18 27.57 91.9 6.11 HKLR HY/2011/03 2019-09-13 Mid-Floo	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS7	5:45	2.1	Bottom	3	2	28.08	8.19	27.60	93.9	6.30	1.8	3.4
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 1.0 Surface 1 2 28.31 8.19 26.47 91.2 6.11 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:15 2.8 Bottom 3 1 28.06 8.17 27.86 90.9 6.01 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 2.8 Bottom 3 1 28.06 8.17 27.86 90.9 6.01 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 2.8 Bottom 3 2 28.14 8.18 27.57 91.9 6.11 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 1.0 Surface 1 2 28.21 8.20 26.02 94.6 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flo					Fine				Surface		1				94.4	6.34	2.0	5.8
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 2.8 Bottom 3 2 28.14 8.18 27.57 91.9 6.11 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:38 1.0 Surface 1 1 28.44 8.21 25.66 94.4 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 1.0 Surface 1 2 28.21 8.20 26.02 94.6 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 1 28.18 8.19 27.49 95.0 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 1 28.18 8.19 27.49 96.0 6.33 HKLR HY/2011/03 2019-09-13 Mid-			2019-09-13	Mid-Flood						1	2		8.19		91.2	6.13	2.1	4.7
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS8(N) 5:16 2.8 Bottom 3 2 28.14 8.18 27.57 91.9 6.11 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:38 1.0 Surface 1 1 28.44 8.21 25.66 94.4 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 1.0 Surface 1 2 28.21 8.20 26.02 94.6 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 1 28.18 8.19 27.49 95.0 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 1 28.18 8.19 27.49 96.0 6.33 HKLR HY/2011/03 2019-09-13 Mid-							5:15	2.8			1	28.06	8.17	27.86	90.9	6.09	2.1	2.9
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 1.0 Surface 1 2 28.21 8.20 26.02 94.6 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 1 28.18 8.19 27.49 95.0 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 1 28.18 8.19 27.49 95.0 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 2 28.28 8.19 27.44 94.0 6.23 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS10(N) 5:42 1.0 Surface 1 1 29.32 7.92 25.46 83.5 5.55	KLR	HY/2011/03		Mid-Flood	Fine		5:16	2.8	Bottom		2	28.14	8.18	27.57	91.9	6.16	2.2	3.2
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 1 28.18 8.19 27.49 95.0 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 1 28.18 8.19 27.49 95.0 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 2 28.28 8.19 27.44 94.0 6.24 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS10(N) 5:42 1.0 Surface 1 1 29.32 7.92 25.46 83.5 5.55						. ,										6.36	2.0	3.3
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 1 28.18 8.19 27.49 95.0 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 1 28.18 8.19 27.49 95.0 6.33 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 2 28.28 8.19 27.44 94.0 6.24 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS10(N) 5:42 1.0 Surface 1 1 29.32 7.92 25.46 83.5 5.55	KLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	IS(Mf)9	5:37	1.0	Surface	1	2	28.21	8.20	26.02	94.6	6.38	2.1	4.2
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS(Mf)9 5:37 2.8 Bottom 3 2 28.28 8.19 27.44 94.0 6.22 HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS10(N) 5:42 1.0 Surface 1 1 29.32 7.92 25.46 83.5 5.55															95.0	6.36	2.6	5.0
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS10(N) 5:42 1.0 Surface 1 1 29.32 7.92 25.46 83.5 5.55										3	2		8.19		94.0	6.29	2.6	5.3
				Mid-Flood	Fine		5:42	1.0	Surface	1	1	29.32	7.92	25.46	83.5	5.55	11.4	4.2
HKLR HY/2011/03 2019-09-13 Mid-Flood Fine IS10(N) 5:43 1.0 Surface 1 2 29.25 7.91 25.52 83.6 5.50		HY/2011/03	2019-09-13	Mid-Flood	Fine	IS10(N)	5:43	1.0	Surface	1	2	29.25	7.91	25.52	83.6	5.56	11.1	4.1
																5.47	11.8	4.6
						. ,					2					5.43	12.0	4.2
						. ,										5.57	12.5	3.9
						. ,										5.57	12.2	3.2
										-			-			6.71	1.8	1.4
						. ,										6.31	1.8	2.2

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR3(N)	6:14	2.4	Bottom	3	1	28.41	8.21	26.16	93.3	6.27	1.8	2.2
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR3(N)	6:14	2.4	Bottom	3	2	28.34	8.20	27.18	94.2	6.30	1.7	1.6
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR4(N2)	5:27	1.0	Surface	1	1	28.32	8.20	25.92	94.6	6.37	2.6	3.9
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR4(N2)	5:27	1.0	Surface	1	2	28.42	8.21	25.72	94.6	6.38	2.7	4.4
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR4(N2)	5:26	2.8	Bottom	3	1	28.13	8.19	27.54	93.9	6.29	2.5	4.0
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR4(N2)	5:27	2.8	Bottom	3	2	28.33	8.19	27.60	94.4	6.30	2.5	3.0
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR5(N)	5:52	1.0	Surface	1	1	29.23	7.91	25.60	83.4	5.55	9.5	1.5
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR5(N)	5:52	1.0	Surface	1	2	29.24	7.91	25.56	83.1	5.53	10.0	2.3
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR5(N)	5:52	4.1	Middle	2	1	29.17	7.91	25.97	82.2	5.46	10.5	1.9
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR5(N)	5:52	4.1	Middle	2	2	29.18	7.91	25.89	82.0	5.45	10.3	1.7
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR5(N)	5:52	7.1	Bottom	3	1	29.12	7.90	26.39	81.9	5.43	12.2	1.2
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR5(N)	5:52	7.1	Bottom	3	2	29.13	7.90	26.33	82.4	5.47	11.7	1.9
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR10A(N)	4:55	1.0	Surface	1	1	29.23	7.92	25.57	83.0	5.52	3.1	2.0
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR10A(N)	4:54	1.0	Surface	1	2	29.22	7.92	25.64	83.2	5.54	3.4	2.5
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR10A(N)	4:54	6.2	Middle	2	1	29.11	7.90	26.42	83.0	5.51	3.2	3.2
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR10A(N)	4:54	6.2	Middle	2	2	29.11	7.90	26.41	81.7	5.42	3.3	3.5
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR10A(N)	4:54	11.3	Bottom	3	1	29.13	7.90	26.34	85.1	5.64	4.6	2.5
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR10A(N)	4:54	11.3	Bottom	3	2	29.13	7.90	26.34	82.9	5.50	4.5	2.1
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR10B(N2)	4:46	1.0	Surface	1	1	29.25	7.92	25.48	97.2	6.45	3.9	3.6
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR10B(N2)	4:46	1.0	Surface	1	2	29.25	7.92	25.52	93.0	6.18	4.1	3.5
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR10B(N2)	4:46	3.3	Middle	2	1	29.20	7.92	25.84	89.1	5.91	3.9	2.9
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR10B(N2)	4:46	3.3	Middle	2	2	29.22	7.92	25.75	91.4	6.08	4.4	3.3
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR10B(N2)	4:46	5.6	Bottom	3	1	29.19	7.91	26.24	87.1	5.79	5.6	3.0
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	SR10B(N2)	4:46	5.6	Bottom	3	2	29.18	7.91	26.36	87.5	5.81	5.2	3.1
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	CS2(A)	6:40	1.0	Surface	1	1	29.24	7.91	25.56	83.6	5.56	8.8	3.0
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	CS2(A)	6:39	1.0	Surface	1	2	29.23	7.91	25.59	83.4	5.55	9.0	3.9
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	CS2(A)	6:39	3.1	Middle	2	1	29.19	7.91	25.88	83.0	5.52	10.6	2.7
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	CS2(A)	6:40	3.1	Middle	2	2	29.20	7.91	25.81	83.3	5.53	10.0	2.6
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	CS2(A)	6:39	5.2	Bottom	3	1	29.14	7.90	26.22	83.0	5.51	10.6	2.8
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	CS2(A)	6:39	5.2	Bottom	3	2	29.17	7.90	26.14	83.2	5.52	9.7	2.2
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	CS(Mf)5	4:48	1.0	Surface	1	1	28.48	8.18	25.61	84.3	5.68	2.3	2.2
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	CS(Mf)5	4:49	1.0	Surface	1	2	28.43	8.19	26.20	86.1	5.78	2.3	3.2
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	CS(Mf)5	4:49	5.9	Middle	2	1	27.78	8.13	29.32	85.0	5.64	3.2	2.9
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	CS(Mf)5	4:48	5.9	Middle	2	2	27.70	8.10	29.72	78.1	5.20	3.2	2.1
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	CS(Mf)5	4:49	10.7	Bottom	3	1	27.74	8.12	30.72	82.2	5.49	3.4	2.7
HKLR	HY/2011/03	2019-09-13	Mid-Flood	Fine	CS(Mf)5	4:48	10.7	Bottom	3	2	27.38	8.07	30.88	77.6	5.17	3.3	3.0
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS5	12:39	1.0	Surface	1	1	28.89	8.04	25.70	79.5	5.32	8.4	7.8
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS5	12:40	1.0	Surface	1	2	28.96	8.03	25.69	76.9	5.15	8.6	8.7
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS5	12:39	4.2	Middle	2	1	28.74	8.05	25.88	76.0	5.08	9.8	10.0
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS5	12:40	4.2	Middle	2	2	28.73	8.03	25.89	75.4	5.05	9.5	9.0
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS5	12:39	7.4	Bottom	3	1	28.62	8.06	26.16	74.4	4.98	9.8	10.4
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS5	12:40	7.4	Bottom	3	2	28.69	8.03	26.05	73.9	4.95	9.7	11.3
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS(Mf)6	12:59	1.0	Surface	1	1	29.09	8.04	25.41	75.1	5.01	6.7	9.8
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS(Mf)6	12:59	1.0	Surface	1	2	29.12	8.05	25.41	77.1	5.14	6.6	10.9
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS(Mf)6	12:58	2.2	Bottom	3	1	28.82	8.06	25.65	79.3	5.31	6.6	8.9
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS(Mf)6	12:59	2.2	Bottom	3	2	28.98	8.04	25.52	75.8	5.06	6.5	8.4
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS7	13:07	1.0	Surface	1	1	28.83	8.04	25.38	86.7	5.83	4.8	6.7
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS7	13:07	1.0	Surface	1	2	28.85	8.05	25.34	80.6	5.40	4.8	7.2
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS7	13:06	2.1	Bottom	3	1	28.69	8.06	25.38	80.2	5.38	6.5	7.6
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS7	13:07	2.1	Bottom	3	2	28.81	8.04	25.32	78.3	5.25	6.2	8.0
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS8(N)	13:33	1.0	Surface	1	1	28.82	8.03	25.45	76.4	5.12	10.7	17.1
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS8(N)	13:33	1.0	Surface	1	2	28.84	8.03	25.43	75.2	5.04	11.1	18.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	I SS, mg/L
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS8(N)	13:33	2.8	Bottom	3	1	28.77	8.03	25.51	74.3	4.98	10.8	17.8
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS8(N)	13:33	2.8	Bottom	3	2	28.67	8.03	25.64	75.1	5.04	11.1	16.4
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS(Mf)9	13:14	1.0	Surface	1	1	29.43	8.04	25.30	82.1	5.45	5.0	7.7
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS(Mf)9	13:14	1.0	Surface	1	2	29.15	8.03	25.37	84.8	5.69	5.2	8.3
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS(Mf)9	13:14	2.6	Bottom	3	1	28.76	8.05	25.38	80.5	5.39	5.5	7.8
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS(Mf)9	13:14	2.6	Bottom	3	2	28.95	8.03	25.32	79.5	5.30	5.5	8.7
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS10(N)	13:29	1.0	Surface	1	1	29.84	7.72	22.74	74.9	5.23	11.3	8.1
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS10(N)	13:29	1.0	Surface	1	2	29.95	7.72	22.70	76.8	5.36	11.5	7.4
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS10(N)	13:29	5.1	Middle	2	1	29.46	7.70	25.29	75.2	5.24	12.4	7.1
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS10(N)	13:29	5.1	Middle	2	2	29.44	7.70	25.34	73.7	5.13	12.1	8.0
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS10(N)	13:29	9.1	Bottom	3	1	29.55	7.70	25.32	75.8	5.27	12.3	8.1
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	IS10(N)	13:28	9.1	Bottom	3	2	29.39	7.70	25.58	74.3	5.17	12.5	8.2
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR3(N)	12:32	1.0	Surface	1	1	28.89	8.12	25.45	88.2	5.91	9.3	10.1
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR3(N)	12:31	1.0	Surface	1	2	28.83	8.17	25.46	81.0	5.43	9.8	11.4
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR3(N)	12:31	2.4	Bottom	3	1	28.73	8.17	25.68	78.1	5.23	10.9	7.8
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR3(N)	12:31	2.4	Bottom	3	2	28.74	8.13	25.65	76.8	5.14	10.6	8.8
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR4(N2)	13:27	1.0	Surface	1	1	28.75	8.04	25.05	80.7	5.43	5.2	4.9
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR4(N2)	13:27	1.0	Surface	1	2	28.69	8.03	25.15	84.6	5.69	5.4	3.9
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR4(N2)	13:27	2.6	Bottom	3	1	28.69	8.03	25.23	77.8	5.24	5.6	5.5
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR4(N2)	13:27	2.6	Bottom	3	2	28.65	8.05	25.31	79.4	5.34	5.5	4.8
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR5(N)	13:18	1.0	Surface	1	1	29.89	7.73	22.58	76.7	5.36	9.8	4.9
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR5(N)	13:18	1.0	Surface	1	2	29.75	7.72	23.00	78.4	5.49	9.9	4.6
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR5(N)	13:18	3.9	Middle	2	1	29.46	7.71	25.09	75.5	5.27	10.8	4.7
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR5(N)	13:17	3.9	Middle	2	2	29.47	7.71	25.03	76.2	5.32	10.6	4.8
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR5(N)	13:17	6.8	Bottom	3	1	29.39	7.71	25.82	76.5	5.32	11.9	5.6
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR5(N)	13:18	6.8	Bottom	3	2	29.48	7.70	25.62	76.3	5.30	11.3	6.1
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR10A(N)	14:12	1.0	Surface	1	1	29.88	7.80	25.62	80.3	5.56	5.0	6.5
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR10A(N)	14:13	1.0	Surface	1	2	29.52	7.77	26.41	83.7	5.78	5.2	5.6
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR10A(N)	14:12	6.1	Middle	2	1	28.93	7.80	28.00	78.8	5.51	5.8	5.1
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR10A(N)	14:12	6.1	Middle	2	2	29.26	7.82	27.22	77.8	5.41	5.6	4.1
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR10A(N)	14:12	11.1	Bottom	3	1	28.92	7.88	28.29	77.0	5.33	5.7	4.3
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR10A(N)	14:12	11.1	Bottom	3	2	29.25	7.87	27.39	74.9	5.19	5.8	3.7
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR10B(N2)	14:22	1.0	Surface	1	1	29.71	7.77	26.00	75.4	5.22	5.3	3.4
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR10B(N2)	14:21	1.0	Surface	1	2	29.54	7.77	26.11	74.9	5.19	5.5	2.8
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR10B(N2)	14:21	3.3	Middle	2	1	29.40	7.76	26.37	74.6	5.17	7.7	3.8
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR10B(N2)	14:21	3.3	Middle	2	2	29.27	7.76	27.12	74.5	5.16	7.3	3.4
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR10B(N2)	14:21	5.5	Bottom	3	1	29.29	7.75	27.40	75.2	5.21	8.5	4.1
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	SR10B(N2)	14:21	5.5	Bottom	3	2	29.23	7.76	27.28	74.7	5.17	8.3	3.5
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	CS2(A)	12:36	1.0	Surface	1	1	29.90	7.74	22.53	83.5	5.93	10.7	7.9
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	CS2(A)	12:35	1.0	Surface	1	2	30.07	7.76	22.39	85.7	6.08	10.7	7.0
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	CS2(A)	12:35	3.0	Middle	2	1	29.56	7.76	23.79	84.2	5.97	11.6	6.0
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	CS2(A)	12:36	3.0	Middle	2	2	29.65	7.73	23.75	81.9	5.80	11.9	5.3
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	CS2(A)	12:35	4.9	Bottom	3	1	29.46	7.78	25.28	85.8	6.06	12.7	4.8
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	CS2(A)	12:36	4.9	Bottom	3	2	29.78	7.73	25.08	82.5	5.81	12.2	5.2
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	CS(Mf)5	13:55	1.0	Surface	1	1	28.89	8.04	25.69	76.0	5.09	3.7	5.4
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	CS(Mf)5	13:55	1.0	Surface	1	2	28.78	8.05	26.19	76.1	5.11	3.6	6.2
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	CS(Mf)5	13:54	5.8	Middle	2	1	28.08	8.04	28.03	75.3	5.05	4.9	6.1
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	CS(Mf)5	13:55	5.8	Middle	2	2	28.12	8.02	27.95	74.9	5.02	5.2	7.1
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	CS(Mf)5	13:55	10.6	Bottom	3	1	28.24	8.02	28.03	73.0	4.87	4.8	8.0
HKLR	HY/2011/03	2019-09-16	Mid-Ebb	Fine	CS(Mf)5	13:54	10.6	Bottom	3	2	28.04	8.06	28.18	74.0	4.95	4.8	7.7
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS5	8:38	1.0	Surface	1	1	28.64	8.05	25.23	81.9	5.51	5.8	8.4
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS5	8:37	1.0	Surface	1	2	28.64	8.05	25.24	85.7	5.76	6.0	8.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS5	8:37	4.4	Middle	2	1	28.69	8.05	25.33	78.3	5.27	6.9	8.1
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS5	8:37	4.4	Middle	2	2	28.68	8.05	25.32	74.6	5.02	6.8	7.7
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS5	8:37	7.7	Bottom	3	1	28.69	8.05	25.40	74.8	5.02	7.5	8.0
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS5	8:37	7.7	Bottom	3	2	28.70	8.05	25.41	74.5	5.01	7.4	8.2
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS(Mf)6	8:30	1.0	Surface	1	1	28.57	8.04	25.43	84.5	5.70	6.8	6.2
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS(Mf)6	8:30	1.0	Surface	1	2	28.59	8.04	25.37	79.0	5.32	6.8	6.1
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS(Mf)6	8:30	2.1	Bottom	3	1	28.55	8.04	25.44	77.0	5.18	7.4	6.9
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS(Mf)6	8:29	2.1	Bottom	3	2	28.50	8.05	25.49	77.6	5.22	7.5	6.6
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS7	8:22	1.0	Surface	1	1	28.49	8.05	25.46	82.9	5.59	9.1	11.1
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS7	8:22	1.0	Surface	1	2	28.48	8.04	25.46	88.0	5.93	9.2	12.0
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS7	8:22	2.2	Bottom	3	1	28.47	8.06	25.47	80.6	5.43	9.5	14.6
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS7	8:22	2.2	Bottom	3	2	28.48	8.04	25.47	79.0	5.33	9.5	15.6
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS8(N)	7:55	1.0	Surface	1	1	28.56	8.05	24.76	91.2	6.17	5.0	9.0
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS8(N)	7:55	1.0	Surface	1	2	28.54	8.06	24.76	86.6	5.85	4.9	10.0
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS8(N)	7:55	3.0	Bottom	3	1	28.55	8.05	24.76	80.4	5.44	5.1	9.8
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS8(N)	7:55	3.0	Bottom	3	2	28.52	8.07	24.75	82.8	5.59	5.0	10.6
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS(Mf)9	8:15	1.0	Surface	1	1	28.54	8.06	25.20	95.8	6.46	7.9	21.0
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS(Mf)9	8:15	1.0	Surface	1	2	28.55	8.05	25.21	88.9	5.99	8.1	18.8
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS(Mf)9	8:15	2.8	Bottom	3	1	28.54	8.06	25.25	82.9	5.59	8.2	15.8
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS(Mf)9	8:15	2.8	Bottom	3	2	28.48	8.08	25.28	85.3	5.75	8.4	14.0
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS10(N)	7:48	1.0	Surface	1	1	29.55	7.81	24.49	74.9	5.22	10.3	16.0
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS10(N)	7:49	1.0	Surface	1	2	29.53	7.81	24.59	75.7	5.29	10.2	15.0
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS10(N)	7:48	5.1	Middle	2	1	29.36	7.80	25.66	74.2	5.17	12.0	24.0
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS10(N)	7:48	5.1	Middle	2	2	29.31	7.80	25.83	73.8	5.15	12.2	23.5
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS10(N)	7:48	9.2	Bottom	3	1	29.32	7.80	26.07	75.3	5.26	12.3	16.4
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	IS10(N)	7:47	9.2	Bottom	3	2	29.28	7.80	26.05	73.4	5.11	11.7	16.8
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR3(N)	8:46	1.0	Surface	1	1	28.69	8.05	25.33	88.1	5.92	8.0	9.8
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR3(N)	8:46	1.0	Surface	1	2	28.68	8.05	25.33	83.2	5.59	7.9	10.9
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR3(N)	8:46	2.4	Bottom	3	1	28.68	8.06	25.34	80.6	5.42	8.8	8.4
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR3(N)	8:46	2.4	Bottom	3	2	28.68	8.05	25.34	79.2	5.32	8.7	7.6
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR4(N2)	8:04	1.0	Surface	1	1	28.47	8.03	25.22	81.3	5.49	5.3	8.6
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR4(N2)	8:04	1.0	Surface	1	2	28.49	8.03	25.32	86.5	5.84	5.3	9.6
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR4(N2)	8:04	2.8	Bottom	3	1	28.48	8.03	25.26	77.5	5.22	5.6	10.0
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR4(N2)	8:03	2.8	Bottom	3	2	28.46	8.04	25.34	79.2	5.35	5.7	9.0
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR5(N)	8:01	1.0	Surface	1	1	29.55	7.81	24.57	74.2	5.18	10.2	14.8
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR5(N)	8:02	1.0	Surface	1	2	29.53	7.81	24.64	75.4	5.27	9.8	15.8
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR5(N)	8:02	3.9	Middle	2	1	29.38	7.81	25.44	72.9	5.08	14.7	16.3
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR5(N)	8:01	3.9	Middle	2	2	29.38	7.81	25.38	73.7	5.15	14.6	17.6
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR5(N)	8:02	6.7	Bottom	3	1	29.29	7.80	26.05	73.4	5.12	15.5	18.5
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR5(N)	8:01	6.7	Bottom	3	2	29.28	7.80	26.06	73.6	5.12	15.2	16.4
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR10A(N)	6:52	1.0	Surface	1	1	29.55	7.81	24.47	75.3	5.24	4.2	4.5
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR10A(N)	6:51	1.0	Surface	1	2	29.55	7.81	24.50	75.0	5.22	5.0	5.1
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR10A(N)	6:51	6.1	Middle	2	1	29.28	7.81	26.02	73.8	5.13	5.6	4.8
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR10A(N)	6:51	6.1	Middle	2	2	29.29	7.80	25.98	73.7	5.12	5.3	3.8
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR10A(N)	6:51	11.2	Bottom	3	1	29.31	7.80	26.10	74.4	5.16	5.5	3.9
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR10A(N)	6:51	11.2	Bottom	3	2	29.28	7.81	26.08	74.4	5.17	5.7	4.4
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR10B(N2)	6:40	1.0	Surface	1	1	29.56	7.83	24.26	81.4	5.65	4.2	5.3
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR10B(N2)	6:40	1.0	Surface	1	2	29.55	7.82	24.43	85.1	5.88	3.8	4.8
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR10B(N2)	6:40	3.3	Middle	2	1	29.40	7.82	25.33	77.0	5.36	4.1	5.1
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR10B(N2)	6:39	3.3	Middle	2	2	29.42	7.84	25.07	79.1	5.49	4.5	4.8
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR10B(N2)	6:39	5.6	Bottom	3	1	29.32	7.84	26.00	76.4	5.30	6.6	7.5
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	SR10B(N2)	6:40	5.6	Bottom	3	2	29.32	7.82	25.95	75.7	5.26	6.2	7.5
TINLK	111/2011/03	2013-03-10	wiiu-Flood	Cioudy	SUTOR(INS)	0.40	0.0	BULLOITI	3	۷.	23.32	1.82	23.95	13.1	5.20	0.2	7.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	CS2(A)	9:13	1.0	Surface	1	1	29.51	7.81	24.72	75.7	5.29	9.9	15.2
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	CS2(A)	9:14	1.0	Surface	1	2	29.48	7.81	24.83	75.5	5.28	10.5	15.0
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	CS2(A)	9:13	3.1	Middle	2	1	29.46	7.80	25.07	75.1	5.25	11.0	14.8
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	CS2(A)	9:14	3.1	Middle	2	2	29.46	7.80	25.09	75.3	5.27	11.8	13.2
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	CS2(A)	9:13	5.1	Bottom	3	1	29.44	7.80	25.22	75.3	5.27	11.1	11.6
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	CS2(A)	9:13	5.1	Bottom	3	2	29.44	7.80	25.23	75.3	5.27	11.7	11.2
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	CS(Mf)5	7:33	1.0	Surface	1	1	28.33	8.02	26.01	75.5	5.10	5.7	4.4
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	CS(Mf)5	7:32	1.0	Surface	1	2	28.31	8.00	26.04	75.9	5.12	5.5	4.9
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	CS(Mf)5	7:32	6.0	Middle	2	1	27.82	7.96	28.91	74.9	5.05	5.5	4.7
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	CS(Mf)5	7:33	6.0	Middle	2	2	27.82	8.00	28.90	75.1	5.06	5.8	5.0
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	CS(Mf)5	7:32	11.0	Bottom	3	1	27.67	7.91	29.75	71.6	4.79	5.8	4.8
HKLR	HY/2011/03	2019-09-16	Mid-Flood	Cloudy	CS(Mf)5	7:32	11.0	Bottom	3	2	27.76	7.98	29.65	71.9	4.82	5.9	4.8
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS5	13:46	1.0	Surface	1	1	28.74	8.03	24.81	80.4	5.42	8.3	12.6
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS5	13:47	1.0	Surface	1	2	28.73	8.01	24.81	77.1	5.20	8.2	12.1
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS5	13:46	4.2	Middle	2	1	28.66	8.01	24.84	74.2	5.01	9.0	10.1
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS5	13:46	4.2	Middle	2	2	28.66	8.05	24.84	75.9	5.11	8.6	10.4
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS5	13:46	7.4	Bottom	3	1	28.65	8.02	24.85	73.2	4.93	8.5	11.4
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS5	13:46	7.4	Bottom	3	2	28.62	8.06	24.86	72.9	4.92	8.5	10.9
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS(Mf)6	13:54	1.0	Surface	1	1	28.65	7.99	24.77	79.1	5.34	12.0	12.6
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS(Mf)6	13:54	1.0	Surface	1	2	28.66	7.98	24.77	74.6	5.03	11.0	10.9
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS(Mf)6	13:54	2.1	Bottom	3	1	28.60	8.00	24.78	73.4	4.95	12.3	10.2
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS(Mf)6	13:54	2.1	Bottom	3	2	28.64	7.99	24.77	71.9	4.85	11.9	10.4
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS7	14:00	1.0	Surface	1	1	28.98	8.00	25.39	81.7	5.47	5.3	5.8
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS7	14:00	1.0	Surface	1	2	29.11	8.00	25.33	86.6	5.79	5.2	5.1
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS7	14:00	2.0	Bottom	3	1	28.95	8.00	25.40	78.4	5.23	5.5	6.2
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS7	14:00	2.0	Bottom	3	2	28.98	8.00	25.38	79.8	5.34	5.5	5.2
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS8(N)	14:27	1.0	Surface	1	1	29.05	8.05	25.22	82.5	5.52	7.7	11.6
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS8(N)	14:27	1.0	Surface	1	2	29.01	8.06	25.23	79.5	5.32	7.5	11.7
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS8(N)	14:27	2.7	Bottom	3	1	28.97	8.06	25.23	76.5	5.12	7.7	12.0
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS8(N)	14:26	2.7	Bottom	3	2	28.97	8.07	25.21	74.2	4.96	7.8	13.3
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS(Mf)9	14:08	1.0	Surface	1	1	28.66	8.00	25.07	77.9	5.25	6.2	11.4
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS(Mf)9	14:08	1.0	Surface	1	2	28.66	8.00	25.15	74.7	5.03	5.8	10.9
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS(Mf)9	14:08	2.5	Bottom	3	1	28.67	8.00	25.14	75.4	5.08	6.0	9.4
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS(Mf)9	14:08	2.5	Bottom	3	2	28.64	8.02	25.21	81.3	5.47	6.5	9.6
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS10(N)	14:33	1.0	Surface	1	1	29.71	7.70	24.15	80.6	5.70	8.3	14.3
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS10(N)	14:34	1.0	Surface	1	2	29.90	7.70	23.16	81.0	5.74	7.5	13.2
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS10(N)	14:33	5.2	Middle	2	1	29.59	7.69	24.66	79.6	5.63	7.8	13.2
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS10(N)	14:33	5.2	Middle	2	2	29.57	7.69	24.73	79.8	5.64	7.7	14.6
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS10(N)	14:32	9.4	Bottom	3	1	29.38	7.69	25.72	79.4	5.60	8.0	12.7
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	IS10(N)	14:33	9.4	Bottom	3	2	29.38	7.68	25.75	79.2	5.59	7.9	13.8
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR3(N)	13:38	1.0	Surface	1	1	28.99	8.18	24.64	75.6	5.10	7.0	9.6
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR3(N)	13:39	1.0	Surface	1	2	28.90	8.12	24.65	74.9	5.05	6.9	10.4
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR3(N)	13:38	2.5	Bottom	3	1	28.68	8.28	24.69	73.4	4.93	7.3	8.8
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR3(N)	13:38	2.5	Bottom	3	2	28.95	8.16	24.62	72.9	4.90	7.3	8.2
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR4(N2)	14:20	1.0	Surface	1	1	29.06	8.06	23.06	81.6	5.52	5.8	14.9
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR4(N2)	14:20	1.0	Surface	1	2	28.89	8.02	24.72	87.0	5.85	5.8	15.3
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR4(N2)	14:20	2.5	Bottom	3	1	28.99	8.04	24.94	76.7	5.15	6.1	9.1
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR4(N2)	14:20	2.5	Bottom	3	2	28.69	8.06	25.09	80.1	5.37	6.2	8.2
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR5(N)	14:23	1.0	Surface	1	1	30.02	7.70	23.24	83.8	5.91	7.2	14.4
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR5(N)	14:24	1.0	Surface	1	2	29.96	7.70	23.45	83.7	5.90	8.4	12.7
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR5(N)	14:23	3.9	Middle	2	1	29.55	7.69	24.90	83.1	5.85	7.4	12.2
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR5(N)	14:23	3.9	Middle	2	2	29.54	7.69	25.04	83.3	5.85	7.5	12.6

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR5(N)	14:23	6.8	Bottom	3	1	29.58	7.68	25.48	81.8	5.77	7.9	13.5
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR5(N)	14:23	6.8	Bottom	3	2	29.38	7.68	25.72	81.2	5.73	7.9	14.4
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR10A(N)	15:15	1.0	Surface	1	1	29.33	7.75	27.14	76.9	5.41	2.6	6.1
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR10A(N)	15:15	1.0	Surface	1	2	29.20	7.74	27.39	77.2	5.43	2.5	6.2
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR10A(N)	15:14	6.7	Middle	2	1	29.12	7.75	27.67	76.6	5.38	2.8	6.0
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR10A(N)	15:15	6.7	Middle	2	2	29.11	7.74	27.72	76.6	5.38	2.7	5.5
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR10A(N)	15:14	12.4	Bottom	3	1	28.92	7.75	28.28	76.3	5.37	2.8	5.3
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR10A(N)	15:15	12.4	Bottom	3	2	29.11	7.74	27.86	76.4	5.37	2.9	4.8
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR10B(N2)	15:24	1.0	Surface	1	1	29.22	7.74	26.59	75.7	5.34	2.2	5.5
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR10B(N2)	15:24	1.0	Surface	1	2	29.16	7.74	27.38	75.5	5.30	2.3	5.6
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR10B(N2)	15:24	3.7	Middle	2	1	29.00	7.74	27.95	75.1	5.29	2.4	7.2
HKLR HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR10B(N2)	15:24	3.7 6.4	Middle	2	2	29.09 29.02	7.74	27.77 28.31	75.2 75.1	5.30 5.29	2.4	8.6 7.5
	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	SR10B(N2)	15:24		Bottom		2	29.02					2.6	
HKLR HKLR	HY/2011/03 HY/2011/03	2019-09-18 2019-09-18	Mid-Ebb Mid-Ebb	Sunny	SR10B(N2) CS2(A)	15:24 13:32	6.4 1.0	Bottom	3	1	28.85	7.74 7.79	28.56 23.43	74.6 79.8	5.26 5.69	2.7 4.6	8.4 4.6
HKLR	HY/2011/03 HY/2011/03	2019-09-18	Mid-Ebb Mid-Ebb	Sunny Sunny	CS2(A) CS2(A)	13:32	1.0	Surface	1	2	29.43	7.79	23.43	79.8	5.69	4.6 3.8	4.6 5.1
HKLR	HY/2011/03 HY/2011/03	2019-09-18	Mid-Ebb Mid-Ebb		CS2(A) CS2(A)	13:31	3.7	Surface Middle	2	1	29.44	7.79	23.22	79.5	5.67	3.8 4.7	4.2
HKLR	HY/2011/03 HY/2011/03	2019-09-18	Mid-Ebb	Sunny Sunny	CS2(A) CS2(A)	13:32	3.7	Middle	2	2	29.35	7.79	24.91	77.1	5.48	4.7	4.2
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	CS2(A) CS2(A)	13:31	6.4	Bottom	3	1	29.19	7.79	26.73	76.2	5.38	4.0	5.2
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	CS2(A) CS2(A)	13:31	6.4	Bottom	3	2	29.22	7.80	26.49	76.1	5.37	4.7	4.4
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	CS(Mf)5	14:50	1.0	Surface	1	1	23.22	8.03	27.00	75.5	5.08	2.3	8.0
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	CS(MI)5	14:49	1.0	Surface	1	2	28.44	8.03	27.00	77.8	5.19	2.3	7.0
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	CS(Mf)5	14:50	5.9	Middle	2	1	27.85	8.02	29.01	74.2	5.01	2.2	7.0
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	CS(Mf)5	14:49	5.9	Middle	2	2	27.84	8.04	29.01	74.8	5.05	2.2	7.2
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	CS(Mf)5	14:49	10.8	Bottom	3	1	27.99	8.02	29.07	73.5	4.89	2.5	6.9
HKLR	HY/2011/03	2019-09-18	Mid-Ebb	Sunny	CS(Mf)5	14:49	10.8	Bottom	3	2	27.82	8.04	29.42	74.1	4.95	2.4	7.3
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS5	9:18	1.0	Surface	1	1	28.35	8.01	24.89	80.3	5.43	7.4	8.2
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS5	9:18	1.0	Surface	1	2	28.35	8.00	24.87	75.3	5.09	7.2	8.0
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS5	9:17	4.3	Middle	2	1	28.36	8.01	25.23	75.0	5.07	7.4	7.5
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS5	9:18	4.3	Middle	2	2	28.36	8.00	25.21	74.1	5.02	7.5	7.9
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	ISS	9:18	7.5	Bottom	3	1	28.36	8.00	25.16	71.5	4.84	7.6	6.7
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS5	9:17	7.5	Bottom	3	2	28.35	8.01	25.50	72.4	4.90	7.5	7.7
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS(Mf)6	9:10	1.0	Surface	1	1	28.35	8.01	25.32	79.6	5.38	9.0	14.8
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS(Mf)6	9:11	1.0	Surface	1	2	28.35	8.01	25.33	84.8	5.74	9.3	14.3
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS(Mf)6	9:10	2.1	Bottom	3	1	28.36	8.03	25.27	77.7	5.25	9.1	15.1
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS(Mf)6	9:10	2.1	Bottom	3	2	28.35	8.01	25.36	75.9	5.13	9.0	15.4
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS7	9:03	1.0	Surface	1	1	28.41	8.02	25.41	77.2	5.21	9.9	8.0
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS7	9:03	1.0	Surface	1	2	28.43	8.01	25.48	81.2	5.47	9.7	8.2
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS7	9:03	2.3	Bottom	3	1	28.37	8.02	25.81	74.0	4.99	10.2	9.4
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS7	9:03	2.3	Bottom	3	2	28.40	8.01	25.64	76.1	5.13	10.3	8.4
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS8(N)	8:37	1.0	Surface	1	1	28.39	8.02	25.12	75.4	5.10	7.2	9.9
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS8(N)	8:37	1.0	Surface	1	2	28.37	8.03	25.19	79.8	5.39	7.1	10.9
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS8(N)	8:37	3.3	Bottom	3	1	28.37	8.02	25.25	77.1	5.21	7.0	9.7
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS8(N)	8:37	3.3	Bottom	3	2	28.35	8.04	25.27	82.4	5.57	7.3	10.7
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS(Mf)9	8:56	1.0	Surface	1	1	28.34	8.02	25.49	75.9	5.13	14.4	20.8
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS(Mf)9	8:56	1.0	Surface	1	2	28.33	8.02	25.50	80.0	5.41	14.3	23.4
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS(Mf)9	8:56	2.6	Bottom	3	1	28.33	8.02	25.50	74.1	5.00	14.5	22.3
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS(Mf)9	8:55	2.6	Bottom	3	2	28.32	8.03	25.50	72.3	4.88	14.5	24.6
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS10(N)	8:53	1.0	Surface	1	1	29.45	7.77	24.72	78.9	5.59	7.9	15.8
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS10(N)	8:54	1.0	Surface	1	2	29.45	7.77	24.72	78.8	5.58	8.0	16.0
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS10(N)	8:53	5.4	Middle	2	1	29.38	7.77	25.12	78.3	5.54	8.4	15.3
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS10(N)	8:54	5.4	Middle	2	2	29.41	7.77	24.93	78.1	5.53	8.2	17.1

		Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS10(N)	8:53	9.8	Bottom	3	1	29.28	7.78	25.70	78.0	5.51	9.2	18.1
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	IS10(N)	8:54	9.8	Bottom	3	2	29.29	7.76	25.75	77.8	5.50	9.3	17.0
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR3(N)	9:26	1.0	Surface	1	1	28.35	8.01	24.89	83.1	5.63	9.8	6.9
	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR3(N)	9:26	1.0	Surface	1	2	28.35	8.00	24.82	77.5	5.25	9.4	6.7
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR3(N)	9:26	2.5	Bottom	3	1	28.35	8.01	24.93	73.4	4.97	9.2	9.2
	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR3(N)	9:26	2.5	Bottom	3	2	28.34	8.02	24.97	80.0	5.42	9.5	10.1
	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR4(N2)	8:44	1.0	Surface	1	1	28.30	8.01	25.01	79.0	5.35	4.8	7.1
	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR4(N2)	8:44	1.0	Surface	1	2	28.26	8.00	25.02	83.7	5.65	4.6	7.1
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR4(N2)	8:44	2.8	Bottom	3	1	28.30	8.00	25.44	76.1	5.14	4.9	6.8
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR4(N2)	8:44	2.8	Bottom	3	2	28.33	8.02	25.74	72.9	4.94	4.8	6.3
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR5(N)	9:03	1.0	Surface	1	1	29.46	7.76	24.69	78.5	5.56	9.5	15.4
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR5(N)	9:04	1.0	Surface	1	2	29.45	7.76	24.74	78.8	5.58	9.4	14.9
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR5(N)	9:03	4.0	Middle	2	1	29.41	7.76	24.89	77.9	5.52	9.5	16.1
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR5(N)	9:04	4.0	Middle	2	2	29.38	7.76	25.06	77.9	5.52	9.4	15.3
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR5(N)	9:04	7.0	Bottom	3	1	29.28	7.76	25.70	77.0	5.46	9.7	15.9
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR5(N)	9:03	7.0	Bottom	3	2	29.27	7.76	25.82	77.7	5.49	9.9	14.4
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR10A(N)	8:04	1.0	Surface	1	1	29.26	7.78	25.61	81.5	5.76	2.1	5.9
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR10A(N)	8:03	1.0	Surface	1	2	29.34	7.79	24.93	81.6	5.76	2.0	6.2
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR10A(N)	8:03	6.9	Middle	2	1	29.31	7.78	25.36	81.0	5.72	2.5	5.3
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR10A(N)	8:02	6.9	Middle	2	2	29.28	7.79	25.42	80.6	5.71	2.4	5.0
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR10A(N)	8:02	12.7	Bottom	3	1	29.30	7.78	27.23	78.6	5.54	2.7	7.2
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR10A(N)	8:03	12.7	Bottom	3	2	29.31	7.78	25.37	79.2	5.60	2.6	6.1
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR10B(N2)	7:54	1.0	Surface	1	1	29.35	7.79	25.15	81.6	5.77	2.1	7.1
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR10B(N2)	7:53	1.0	Surface	1	2	29.36	7.79	25.10	81.9	5.79	2.1	8.1
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR10B(N2)	7:53	4.0	Middle	2	1	29.29	7.79	25.45	80.5	5.69	2.5	6.2
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR10B(N2)	7:52	4.0	Middle	2	2	29.29	7.80	25.44	80.6	5.70	2.6	6.8
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR10B(N2)	7:53	7.0	Bottom	3	1	29.14	7.78	26.47	79.6	5.61	2.8	6.6
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	SR10B(N2)	7:52	7.0	Bottom	3	2	29.13	7.80	26.53	79.4	5.60	2.9	6.3
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	CS2(A)	9:53	1.0	Surface	1	1	29.39	7.81	23.33	77.8	5.56	5.4	6.4
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	CS2(A)	9:54	1.0	Surface	1	2	29.40	7.80	23.56	78.2	5.57	5.2	5.4
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	CS2(A)	9:54	4.0	Middle	2	1	29.31	7.80	25.28	76.3	5.41	6.5	6.3
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	CS2(A)	9:53	4.0	Middle	2	2	29.29	7.81	25.55	76.2	5.40	6.6	5.3
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	CS2(A)	9:53	7.0	Bottom	3	1	29.21	7.81	26.64	75.8	5.35	6.9	4.6
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	CS2(A)	9:54	7.0	Bottom	3	2	29.22	7.80	26.56	75.9	5.36	6.7	4.7
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	CS(Mf)5	8:15	1.0	Surface	1	1	28.34	8.03	25.69	75.2	5.09	3.1	6.6
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	CS(Mf)5	8:14	1.0	Surface	1	2	28.36	8.03	25.66	75.6	5.11	3.2	7.2
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	CS(Mf)5	8:15	6.0	Middle	2	1	27.92	8.01	26.74	74.2	5.01	3.4	5.8
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	CS(Mf)5	8:14	6.0	Middle	2	2	28.07	8.03	26.60	74.4	5.02	3.2	6.4
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	CS(Mf)5	8:15	11.0	Bottom	3	1	27.99	8.00	29.04	70.8	4.81	3.2	4.6
HKLR	HY/2011/03	2019-09-18	Mid-Flood	Sunny	CS(Mf)5	8:14	11.0	Bottom	3	2	27.75	8.01	29.49	71.1	4.83	3.2	5.6
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS5	15:06	1.0	Surface	1	1	28.81	8.00	26.59	81.5	5.43	5.9	10.9
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS5	15:06	1.0	Surface	1	2	28.84	8.01	26.54	83.6	5.58	6.0	12.6
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS5	15:06	4.2	Middle	2	1	28.78	8.01	26.62	81.8	5.45	6.4	11.2
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS5	15:06	4.2	Middle	2	2	28.76	7.99	26.65	78.5	5.23	6.2	12.8
	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS5	15:06	7.4	Bottom	3	1	28.75	8.00	26.66	77.4	5.16	6.6	12.9
	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS5	15:05	7.4	Bottom	3	2	28.63	8.02	26.73	77.4	5.16	6.5	14.8
	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS(Mf)6	15:14	1.0	Surface	1	1	28.74	8.03	26.69	83.2	5.54	3.8	11.4
	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS(Mf)6	15:13	1.0	Surface	1	2	28.73	8.04	26.69	87.8	5.86	3.9	10.0
	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS(Mf)6	15:14	2.0	Bottom	3	1	28.73	8.03	26.69	85.6	5.70	3.9	10.6
	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS(Mf)6	15:13	2.0	Bottom	3	2	28.70	8.05	26.69	92.1	6.14	4.0	10.0
	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS7	15:21	1.0	Surface	1	1	28.95	8.04	26.94	87.1	5.78	3.7	11.5
	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS7	15:21	1.0	Surface	1	2	28.96	8.05	26.94	90.1	5.97	3.7	12.8

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS7	15:21	2.1	Bottom	3	1	28.95	8.04	26.95	88.8	5.89	3.7	9.9
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS7	15:21	2.1	Bottom	3	2	28.95	8.06	26.94	93.8	6.22	3.7	10.9
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS8(N)	15:49	1.0	Surface	1	1	28.73	8.14	26.88	93.0	6.19	6.7	11.5
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS8(N)	15:49	1.0	Surface	1	2	28.82	8.16	26.80	92.6	6.16	6.5	11.9
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS8(N)	15:49	2.8	Bottom	3	1	28.72	8.14	26.99	92.9	6.19	6.7	11.7
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS8(N)	15:49	2.8	Bottom	3	2	28.64	8.14	27.08	96.7	6.44	6.5	12.9
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS(Mf)9	15:29	1.0	Surface	1	1	28.82	8.04	26.99	81.8	5.44	6.2	12.4
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS(Mf)9	15:28	1.0	Surface	1	2	28.78	8.05	27.01	84.1	5.59	6.5	14.2
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS(Mf)9	15:28	2.6	Bottom	3	1	28.81	8.05	27.00	82.8	5.51	6.7	13.7
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS(Mf)9	15:28	2.6	Bottom	3	2	28.73	8.05	27.04	86.6	5.76	6.5	13.1
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS10(N)	15:36	1.0	Surface	1	1	29.75	7.73	24.21	74.6	5.27	9.3	15.3
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS10(N)	15:36	1.0	Surface	1	2	29.84	7.73	24.20	75.7	5.34	9.2	14.5
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS10(N)	15:36	5.2	Middle	2	1	29.27	7.73	26.75	74.5	5.21	10.2	13.8
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS10(N)	15:35	5.2	Middle	2	2	29.25	7.73	26.69	73.6	5.15	10.2	13.9
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS10(N)	15:36	9.3	Bottom	3	1	29.37	7.72	26.79	74.9	5.23	10.6	11.4
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	IS10(N)	15:35	9.3	Bottom	3	2	29.21	7.73	26.92	74.1	5.18	10.8	11.1
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR3(N)	14:57	1.0	Surface	1	1	28.78	8.08	26.29	82.3	5.49	5.7	12.7
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR3(N)	14:57	1.0	Surface	1	2	28.79	8.10	26.28	85.7	5.72	5.9	11.5
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR3(N)	14:57	2.5	Bottom	3	1	28.81	8.14	26.36	87.9	5.86	5.8	13.9
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR3(N)	14:57	2.5	Bottom	3	2	28.79	8.09	26.28	85.1	5.68	5.9	12.6
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR4(N2)	15:41	1.0	Surface	1	1	28.92	8.07	26.51	84.7	5.63	7.5	9.5
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR4(N2)	15:41	1.0	Surface	1	2	28.65	8.04	26.87	79.7	5.32	7.4	10.5
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR4(N2)	15:41	2.7	Bottom	3	1	28.68	8.04	26.87	76.4	5.09	7.7	13.5
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR4(N2)	15:41	2.7	Bottom	3	2	28.42	8.03	27.33	75.8	5.05	7.5	14.8
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR5(N)	15:29	1.0	Surface	1	1	29.69	7.75	24.25	76.2	5.38	8.3	12.7
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR5(N)	15:29	1.0	Surface	1	2	29.72	7.73	24.31	76.4	5.40	8.9	11.0
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR5(N)	15:29	4.1	Middle	2	1	29.27	7.74	26.45	74.6	5.23	9.4	11.5
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR5(N)	15:29	4.1	Middle	2	2	29.27	7.74	26.39	76.0	5.33	9.3	12.2
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR5(N)	15:29	7.1	Bottom	3	1	29.21	7.75	27.04	77.1	5.39	10.0	10.3
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR5(N)	15:29	7.1	Bottom	3	2	29.34	7.74	26.94	75.3	5.25	9.9	11.7
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR10A(N)	16:20	1.0	Surface	1	1	29.58	7.80	27.20	78.9	5.47	4.1	6.0
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR10A(N)	16:21	1.0	Surface	1	2	29.42	7.77	27.59	81.8	5.66	4.3	5.1
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR10A(N)	16:21	6.1	Middle	2	1	28.94	7.79	28.63	76.4	5.32	4.9	6.2
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR10A(N)	16:20	6.1	Middle	2	2	29.13	7.81	28.31	75.8	5.27	4.9	5.9
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR10A(N)	16:21	11.2	Bottom	3	1	28.96	7.83	28.79	76.7	5.32	4.9	5.4
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR10A(N)	16:20	11.2	Bottom	3	2	29.16	7.84	28.71	74.3	5.15	5.1	6.4
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR10B(N2)	16:30	1.0	Surface	1	1	29.53	7.76	27.33	74.4	5.16	4.2	7.9
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR10B(N2)	16:29	1.0	Surface	1	2	29.42	7.77	27.43	74.2	5.14	4.3	7.7
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR10B(N2)	16:30	3.4	Middle	2	1	29.28	7.76	27.71	73.9	5.12	5.4	6.0
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR10B(N2)	16:29	3.4	Middle	2	2	29.21	7.76	28.10	73.8	5.11	5.3	7.0
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR10B(N2)	16:30	5.7	Bottom	3	1	29.23	7.75	28.28	74.2	5.14	6.4	7.5
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	SR10B(N2)	16:29	5.7	Bottom	3	2	29.14	7.76	28.23	73.9	5.12	6.2	6.6
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	CS2(A)	14:50	1.0	Surface	1	1	29.80	7.79	25.59	83.0	5.84	8.8	11.2
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	CS2(A)	14:50	1.0	Surface	1	2	29.83	7.81	25.50	83.4	5.87	9.1	12.1
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	CS2(A)	14:50	3.2	Middle	2	1	29.46	7.79	26.84	80.4	5.68	9.5	13.0
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	CS2(A)	14:49	3.2	Middle	2	2	29.38	7.82	26.84	82.0	5.77	9.7	12.1
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	CS2(A)	14:50	5.3	Bottom	3	1	29.48	7.79	27.57	80.8	5.66	9.9	12.8
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	CS2(A)	14:49	5.3	Bottom	3	2	29.28	7.83	27.70	83.2	5.87	10.4	13.1
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	CS(Mf)5	16:10	1.0	Surface	1	1	28.58	8.09	28.25	83.7	5.52	1.7	7.6
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	CS(Mf)5	16:11	1.0	Surface	1	2	28.73	8.07	28.14	81.5	5.44	1.6	7.4
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	CS(Mf)5	16:11	5.8	Middle	2	1	28.07	8.07	30.39	76.5	5.05	1.5	8.0
HKLR	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	CS(Mf)5	16:10	5.8	Middle	2	2	28.06	8.10	30.29	76.1	5.03	1.6	7.7
TINLK	11/2011/03	2013-03-20	IVIIU-EDD	Sunny	C3(1VI1)5	10:10	5.8	windule	Ζ	Ζ	20.00	0.10	50.29	/0.1	5.03	1.0	1.1

HKLR H HKLR H HKLR H	HY/2011/03 HY/2011/03	2019-09-20		Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR H	HY/2011/03	2019-09-20	Mid-Ebb	Sunny	CS(Mf)5	16:10	10.6	Bottom	3	1	28.00	8.11	30.98	74.4	4.93	1.6	8.4
HKLR H		2019-09-20	Mid-Ebb	Sunny	CS(Mf)5	16:11	10.6	Bottom	3	2	28.18	8.06	30.56	74.5	4.93	1.8	8.2
	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS5	11:14	1.0	Surface	1	1	28.47	8.05	26.62	75.5	5.06	5.2	15.1
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS5	11:15	1.0	Surface	1	2	28.49	8.04	26.64	82.1	5.50	5.6	14.9
	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS5	11:14	4.4	Middle	2	1	28.40	8.05	26.72	79.2	5.31	6.3	15.8
	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS5	11:15	4.4	Middle	2	2	28.44	8.04	26.70	74.0	4.95	6.0	15.0
	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS5	11:15	7.8	Bottom	3	1	28.45	8.04	26.68	84.2	5.64	6.5	14.2
	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS5	11:14	7.8	Bottom	3	2	28.38	8.06	26.73	76.9	5.15	6.5	13.1
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS(Mf)6	11:07	1.0	Surface	1	1	28.28	8.05	26.83	83.0	5.57	14.3	18.4
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS(Mf)6	11:07	1.0	Surface	1	2	28.30	8.03	26.82	87.6	5.88	14.5	16.0
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS(Mf)6	11:07	2.3	Bottom	3	1	28.24	8.06	26.85	76.2	5.11	14.0	15.6
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS(Mf)6	11:07	2.3	Bottom	3	2	28.26	8.03	26.84	73.9	4.96	14.7	14.6
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS7	10:59	1.0	Surface	1	1	28.55	8.05	27.01	86.4	5.77	7.5	10.1
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS7	10:59	1.0	Surface	1	2	28.49	8.06	27.05	81.9	5.47	7.4	9.1
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS7	10:59	2.3	Bottom	3	1	28.45	8.05	27.17	75.6	5.04	7.7	12.6
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS7	10:59	2.3	Bottom	3	2	28.40	8.07	27.20	77.8	5.20	7.8	14.5
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS8(N)	10:30	1.0	Surface	1	1	28.34	8.06	26.77	87.9	5.89	8.4	10.0
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS8(N)	10:30	1.0	Surface	1	2	28.34	8.08	26.76	83.3	5.58	8.3	10.8
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS8(N)	10:30	3.3	Bottom	3	1	28.31	8.09	26.83	79.5	5.33	8.5	10.9
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS8(N)	10:30	3.3	Bottom	3	2	28.34	8.07	26.79	78.0	5.23	8.6	10.4
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS(Mf)9	10:51	1.0	Surface	1	1	28.36	8.06	26.96	87.7	5.87	10.4	15.3
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS(Mf)9	10:51	1.0	Surface	1	2	28.38	8.07	26.94	80.9	5.41	10.4	15.4
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS(Mf)9	10:51	2.7	Bottom	3	1	28.37	8.06	26.95	75.2	5.04	10.5	17.8
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS(Mf)9	10:51	2.7	Bottom	3	2	28.36	8.09	26.95	77.6	5.20	10.2	16.0
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS10(N)	10:39	1.0	Surface	1	1	29.41	7.76	26.10	74.0	5.19	9.8	12.6
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS10(N)	10:38	1.0	Surface	1	2	29.40	7.76	26.03	73.6	5.16	10.0	12.7
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS10(N)	10:38	5.2	Middle	2	1	29.03	7.76	26.89	73.1	5.11	11.2	12.9
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS10(N)	10:38	5.2	Middle	2	2	28.98	7.76	26.97	72.9	5.10	11.0	11.9
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS10(N)	10:38	9.4	Bottom	3	1	29.07	7.76	27.08	73.7	5.16	12.4	13.0
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	IS10(N)	10:37	9.4	Bottom	3	2	29.00	7.76	27.11	72.7	5.08	12.0	12.6
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR3(N)	11:24	1.0	Surface	1	1	28.39	8.05	26.63	84.7	5.67	5.4	10.3
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR3(N)	11:23	1.0	Surface	1	2	28.46	8.06	26.63	73.8	4.94	5.6	11.8
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR3(N)	11:23	2.7	Bottom	3	1	28.42	8.06	26.64	79.3	5.32	5.2	11.8
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR3(N)	11:23	2.7	Bottom	3	2	28.40	8.07	26.67	89.7	6.01	5.2	13.7
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR4(N2)	10:39	1.0	Surface	1	1	28.33	8.04	26.98	87.2	5.84	4.5	10.6
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR4(N2)	10:39	1.0	Surface	1	2	28.34	8.05	26.91	83.4	5.59	4.3	12.3
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR4(N2)	10:39	2.7	Bottom	3	1	28.34	8.06	26.93	77.6	5.20	4.6	11.6
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR4(N2)	10:39	2.7	Bottom	3	2	28.35	8.04	26.97	75.6	5.06	4.4	12.6
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR5(N)	10:46	1.0	Surface	1	1	29.40	7.77	26.15	73.7	5.17	9.7	11.7
	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR5(N)	10:45	1.0	Surface	1	2	29.42	7.77	26.12	73.1	5.13	10.3	11.4
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR5(N)	10:46	4.2	Middle	2	1	29.08	7.77	26.71	72.4	5.06	12.9	11.2
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR5(N)	10:45	4.2	Middle	2	2	29.05	7.76	26.71	72.8	5.09	12.6	11.1
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR5(N)	10:46	7.3	Bottom	3	1	29.07	7.76	27.10	72.6	5.08	13.9	12.4
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR5(N)	10:45	7.3	Bottom	3	2	28.98	7.76	27.10	72.8	5.08	13.4	14.5
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR10A(N)	9:50	1.0	Surface	1	1	29.41	7.76	26.05	73.8	5.17	3.6	6.2
	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR10A(N)	9:49	1.0	Surface	1	2	29.42	7.76	26.03	73.7	5.17	3.6	6.0
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR10A(N)	9:50	6.2	Middle	2	1	28.98	7.76	27.05	72.8	5.08	4.0	4.4
HKLR H	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR10A(N)	9:49	6.2	Middle	2	2	28.96	7.76	27.07	73.0	5.09	4.1	5.0
	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR10A(N)	9:49	11.4	Bottom	3	1	29.09	7.75	27.12	73.2	5.11	4.7	4.6
	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR10A(N)	9:49	11.4	Bottom	3	2	28.96	7.76	27.12	73.3	5.12	4.9	5.6
	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR10B(N2)	9:42	1.0	Surface	1	1	29.43	7.76	25.97	81.3	5.68	4.8	4.1
	HY/2011/03	2019-09-20	Mid-Flood	Sunny	SR10B(N2)	9:42	1.0	Surface	1	2	29.44	7.76	25.91	81.6	5.72	5.1	4.2

HKLR HY/20 HKLR HY/20	<pre>//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03</pre>	2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	SR10B(N2) SR10B(N2) SR10B(N2) SR10B(N2) CS2(A) CS2(A)	9:42 9:41 9:41 9:42 11:34	3.2 3.2 5.4 5.4	Middle Middle Bottom	2	1	29.14	7.76	26.56	75.7	5.30	4.8	4.6
HKLR HY/20	/2011/03 /2011/03 /2011/03 /2011/03 /2011/03 /2011/03 /2011/03 /2011/03 /2011/03 /2011/03	2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Sunny Sunny Sunny Sunny Sunny	SR10B(N2) SR10B(N2) CS2(A) CS2(A)	9:41 9:42 11:34	5.4 5.4		2	2							-
HKLR HY/20 HKLR HY/21	7/2011/03 7/2011/03 7/2011/03 7/2011/03 7/2011/03 7/2011/03 7/2011/03 7/2011/03 7/2011/03	2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Sunny Sunny Sunny Sunny	SR10B(N2) CS2(A) CS2(A)	9:42 11:34	5.4	Bottom		2	29.21	7.76	26.42	77.5	5.43	5.2	4.4
HKLR HY/20	/2011/03 /2011/03 /2011/03 /2011/03 /2011/03 /2011/03 /2011/03 /2011/03	2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Sunny Sunny Sunny	CS2(A) CS2(A)	11:34			3	1	29.04	7.76	27.04	75.2	5.26	6.3	5.8
HKLR HY/20 HKLR HY/21	7/2011/03 7/2011/03 7/2011/03 7/2011/03 7/2011/03 7/2011/03 7/2011/03	2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20 2019-09-20	Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Sunny Sunny	CS2(A)			Bottom	3	2	29.00	7.76	26.89	75.4	5.28	6.1	4.8
HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-20 2019-09-20 2019-09-20 2019-09-20	Mid-Flood Mid-Flood Mid-Flood	Sunny		44	1.0	Surface	1	1	29.42	7.82	26.58	77.5	5.44	10.8	12.6
HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20	//2011/03 //2011/03 //2011/03 //2011/03 //2011/03	2019-09-20 2019-09-20 2019-09-20	Mid-Flood Mid-Flood	,	CC2(+)	11:35	1.0	Surface	1	2	29.39	7.81	26.64	76.9	5.40	11.0	14.0
HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20	//2011/03 //2011/03 //2011/03 //2011/03	2019-09-20 2019-09-20	Mid-Flood	Current.	CS2(A)	11:34	3.1	Middle	2	1	29.24	7.81	27.24	77.3	5.40	11.4	11.7
HKLR HY/20 HKLR HY/20 HKLR HY/20 HKLR HY/20	7/2011/03 7/2011/03 7/2011/03	2019-09-20		Sunny	CS2(A)	11:35	3.1	Middle	2	2	29.11	7.80	27.24	76.8	5.38	11.9	11.9
HKLR HY/20 HKLR HY/20 HKLR HY/20	/2011/03 //2011/03			Sunny	CS2(A)	11:34	5.2	Bottom	3	1	29.04	7.82	27.31	77.8	5.45	12.3	11.5
HKLR HY/20 HKLR HY/20	/2011/03	2019-09-20	Mid-Flood	Sunny	CS2(A)	11:34	5.2	Bottom	3	2	29.05	7.81	27.32	77.1	5.40	12.8	12.8
HKLR HY/20			Mid-Flood	Sunny	CS(Mf)5	10:08	1.0	Surface	1	1	28.37	8.02	27.39	76.8	5.09	3.6	7.3
,	1001100	2019-09-20	Mid-Flood	Sunny	CS(Mf)5	10:07	1.0	Surface	1	2	28.25	7.99	27.47	77.2	5.10	3.8	7.6
HKLR HY/2	/2011/03	2019-09-20	Mid-Flood	Sunny	CS(Mf)5	10:07	6.0	Middle	2	1	28.08	8.01	28.99	75.4	5.02	5.4	7.7
	/2011/03	2019-09-20	Mid-Flood	Sunny	CS(Mf)5	10:07	6.0	Middle	2	2	28.04	7.97	29.02	75.9	5.05	5.8	7.4
HKLR HY/20	/2011/03	2019-09-20	Mid-Flood	Sunny	CS(Mf)5	10:07	11.0	Bottom	3	1	28.01	7.99	30.32	74.6	4.92	5.8	7.2
HKLR HY/20	/2011/03	2019-09-20	Mid-Flood	Sunny	CS(Mf)5	10:06	11.0	Bottom	3	2	27.99	7.91	30.61	74.2	4.89	5.8	8.0
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS5	6:46	1.0	Surface	1	1	27.62	8.19	31.49	90.6	5.96	3.2	7.2
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS5	6:47	1.0	Surface	1	2	27.61	8.17	31.68	86.1	5.67	3.4	6.6
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS5	6:46	4.0	Middle	2	1	27.68	8.17	32.12	87.1	5.76	3.8	6.1
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS5	6:47	4.0	Middle	2	2	27.65	8.15	32.17	82.6	5.45	3.6	5.1
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS5	6:46	7.0	Bottom	3	1	27.66	8.18	32.11	86.9	5.72	3.8	5.2
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS5	6:46	7.0	Bottom	3	2	27.65	8.16	32.12	81.7	5.38	3.7	5.9
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS(Mf)6	6:35	1.0	Surface	1	1	27.64	8.22	31.35	97.0	6.41	2.7	6.3
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS(Mf)6	6:35	1.0	Surface	1	2	27.63	8.21	31.39	96.1	6.35	2.6	6.5
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS(Mf)6	6:35	2.0	Bottom	3	1	27.61	8.21	31.54	95.1	6.29	2.7	5.0
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS(Mf)6	6:35	2.0	Bottom	3	2	27.70	8.17	31.92	95.7	6.33	2.7	6.0
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS7	6:28	1.0	Surface	1	1	27.64	8.20	31.45	89.3	5.90	3.3	5.6
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS7	6:28	1.0	Surface	1	2	27.63	8.20	31.52	89.3	5.90	3.4	6.3
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS7	6:28	2.0	Bottom	3	1	27.64	8.19	31.71	89.3	5.89	3.6	5.7
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS7	6:28	2.0	Bottom	3	2	27.65	8.20	31.73	90.1	5.94	3.7	5.5
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS8(N)	6:00	1.0	Surface	1	1	27.67	8.21	31.93	93.4	6.15	1.4	6.0
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS8(N)	5:59	1.0	Surface	1	2	27.67	8.20	32.01	91.8	6.04	1.5	6.8
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS8(N)	5:59	3.0	Bottom	3	1	27.70	8.20	32.20	90.4	5.94	1.5	5.4
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS8(N)	5:59	3.0	Bottom	3	2	27.67	8.20	32.05	92.4	6.08	1.5	5.9
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS(Mf)9	6:20	1.0	Surface	1	1	27.68	8.22	31.89	96.1	6.33	2.4	7.4
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS(Mf)9	6:20	1.0	Surface	1	2	27.67	8.21	31.96	96.7	6.37	2.5	8.4
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS(Mf)9	6:20	2.4	Bottom	3	1	27.68	8.22	31.93	96.1	6.33	2.5	6.2
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS(Mf)9	6:20	2.4	Bottom	3	2	27.68	8.21	32.08	95.6	6.29	2.4	6.3
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS10(N)	6:21	1.0	Surface	1	1	28.74	7.91	29.92	91.8	6.01	4.9	4.8
	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS10(N)	6:19	1.0	Surface	1	2	28.78	7.93	29.84	91.9	6.01	4.8	4.4
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS10(N)	6:21	5.4	Middle	2	1	28.80	7.88	30.41	88.0	5.74	5.2	4.1
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS10(N)	6:19	5.4	Middle	2	2	28.82	7.89	30.26	88.1	5.75	5.4	4.2
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS10(N)	6:19	9.7	Bottom	3	1	28.79	7.88	30.58	87.9	5.73	5.5	6.0
HKLR HY/20	/2011/03	2019-09-23	Mid-Ebb	Cloudy	IS10(N)	6:20	9.7	Bottom	3	2	28.83	7.88	30.63	86.8	5.65	5.7	5.0
	/2011/03	2019-09-23	Mid-Ebb	Cloudy	SR3(N)	6:58	1.0	Surface	1	1	27.61	8.18	31.55	87.9	5.81	2.4	6.7
	/2011/03	2019-09-23	Mid-Ebb	Cloudy	SR3(N)	6:58	1.0	Surface	1	2	27.62	8.18	31.68	87.9	5.81	2.6	6.0
	/2011/03	2019-09-23	Mid-Ebb	Cloudy	SR3(N)	6:58	2.4	Bottom	3	1	27.69	8.17	31.91	87.2	5.74	2.6	5.8
,	/2011/03	2019-09-23	Mid-Ebb	Cloudy	SR3(N)	6:58	2.4	Bottom	3	2	27.67	8.18	31.83	90.3	5.96	2.4	6.8
,	/2011/03	2019-09-23	Mid-Ebb	Cloudy	SR4(N2)	6:09	1.0	Surface	1	1	27.67	8.21	31.97	95.7	6.30	1.5	5.6
	/2011/03	2019-09-23	Mid-Ebb	Cloudy	SR4(N2)	6:08	1.0	Surface	1	2	27.68	8.21	31.93	95.2	6.27	1.4	6.6
,	/2011/03	2019-09-23	Mid-Ebb	Cloudy	SR4(N2)	6:08	2.6	Bottom	3	1	27.68	8.21	32.09	94.2	6.20	1.4	5.5
,	/2011/03	2019-09-23	Mid-Ebb	Cloudy	SR4(N2)	6:08	2.6	Bottom	3	2	27.67	8.21	32.02	95.5	6.29	1.5	6.1

HKR HY/2011/03 2019-09-23 Mid-Ebb Coudy SRS(N) 6-29 1.0 Surface 1 2 28.87 7.88 30.33 67. HKR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SRS(N) 6-30 3.9 Middle 2 2 28.87 7.87 30.17 68. MKR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SRS(N) 6-30 3.9 Middle 2 2 28.87 7.87 30.53 68. HKR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SRIA(N) 5:38 1.0 Surface 1 2 28.87 7.93 30.37 66. HKR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SRIA(N) 5:38 6.7 Middle 2 2 2.82 7.93 30.51 94. HKR HY/2011/03 2019-09-23 Mide-Bb Cloudy SRIA(N) 5:38 1.2.4 Bottom <th>°C pH S</th> <th>Temperature, °C</th> <th>Temperature, °C</th> <th>pH Salinity, ppt</th> <th>DO, %</th> <th>DO, mg/L</th> <th>L Turbidity, NTU</th> <th>SS, mg/L</th>	°C pH S	Temperature, °C	Temperature, °C	pH Salinity, ppt	DO, %	DO, mg/L	L Turbidity, NTU	SS, mg/L
HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR(N) 6:29 3.9 Midde 2 1 28.88 7.88 30.31 96. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR(N) 6:30 6.8 Bottom 3 1 28.88 7.87 30.35 85. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10A(N) 5:37 1.0 Surface 1 2 28.81 7.93 30.37 96. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10A(N) 5:37 1.0 Surface 1 2 28.82 7.93 30.51 94. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10A(N) 5:37 6.7 Midde 2 2 28.82 7.93 30.51 94. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10A(N) 5:37 1.0 Sur	7.91	28.83	28.83	7.91 29.83	89.6	5.86	5.2	4.9
HKIR HY/2011/03 2019.09.23 Mid-Ebb Cloudy SRN/N 6-30 3.9 Middle 2 2 2.8.5 7.89 30.17 86.6 HKIR HY/2011/03 2019.09.23 Mid-Ebb Cloudy SRS/N1 6-30 6.8 Bottom 3 1 28.88 7.87 30.37 85. HKIR HY/2011/03 2019.09.23 Mid-Ebb Cloudy SK10A(N) 5.38 1.0 Surface 1 1 28.81 7.39 30.37 96. HKIR HY/2011/03 2019.09-23 Mid-Ebb Cloudy SK10A(N) 5.38 6.7 Middle 2 1 28.82 7.93 30.30 95. HKIR HY/2011/03 2019.09-23 Mid-Ebb Cloudy SK10A(N) 5.37 12.4 Bottom 3 1 28.82 7.93 30.30 95. HKIR HY/2011/03 2019.09.23 Mid-Ebb Cloudy SK10A(N) 5.37 12.4 <t< td=""><td></td><td></td><td></td><td></td><td>87.8</td><td>5.72</td><td>5.4</td><td>5.0</td></t<>					87.8	5.72	5.4	5.0
HKR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$\$5[N] 6:30 6.68 Bottom 3 1 28.88 7.87 30.45 65.5 HKR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$\$10A(N) \$5.37 1.0 Surface 1 1 28.81 7.33 30.37 96. HKR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$\$10A(N) 5.38 1.0 Surface 1 2 28.82 7.33 30.30 96. HKR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$\$10A(N) 5:33 6.7 Middle 2 2 28.82 7.33 30.53 95. HKR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$\$10A(N) 5:33 1.4 Bottom 3 2 28.82 7.31 30.48 93. HKR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$\$1008(N) 5:27 3.8 <td< td=""><td></td><td></td><td></td><td></td><td>86.7</td><td>5.65</td><td>5.9</td><td>4.9</td></td<>					86.7	5.65	5.9	4.9
HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$FS(M) 6:29 6.8 Bottom 3 2 28.83 7.87 30.53 85. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$S100(N) 5:38 1.0 Surface 1 2 28.82 7.93 30.30 96. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$S100(N) 5:38 6.7 Middle 2 2 28.82 7.93 30.53 95. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$S100(N) 5:33 12.4 Bottom 3 1 28.89 7.91 30.89 93. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$S100(N) 5:28 1.0 Surface 1 2 28.82 7.93 30.47 95. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy S100(N) 5:28 3.8 <					86.8	5.66	5.6	5.6
HKR HY/2011/03 2019.09-23 Mid-Ebb Cloudy \$\$R10A(N) 5:37 1.0 Surface 1 1 28.81 7.93 30.37 96. HKR HY/2011/03 2019.09-23 Mid-Ebb Cloudy \$\$R10A(N) 5:38 6.7 Middle 2 1 28.82 7.93 30.51 94. HKR HY/2011/03 2019.09-23 Mid-Ebb Cloudy \$\$R10A(N) 5:37 6.7 Middle 2 2 28.82 7.93 30.53 95. HKR HY/2011/03 2019.09-23 Mid-Ebb Cloudy \$\$R10A(N) 5:37 1.2.4 Bottom 3 1 28.82 7.93 30.63 95. HKR HY/2011/03 2019.09-23 Mid-Ebb Cloudy \$\$R10B(N2) 5:28 1.0 Surface 1 2 28.82 7.93 30.62 94. HKR HY/2011/03 2019.09-23 Mid-Ebb Cloudy \$R10B(N2) 5:28 1.0					85.9	5.59	6.2	7.6
HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$R10N(N) 5:38 1.0 Surface 1 2 28.82 7.93 30.30 96. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$S10A(N) 5:37 6.7 Middle 2 28.82 7.93 30.53 95. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$S10A(N) 5:38 12.4 Bottom 3 1 28.82 7.91 30.89 93. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$S10A(N) 5:38 12.4 Bottom 3 2 28.97 7.91 30.89 93. HKIR HY/2011/03 2019-09-23 Mid-Ebb Cloudy \$S10B(N2) 5:28 1.0 Surface 1 28.84 7.93 30.66 94. HKIR HY/2011/03 2019-09-23 Mid-Eb Cloudy \$S10B(N2) 5:27 3.8 Middle 2					85.1	5.55	6.0	6.6
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10A(N) 5:38 6.7 Middle 2 1 28.82 7.93 30.51 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10A(N) 5:38 12.4 Bottom 3 1 28.89 7.91 30.63 95. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10A(N) 5:38 12.4 Bottom 3 2 28.92 7.91 31.08 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:28 1.0 Surface 1 2 28.81 7.94 30.26 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:28 3.8 Middle 2 2 28.83 7.93 30.66 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:28 3.8					96.4	6.29	2.2	6.7
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10A(N) 5:37 6.7 Middle 2 2 28.82 7.93 30.53 95. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10A(N) 5:37 12.4 Bottom 3 1 28.89 7.91 30.68 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:28 1.0 Surface 1 1 28.81 7.94 30.28 95. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:27 3.8 Middle 2 2 28.83 7.93 30.66 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:28 6.6 Bottom 3 1 28.84 7.93 30.61 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:27 6.6					96.4	6.29	2.3	7.6
HKLR HY/2011/03 2019-9-33 Mid-Ebb Cloudy SR10A(N) 5:37 12.4 Bottom 3 1 28.89 7.91 30.89 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:28 1.0 Surface 1 2 2.8.2 7.91 31.08 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:28 1.0 Surface 1 2 2.8.2 7.93 30.47 95. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:28 3.8 Middle 2 2 2.8.87 7.93 30.62 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:27 6.6 Bottom 3 1 2.8.86 7.93 30.62 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:13 1.0					94.7	6.17	2.5	7.1
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR104[N] 5:37 12.4 Bottom 3 2 28.92 7.91 31.08 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108[N2] 5:28 1.0 Surface 1 28.81 7.94 30.28 95. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108[N2] 5:27 3.8 Middle 2 1 28.84 7.93 30.66 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108[N2] 5:28 6.6 Bottom 3 1 28.84 7.93 30.66 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108[N2] 5:27 6.6 Bottom 3 2 28.85 7.93 30.81 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:13 1.0 Surface	7.93			7.93 30.53	95.0	6.19	2.3	6.1
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108[N2] 5:28 1.0 Surface 1 1 28.81 7.94 30.28 95. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108[N2] 5:27 3.8 Middle 2 1 28.82 7.93 30.66 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108[N2] 5:28 3.8 Middle 2 2 28.83 7.93 30.66 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108[N2] 5:27 6.6 Bottom 3 2 28.85 7.93 30.81 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7.12 1.0 Surface 1 2 28.85 7.91 29.81 97. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7.13 3.8					93.3	6.06	2.7	6.2
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108(N2) 5:28 1.0 Surface 1 2 28.82 7.93 30.47 95. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108(N2) 5:27 3.8 Middle 2 2 28.83 7.93 30.66 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108(N2) 5:28 6.6 Bottom 3 1 28.89 7.92 30.91 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108(N2) 5:27 6.6 Bottom 3 2 28.86 7.93 30.81 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy GS2(A) 7:13 1.0 Surface 1 28.85 7.91 29.81 97. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy GS2(A) 7:13 3.8 Middle	7.91	28.92	28.92	7.91 31.08	93.7	6.08	2.7	5.3
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108(N2) 5:27 3.8 Middle 2 1 28.84 7.93 30.66 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108(N2) 5:28 3.8 Middle 2 2 28.83 7.93 30.66 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108(N2) 5:27 6.6 Bottom 3 2 28.86 7.93 30.81 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 1.0 Surface 1 1 28.86 7.93 30.81 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 3.8 Middle 2 1 28.87 7.91 29.89 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:11 6.5 <td< td=""><td>7.94</td><td>28.81</td><td>28.81</td><td>7.94 30.28</td><td>95.1</td><td>6.21</td><td>2.2</td><td>5.5</td></td<>	7.94	28.81	28.81	7.94 30.28	95.1	6.21	2.2	5.5
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:28 3.8 Middle 2 2 28.83 7.93 30.62 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:27 6.6 Bottom 3 1 28.86 7.93 30.61 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:27 6.6 Bottom 3 2 28.86 7.93 30.81 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7.12 1.0 Surface 1 2 28.86 7.93 29.81 97. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7.12 3.8 Middle 2 2 28.87 7.91 29.99 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7.11 6.5 <td< td=""><td>7.93</td><td>28.82</td><td>28.82</td><td>7.93 30.47</td><td>95.5</td><td>6.23</td><td>2.1</td><td>5.2</td></td<>	7.93	28.82	28.82	7.93 30.47	95.5	6.23	2.1	5.2
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR10B(N2) 5:28 6.6 Bottom 3 1 28.89 7.92 30.91 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SS27 6.6 Bottom 3 2 28.86 7.93 30.81 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:13 1.0 Surface 1 2 28.86 7.93 29.81 97. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:13 1.0 Surface 1 2 28.86 7.93 29.81 97. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 6.5 Bottom 3 1 28.87 7.89 30.23 92. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:11 6.5 Bottom 3 <td></td> <td></td> <td></td> <td></td> <td>94.0</td> <td>6.11</td> <td>2.2</td> <td>5.2</td>					94.0	6.11	2.2	5.2
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy SR108(N2) 5:27 6.6 Bottom 3 2 28.86 7.93 30.81 93. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 1.0 Surface 1 28.85 7.92 29.85 97. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 3.8 Middle 2 1 28.85 7.91 29.99 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 3.8 Middle 2 2 28.87 7.91 29.99 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 6.5 Bottom 3 1 28.87 7.91 29.87 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(M)5 5:32 1.0 Surface <td< td=""><td>7.93</td><td>28.83</td><td>28.83</td><td>7.93 30.62</td><td>94.2</td><td>6.13</td><td>2.2</td><td>5.0</td></td<>	7.93	28.83	28.83	7.93 30.62	94.2	6.13	2.2	5.0
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 1.0 Surface 1 1 28.85 7.92 29.85 97. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 3.8 Middle 2 28.86 7.93 29.81 97. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 3.8 Middle 2 1 28.85 7.91 29.87 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 6.5 Bottom 3 1 28.87 7.89 30.23 92. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(M) 7:11 6.5 Bottom 3 2 28.86 7.89 30.21 92. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(M)5 5:32 1.0 Surface 1 </td <td></td> <td></td> <td></td> <td></td> <td>93.6</td> <td>6.08</td> <td>2.5</td> <td>7.0</td>					93.6	6.08	2.5	7.0
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:13 1.0 Surface 1 2 28.86 7.93 29.81 97. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 3.8 Middle 2 1 28.85 7.91 29.99 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 6.5 Bottom 3 1 28.87 7.91 29.99 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:11 6.5 Bottom 3 1 28.87 7.89 30.21 92. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 1.0 Surface 1 2 27.68 8.19 32.09 86. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 1.1 Midel	7.93	28.86	28.86	7.93 30.81	93.7	6.10	2.4	6.0
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 3.8 Middle 2 1 28.85 7.91 29.99 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:13 3.8 Middle 2 2 28.87 7.91 29.99 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 6.5 Bottom 3 1 28.87 7.91 29.99 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 6.5 Bottom 3 1 28.87 7.91 29.99 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(A) 7:12 6.5 Bottom 3 2 28.86 7.98 30.21 92. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 6.1 Middle <td>7.92</td> <td>28.85</td> <td>28.85</td> <td>7.92 29.85</td> <td>97.1</td> <td>6.35</td> <td>4.8</td> <td>8.2</td>	7.92	28.85	28.85	7.92 29.85	97.1	6.35	4.8	8.2
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:13 3.8 Middle 2 2 28.87 7.91 29.87 94. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 6.5 Bottom 3 1 28.87 7.89 30.23 92. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:11 6.5 Bottom 3 2 28.86 7.89 30.21 92. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 1.0 Surface 1 2 27.68 8.19 32.09 86. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 6.1 Middle 2 2 27.88 8.16 32.89 85. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 11.1 Bott	7.93	28.86	28.86	7.93 29.81	97.8	6.40	4.8	7.4
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:12 6.5 Bottom 3 1 28.87 7.89 30.23 92. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:11 6.5 Bottom 3 2 28.86 7.89 30.21 92. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 1.0 Surface 1 1 27.70 8.18 32.17 85. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 6.1 Midele 2 1 27.70 8.16 32.09 86. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 6.1 Midele 2 1 27.83 8.16 32.83 85. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 11.1 Bot	7.91	28.85	28.85	7.91 29.99	94.1	6.15	4.9	7.8
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS2(A) 7:11 6.5 Bottom 3 2 28.86 7.89 30.21 92. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 1.0 Surface 1 1 27.70 8.18 32.17 85. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:33 1.0 Surface 1 2 27.68 8.19 32.09 86. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 6.1 Middle 2 1 27.79 8.16 32.83 85. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 11.1 Bottom 3 1 27.85 8.16 33.04 83. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 1.0 Su	7.91	28.87	28.87	7.91 29.87	94.4	6.17	4.8	8.7
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 1.0 Surface 1 1 27.70 8.18 32.17 85. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:33 1.0 Surface 1 2 27.68 8.19 32.09 86. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 6.1 Middle 2 1 27.79 8.16 32.69 84. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 6.1 Middle 2 2 27.83 8.16 32.69 84. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 11.1 Bottom 3 1 27.89 8.16 33.04 83. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:38 1.0 S	7.89	28.87	28.87	7.89 30.23	92.3	6.02	5.3	8.1
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:33 1.0 Surface 1 2 27.68 8.19 32.09 86. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 6.1 Middle 2 1 27.79 8.16 32.69 84. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:33 6.1 Middle 2 2 27.83 8.16 32.83 85. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 11.1 Bottom 3 1 27.85 8.16 33.04 83. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 11.1 Bottom 3 2 27.89 8.15 33.20 82. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 1.0 S	7.89	28.86	28.86	7.89 30.21	92.1	6.01	5.1	9.1
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 6.1 Middle 2 1 27.79 8.16 32.69 84. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:33 6.1 Middle 2 2 27.83 8.16 32.83 85. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 11.1 Bottom 3 1 27.85 8.16 33.04 83. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 11.1 Bottom 3 2 27.89 8.15 33.20 82. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy ISS 19:37 1.0 Surface 1 1 27.67 8.19 31.42 87. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy ISS 19:37 1.0 Su	8.18	27.70	27.70	8.18 32.17	85.0	5.59	1.9	5.6
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:33 6.1 Middle 2 2 27.83 8.16 32.83 85. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 11.1 Bottom 3 1 27.85 8.16 33.04 83. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 11.1 Bottom 3 1 27.85 8.16 33.04 83. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy CS(Mf)5 5:32 11.1 Bottom 3 2 27.89 8.15 33.20 82. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 1.0 Surface 1 2 27.73 8.16 31.87 89. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 1.0 <td< td=""><td>8.19</td><td>27.68</td><td>27.68</td><td>8.19 32.09</td><td>86.1</td><td>5.67</td><td>1.8</td><td>5.4</td></td<>	8.19	27.68	27.68	8.19 32.09	86.1	5.67	1.8	5.4
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 11.1 Bottom 3 1 27.85 8.16 33.04 83. HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 11.1 Bottom 3 2 27.89 8.15 33.20 82. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:38 1.0 Surface 1 1 27.67 8.19 31.42 87. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 1.0 Surface 1 2 27.73 8.16 31.87 89. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 1.0 Surface 1 27.66 8.17 31.70 85. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 7.2 Bottom <	8.16	27.79	27.79	8.16 32.69	84.7	5.52	2.1	5.1
HKLR HY/2011/03 2019-09-23 Mid-Ebb Cloudy CS(Mf)5 5:32 11.1 Bottom 3 2 27.89 8.15 33.20 82. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:38 1.0 Surface 1 1 27.67 8.19 31.42 87. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 1.0 Surface 1 2 27.73 8.16 31.87 89. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 1.0 Surface 1 2 27.73 8.16 31.87 89. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 4.1 Midele 2 1 27.66 8.17 31.70 85. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 7.2 Bott	8.16	27.83	27.83	8.16 32.83	85.7	5.60	2.2	4.8
HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:38 1.0 Surface 1 1 27.67 8.19 31.42 87. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 1.0 Surface 1 2 27.73 8.16 31.87 89. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 1.0 Surface 1 2 27.73 8.16 31.87 89. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 4.1 Middle 2 2 27.74 8.16 32.02 86. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 7.2 Bottom 3 1 27.74 8.16 32.02 85. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 7.2 Bottom	8.16	27.85	27.85	8.16 33.04	83.5	5.46	2.1	4.9
HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 1.0 Surface 1 2 27.73 8.16 31.87 89. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:38 4.1 Middle 2 1 27.66 8.17 31.70 85. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 4.1 Middle 2 2 27.74 8.16 32.02 86. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 7.2 Bottom 3 1 27.74 8.16 32.02 85. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 7.2 Bottom 3 1 27.74 8.16 32.02 85. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:38 7.2 Bottom </td <td>8.15</td> <td>27.89</td> <td>27.89</td> <td>8.15 33.20</td> <td>82.7</td> <td>5.41</td> <td>2.1</td> <td>4.3</td>	8.15	27.89	27.89	8.15 33.20	82.7	5.41	2.1	4.3
HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:38 4.1 Middle 2 1 27.66 8.17 31.70 85. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 4.1 Middle 2 2 27.74 8.16 32.02 86. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 7.2 Bottom 3 1 27.74 8.16 32.02 85. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 7.2 Bottom 3 1 27.74 8.16 32.02 85. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:38 7.2 Bottom 3 2 27.73 8.16 32.00 84. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS(Mf)6 19:49 1.0 Surfa	8.19	27.67	27.67	8.19 31.42	87.7	5.80	3.4	5.7
HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 4.1 Middle 2 2 27.74 8.16 32.02 86. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 7.2 Bottom 3 1 27.74 8.16 32.02 85. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 7.2 Bottom 3 1 27.74 8.17 32.02 85. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:38 7.2 Bottom 3 2 27.73 8.16 32.00 84. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS(Mf)6 19:49 1.0 Surface 1 1 27.70 8.22 31.24 98. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS(Mf)6 19:48 1.0	8.16	27.73	27.73	8.16 31.87	89.5	5.89	3.5	5.1
HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:37 7.2 Bottom 3 1 27.74 8.17 32.02 85. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:38 7.2 Bottom 3 2 27.73 8.16 32.00 84. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS(Mf)6 19:49 1.0 Surface 1 1 27.70 8.22 31.24 98. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS(Mf)6 19:49 1.0 Surface 1 1 27.70 8.22 31.24 98. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS(Mf)6 19:48 1.0 Surface 1 2 27.71 8.22 31.26 96.	8.17	27.66	27.66	8.17 31.70	85.5	5.62	3.8	6.3
HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS5 19:38 7.2 Bottom 3 2 27.73 8.16 32.00 84. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS(Mf)6 19:49 1.0 Surface 1 1 27.70 8.22 31.24 98. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS(Mf)6 19:48 1.0 Surface 1 2 27.71 8.22 31.26 96. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS(Mf)6 19:48 1.0 Surface 1 2 27.71 8.22 31.26 96.	8.16	27.74	27.74	8.16 32.02	86.8	5.71	3.6	6.3
HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS(Mf)6 19:49 1.0 Surface 1 1 27.70 8.22 31.24 98. HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS(Mf)6 19:48 1.0 Surface 1 2 27.71 8.22 31.26 96.	8.17	27.74	27.74	8.17 32.02	85.6	5.64	3.6	6.5
HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS(Mf)6 19:48 1.0 Surface 1 2 27.71 8.22 31.26 96.	8.16	27.73	27.73	8.16 32.00	84.4	5.57	3.8	7.5
HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS(Mf)6 19:48 1.0 Surface 1 2 27.71 8.22 31.26 96.					98.8	6.53	3.3	7.3
	8.22			8.22 31.26	96.1	6.35	3.3	7.2
	8.21			8.21 31.42	96.6	6.38	3.5	6.7
	8.20	27.70	27.70	8.20 31.52	95.6	6.31	3.3	6.0
					99.6	6.58	3.4	5.3
HKLR HY/2011/03 2019-09-23 Mid-Flood Cloudy IS7 19:56 1.0 Surface 1 2 27.71 8.22 31.39 99.	8.22	27.71	27.71	8.22 31.39	99.4	6.57	3.4	5.7
					99.6	6.58	3.4	5.4
					99.1	6.55	3.5	5.5
	8.22	27.84	27.84	8.22 32.57	90.5	5.93	1.8	6.2
					90.3	5.89	1.8	6.2
					90.4	5.89	2.0	5.1
					89.1	5.83	2.1	4.1
					89.7	5.86	1.9	4.0
					91.7	6.00	2.0	3.9
	-				90.2	5.88	2.4	6.2
	-				92.5	6.03	2.5	5.2

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	IS10(N)	20:16	1.0	Surface	1	1	29.00	7.90	29.50	92.1	6.02	7.7	4.7
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	IS10(N)	20:17	1.0	Surface	1	2	28.92	7.89	29.57	92.3	6.04	7.5	4.1
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	IS10(N)	20:16	5.3	Middle	2	1	28.83	7.87	29.75	87.0	5.62	8.1	3.7
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	IS10(N)	20:17	5.3	Middle	2	2	28.83	7.86	29.75	87.2	5.71	8.1	4.7
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	IS10(N)	20:17	9.6	Bottom	3	1	29.12	7.85	31.18	86.2	5.57	8.7	4.4
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	IS10(N)	20:16	9.6	Bottom	3	2	29.12	7.86	31.22	86.9	5.68	8.5	5.3
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR3(N)	19:27	1.0	Surface	1	1	27.71	8.21	31.89	96.5	6.36	3.5	7.2
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR3(N)	19:26	1.0	Surface	1	2	27.65	8.19	31.46	88.7	5.86	3.4	6.6
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR3(N)	19:26	2.3	Bottom	3	1	27.68	8.17	31.75	89.0	5.87	3.5	3.4
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR3(N)	19:26	2.3	Bottom	3	2	27.68	8.18	31.71	89.4	5.90	3.4	3.4
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR4(N2)	20:15	1.0	Surface	1	1	27.84	8.23	32.53	89.8	5.88	1.5	5.7
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR4(N2)	20:15	1.0	Surface	1	2	27.85	8.23	32.64	89.1	5.83	1.4	5.5
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR4(N2)	20:15	2.6	Bottom	3	1	27.90	8.22	33.20	88.7	5.78	1.6	4.5
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR4(N2)	20:15	2.6	Bottom	3	2	27.88	8.22	33.00	90.0	5.87	1.6	4.1
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR5(N)	20:08	1.0	Surface	1	1	29.03	7.92	29.45	97.3	6.35	6.7	2.9
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR5(N)	20:07	1.0	Surface	1	2	29.00	7.92	29.48	95.7	6.25	6.6	3.9
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR5(N)	20:07	4.0	Middle	2	1	28.88	7.89	29.66	90.2	5.90	6.8	4.3
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR5(N)	20:08	4.0	Middle	2	2	28.88	7.88	29.67	90.4	5.91	6.9	4.8
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR5(N)	20:06	7.0	Bottom	3	1	28.91	7.87	30.09	89.3	5.82	7.2	4.1
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR5(N)	20:07	7.0	Bottom	3	2	28.97	7.87	30.24	89.5	5.83	7.1	4.7
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR10A(N)	21:03	1.0	Surface	1	1	29.02	7.90	31.16	90.1	5.80	2.4	5.0
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR10A(N)	21:03	1.0	Surface	1	2	29.05	7.89	31.42	89.0	5.75	2.4	4.2
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR10A(N)	21:03	6.8	Middle	2	1	29.09	7.88	31.74	88.8	5.74	2.4	4.7
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR10A(N)	21:02	6.8	Middle	2	2	29.10	7.88	31.76	88.5	5.70	2.5	5.4
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR10A(N)	21:02	12.6	Bottom	3	1	29.12	7.86	31.90	87.2	5.62	2.8	4.4
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR10A(N)	21:03	12.6	Bottom	3	2	29.11	7.88	31.88	88.3	5.69	2.7	5.4
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR10B(N2)	21:13	1.0	Surface	1	1	28.97	7.91	30.93	90.9	5.90	2.4	5.5
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR10B(N2)	21:12	1.0	Surface	1	2	28.98	7.91	30.96	89.8	5.82	2.3	4.8
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR10B(N2)	21:13	4.1	Middle	2	1	29.05	7.88	31.55	88.9	5.74	2.5	5.4
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR10B(N2)	21:12	4.1	Middle	2	2	29.07	7.88	31.65	89.3	5.75	2.4	4.4
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR10B(N2)	21:12	7.1	Bottom	3	1	29.09	7.88	31.71	88.1	5.68	2.6	5.3
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	SR10B(N2)	21:13	7.1	Bottom	3	2	29.06	7.88	31.64	87.7	5.66	2.5	4.4
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	CS2(A)	19:20	1.0	Surface	1	1	28.95	7.92	29.54	92.7	6.06	6.5	7.9
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	CS2(A)	19:21	1.0	Surface	1	2	28.95	7.91	29.51	93.0	6.08	6.4	6.9
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	CS2(A)	19:21	3.9	Middle	2	1	28.91	7.90	29.66	88.9	5.81	6.4	7.4
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	CS2(A)	19:20	3.9	Middle	2	2	28.89	7.90	29.65	88.4	5.78	6.6	7.2
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	CS2(A)	19:20	6.8	Bottom	3	1	28.94	7.88	30.18	87.4	5.69	6.6	6.4
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	CS2(A)	19:19	6.8	Bottom	3	2	28.92	7.88	30.18	86.9	5.67	6.7	5.4
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	CS(Mf)5	21:00	1.0	Surface	1	1	27.88	8.21	32.78	88.2	5.74	2.4	4.7
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	CS(Mf)5	20:59	1.0	Surface	1	2	27.86	8.21	32.70	89.0	5.82	2.3	3.9
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	CS(Mf)5	20:59	6.1	Middle	2	1	27.96	8.19	33.40	88.2	5.74	4.4	3.6
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	CS(Mf)5	21:00	6.1	Middle	2	2	27.96	8.19	33.44	86.3	5.64	4.3	3.5
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	CS(Mf)5	20:59	11.1	Bottom	3	1	27.97	8.20	33.50	85.5	5.56	4.4	4.0
HKLR	HY/2011/03	2019-09-23	Mid-Flood	Cloudy	CS(Mf)5	20:59	11.1	Bottom	3	2	27.94	8.20	33.37	86.1	5.60	4.5	4.4
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS5	10:44	1.0	Surface	1	1	27.80	8.26	31.71	98.6	6.47	4.7	7.4
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS5	10:44	1.0	Surface	1	2	27.71	8.27	31.80	99.4	6.55	4.8	7.7
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS5	10:44	4.0	Middle	2	1	27.66	8.25	32.81	96.7	6.36	6.9	8.5
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS5	10:44	4.0	Middle	2	2	27.65	8.26	32.79	96.9	6.36	6.8	8.3
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS5	10:44	7.0	Bottom	3	1	27.67	8.26	32.71	96.5	6.33	6.8	9.5
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS5	10:44	7.0	Bottom	3	2	27.65	8.26	32.93	96.4	6.32	6.8	9.9
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS(Mf)6	10:36	1.0	Surface	1	1	27.94	8.26	31.90	99.8	6.55	5.0	4.7
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS(Mf)6	10:37	1.0	Surface	1	2	27.89	8.26	31.94	100.5	6.60	5.2	5.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	I SS, mg/L
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS(Mf)6	10:37	2.0	Bottom	3	1	27.72	8.25	32.43	100.1	6.57	6.4	6.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS(Mf)6	10:36	2.0	Bottom	3	2	27.66	8.26	32.50	99.6	6.54	6.5	5.7
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS7	10:28	1.0	Surface	1	1	27.58	8.21	31.24	91.7	6.08	7.3	6.6
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS7	10:28	1.0	Surface	1	2	27.54	8.21	31.21	91.1	6.04	7.5	6.8
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS7	10:28	2.0	Bottom	3	1	27.56	8.20	31.39	91.8	6.08	7.8	6.7
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS7	10:28	2.0	Bottom	3	2	27.56	8.19	31.46	94.4	6.25	7.5	7.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS8(N)	10:00	1.0	Surface	1	1	27.56	8.22	31.42	88.9	5.89	11.2	12.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS8(N)	10:00	1.0	Surface	1	2	27.57	8.24	31.26	91.6	6.07	11.0	12.3
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS8(N)	10:00	3.0	Bottom	3	1	27.57	8.22	31.50	89.7	5.94	11.5	14.2
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS8(N)	9:59	3.0	Bottom	3	2	27.55	8.25	31.55	97.7	6.46	11.1	14.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS(Mf)9	10:20	1.0	Surface	1	1	27.53	8.22	31.29	94.7	6.28	9.3	7.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS(Mf)9	10:20	1.0	Surface	1	2	27.57	8.23	31.27	96.8	6.41	9.4	7.4
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS(Mf)9	10:19	2.6	Bottom	3	1	27.60	8.24	31.41	97.6	6.45	9.5	8.8
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS(Mf)9	10:20	2.6	Bottom	3	2	27.52	8.22	31.34	96.0	6.36	9.9	9.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS10(N)	10:09	1.0	Surface	1	1	28.85	7.97	30.15	103.4	6.75	9.5	8.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS10(N)	10:09	1.0	Surface	1	2	28.85	7.97	30.16	102.4	6.68	9.3	7.7
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS10(N)	10:09	5.2	Middle	2	1	28.82	7.94	30.26	100.1	6.53	11.5	8.2
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS10(N)	10:09	5.2	Middle	2	2	28.82	7.94	30.27	101.5	6.62	11.7	8.4
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS10(N)	10:09	9.3	Bottom	3	1	28.83	7.96	30.25	104.1	6.79	12.1	9.7
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	IS10(N)	10:08	9.3	Bottom	3	2	28.88	7.94	30.27	101.8	6.63	12.6	10.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR3(N)	10:53	1.0	Surface	1	1	28.04	8.28	31.81	102.5	6.72	7.5	5.9
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR3(N)	10:53	1.0	Surface	1	2	27.98	8.28	31.86	102.4	6.71	7.6	5.7
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR3(N)	10:53	2.3	Bottom	3	1	27.92	8.27	32.44	103.0	6.74	10.7	5.9
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR3(N)	10:52	2.3	Bottom	3	2	27.93	8.28	32.41	103.3	6.76	10.9	6.2
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR4(N2)	10:08	1.0	Surface	1	1	27.64	8.16	31.08	86.9	5.76	6.1	11.7
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR4(N2)	10:08	1.0	Surface	1	2	27.63	8.18	30.92	91.8	6.09	6.0	12.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR4(N2)	10:07	2.6	Bottom	3	1	27.55	8.21	31.10	95.8	6.35	6.6	12.3
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR4(N2)	10:08	2.6	Bottom	3	2	27.64	8.17	31.28	89.7	5.94	6.6	12.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR5(N)	10:20	1.0	Surface	1	1	28.88	7.98	30.13	105.4	6.88	9.4	7.3
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR5(N)	10:21	1.0	Surface	1	2	28.83	7.97	30.18	103.9	6.78	9.7	7.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR5(N)	10:20	4.0	Middle	2	1	28.81	7.95	30.26	102.6	6.70	12.5	7.8
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR5(N)	10:20	4.0	Middle	2	2	28.81	7.95	30.24	101.0	6.59	12.7	8.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR5(N)	10:20	6.9	Bottom	3	1	28.81	7.95	30.27	104.4	6.81	14.3	8.1
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR5(N)	10:20	6.9	Bottom	3	2	28.82	7.96	30.25	105.4	6.88	13.8	8.2
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR10A(N)	9:05	1.0	Surface	1	1	28.73	7.91	31.38	86.3	5.61	2.0	4.7
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR10A(N)	9:04	1.0	Surface	1	2	28.75	7.91	31.35	87.0	5.65	1.9	4.8
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR10A(N)	9:05	6.2	Middle	2	1	28.90	7.90	31.79	85.6	5.53	2.4	4.7
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR10A(N)	9:04	6.2	Middle	2	2	28.85	7.91	31.67	87.4	5.65	2.2	5.1
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR10A(N)	9:05	11.3	Bottom	3	1	28.89	7.91	31.77	86.6	5.60	3.0	5.3
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR10A(N)	9:04	11.3	Bottom	3	2	28.84	7.91	31.64	88.1	5.70	2.8	5.1
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR10B(N2)	8:55	1.0	Surface	1	1	28.67	7.92	31.25	89.1	5.80	3.2	6.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR10B(N2)	8:55	1.0	Surface	1	2	28.70	7.92	31.29	93.2	6.04	3.2	5.7
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR10B(N2)	8:55	3.4	Middle	2	1	28.73	7.92	31.40	90.0	5.84	3.3	4.8
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR10B(N2)	8:55	3.4	Middle	2	2	28.75	7.92	31.40	88.2	5.73	3.2	4.5
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR10B(N2)	8:55	5.8	Bottom	3	1	28.79	7.92	31.59	88.8	5.76	3.8	5.2
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	SR10B(N2)	8:54	5.8	Bottom	3	2	28.75	7.92	31.55	89.7	5.83	3.6	4.8
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	CS2(A)	11:05	1.0	Surface	1	1	28.90	7.98	30.14	106.1	6.92	9.7	8.3
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	CS2(A)	11:05	1.0	Surface	1	2	28.85	7.98	30.14	100.1	6.83	10.5	8.0
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	CS2(A) CS2(A)	11:05	3.2	Middle	2	1	28.85	7.96	30.18	104.0	6.74	10.5	8.2
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	CS2(A) CS2(A)	11:05	3.2	Middle	2	2	28.80	7.96	30.22	103.2	6.76	12.1	8.4
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	CS2(A) CS2(A)	11:05	5.3	Bottom	3	1	28.80	7.97	30.24	103.5	6.82	12.3	8.3
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	CS2(A) CS2(A)	11:05	5.3	Bottom	3	2	28.81	7.96	30.28	104.5	6.83	12.0	8.4
TINLN	111/2011/03	2013-03-23	IVIIU-EDD	Sunny	C32(A)	11.05	5.5	BULLUIN	э	۷ ک	20.01	7.90	50.20	104.0	0.05	12.0	0.4

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	CS(Mf)5	9:29	1.0	Surface	1	1	27.48	8.23	31.94	86.0	5.68	2.8	5.6
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	CS(Mf)5	9:29	1.0	Surface	1	2	27.49	8.22	31.91	85.3	5.63	2.6	5.5
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	CS(Mf)5	9:29	5.8	Middle	2	1	27.64	8.19	32.51	83.7	5.46	3.5	5.7
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	CS(Mf)5	9:28	5.8	Middle	2	2	27.62	8.21	32.50	85.1	5.55	3.6	5.8
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	CS(Mf)5	9:28	10.6	Bottom	3	1	27.84	8.22	33.21	84.2	5.53	3.6	5.9
HKLR	HY/2011/03	2019-09-25	Mid-Ebb	Sunny	CS(Mf)5	9:29	10.6	Bottom	3	2	27.81	8.19	33.23	82.3	5.41	3.6	5.7
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS5	15:50	1.0	Surface	1	1	28.28	8.24	31.55	105.4	6.89	14.1	11.3
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS5	15:51	1.0	Surface	1	2	28.26	8.22	31.56	106.0	6.93	13.5	11.0
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS5	15:50	4.2	Middle	2	1	28.20	8.24	31.59	104.7	6.85	15.0	12.5
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS5	15:51	4.2	Middle	2	2	28.21	8.23	31.59	105.5	6.90	14.5	12.7
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS5	15:50	7.3	Bottom	3	1	28.17	8.26	31.63	101.3	6.63	15.0	14.0
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS5	15:51	7.3	Bottom	3	2	28.27	8.23	31.56	105.1	6.87	14.4	13.8
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS(Mf)6	16:00	1.0	Surface	1	1	28.40	8.26	31.47	107.2	6.99	8.3	6.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS(Mf)6	16:01	1.0	Surface	1	2	28.36	8.25	31.49	109.2	7.13	8.4	6.4
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS(Mf)6	16:00	2.0	Bottom	3	1	28.13	8.27	31.55	100.5	6.59	8.6	7.4
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS(Mf)6	16:00	2.0	Bottom	3	2	28.18	8.25	31.53	107.1	7.01	8.5	7.3
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS7	16:11	1.0	Surface	1	1	27.98	8.23	31.73	100.7	6.61	10.5	21.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS7	16:11	1.0	Surface	1	2	27.98	8.25	31.73	101.4	6.65	10.2	21.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS7	16:11	2.1	Bottom	3	1	27.98	8.26	31.73	101.4	6.65	10.1	20.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS7	16:11	2.1	Bottom	3	2	27.98	8.24	31.73	101.5	6.66	10.4	19.9
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS8(N)	16:41	1.0	Surface	1	1	27.84	8.29	32.17	99.9	6.55	3.4	4.0
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS8(N)	16:41	1.0	Surface	1	2	27.82	8.30	32.24	97.6	6.40	3.5	4.3
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS8(N)	16:41	2.9	Bottom	3	1	27.82	8.29	32.34	99.3	6.51	3.8	5.6
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS8(N)	16:41	2.9	Bottom	3	2	27.71	8.32	32.55	97.1	6.37	3.8	5.6
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS(Mf)9	16:21	1.0	Surface	1	1	28.38	8.28	31.62	108.2	7.06	8.3	15.8
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS(Mf)9	16:21	1.0	Surface	1	2	28.37	8.28	31.62	106.7	6.96	8.5	16.0
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS(Mf)9	16:21	2.4	Bottom	3	1	28.38	8.28	31.62	107.2	6.99	8.8	17.3
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS(Mf)9	16:21	2.4	Bottom	3	2	28.34	8.29	31.61	103.7	6.77	8.6	16.9
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	IS10(N)	16:30	1.0	Surface	1	1	29.21	8.00	28.71	113.5	7.42	9.2	6.9
HKLR HKLR	HY/2011/03 HY/2011/03	2019-09-25 2019-09-25	Mid-Flood Mid-Flood	Fine Fine	IS10(N) IS10(N)	16:31 16:30	1.0 5.2	Surface Middle	1 2	2	29.35 29.02	8.02 7.97	28.72 30.16	115.7 112.5	7.55 7.32	9.2 9.7	7.2 6.8
HKLR	HY/2011/03 HY/2011/03	2019-09-25	Mid-Flood	Fine	IS10(N) IS10(N)	16:30	5.2	Middle	2	2	29.02	7.97	30.16	112.5	7.32	9.7	7.0
HKLR	HY/2011/03	2019-09-25	Mid-Flood Mid-Flood	Fine	IS10(N) IS10(N)	16:31	9.4		3	1	29.02	7.97	30.16	110.4	7.19	9.4	8.1
HKLR	HY/2011/03 HY/2011/03	2019-09-25	Mid-Flood	Fine	IS10(N) IS10(N)	16:31	9.4	Bottom Bottom	3	2	29.01	7.97	30.20	112.7	7.34	10.7	8.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR3(N)	15:42	1.0	Surface	1	1	29.01	8.26	31.67	105.0	6.86	11.0	19.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR3(N)	15:42	1.0	Surface	1	2	28.21	8.20	31.67	103.0	6.80	15.8	19.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR3(N) SR3(N)	15:42	2.3	Bottom	3	1	28.21	8.28	31.67	104.0	6.80	15.8	20.4
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR3(N)	15:42	2.3	Bottom	3	2	28.19	8.32	31.68	104.4	6.76	15.4	20.4
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR4(N2)	16:35	1.0	Surface	1	1	28.08	8.24	31.42	98.8	6.49	7.5	11.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR4(N2)	16:35	1.0	Surface	1	2	28.03	8.24	31.42	98.1	6.44	7.5	10.9
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR4(N2)	16:35	2.7	Bottom	3	1	27.99	8.24	31.61	98.5	6.47	7.7	13.2
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR4(N2)	16:35	2.7	Bottom	3	2	28.07	8.24	31.48	98.5	6.46	7.2	13.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR5(N)	16:19	1.0	Surface	1	1	29.36	8.03	28.65	125.7	8.16	8.0	6.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR5(N)	16:20	1.0	Surface	1	2	29.37	8.03	28.63	123.7	7.96	8.6	6.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR5(N)	16:20	3.9	Middle	2	1	29.09	7.98	29.96	119.1	7.75	10.4	6.0
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR5(N)	16:19	3.9	Middle	2	2	29.08	7.98	30.01	120.2	7.85	10.4	5.7
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR5(N)	16:19	6.7	Bottom	3	1	29.19	7.99	30.06	119.9	7.80	9.7	5.4
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR5(N)	16:19	6.7	Bottom	3	2	29.05	7.98	30.15	114.9	7.48	10.0	5.5
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR10A(N)	17:30	1.0	Surface	1	1	29.00	7.96	31.05	93.6	6.05	3.3	4.6
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR10A(N)	17:31	1.0	Surface	1	2	28.99	7.94	31.10	96.7	6.26	3.5	5.0
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR10A(N)	17:30	6.3	Middle	2	1	28.99	7.98	31.41	90.3	5.85	3.6	5.3
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR10A(N)	17:31	6.3	Middle	2	2	28.99	7.94	31.32	88.3	5.71	3.7	5.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR10A(N)	17:31	11.5	Bottom	3	1	28.99	7.94	31.34	87.1	5.64	4.2	5.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR10A(N)	17:30	11.5	Bottom	3	2	28.94	8.00	31.44	87.5	5.67	4.5	5.3
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR10B(N2)	17:38	1.0	Surface	1	1	28.99	7.93	31.11	87.7	5.68	2.5	4.0
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR10B(N2)	17:38	1.0	Surface	1	2	29.00	7.93	31.08	87.8	5.69	2.8	4.4
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR10B(N2)	17:38	3.4	Middle	2	1	28.99	7.92	31.28	87.4	5.66	3.3	4.7
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR10B(N2)	17:38	3.4	Middle	2	2	28.99	7.93	31.29	87.2	5.64	3.5	4.6
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR10B(N2)	17:37	5.8	Bottom	3	1	28.99	7.93	31.30	87.5	5.66	5.0	5.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	SR10B(N2)	17:38	5.8	Bottom	3	2	28.99	7.93	31.26	87.9	5.69	4.8	4.8
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	CS2(A)	15:40	1.0	Surface	1	1	29.36	8.02	28.62	122.0	7.96	6.7	5.6
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	CS2(A)	15:39	1.0	Surface	1	2	29.40	8.00	28.73	122.0	7.92	7.0	6.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	CS2(A)	15:39	3.2	Middle	2	1	29.21	7.99	29.58	119.8	7.80	9.5	6.9
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	CS2(A)	15:39	3.2	Middle	2	2	29.21	7.92	29.56	117.7	7.67	9.8	6.7
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	CS2(A)	15:39	5.3	Bottom	3	1	29.20	7.98	30.00	106.2	6.91	9.2	8.1
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	CS2(A)	15:39	5.3	Bottom	3	2	29.07	7.86	30.11	109.2	7.11	9.5	8.3
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	CS(Mf)5	17:05	1.0	Surface	1	1	27.52	8.20	32.00	86.5	5.67	2.6	5.7
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	CS(Mf)5	17:05	1.0	Surface	1	2	27.49	8.22	31.88	87.0	5.75	2.6	5.8
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	CS(Mf)5	17:05	6.0	Middle	2	1	27.70	8.18	32.59	85.4	5.64	3.2	6.4
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	CS(Mf)5	17:04	6.0	Middle	2	2	27.74	8.19	32.78	86.3	5.65	3.3	6.3
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	CS(Mf)5	17:05	11.0	Bottom	3	1	27.70	8.19	32.88	84.3	5.53	3.1	6.5
HKLR	HY/2011/03	2019-09-25	Mid-Flood	Fine	CS(Mf)5	17:04	11.0	Bottom	3	2	27.63	8.19	33.25	83.8	5.49	3.3	6.7
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS5	10:21	1.0	Surface	1	1	27.74	8.28	31.44	97.1	6.41	9.5	12.0
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS5	10:21	1.0	Surface	1	2	27.73	8.27	31.44	95.5	6.30	9.5	12.2
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS5	10:20	4.1	Middle	2	1	27.72	8.28	31.43	96.2	6.35	9.5	13.3
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS5	10:21	4.1	Middle	2	2	27.73	8.27	31.44	95.2	6.28	9.4	12.9
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS5	10:20	7.1	Bottom	3	1	27.71	8.28	31.45	96.2	6.35	9.6	14.1
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS5	10:21	7.1	Bottom	3	2	27.72	8.27	31.44	93.5	6.18	9.5	14.1
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS(Mf)6	10:29	1.0	Surface	1	1	27.74	8.27	31.33	97.5	6.44	11.8	15.0
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS(Mf)6	10:30	1.0	Surface	1	2	27.73	8.27	31.32	96.9	6.40	12.5	15.4
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS(Mf)6	10:29	2.1	Bottom	3	1	27.70	8.27	31.33	98.8	6.53	12.6	18.5
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS(Mf)6	10:30	2.1	Bottom	3	2	27.72	8.27	31.32	97.2	6.42	13.1	18.6
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS7	10:38	1.0	Surface	1	1	27.81	8.26	31.42	97.3	6.42	3.3	8.1
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS7	10:38	1.0	Surface	1	2	27.82	8.26	31.43	96.6	6.37	3.4	8.0
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS7	10:38	2.1	Bottom	3	1	27.81	8.27	31.42	98.0	6.46	3.5	8.3
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS7	10:38	2.1	Bottom	3	2	27.82	8.26	31.44	96.8	6.38	3.3	8.1
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS8(N)	11:05	1.0	Surface	1	1	27.61	8.21	31.18	98.1	6.50	6.4	7.8
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS8(N)	11:06	1.0	Surface	1	2	27.61	8.22	31.16	98.1	6.50	6.7	8.1
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS8(N)	11:05	2.8	Bottom	3	1	27.61	8.22	31.20	98.5	6.52	6.8	7.9
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS8(N)	11:05	2.8	Bottom	3	2	27.60	8.20	31.25	99.1	6.56	6.8	7.6
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS(Mf)9	10:46	1.0	Surface	1	1	28.07	8.28	31.51	97.5	6.39	5.1	9.4
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS(Mf)9	10:46	1.0	Surface	1	2	28.07	8.27	31.51	97.3	6.38	5.2	9.1
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS(Mf)9	10:46	2.5	Bottom	3	1	28.07	8.28	31.51	97.4	6.39	5.5	9.8
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS(Mf)9	10:46	2.5	Bottom	3	2	28.04	8.28	31.52	97.3	6.39	5.6	9.8
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS10(N)	10:50	1.0	Surface	1	1	29.00	7.93	28.97	97.1	6.36	6.3	7.6
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS10(N)	10:50	1.0	Surface	1	2	28.94	7.93	29.06	97.2	6.37	6.7	7.8
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS10(N)	10:49	5.3	Middle	2	1	28.85	7.90	29.77	96.2	6.29	6.6	8.6
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS10(N)	10:50	5.3	Middle	2	2	28.85	7.89	29.78	94.0	6.15	6.9	9.0
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS10(N)	10:49	9.6	Bottom	3	1	28.86	7.90	29.83	97.8	6.39	8.5	10.5
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	IS10(N)	10:50	9.6	Bottom	3	2	28.86	7.89	29.89	94.7	6.19	8.8	10.9
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR3(N)	10:11	1.0	Surface	1	1	27.84	8.29	31.40	97.3	6.41	6.5	9.9
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR3(N)	10:11	1.0	Surface	1	2	27.74	8.30	31.44	96.5	6.37	6.6	9.7
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR3(N)	10:11	2.4	Bottom	3	1	27.76	8.29	31.42	97.0	6.40	6.1	10.4
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR3(N)	10:10	2.4	Bottom	3	2	27.70	8.33	31.47	97.1	6.41	6.1	10.4
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SK3(N)	10:10	2.4	Bottom	3	2	27.70	8.33	31.47	9/.1	6.41	6.1	10.1

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR4(N2)	10:59	1.0	Surface	1	1	27.83	8.10	30.93	99.0	6.54	3.4	6.7
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR4(N2)	10:59	1.0	Surface	1	2	27.79	7.99	30.94	101.1	6.68	3.6	7.1
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR4(N2)	10:59	2.6	Bottom	3	1	27.72	8.07	30.96	99.2	6.57	3.8	6.7
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR4(N2)	10:58	2.6	Bottom	3	2	27.67	7.98	30.99	101.4	6.72	3.8	6.9
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR5(N)	10:41	1.0	Surface	1	1	28.91	7.92	29.17	96.9	6.35	7.9	6.7
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR5(N)	10:41	1.0	Surface	1	2	28.97	7.93	29.04	97.3	6.38	8.0	6.9
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR5(N)	10:41	4.1	Middle	2	1	28.85	7.90	29.71	95.5	6.25	8.5	8.4
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR5(N)	10:41	4.1	Middle	2	2	28.85	7.90	29.71	96.6	6.32	8.6	8.1
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR5(N)	10:41	7.2	Bottom	3	1	28.87	7.91	29.77	97.7	6.39	10.0	8.8
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR5(N)	10:40	7.2	Bottom	3	2	28.86	7.90	29.86	98.6	6.44	10.7	8.9
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR10A(N)	11:34	1.0	Surface	1	1	29.06	7.87	31.01	92.7	6.00	4.5	4.9
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR10A(N)	11:34	1.0	Surface	1	2	29.06	7.88	31.03	94.8	6.14	4.5	4.6
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR10A(N)	11:33	6.1	Middle	2	1	29.06	7.88	31.03	88.9	5.76	4.7	5.9
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR10A(N)	11:34	6.1	Middle	2	2	29.03	7.87	31.01	87.9	5.69	5.0	5.6
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR10A(N)	11:33	11.2	Bottom	3	1	29.08	7.88	31.04	89.8	5.81	5.5	7.1
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR10A(N)	11:34	11.2	Bottom	3	2	29.04	7.88	31.01	88.1	5.70	5.6	7.4
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR10B(N2)	11:46	1.0	Surface	1	1	29.09	7.87	31.03	87.4	5.65	4.7	6.1
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR10B(N2)	11:47	1.0	Surface	1	2	29.08	7.86	31.02	87.2	5.64	5.0	5.7
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR10B(N2)	11:46	3.3	Middle	2	1	29.05	7.86	31.01	87.1	5.64	6.5	6.8
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR10B(N2)	11:46	3.3	Middle	2	2	29.04	7.87	31.00	87.1	5.64	6.0	6.7
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR10B(N2)	11:46	5.6	Bottom	3	1	29.06	7.86	31.00	87.1	5.64	6.2	8.9
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	SR10B(N2)	11:46	5.6	Bottom	3	2	29.03	7.87	31.01	87.1	5.64	5.9	8.5
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	CS2(A)	10:11	1.0	Surface	1	1	28.97	7.93	29.03	99.1	6.49	7.9	7.2
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	CS2(A)	10:11	1.0	Surface	1	2	28.93	7.93	29.07	98.5	6.46	7.8	6.8
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	CS2(A)	10:11	3.2	Middle	2	1	28.84	7.92	29.53	97.2	6.36	8.6	7.0
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	CS2(A)	10:10	3.2	Middle	2	2	28.84	7.91	29.55	97.4	6.38	8.8	7.0
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	CS2(A)	10:10	5.4	Bottom	3	1	28.85	7.89	29.74	98.1	6.42	10.5	8.0
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	CS2(A)	10:11	5.4	Bottom	3	2	28.85	7.91	29.70	98.3	6.43	9.6	8.3
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	CS(Mf)5	11:29	1.0	Surface	1	1	27.84	8.21	32.00	87.8	5.76	8.5	9.9
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	CS(Mf)5	11:28	1.0	Surface	1	2	27.96	8.23	31.74	90.1	5.92	8.6	10.1
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	CS(Mf)5	11:28	5.8	Middle	2	1	27.81	8.21	32.18	88.7	5.82	8.5	11.6
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	CS(Mf)5	11:29	5.8	Middle	2	2	27.80	8.20	32.16	86.2	5.66	8.4	11.9
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	CS(Mf)5	11:29	10.5	Bottom	3	1	27.82	8.21	32.21	86.1	5.66	8.6	14.7
HKLR	HY/2011/03	2019-09-27	Mid-Ebb	Sunny	CS(Mf)5	11:28	10.5	Bottom	3	2	27.82	8.21	32.20	88.1	5.78	8.5	15.0
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS5	5:00	1.0	Surface	1	1	27.64	8.23	31.50	84.2	5.54	4.4	5.0
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS5	4:59	1.0	Surface	1	2	27.70	8.22	31.50	86.4	5.65	4.4	4.6
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS5	4:59	4.2	Middle	2	1	27.78	8.20	32.70	83.7	5.52	4.8	5.5
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS5	4:59	4.2	Middle	2	2	27.79	8.20	32.73	83.8	5.51	4.6	5.7
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS5	4:59	7.3	Bottom	3	1	27.82	8.20	33.01	83.6	5.48	4.7	7.2
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS5	4:59	7.3	Bottom	3	2	27.80	8.20	32.96	82.6	5.41	4.6	7.1
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS(Mf)6	4:49	1.0	Surface	1	1	27.66	8.25	31.62	91.1	6.02	3.5	4.8
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS(Mf)6	4:49	1.0	Surface	1	2	27.64	8.25	31.58	91.1	6.02	3.6	4.5
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS(Mf)6	4:49	2.1	Bottom	3	1	27.66	8.24	31.77	91.4	6.03	3.5	4.7
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS(Mf)6	4:49	2.1	Bottom	3	2	27.74	8.23	31.98	89.9	5.91	3.5	4.8
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS7	4:42	1.0	Surface	1	1	27.66	8.25	31.62	90.8	5.99	3.8	4.3
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS7	4:42	1.0	Surface	1	2	27.66	8.25	31.61	90.9	6.00	3.8	4.2
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS7	4:42	2.1	Bottom	3	1	27.67	8.24	31.77	90.9	5.99	4.0	5.6
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS7	4:42	2.1	Bottom	3	2	27.74	8.24	31.93	91.1	6.00	3.9	5.8
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS8(N)	4:15	1.0	Surface	1	1	27.69	8.22	31.49	87.0	5.74	3.6	6.6
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS8(N)	4:16	1.0	Surface	1	2	27.65	8.23	31.51	88.1	5.82	3.8	6.9
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS8(N)	4:15	3.0	Bottom	3	1	27.67	8.22	32.35	87.9	5.78	4.4	6.9
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS8(N)	4:15	3.0	Bottom	3	2	27.75	8.21	32.45	87.9	5.77	4.5	6.7
HKLK	п1/2011/03	2013-03-27	IVII0-F1000	Fine	158(IN)	4:15	3.0	ROLLOW	3	2	27.75	8.21	32.45	87.9	5.//	4.5	ь.

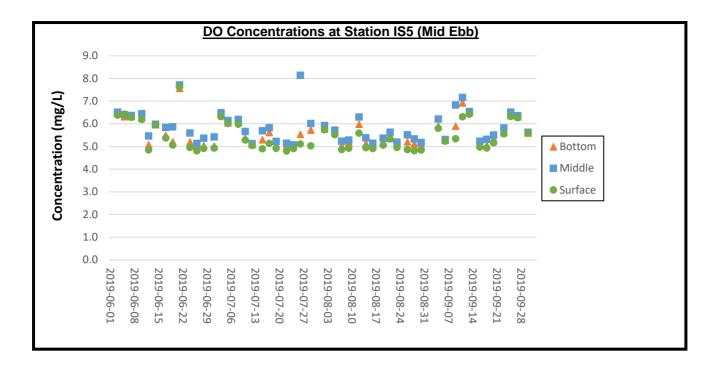
Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS(Mf)9	4:33	1.0	Surface	1	1	27.65	8.25	31.58	92.2	6.09	3.7	4.8
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS(Mf)9	4:33	1.0	Surface	1	2	27.67	8.24	31.63	91.5	6.04	4.0	4.6
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS(Mf)9	4:33	2.7	Bottom	3	1	27.66	8.24	31.74	92.2	6.08	4.5	7.2
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS(Mf)9	4:33	2.7	Bottom	3	2	27.65	8.24	31.70	93.2	6.15	4.3	7.4
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS10(N)	4:37	1.0	Surface	1	1	28.91	7.95	29.91	93.5	6.11	4.8	6.8
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS10(N)	4:38	1.0	Surface	1	2	28.94	7.95	29.80	94.6	6.18	4.9	7.0
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS10(N)	4:38	5.2	Middle	2	1	28.90	7.93	30.12	92.7	6.04	5.8	7.8
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS10(N)	4:37	5.2	Middle	2	2	28.90	7.94	30.13	92.9	6.06	5.5	7.8
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS10(N)	4:37	9.4	Bottom	3	1	28.91	7.93	30.20	93.2	6.08	5.3	7.3
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	IS10(N)	4:37	9.4	Bottom	3	2	28.91	7.93	30.20	93.5	6.09	5.6	7.4
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR3(N)	5:11	1.0	Surface	1	1	27.60	8.25	31.42	90.0	5.95	3.8	5.0
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR3(N)	5:12	1.0	Surface	1	2	27.60	8.25	31.51	91.8	6.07	3.8	5.3
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR3(N)	5:11	2.5	Bottom	3	1	27.74	8.24	31.96	90.2	5.93	4.4	6.9
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR3(N)	5:11	2.5	Bottom	3	2	27.70	8.24	31.92	90.3	5.95	4.3	6.6
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR4(N2)	4:22	1.0	Surface	1	1	27.65	8.23	31.60	87.5	5.78	3.9	5.4
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR4(N2)	4:23	1.0	Surface	1	2	27.64	8.24	31.56	89.3	5.90	3.8	5.1
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR4(N2)	4:22	2.6	Bottom	3	1	27.71	8.22	32.10	88.6	5.83	4.3	5.9
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR4(N2)	4:22	2.6	Bottom	3	2	27.75	8.21	32.31	87.5	5.75	4.5	5.6
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR5(N)	4:48	1.0	Surface	1	1	28.93	7.95	29.83	95.0	6.21	6.0	8.1
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR5(N)	4:49	1.0	Surface	1	2	28.93	7.95	29.86	95.6	6.24	5.8	8.3
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR5(N)	4:49	4.0	Middle	2	1	28.89	7.94	30.05	93.8	6.12	5.9	8.7
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR5(N)	4:48	4.0	Middle	2	2	28.88	7.94	30.02	94.0	6.14	6.2	8.5
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR5(N)	4:48	7.0	Bottom	3	1	28.90	7.94	30.16	95.6	6.23	6.8	8.8
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR5(N)	4:49	7.0	Bottom	3	2	28.91	7.94	30.17	95.1	6.20	7.1	8.6
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR10A(N)	3:41	1.0	Surface	1	1	28.92	7.96	29.88	94.5	6.16	4.2	6.6
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR10A(N)	3:41	1.0	Surface	1	2	28.91	7.95	29.95	96.4	6.28	4.4	6.6
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR10A(N)	3:41	6.4	Middle	2	1	28.91	7.94	30.16	93.9	6.13	5.0	5.8
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR10A(N)	3:41	6.4	Middle	2	2	28.91	7.94	30.22	93.6	6.11	4.9	6.3
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR10A(N)	3:41	11.8	Bottom	3	1	28.91	7.94	30.20	93.3	6.08	5.2	6.3
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR10A(N)	3:40	11.8	Bottom	3	2	28.91	7.95	30.17	92.9	6.06	5.4	6.4
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR10B(N2)	3:30	1.0	Surface	1	1	28.91	7.98	29.89	96.1	6.28	5.3	7.1
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR10B(N2)	3:31	1.0	Surface	1	2	28.93	7.97	29.85	95.7	6.25	5.2	6.9
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR10B(N2)	3:30	3.5	Middle	2	1	28.88	7.97	29.99	95.7	6.25	5.3	7.0
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR10B(N2)	3:31	3.5	Middle	2	2	28.88	7.96	29.98	94.6	6.18	5.4	7.3
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR10B(N2)	3:30	5.9	Bottom	3	1	28.89	7.98	30.13	97.7	6.37	5.9	6.4
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	SR10B(N2)	3:31	5.9	Bottom	3	2	28.90	7.96	30.09	95.8	6.25	5.6	6.0
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	CS2(A)	5:56	1.0	Surface	1	1	28.94	7.95	29.85	95.4	6.23	7.5	7.3
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	CS2(A)	5:56	1.0	Surface	1	2	28.91	7.95	29.89	95.2	6.22	7.5	7.0
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	CS2(A)	5:55	3.1	Middle	2	1	28.88	7.94	29.98	95.0	6.20	7.8	8.3
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	CS2(A)	5:56	3.1	Middle	2	2	28.87	7.94	29.98	94.3	6.16	7.5	8.0
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	CS2(A)	5:55	5.2	Bottom	3	1	28.88	7.94	30.01	95.8	6.26	8.9	8.1
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	CS2(A)	5:56	5.2	Bottom	3	2	28.89	7.94	30.03	95.4	6.22	8.6	8.3
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	CS(Mf)5	3:48	1.0	Surface	1	1	27.64	8.22	31.51	82.8	5.47	4.5	4.2
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	CS(Mf)5	3:47	1.0	Surface	1	2	27.72	8.19	31.54	81.9	5.35	4.5	4.4
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	CS(Mf)5	3:47	6.1	Middle	2	1	27.82	8.16	33.00	80.8	5.33	4.7	5.1
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	CS(Mf)5	3:48	6.1	Middle	2	2	27.82	8.17	32.99	81.6	5.33	4.6	4.7
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	CS(Mf)5	3:47	11.1	Bottom	3	1	27.82	8.16	33.06	80.2	5.24	4.6	5.0
HKLR	HY/2011/03	2019-09-27	Mid-Flood	Fine	CS(Mf)5	3:47	11.1	Bottom	3	2	27.81	8.17	33.06	80.5	5.26	4.5	5.4
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS5	13:25	1.0	Surface	1	1	28.29	8.14	30.93	84.0	5.51	3.5	9.6
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS5	13:25	1.0	Surface	1	2	28.31	8.15	30.92	87.4	5.74	3.6	9.8
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS5	13:25	4.1	Middle	2	1	28.27	8.15	30.94	83.5	5.48	3.4	9.4
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS5	13:25	4.1	Middle	2	2	28.27	8.15	30.93	87.1	5.71	3.5	9.2

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	I SS, mg/L
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS5	13:24	7.1	Bottom	3	1	28.26	8.16	30.93	86.8	5.70	3.5	10
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS5	13:25	7.1	Bottom	3	2	28.27	8.15	30.94	83.4	5.48	3.3	9.7
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS(Mf)6	13:32	1.0	Surface	1	1	28.38	8.16	30.87	89.2	5.85	2.8	7.4
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS(Mf)6	13:33	1.0	Surface	1	2	28.32	8.16	30.87	86.4	5.67	2.9	7.3
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS(Mf)6	13:32	2.1	Bottom	3	1	28.23	8.16	30.85	87.3	5.74	3.1	8.5
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS(Mf)6	13:32	2.1	Bottom	3	2	28.16	8.18	30.87	91.6	6.02	3.2	8.6
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS7	13:41	1.0	Surface	1	1	28.23	8.15	30.88	91.1	5.98	2.6	5.7
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS7	13:41	1.0	Surface	1	2	28.19	8.15	30.87	89.0	5.85	2.6	5.9
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS7	13:41	2.1	Bottom	3	1	28.19	8.15	30.88	82.1	5.40	2.6	7.5
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS7	13:39	2.1	Bottom	3	2	28.23	8.17	30.88	81.6	5.36	2.6	7.7
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS8(N)	14:08	1.0	Surface	1	1	28.28	8.19	30.71	88.2	5.79	5.1	6.4
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS8(N)	14:07	1.0	Surface	1	2	28.21	8.20	30.74	89.7	5.90	5.1	6.9
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS8(N)	14:07	3.0	Bottom	3	1	28.24	8.21	30.78	92.6	6.08	4.9	8.4
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS8(N)	14:07	3.0	Bottom	3	2	28.24	8.19	30.73	88.6	5.82	4.7	8.6
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS(Mf)9	13:48	1.0	Surface	1	1	28.38	8.18	30.90	87.2	5.71	4.4	5.2
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS(Mf)9	13:48	1.0	Surface	1	2	28.31	8.18	30.91	89.2	5.85	4.6	5.4
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS(Mf)9	13:48	2.7	Bottom	3	1	28.36	8.18	30.87	87.9	5.76	4.4	7.1
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS(Mf)9	13:48	2.7	Bottom	3	2	28.24	8.18	30.88	90.4	5.94	4.5	7.4
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS10(N)	14:03	1.0	Surface	1	1	29.50	7.83	28.58	85.5	5.57	10.3	25.8
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS10(N)	14:04	1.0	Surface	1	2	29.54	7.84	28.58	85.6	5.57	10.6	25.5
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS10(N)	14:03	5.4	Middle	2	1	29.46	7.83	28.57	85.3	5.56	12.0	28.7
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS10(N)	14:03	5.4	Middle	2	2	29.46	7.83	28.56	85.2	5.56	12.0	39.1
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS10(N)	14:03	9.8	Bottom	3	1	29.46	7.83	28.56	85.4	5.57	11.6	36.2
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	IS10(N)	14:03	9.8	Bottom	3	2	29.47	7.83	28.56	85.3	5.56	11.8	35.9
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR3(N)	13:18	1.0	Surface	1	1	28.37	8.15	30.79	87.0	5.70	2.4	8.4
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR3(N)	13:18	1.0	Surface	1	2	28.38	8.17	30.77	90.3	5.92	2.3	8.1
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR3(N)	13:17	2.3	Bottom	3	1	28.27	8.24	30.76	93.5	6.14	2.4	9.6
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR3(N)	13:18	2.3	Bottom	3	2	28.32	8.16	30.78	88.3	5.79	2.2	9.7
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR4(N2)	14:01	1.0	Surface	1	1	28.40	8.19	30.65	89.7	5.88	5.7	7.6
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR4(N2)	14:01	1.0	Surface	1	2	28.34	8.20	30.67	91.7	6.02	5.8	7.7
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR4(N2)	14:01	2.6	Bottom	3	1	28.36	8.19	30.65	90.6	5.94	5.6	9.1
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR4(N2)	14:00	2.6	Bottom	3	2	28.27	8.21	30.69	93.1	6.12	5.5	9.4
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR5(N)	13:52	1.0	Surface	1	1	29.48	7.82	28.57	85.7	5.58	10.3	19.8
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR5(N)	13:52	1.0	Surface	1	2	29.49	7.82	28.56	86.0	5.60	10.1	19.6
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR5(N)	13:52	4.0	Middle	2	1	29.44	7.81	28.56	86.1	5.61	12.1	20.6
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR5(N)	13:52	4.0	Middle	2	2	29.45	7.82	28.56	85.6	5.58	11.8	20.9
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR5(N)	13:52	6.9	Bottom	3	1	29.45	7.82	28.56	85.7	5.59	12.2	20.8
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR5(N)	13:51	6.9	Bottom	3	2	29.45	7.80	28.56	86.3	5.63	12.6	21.3
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR10A(N)	14:48	1.0	Surface	1	1	29.69	7.84	29.61	87.1	5.62	5.2	12.3
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR10A(N)	14:48	1.0	Surface	1	2	29.76	7.84	29.55	87.5	5.65	5.4	12.6
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR10A(N)	14:48	6.2	Middle	2	1	29.62	7.84	29.65	86.5	5.59	5.4	13
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR10A(N)	14:48	6.2	Middle	2	2	29.46	7.83	29.96	87.6	5.66	5.4	12.8
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR10A(N)	14:48	11.3	Bottom	3	1	29.66	7.84	29.64	87.2	5.63	5.5	14.3
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR10A(N)	14:48	11.3	Bottom	3	2	29.47	7.83	29.91	90.0	5.82	5.5	14.4
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR10B(N2)	15:00	1.0	Surface	1	1	29.62	7.84	29.72	93.7	6.07	6.3	9.9
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR10B(N2)	15:01	1.0	Surface	1	2	29.64	7.85	29.67	88.9	5.74	5.9	10.2
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR10B(N2)	15:01	3.3	Middle	2	1	29.43	7.84	29.94	85.7	5.54	6.1	12
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR10B(N2)	14:59	3.3	Middle	2	2	29.57	7.84	29.79	85.4	5.52	5.9	12.4
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR10B(N2)	15:00	5.5	Bottom	3	1	29.62	7.84	29.72	85.6	5.53	6.5	13.4
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	SR10B(N2)	14:59	5.5	Bottom	3	2	29.57	7.84	29.79	86.0	5.56	6.6	13.2
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	CS2(A)	12:30	1.0	Surface	1	1	29.46	7.79	28.57	90.3	5.88	8.9	16.4
HKLR	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	CS2(A)	12:30	1.0	Surface	1	2	29.49	7.77	28.55	88.6	5.78	8.8	16.1

		Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	рН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	CS2(A)	12:30	3.2	Middle	2	1	29.44	7.79	28.56	87.0	5.67	10.5	17.7
HKLR I	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	CS2(A)	12:30	3.2	Middle	2	2	29.44	7.74	28.54	87.4	5.70	10.9	17.6
HKLR I	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	CS2(A)	12:29	5.4	Bottom	3	1	29.48	7.69	28.54	88.0	5.74	11.0	22.2
	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	CS2(A)	12:30	5.4	Bottom	3	2	29.44	7.78	28.56	87.1	5.68	11.5	21.8
	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	CS(Mf)5	14:29	1.0	Surface	1	1	28.30	8.19	30.74	86.3	5.66	8.0	15.5
	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	CS(Mf)5	14:30	1.0	Surface	1	2	28.30	8.18	30.70	81.5	5.35	8.3	15.7
	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	CS(Mf)5	14:29	5.8	Middle	2	1	28.14	8.17	31.08	81.3	5.34	8.6	16.6
	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	CS(Mf)5	14:29	5.8	Middle	2	2	28.24	8.20	30.93	85.2	5.59	8.6	17
HKLR I	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	CS(Mf)5	14:29	10.6	Bottom	3	1	28.16	8.18	31.09	80.7	5.30	8.6	17.6
HKLR I	HY/2011/03	2019-09-30	Mid-Ebb	Sunny	CS(Mf)5	14:28	10.6	Bottom	3	2	28.21	8.21	31.03	84.4	5.54	8.5	18.1
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS5	8:20	1.0	Surface	1	1	27.93	8.20	30.98	91.0	6.01	2.7	10.8
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS5	8:21	1.0	Surface	1	2	27.94	8.20	30.98	85.2	5.62	2.6	10.8
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS5	8:21	4.2	Middle	2	1	27.91	8.20	31.00	84.2	5.56	2.6	11.9
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS5	8:20	4.2	Middle	2	2	27.88	8.20	31.01	89.0	5.87	2.5	12
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS5	8:20	7.4	Bottom	3	1	27.87	8.20	30.99	83.8	5.53	2.6	12.8
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS5	8:20	7.4	Bottom	3	2	27.85	8.21	30.99	87.9	5.80	2.6	13.4
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS(Mf)6	8:12	1.0	Surface	1	1	27.90	8.22	31.01	90.5	5.97	3.5	13.6
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS(Mf)6	8:13	1.0	Surface	1	2	27.89	8.21	31.01	88.1	5.81	3.6	13.8
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS(Mf)6	8:12	2.1	Bottom	3	1	27.86	8.22	31.03	96.7	6.38	4.3	12.9
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS(Mf)6	8:13	2.1	Bottom	3	2	27.89	8.21	31.02	89.3	5.89	4.1	12.8
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS7	8:05	1.0	Surface	1	1	27.92	8.20	30.97	84.2	5.55	3.8	12.5
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS7	8:04	1.0	Surface	1	2	27.91	8.20	30.98	87.3	5.76	3.8	12.1
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS7	8:04	2.1	Bottom	3	1	27.91	8.20	30.98	89.2	5.88	3.8	14.1
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS7	8:04	2.1	Bottom	3	2	27.91	8.20	30.98	86.3	5.69	3.9	14.2
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS8(N)	7:37	1.0	Surface	1	1	27.95	8.19	30.75	83.1	5.49	5.6	15.6
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS8(N)	7:37	1.0	Surface	1	2	27.95	8.20	30.75	87.7	5.79	5.7	15.8
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS8(N)	7:36	3.0	Bottom	3	1	27.95	8.20	30.72	90.5	5.98	5.4	17.2
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS8(N)	7:37	3.0	Bottom	3	2	27.95	8.20	30.75	85.3	5.63	5.6	17
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS(Mf)9	7:57	1.0	Surface	1	1	27.95	8.19	30.87	85.1	5.61	8.5	13.4
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS(Mf)9	7:57	1.0	Surface	1	2	27.95	8.19	30.88	83.3	5.50	8.5	13.7
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS(Mf)9	7:56	2.7	Bottom	3	1	27.94	8.20	30.87	92.8	6.12	8.5	14.1
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS(Mf)9	7:57	2.7	Bottom	3	2	27.95	8.19	30.87	84.2	5.55	8.6	14.3
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS10(N)	7:33	1.0	Surface	1	1	29.20	7.88	29.08	84.8	5.54	12.6	20
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS10(N)	7:33	1.0	Surface	1	2	29.20	7.88	29.09	84.8	5.53	13.0	19.7
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS10(N)	7:33	5.2	Middle	2	1	29.21	7.88	29.10	84.6	5.52	13.6	19.4
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS10(N)	7:32	5.2	Middle	2	2	29.21	7.88	29.10	84.6	5.52	13.4	19.4
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS10(N)	7:33	9.3	Bottom	3	1	29.21	7.88	29.09	84.6	5.52	14.5	19.4
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	IS10(N)	7:32	9.3	Bottom	3	2	29.21	7.88	29.09	84.7	5.53	14.2	19.3
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR3(N)	8:30	1.0	Surface	1	1	27.84	8.20	30.90	87.0	5.75	2.3	6.6
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR3(N)	8:29	1.0	Surface	1	2	27.85	8.21	30.89	90.7	5.99	2.2	7
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR3(N)	8:30	2.5	Bottom	3	1	27.84	8.20	30.93	88.4	5.84	2.5	6.8
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR3(N)	8:29	2.5	Bottom	3	2	27.84	8.22	30.95	95.1	6.28	2.7	6.5
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR4(N2)	7:45	1.0	Surface	1	1	27.88	8.19	30.89	83.0	5.48	2.6	9.7
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR4(N2)	7:45	1.0	Surface	1	2	27.85	8.20	30.85	87.4	5.78	2.4	9.5
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR4(N2)	7:45	2.8	Bottom	3	1	27.87	8.19	30.90	84.1	5.55	2.5	10
	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR4(N2)	7:45	2.8	Bottom	3	2	27.83	8.20	30.83	91.5	6.05	2.4	9.9
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR5(N)	7:46	1.0	Surface	1	1	29.20	7.88	29.08	84.8	5.54	14.2	31.9
HKLR I	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR5(N)	7:47	1.0	Surface	1	2	29.20	7.88	29.07	84.8	5.54	13.7	31.7
	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR5(N)	7:46	4.0	Middle	2	1	29.20	7.88	29.08	84.6	5.52	14.8	33
	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR5(N)	7:46	4.0	Middle	2	2	29.20	7.88	29.08	84.6	5.52	15.1	33.6
	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR5(N)	7:46	6.9	Bottom	3	1	29.20	7.88	29.08	84.7	5.53	15.4	30.1
	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR5(N)	7:46	6.9	Bottom	3	2	29.20	7.88	29.07	84.5	5.52	15.4	29.8

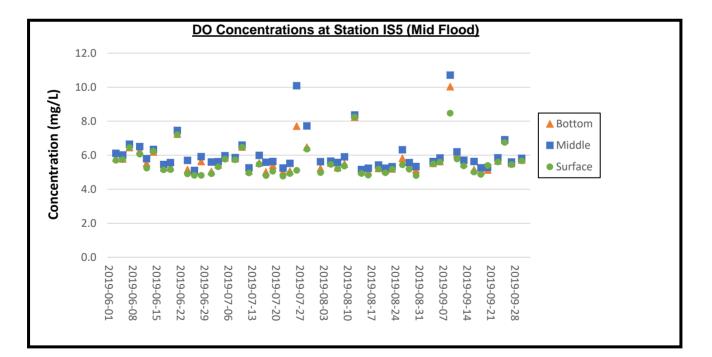
Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pН	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR10A(N)	6:34	1.0	Surface	1	1	29.20	7.88	29.07	85.0	5.55	5.0	10.2
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR10A(N)	6:33	1.0	Surface	1	2	29.20	7.89	29.09	84.9	5.54	5.0	9.8
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR10A(N)	6:33	6.2	Middle	2	1	29.21	7.89	29.09	84.8	5.53	6.2	10.7
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR10A(N)	6:34	6.2	Middle	2	2	29.21	7.89	29.09	84.7	5.53	5.8	10.8
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR10A(N)	6:33	11.3	Bottom	3	1	29.21	7.89	29.09	84.8	5.53	7.3	11.7
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR10A(N)	6:34	11.3	Bottom	3	2	29.21	7.89	29.09	84.7	5.53	6.9	11.8
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR10B(N2)	6:21	1.0	Surface	1	1	29.20	7.91	29.09	87.4	5.70	5.8	4.9
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR10B(N2)	6:21	1.0	Surface	1	2	29.20	7.90	29.09	88.5	5.77	5.4	4.9
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR10B(N2)	6:20	3.2	Middle	2	1	29.21	7.92	29.10	85.9	5.61	5.8	6.2
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR10B(N2)	6:21	3.2	Middle	2	2	29.21	7.90	29.10	85.9	5.61	5.5	6.1
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR10B(N2)	6:21	5.4	Bottom	3	1	29.20	7.91	29.10	85.6	5.59	6.1	6
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	SR10B(N2)	6:20	5.4	Bottom	3	2	29.21	7.93	29.10	86.5	5.65	6.4	6
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	CS2(A)	8:37	1.0	Surface	1	1	29.20	7.88	29.07	84.8	5.53	12.1	40.7
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	CS2(A)	8:38	1.0	Surface	1	2	29.20	7.88	29.08	85.7	5.60	12.8	40.4
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	CS2(A)	8:38	3.2	Middle	2	1	29.20	7.88	29.08	86.0	5.61	12.3	43.8
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	CS2(A)	8:37	3.2	Middle	2	2	29.20	7.88	29.08	84.6	5.52	12.6	43.4
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	CS2(A)	8:37	5.4	Bottom	3	1	29.20	7.88	29.08	84.6	5.52	14.1	44.3
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	CS2(A)	8:38	5.4	Bottom	3	2	29.20	7.88	29.08	86.6	5.65	14.0	44
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	CS(Mf)5	7:17	1.0	Surface	1	1	28.04	8.20	30.74	80.9	5.33	3.5	8.8
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	CS(Mf)5	7:16	1.0	Surface	1	2	28.05	8.19	30.75	82.6	5.41	3.7	9.1
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	CS(Mf)5	7:17	5.9	Middle	2	1	28.04	8.19	31.00	80.0	5.25	5.4	9.5
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	CS(Mf)5	7:16	5.9	Middle	2	2	28.04	8.19	31.02	80.8	5.33	5.4	9.3
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	CS(Mf)5	7:16	10.7	Bottom	3	1	28.02	8.17	31.75	80.1	5.27	5.5	12.1
HKLR	HY/2011/03	2019-09-30	Mid-Flood	Sunny	CS(Mf)5	7:17	10.7	Bottom	3	2	28.03	8.18	31.60	79.3	5.22	5.7	12.2

1) As Strong Wind Signal, No. 3 /Standby Signal No.1 was hoisted on 2 September 2019. The water quality monitoring for both ebb and flood tides on 2 September 2019 were cancelled due to safety reason and no substitute monitoring was conducted.



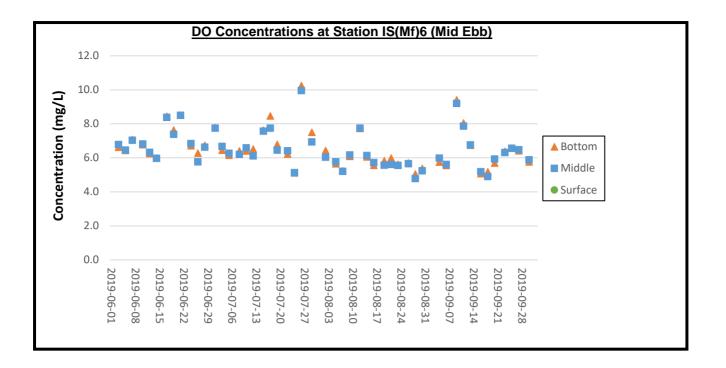
1) As Strong Wind Signal, No. 3 was hoisted on 31 July 2019. The water quality monitoring for mid-ebb tide on 31 July 2019 was cancelled due to safety reason.

2) As Strong Wind Signal, No. 3 /Standby Signal No.1 was hoisted on 2 September 2019. The water quality monitoring for mid-ebb tide on 2 September 2019 was cancelled due to safety reason.



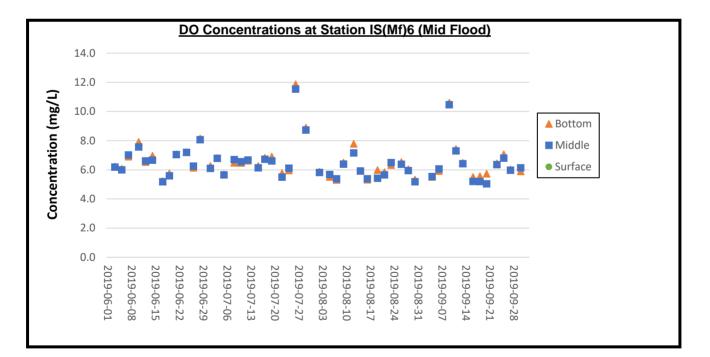
Remarks:

1) As Strong Wind Signal, No. 3 was hoisted on 31 July 2019. The water quality monitoring for mid-flood tide on 31 July 2019 was cancelled due to safety reason.



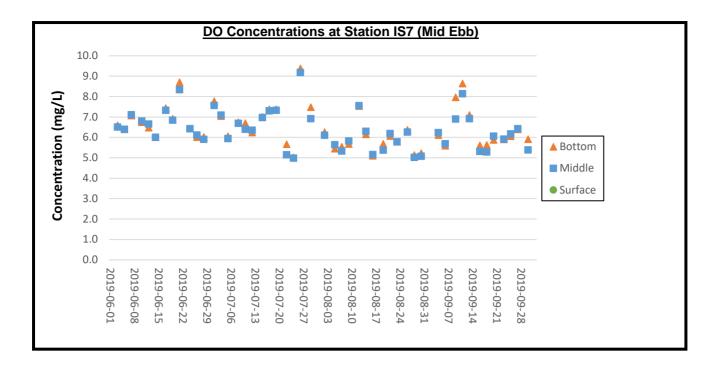
1) As Strong Wind Signal, No. 3 was hoisted on 31 July 2019. The water quality monitoring for mid-ebb tide on 31 July 2019 was cancelled due to safety reason.

2) As Strong Wind Signal, No. 3 /Standby Signal No.1 was hoisted on 2 September 2019. The water quality monitoring for mid-ebb tide on 2 September 2019 was cancelled due to safety reason.



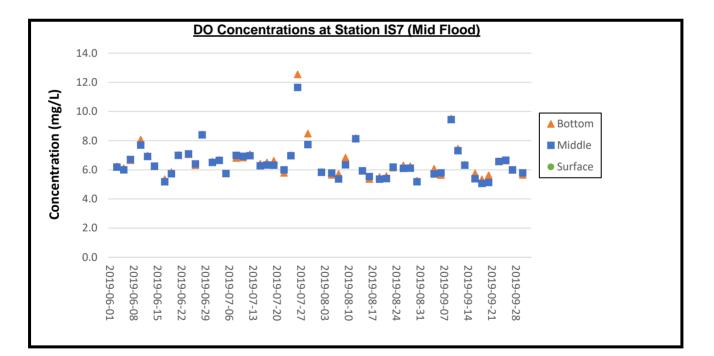
Remarks:

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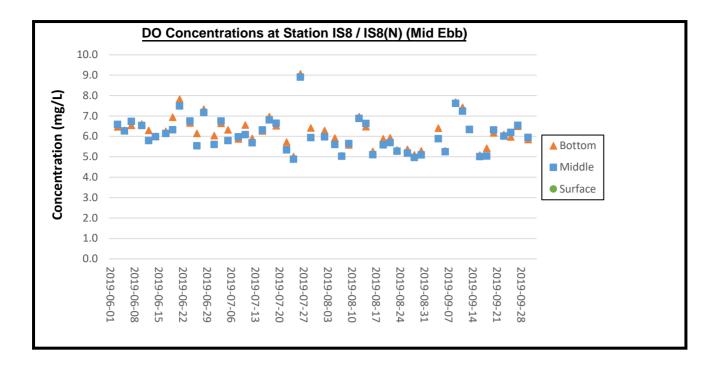
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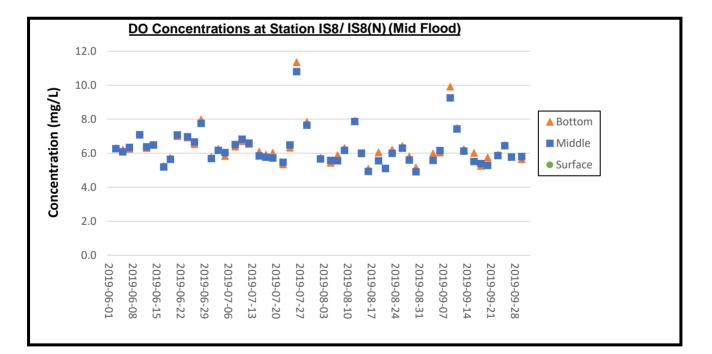
Remarks:

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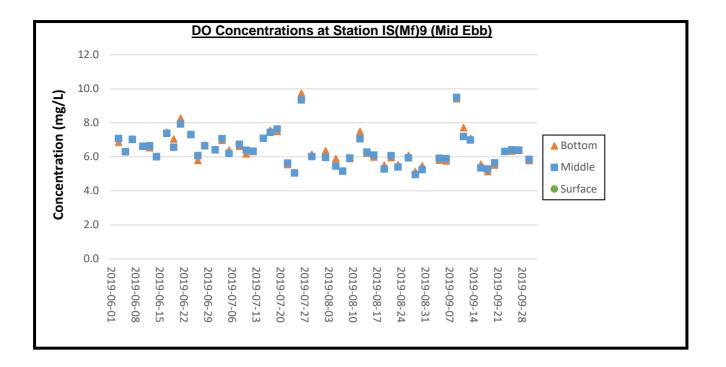
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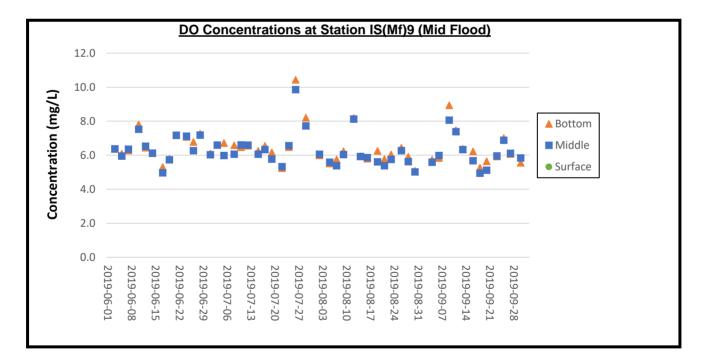
Remarks:

1) As Strong Wind Signal, No. 3 was hoisted on 31 July 2019. The water quality monitoring for mid-flood tide on 31 July 2019 was cancelled due to safety reason.



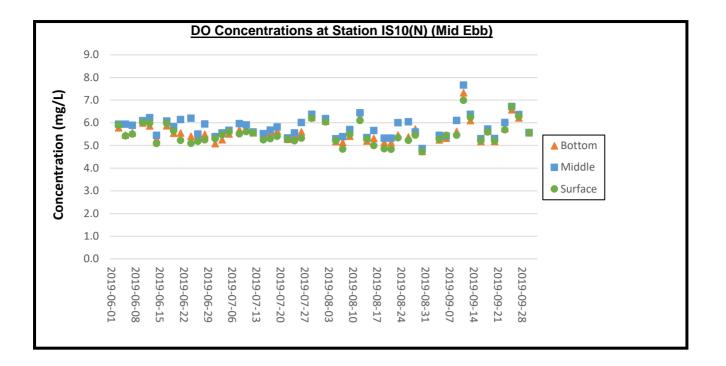
1) As Strong Wind Signal, No. 3 was hoisted on 31 July 2019. The water quality monitoring for mid-ebb tide on 31 July 2019 was cancelled due to safety reason.

2) As Strong Wind Signal, No. 3 /Standby Signal No.1 was hoisted on 2 September 2019. The water quality monitoring for mid-ebb tide on 2 September 2019 was cancelled due to safety reason.



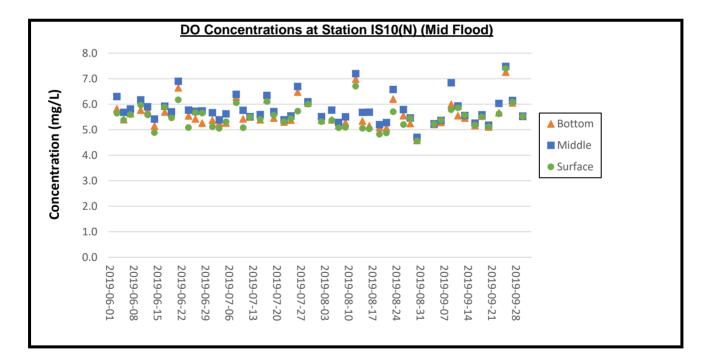
Remarks:

1) As Strong Wind Signal, No. 3 was hoisted on 31 July 2019. The water quality monitoring for mid-flood tide on 31 July 2019 was cancelled due to safety reason.



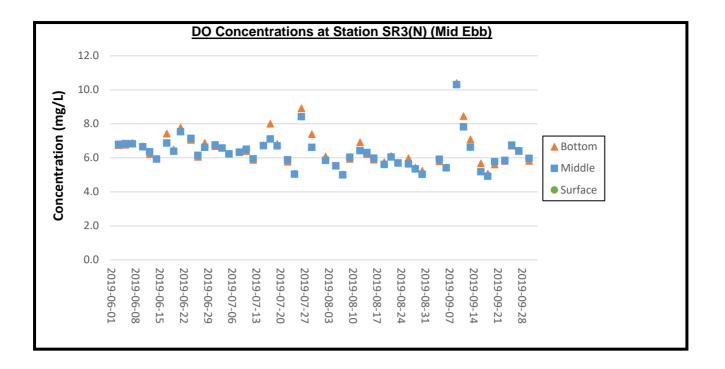
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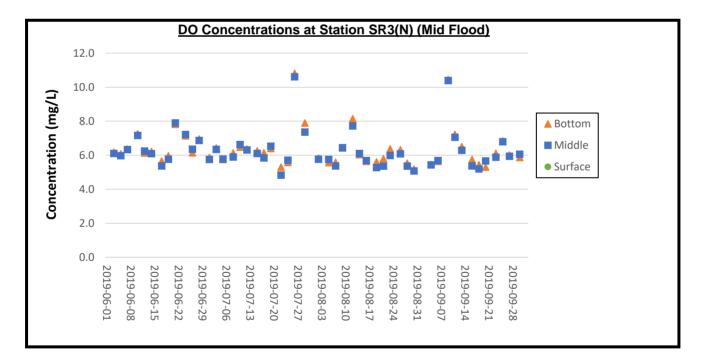
Remarks:

1) As Strong Wind Signal, No. 3 was hoisted on 31 July 2019. The water quality monitoring for mid-flood tide on 31 July 2019 was cancelled due to safety reason.



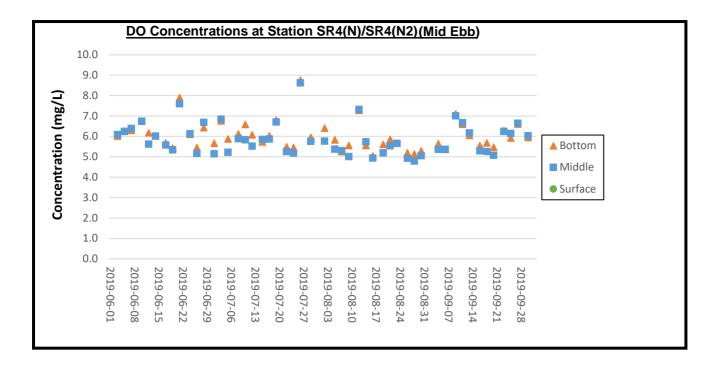
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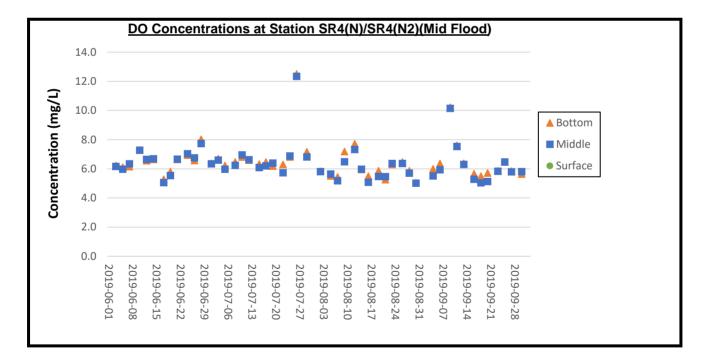
Remarks:

1) As Strong Wind Signal, No. 3 was hoisted on 31 July 2019. The water quality monitoring for mid-flood tide on 31 July 2019 was cancelled due to safety reason.



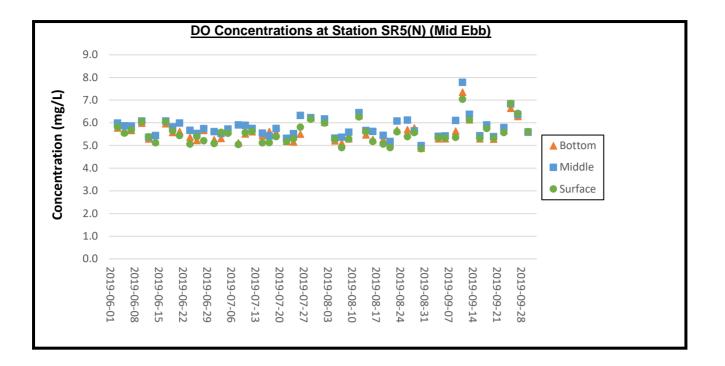
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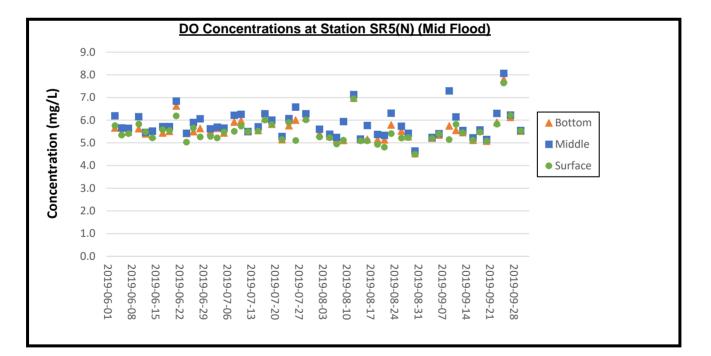
Remarks:

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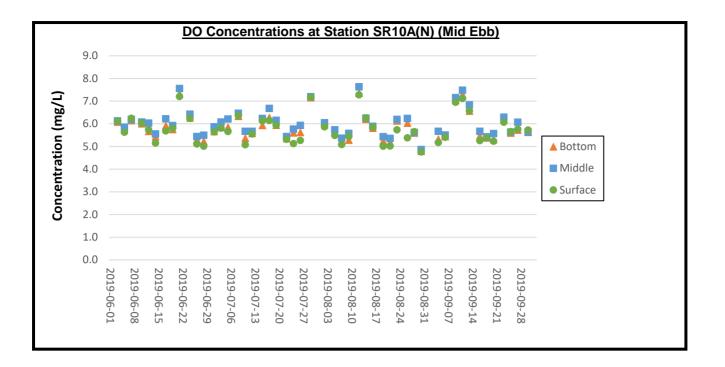
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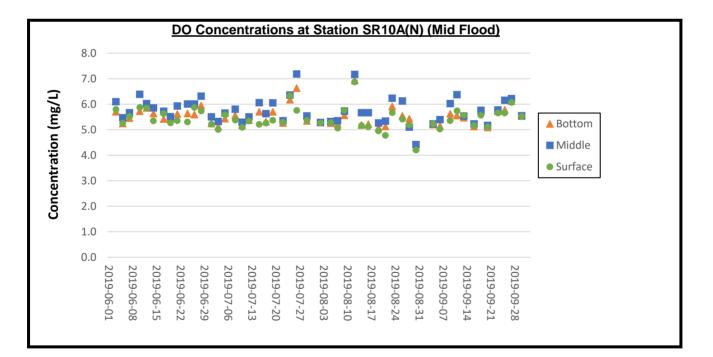
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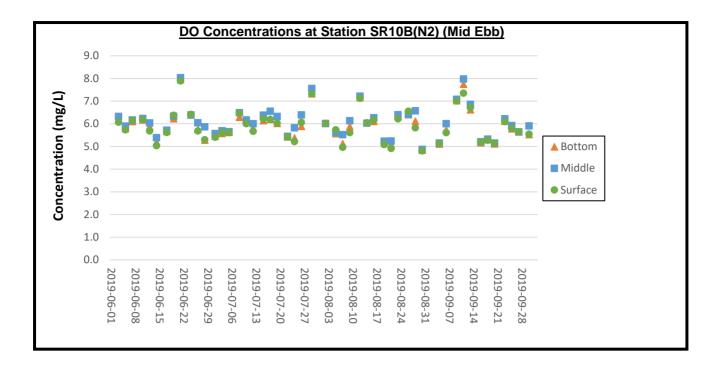
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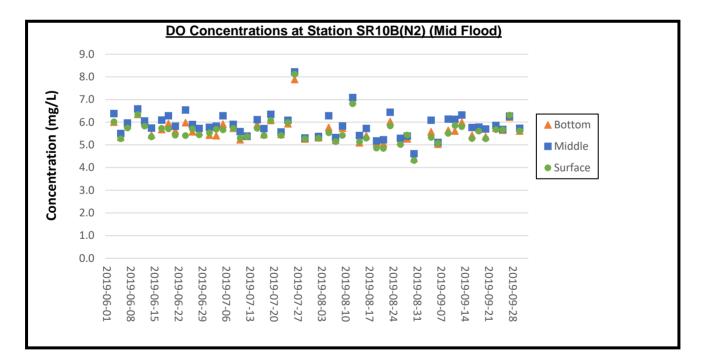
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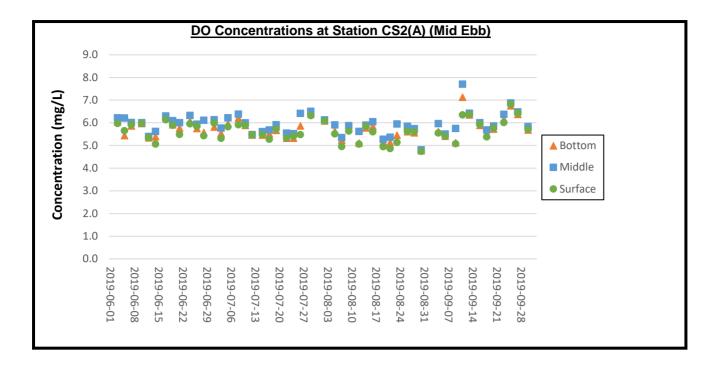
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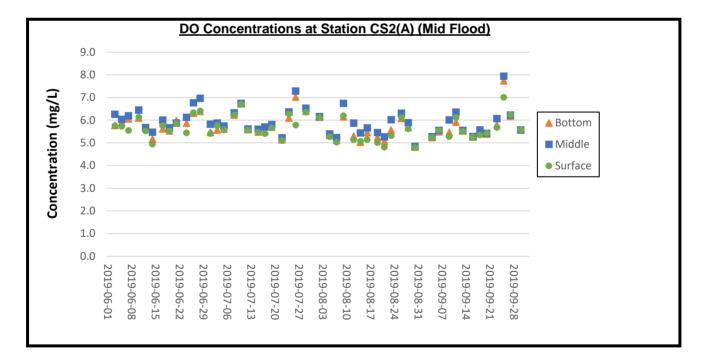
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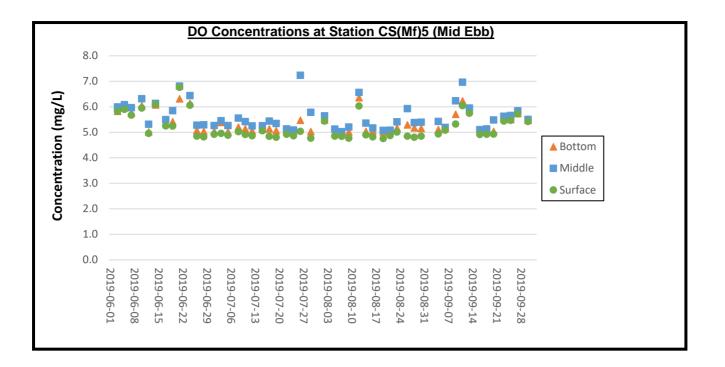
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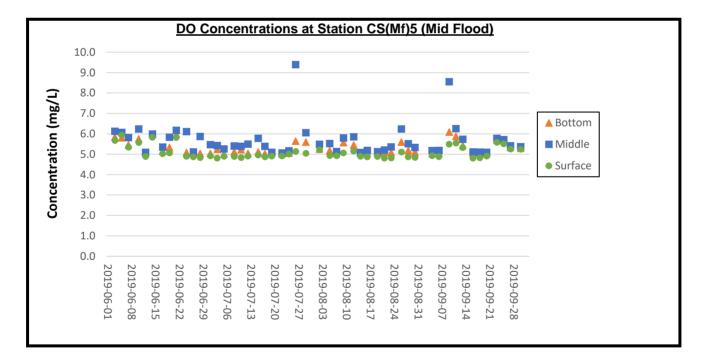
Remarks:

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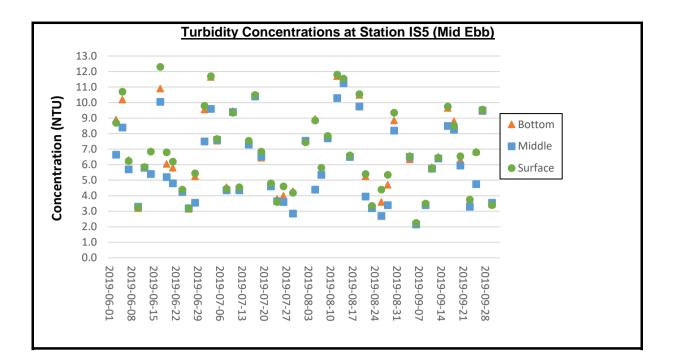
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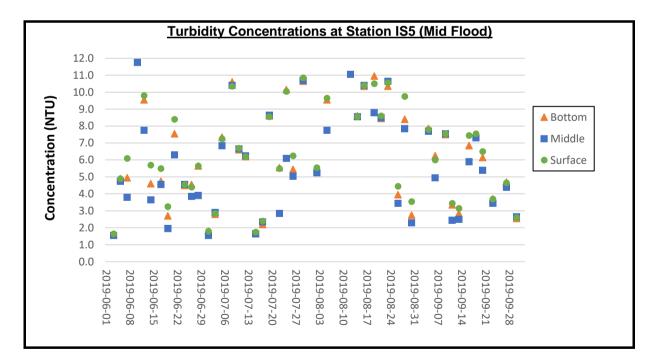
Remarks:

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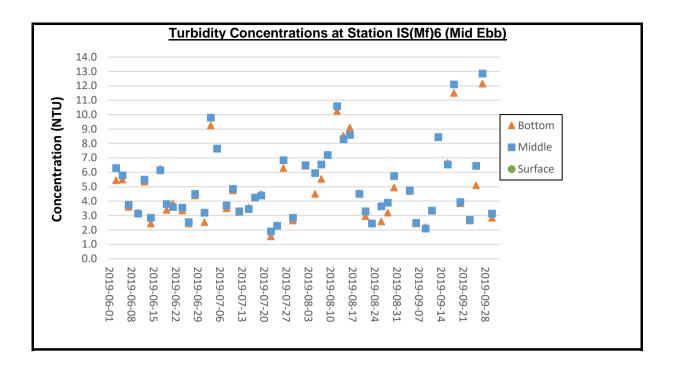
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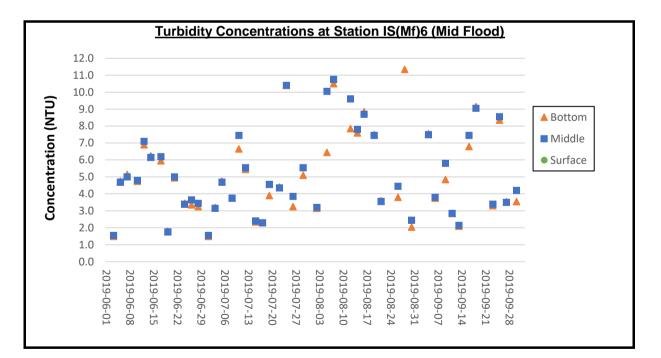
Remarks:

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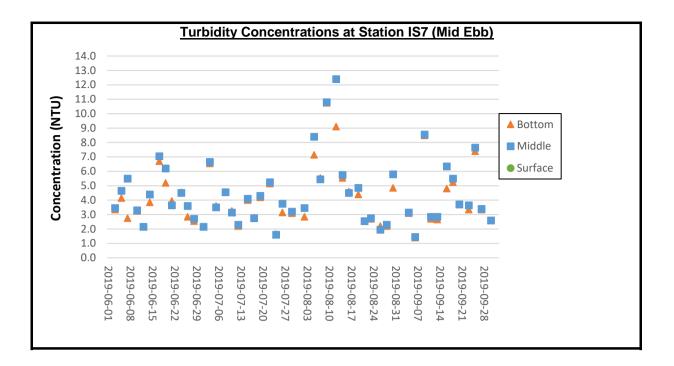
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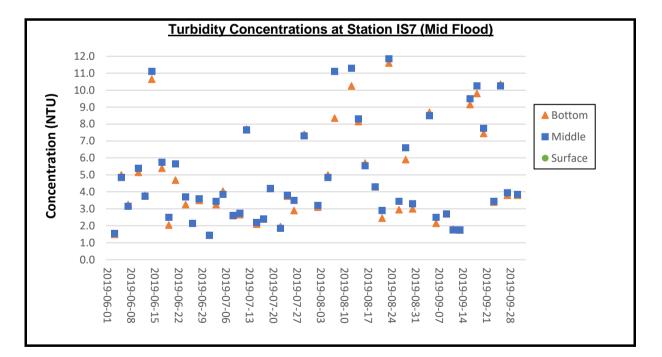
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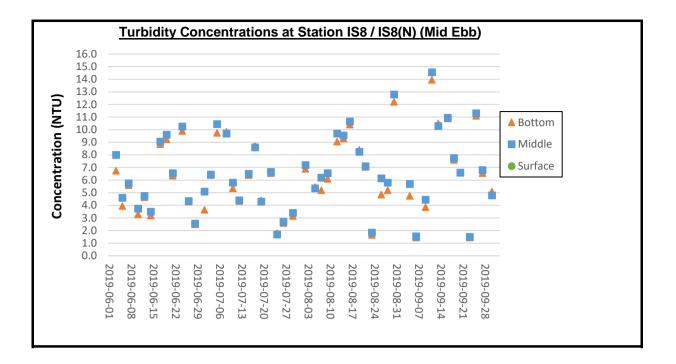
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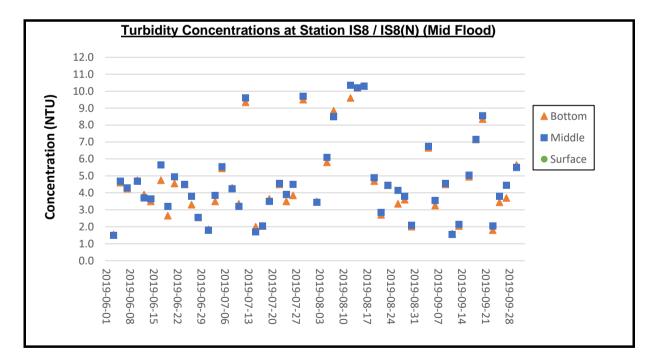
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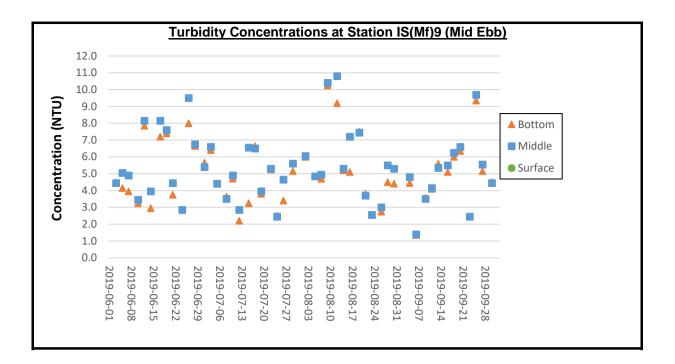
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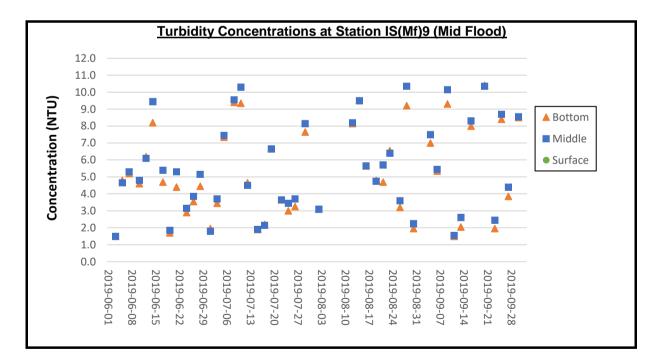
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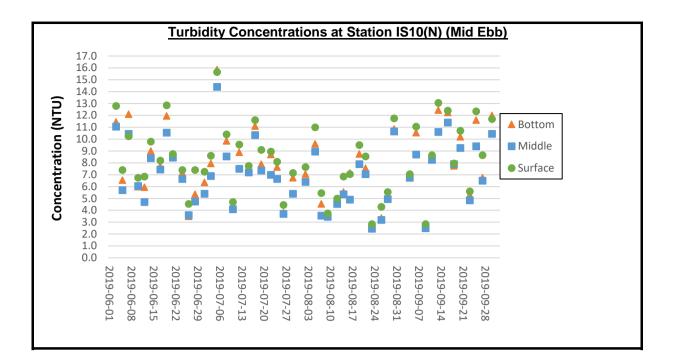
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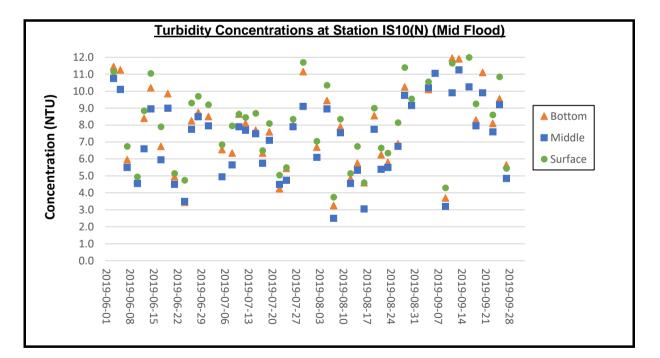
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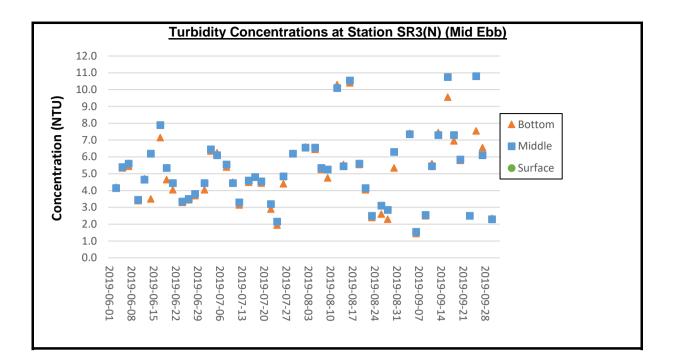
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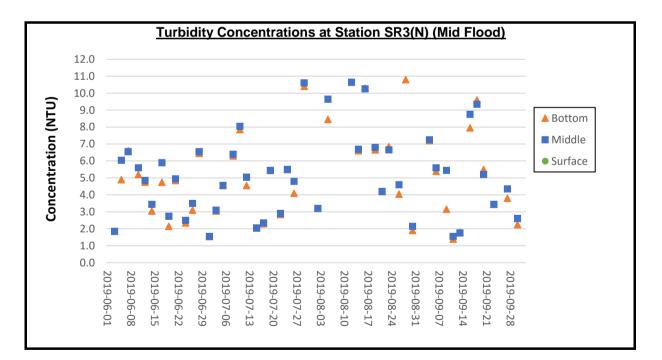
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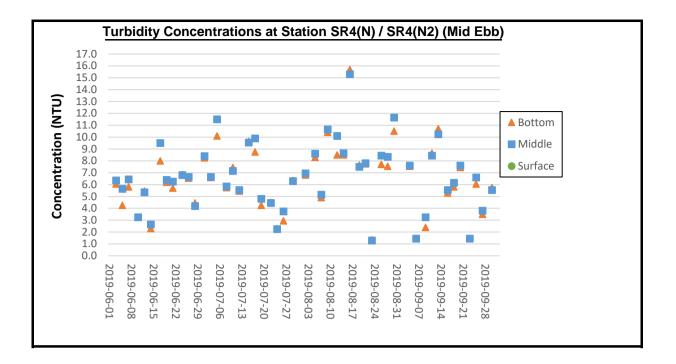
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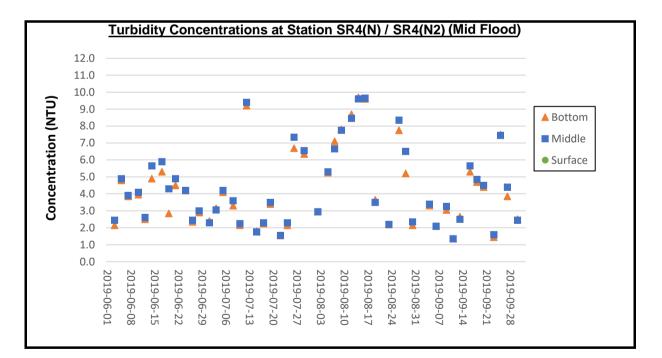
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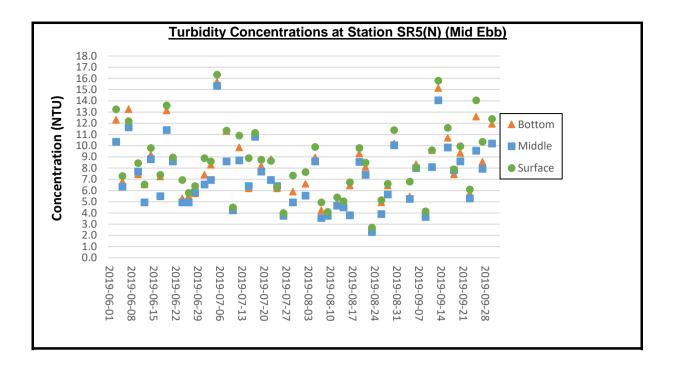
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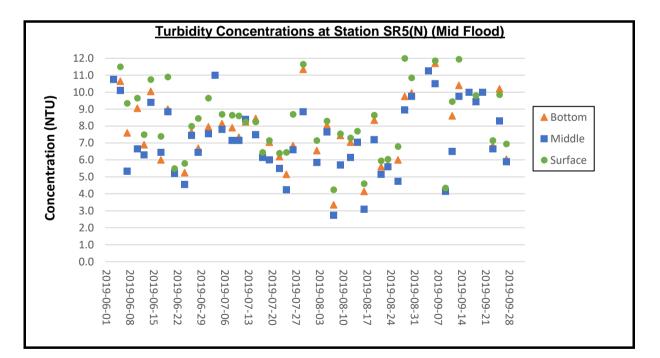
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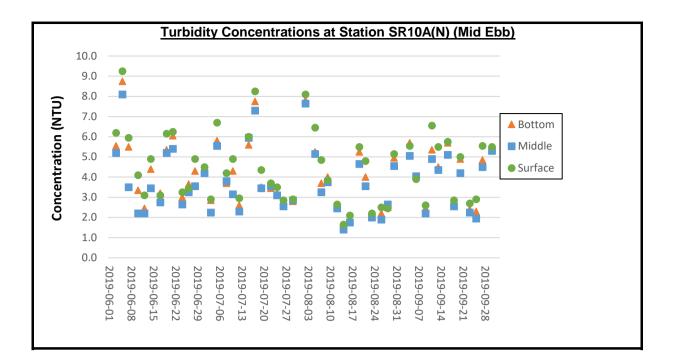
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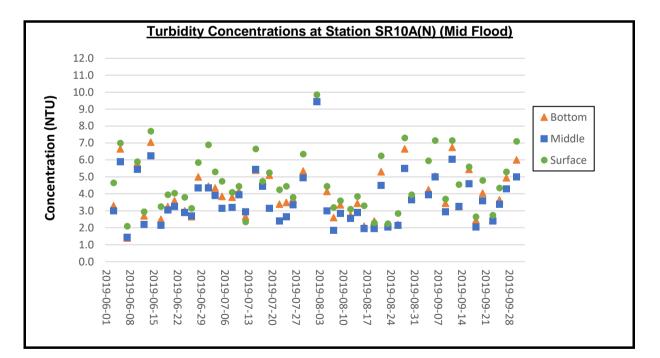
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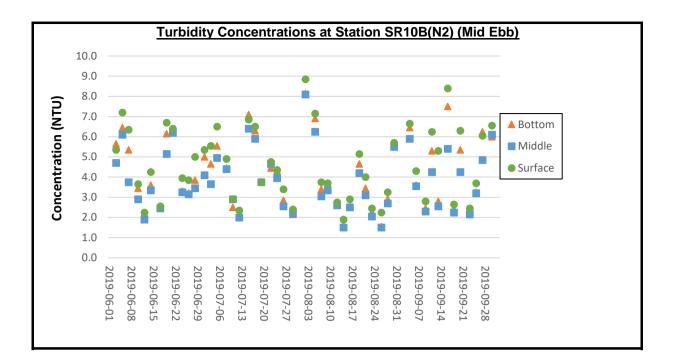
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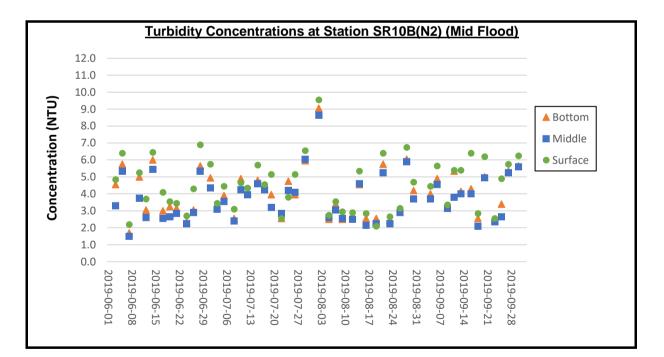
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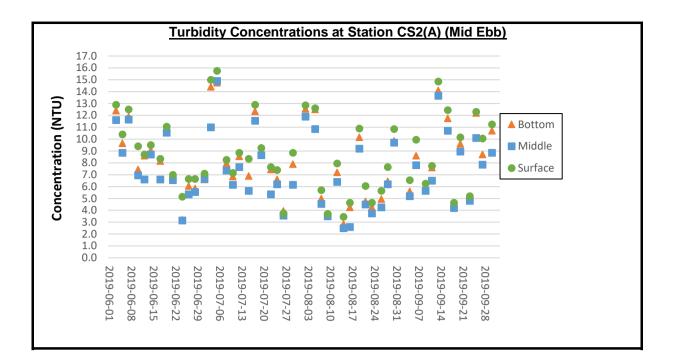
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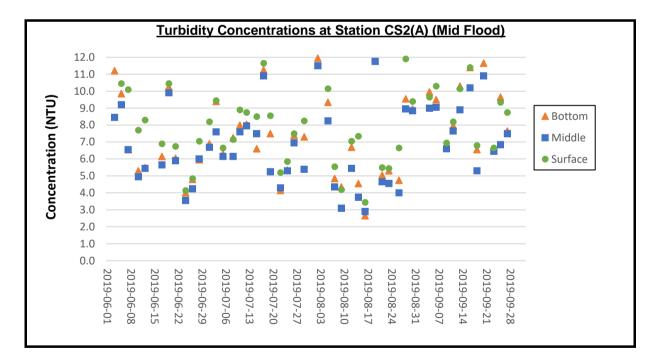
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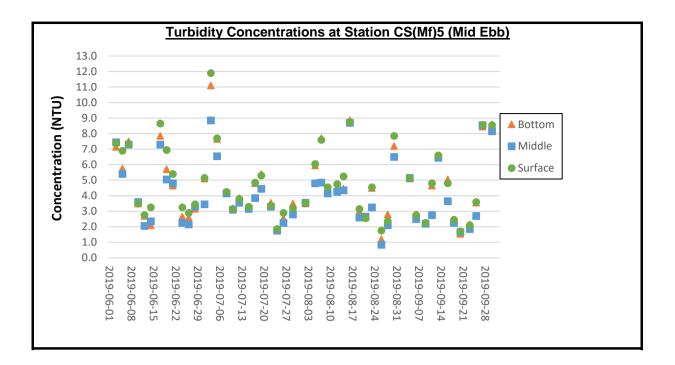
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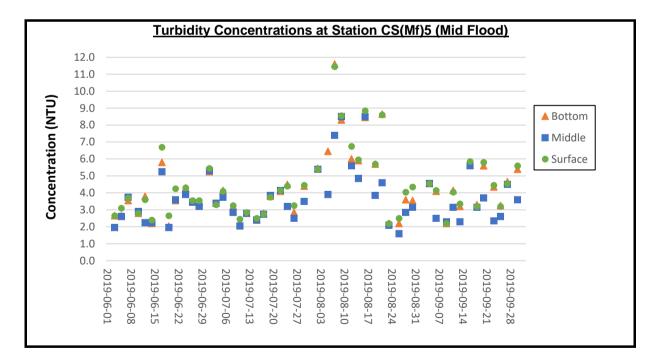
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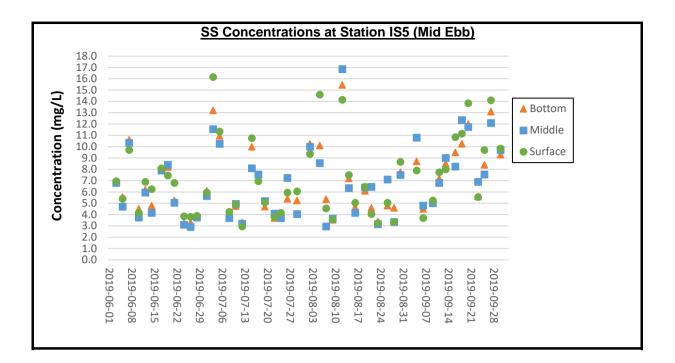
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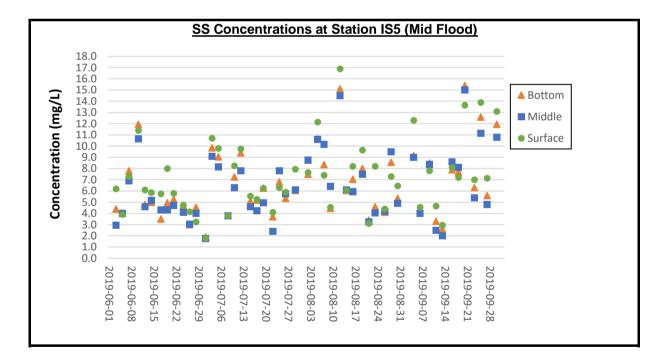
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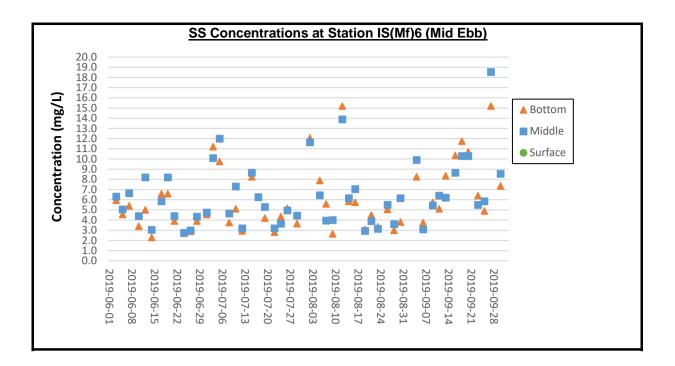
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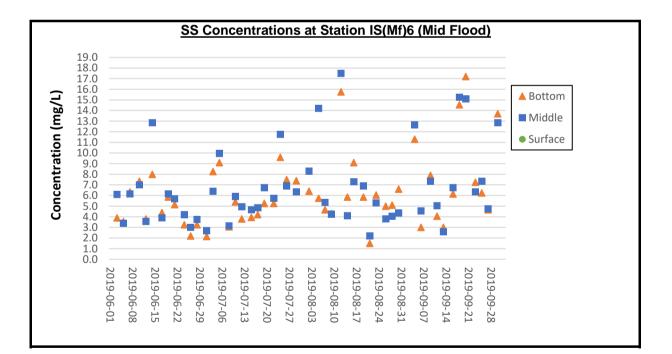
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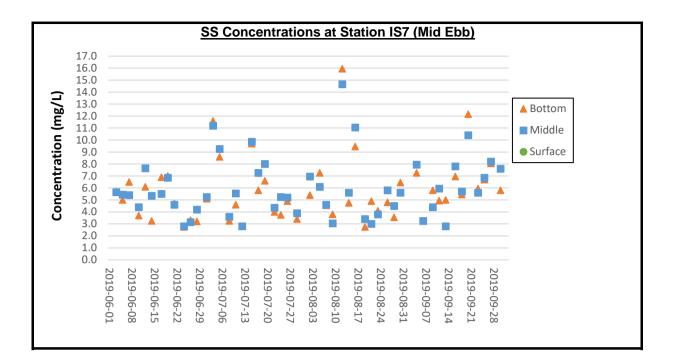
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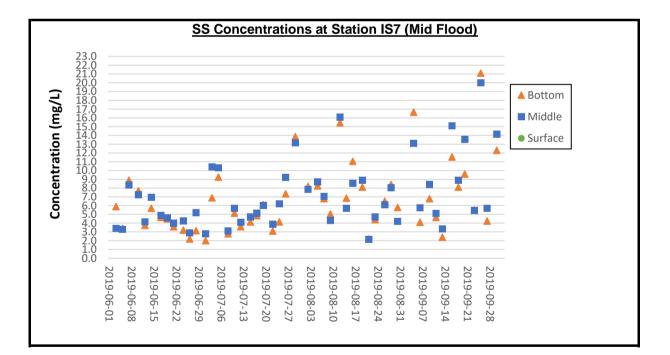
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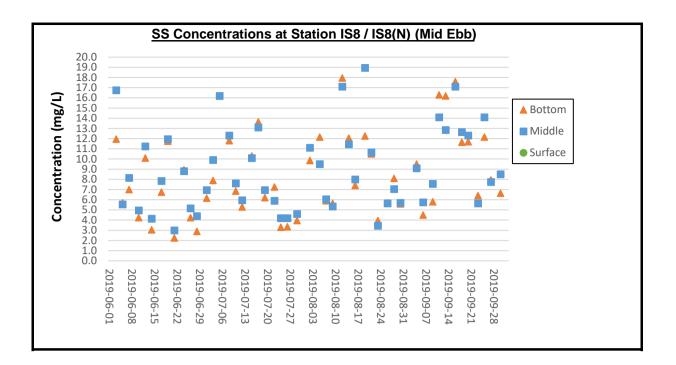
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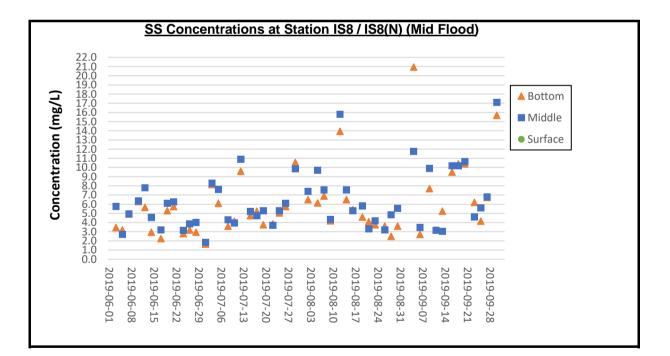
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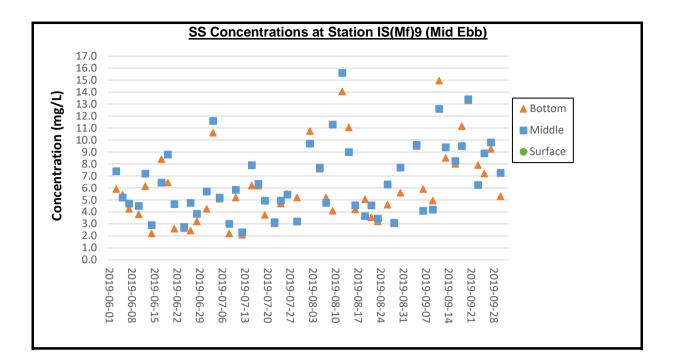
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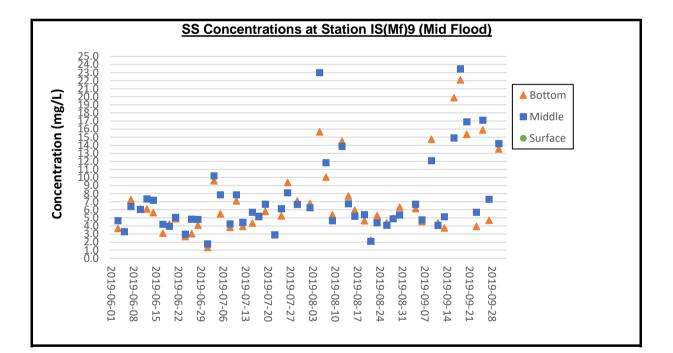
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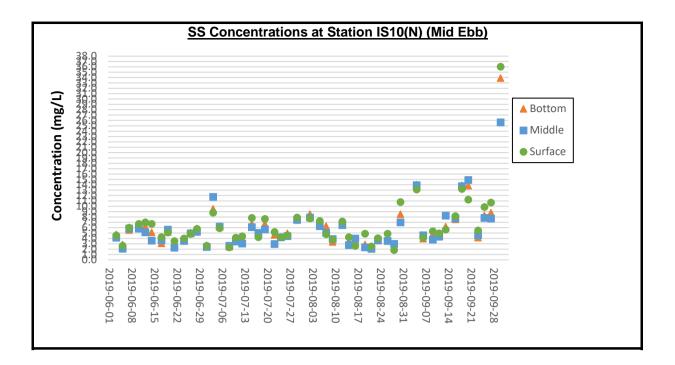
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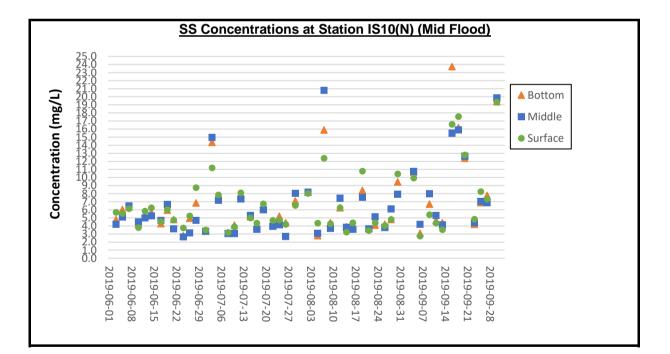
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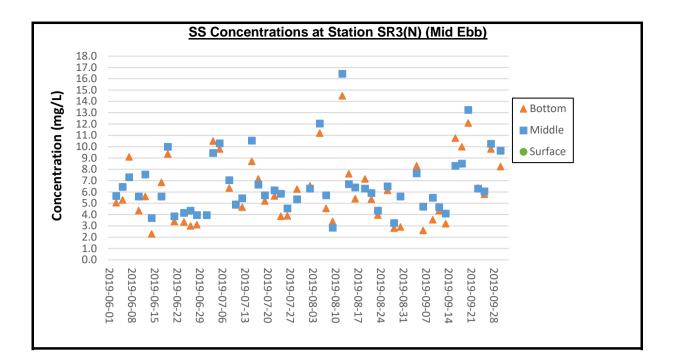
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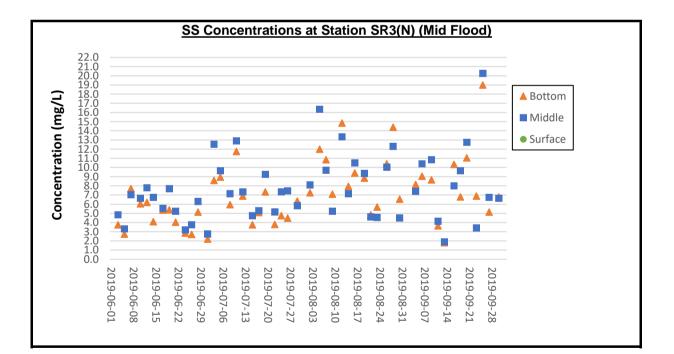
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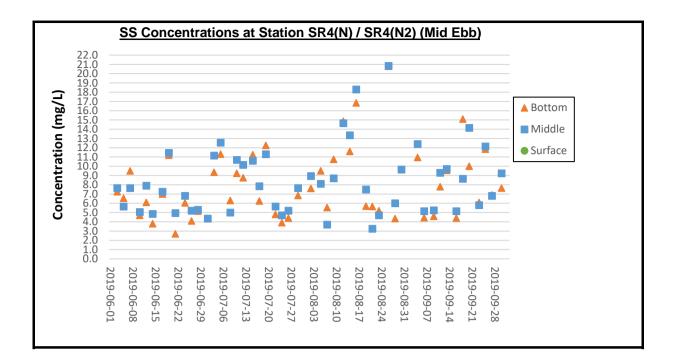
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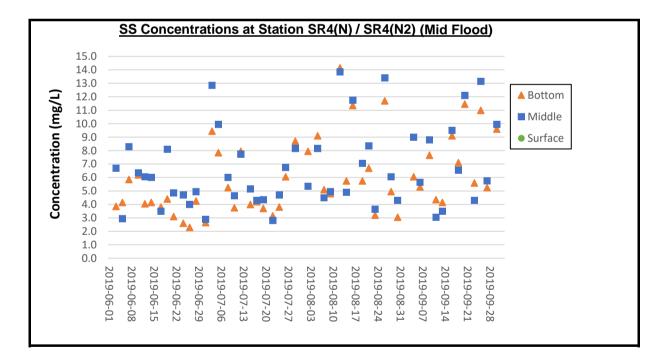
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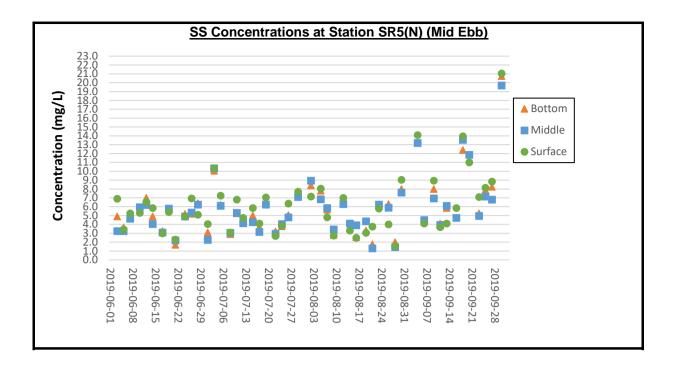
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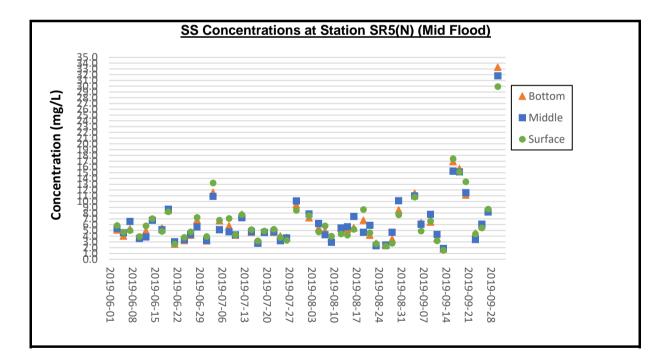
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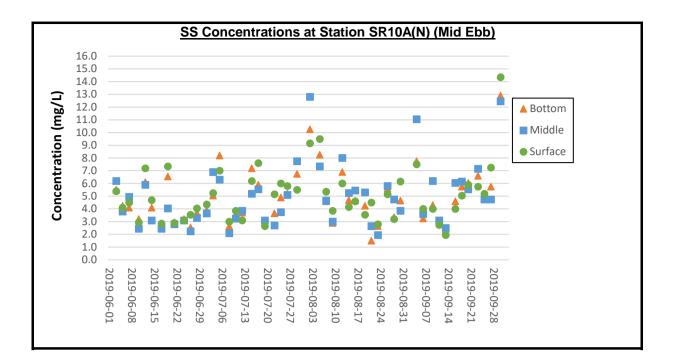
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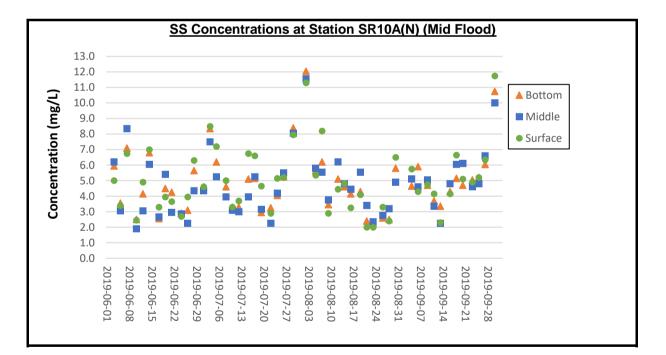
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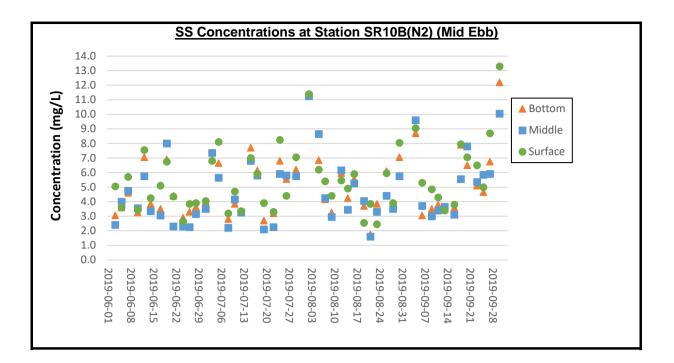
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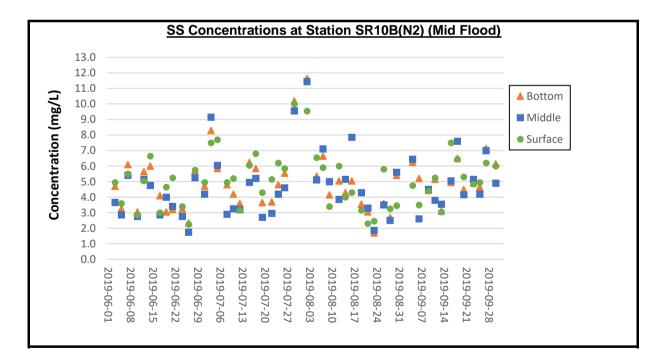
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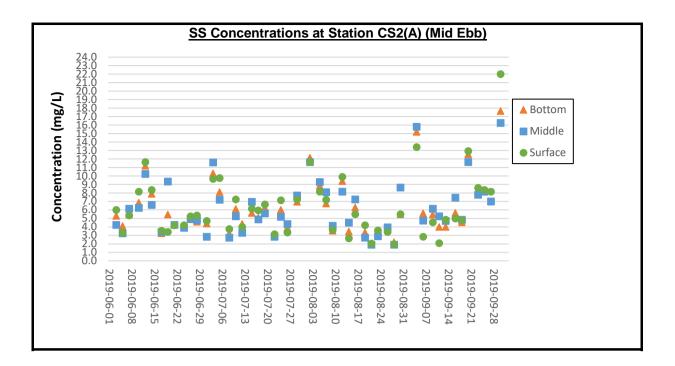
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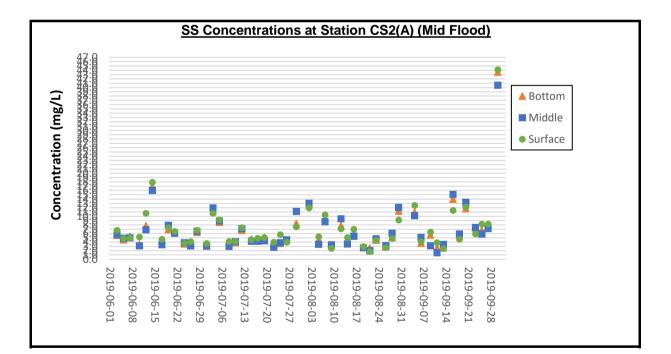
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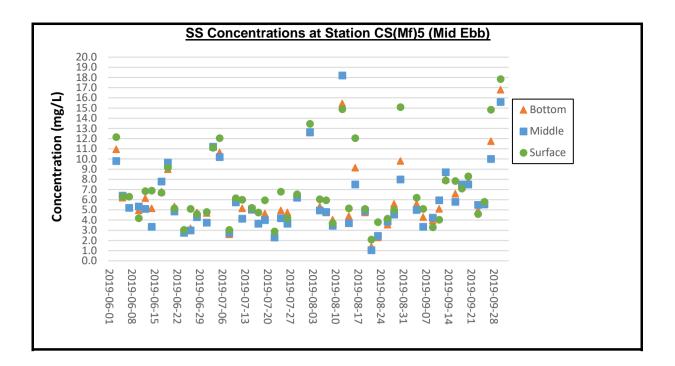
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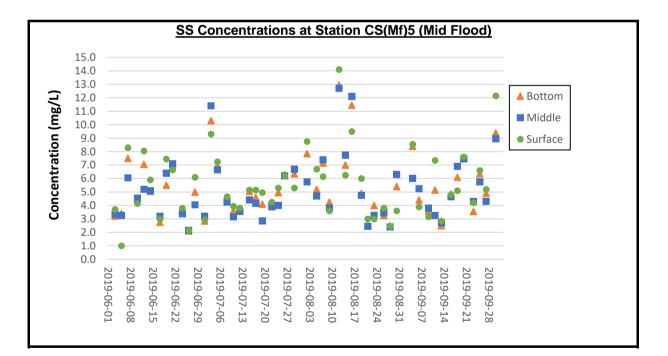
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APPENDIX F

Event and Action Plan



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

Event and Action Plan for Air Quality

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

Event and	Action				
Event	ET Leader	IEC	SO	Contractor	
Action level being exceeded by one sampling day	 Repeat in situ measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor and SO; Check monitoring data, all plant, equipment and Contractor's working methods. 	 Check monitoring data submitted by ET and Contractor's working methods. 	 Confirm receipt of notification of non- compliance in writing; Notify Contractor. 	confirm notification of	
being exceeded by	 Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, SO and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Action level. 	 submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the proposed 	the proposed mitigation measures;	 confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working 	
Limit level being exceeded by one sampling day	 Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, SO and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SO and Contractor; 	 submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the proposed 	notification of failure in writing; 2. Discuss with IEC,	 confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working 	

Event and Action Plan for Water Quality

Event	Action					
Event	ET Leader	IEC	SO	Contractor		
Limit level being exceeded by two or more consecutive sampling days	 Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, SO and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SO and Contractor; Ensure mitigation measures are implemented; 	 submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the Contractor's mitigation 	 ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Ensure mitigation measures are 	 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 		

Event and Action Plan for Dolphin Monitoring

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

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

Event and Action Plan for Mudflat Monitoring

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

Action Plan for Landscape Works

Event	ACTION			
	ET Leader	IEC	SO	Contractor
Conflicts occur	 Check Contractor's proposed remedial design conforms to the requirements of EP and prepare checking report(s) 	 Check and endorse ET's report(s). Check and certify Contractor's proposed remedial design 	• Supervise the Contractor to carry out the proposed remediation work	 Propose remedial design and carry out the proposed work

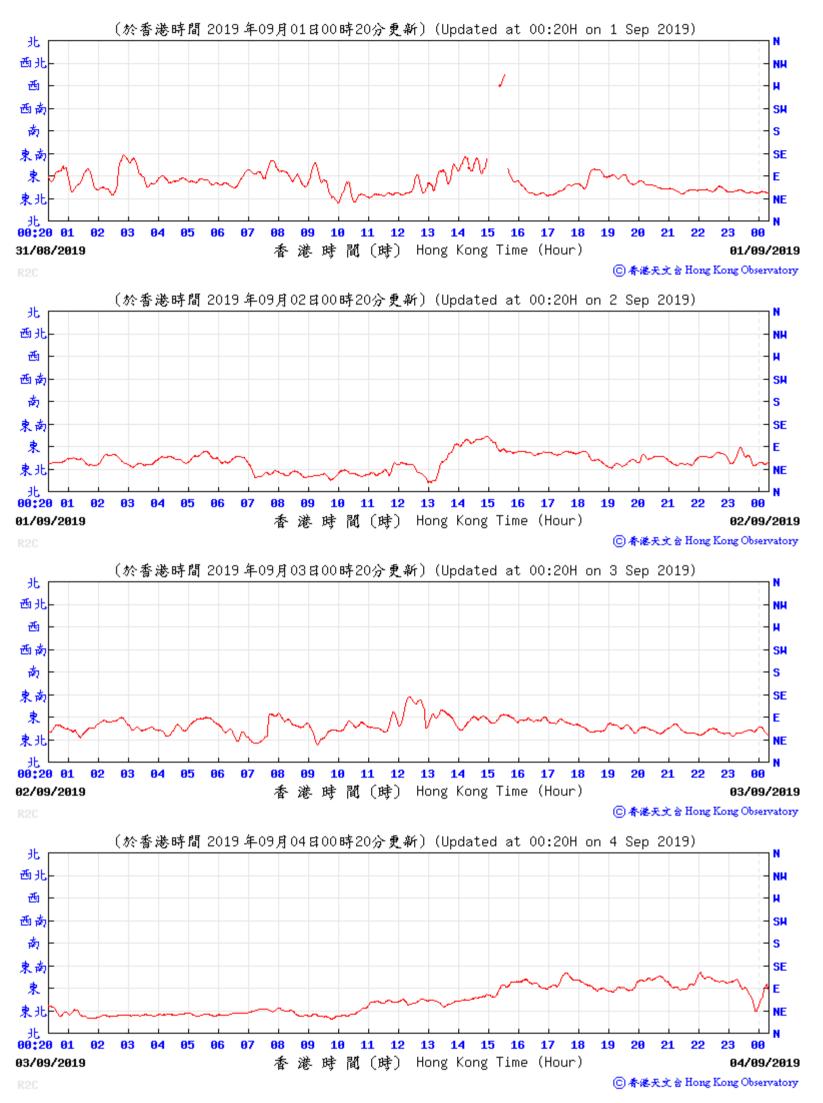


APPENDIX G

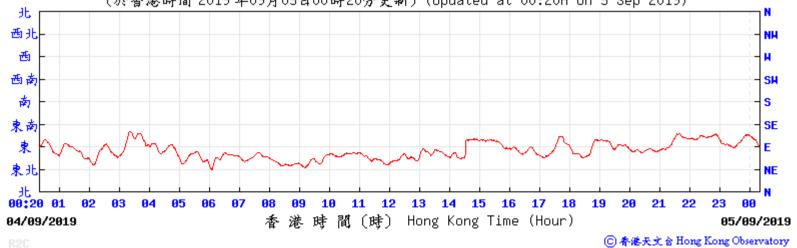
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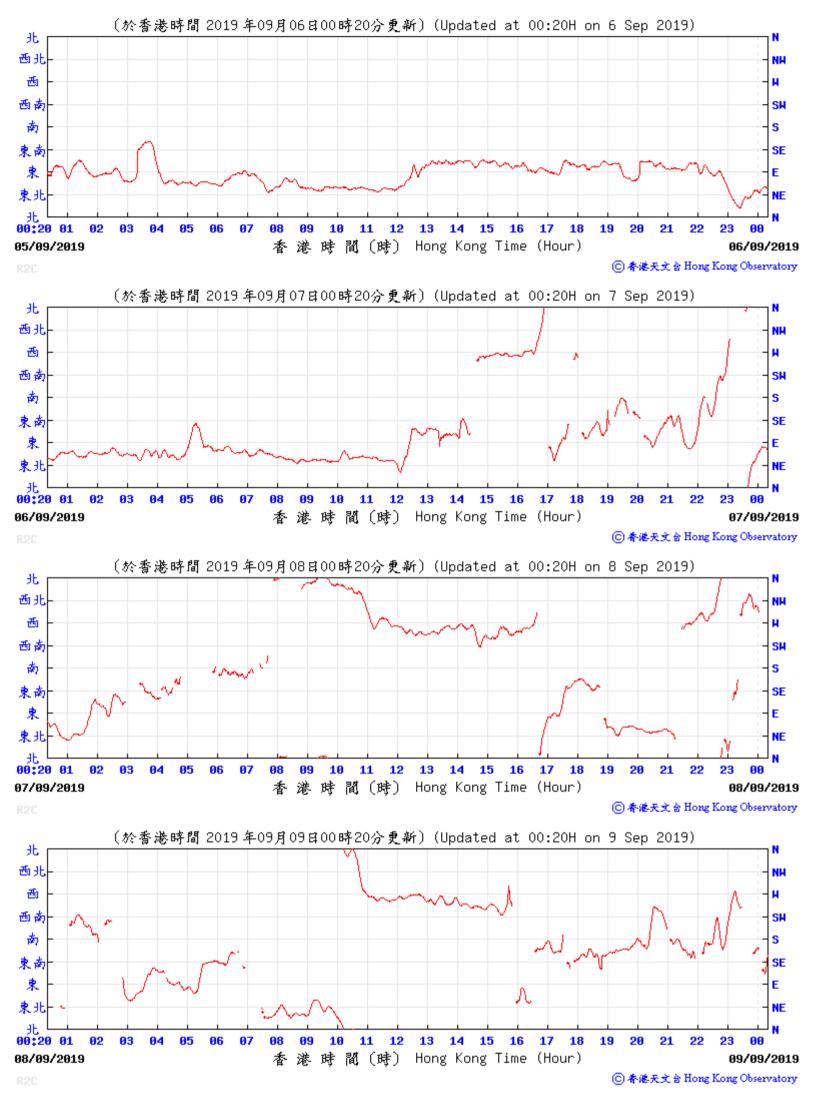




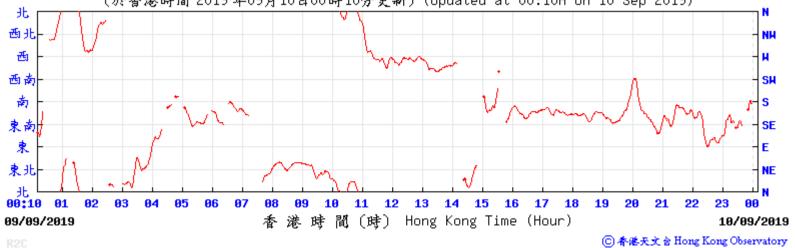


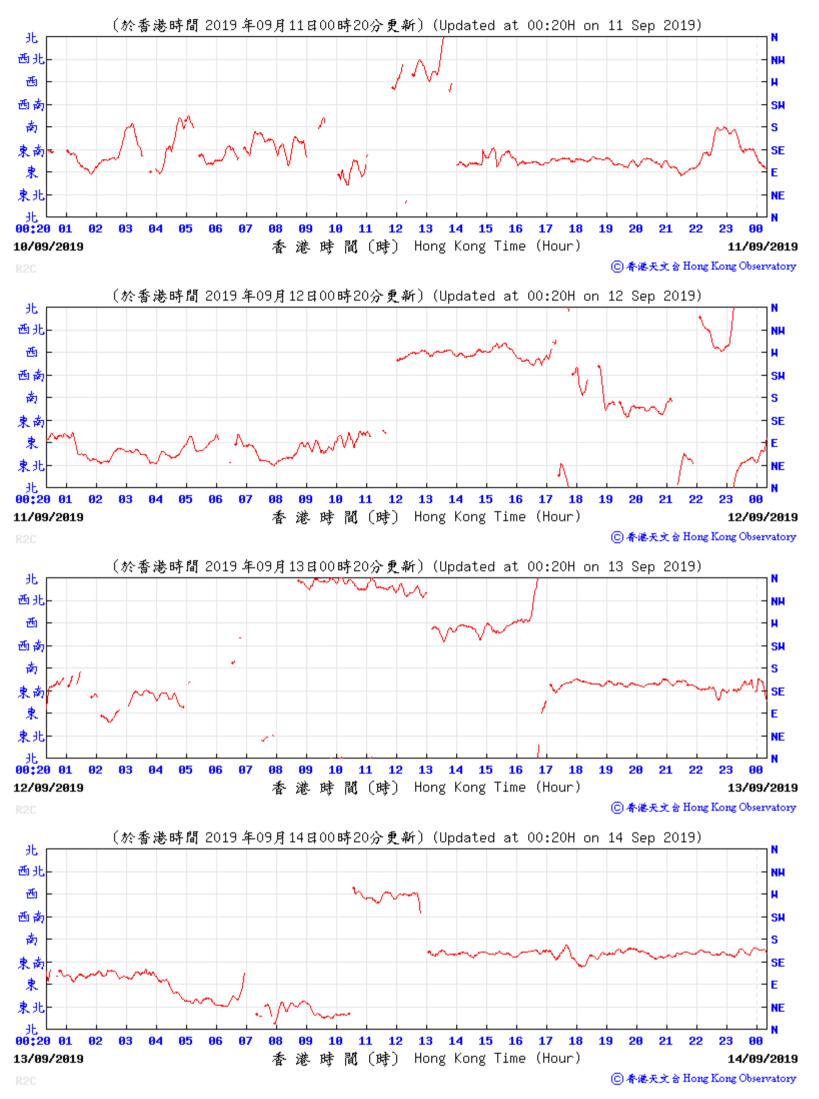
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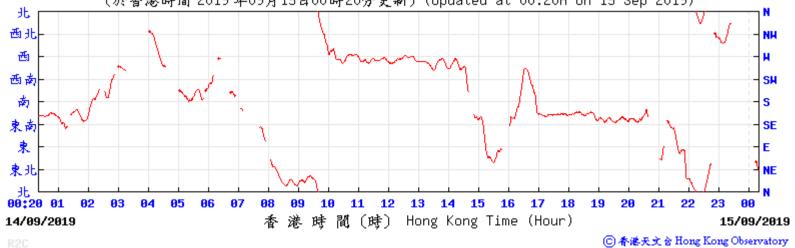


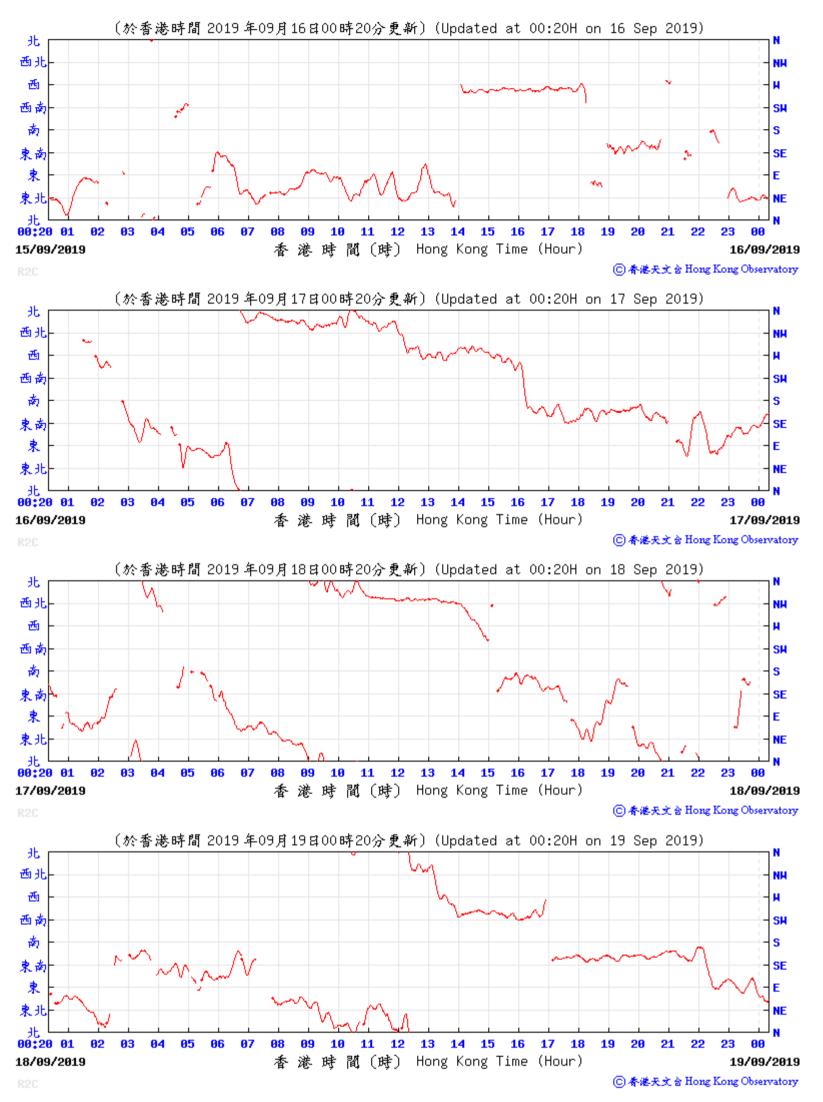
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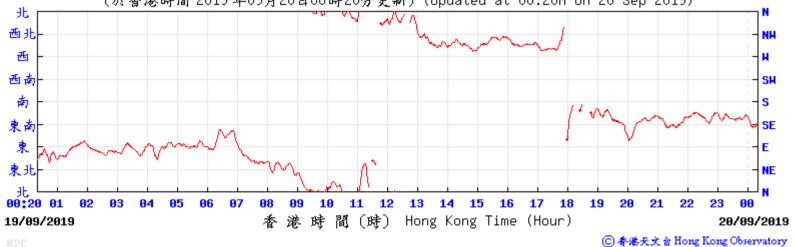


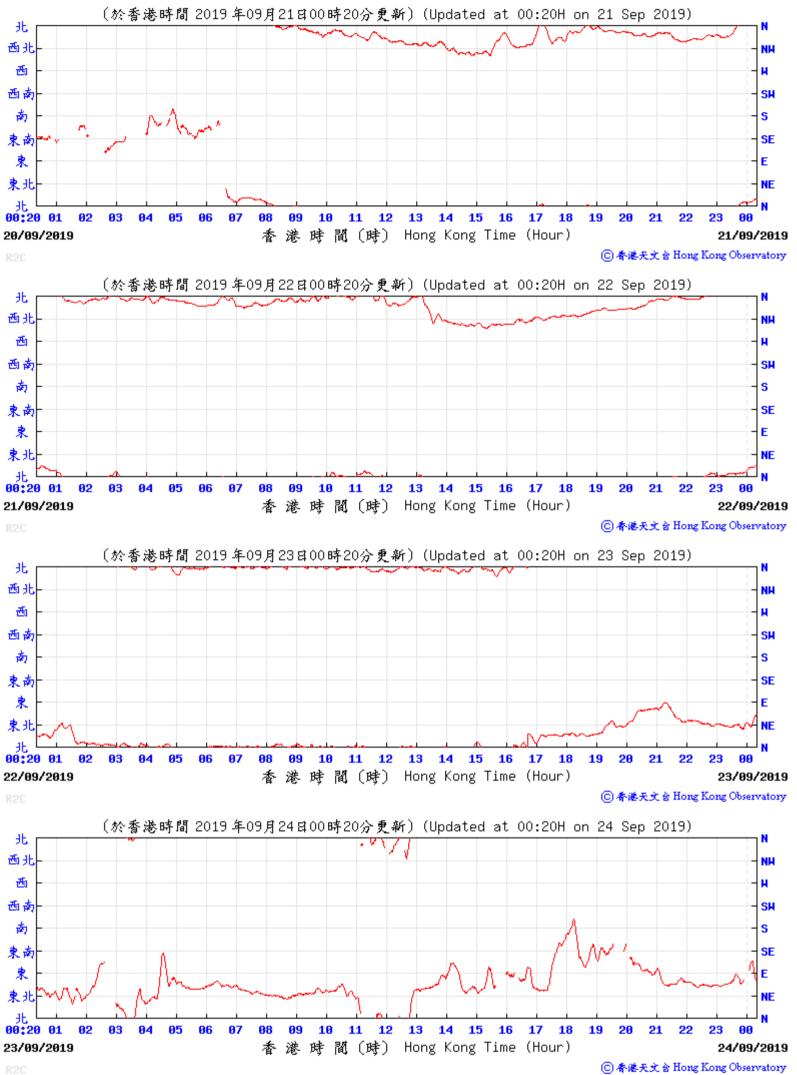
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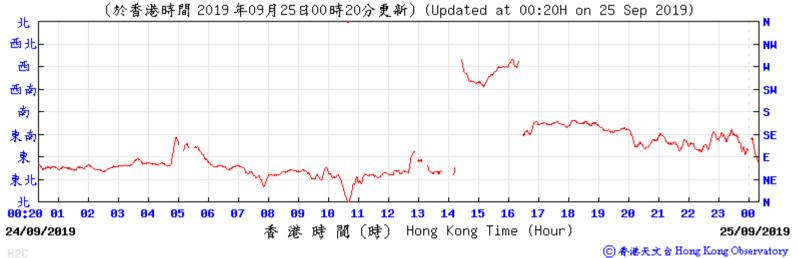


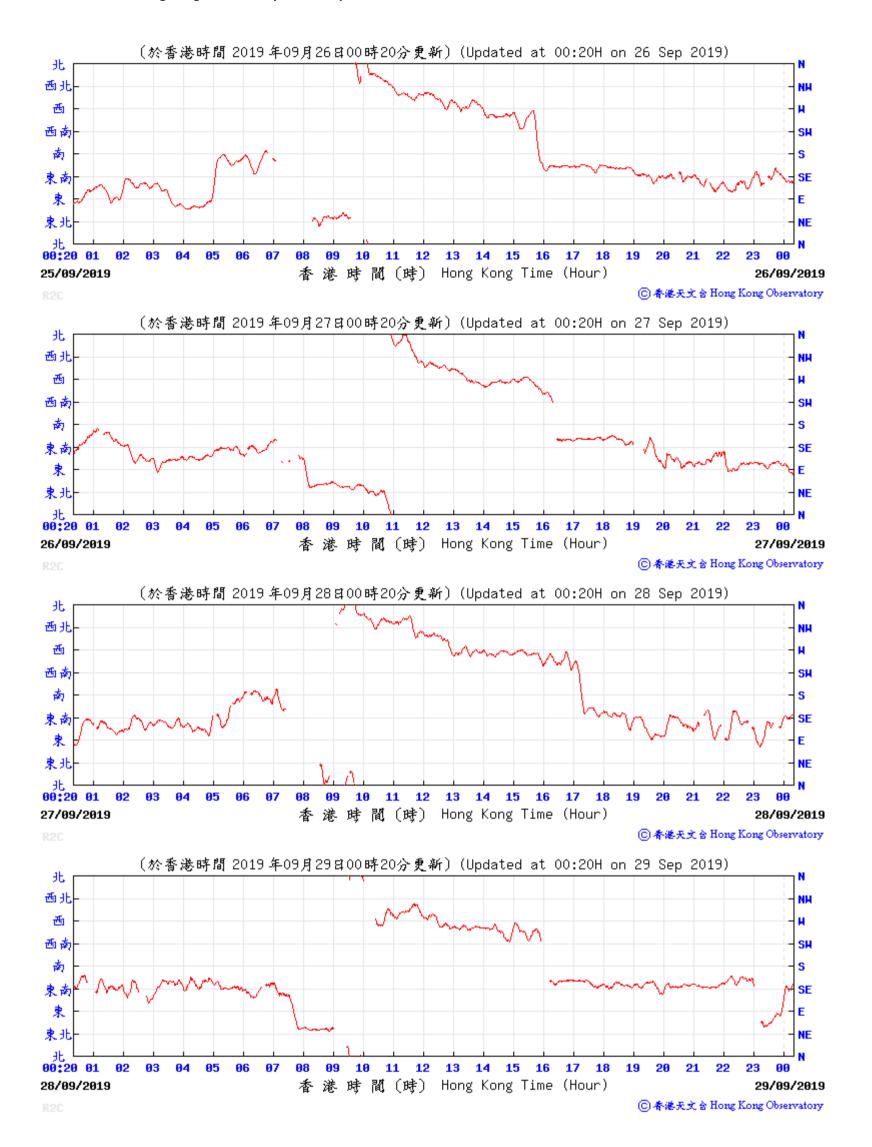


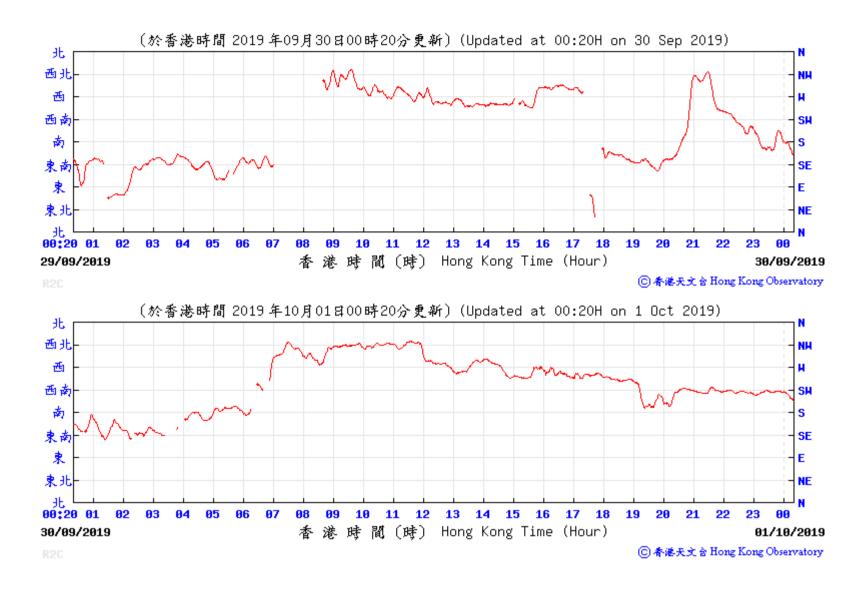
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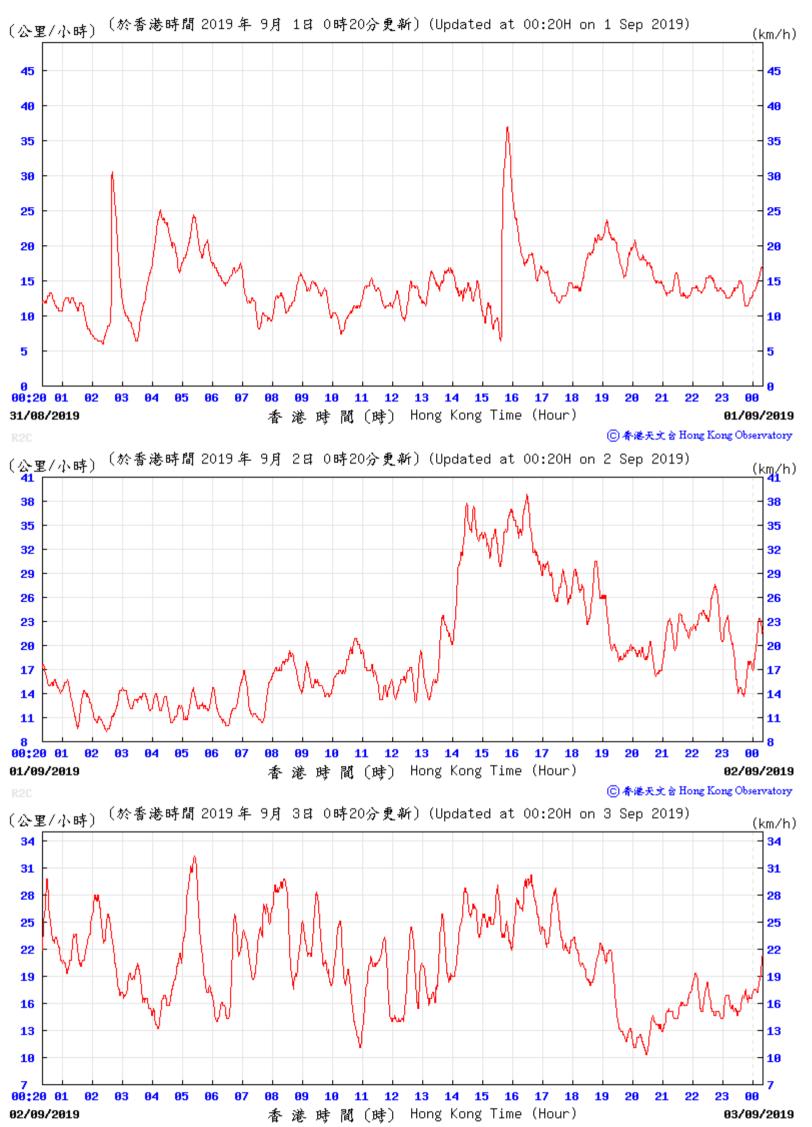




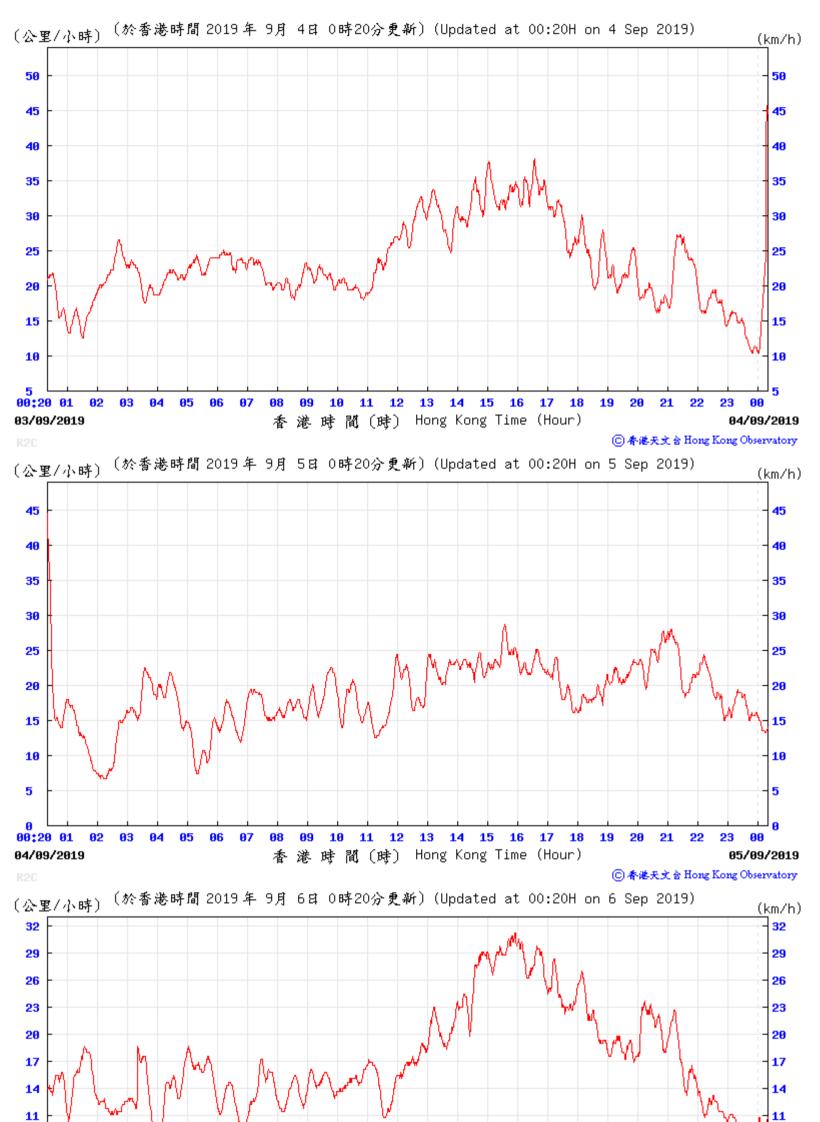


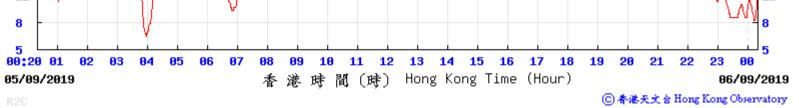


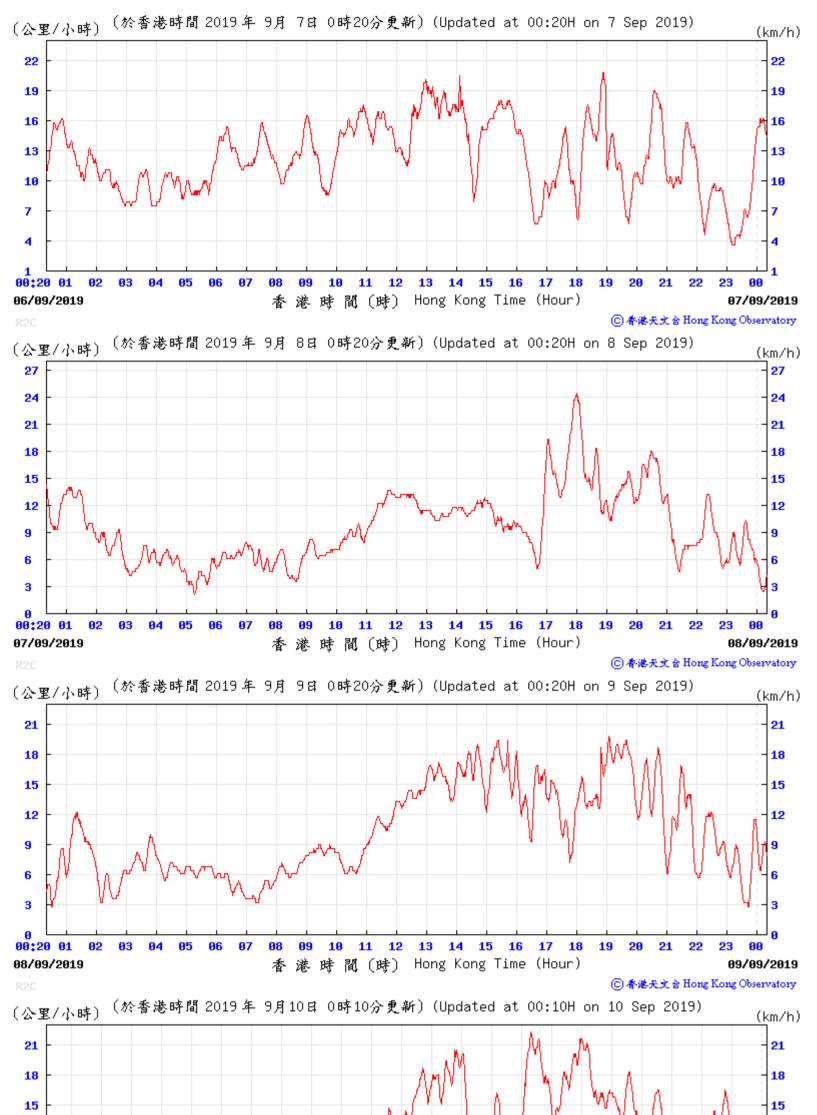


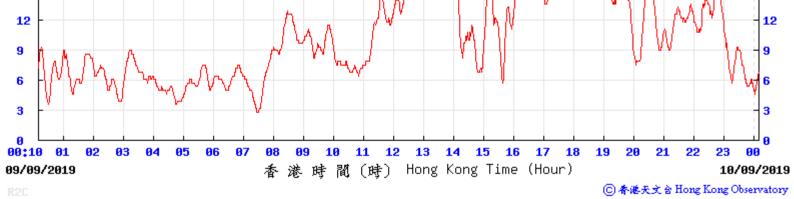


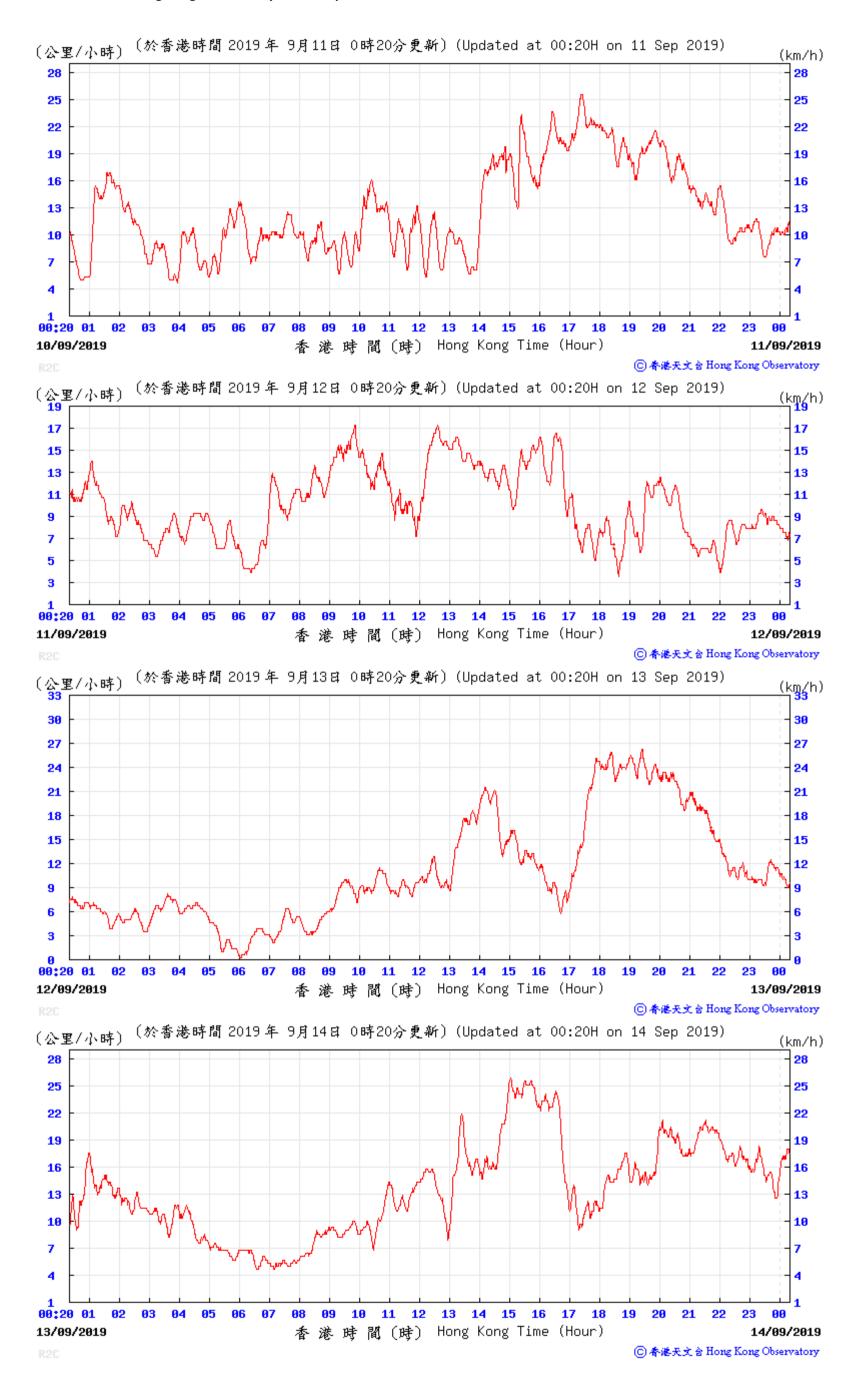
⑥ 春港天文 含 Hong Kong Observatory

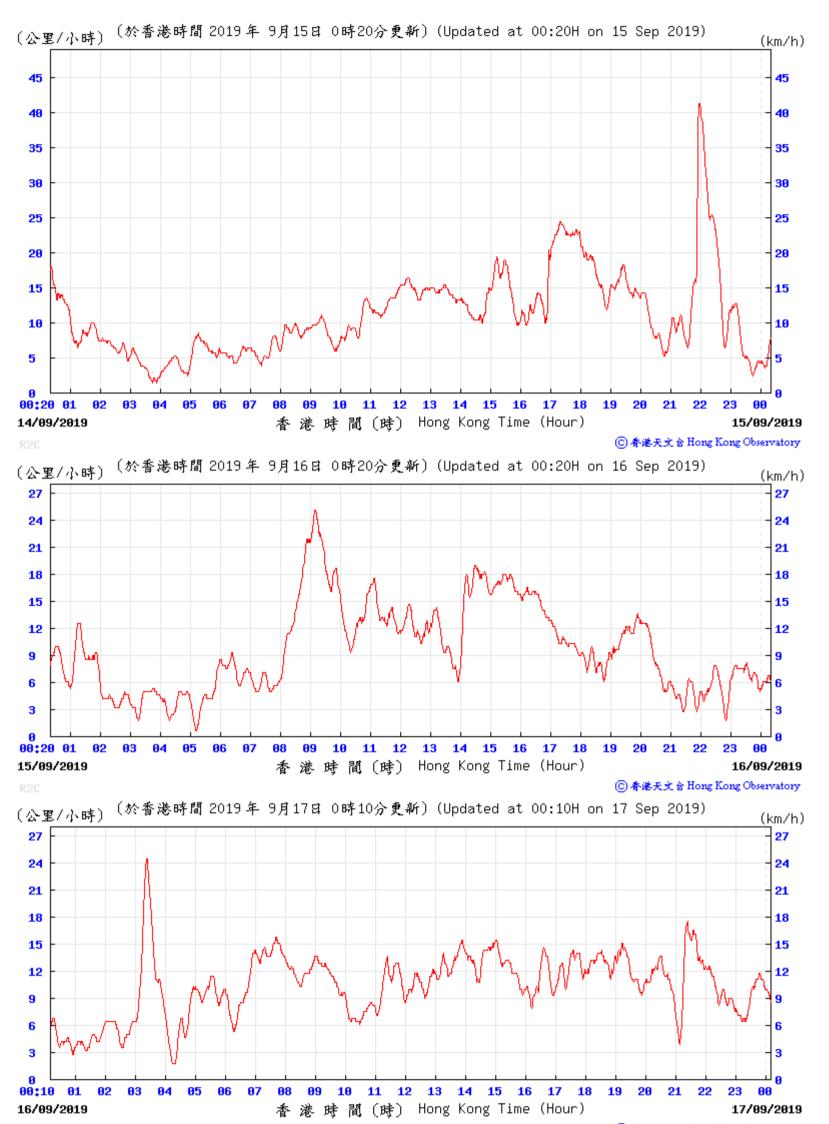




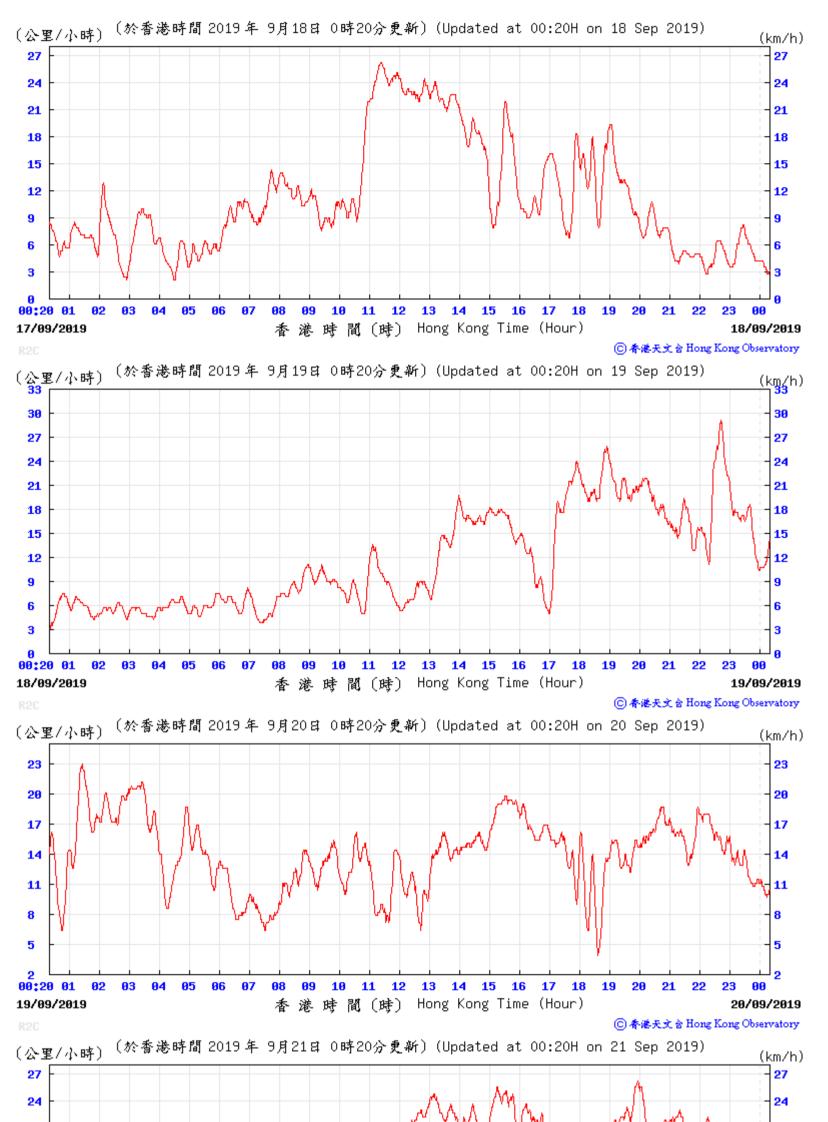


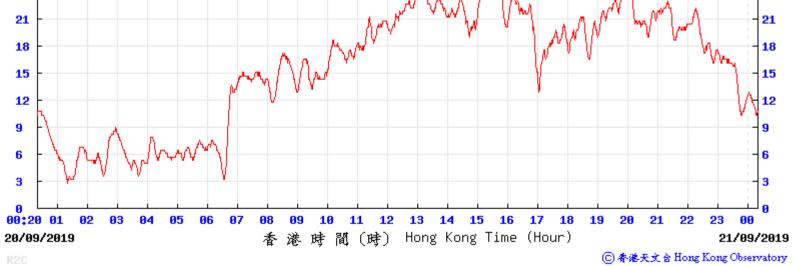


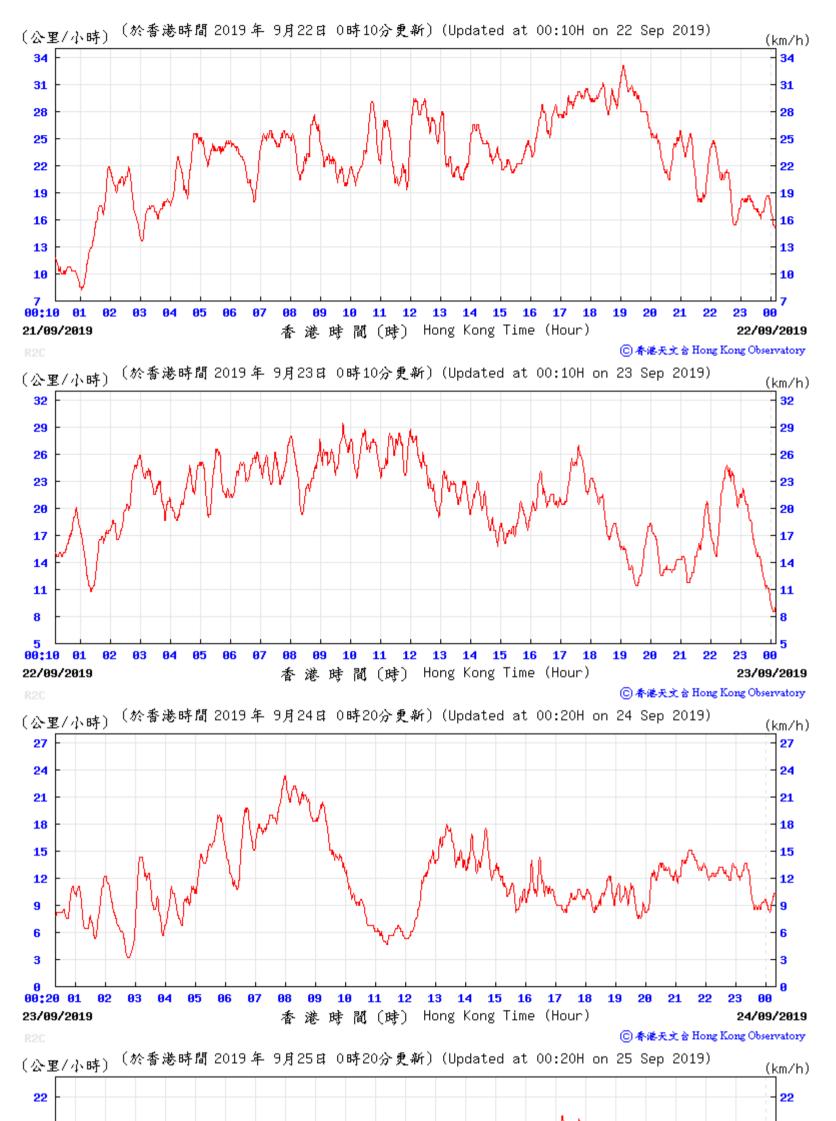


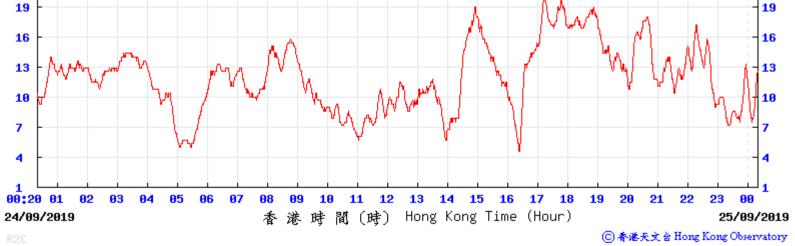


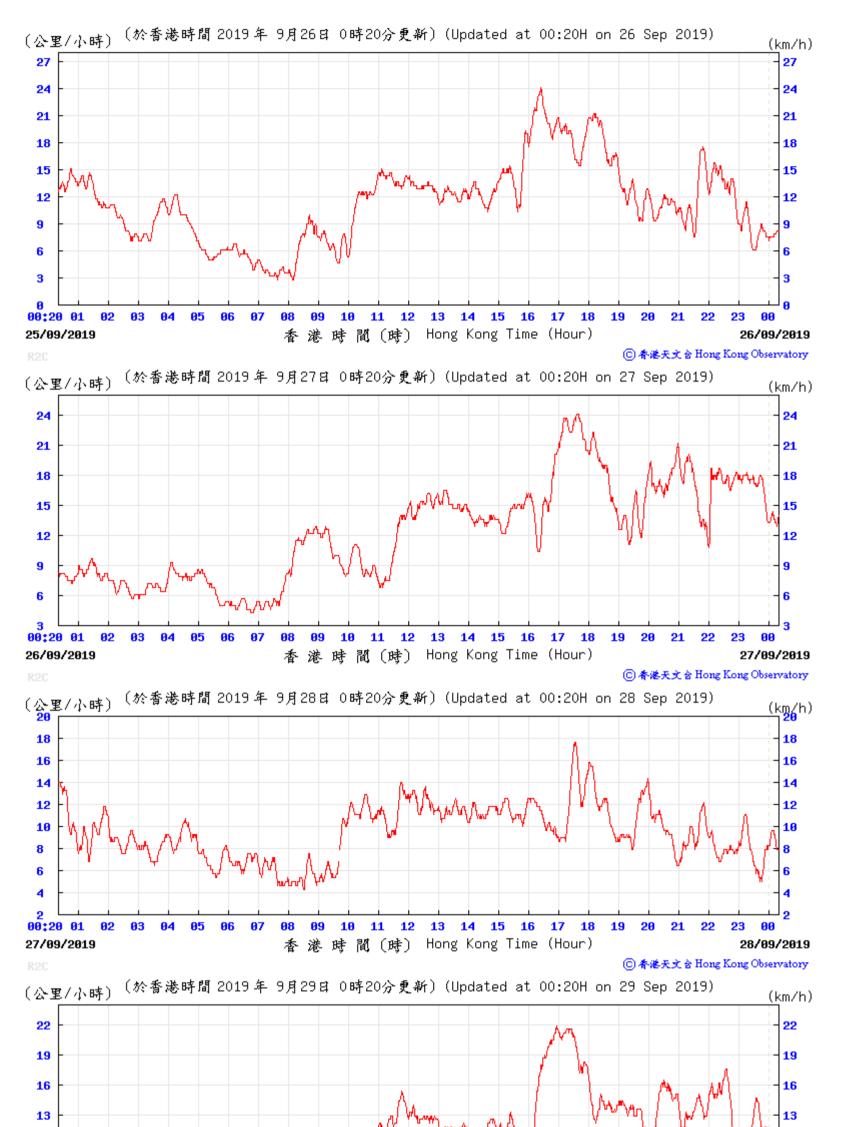
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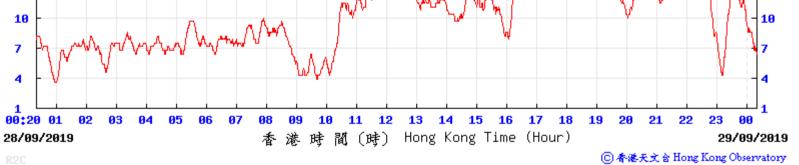


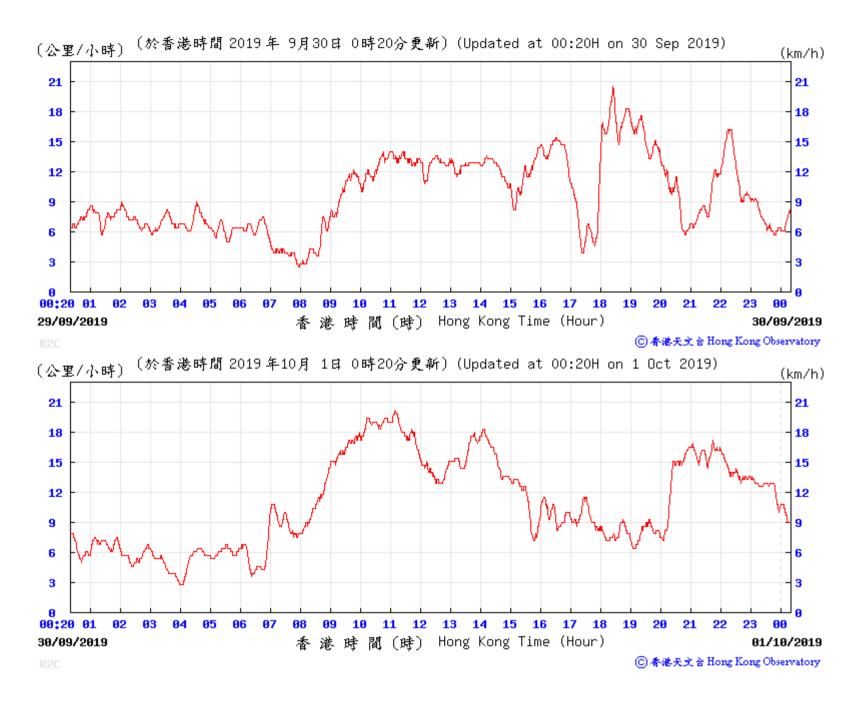














APPENDIX H

Dolphin Monitoring Results



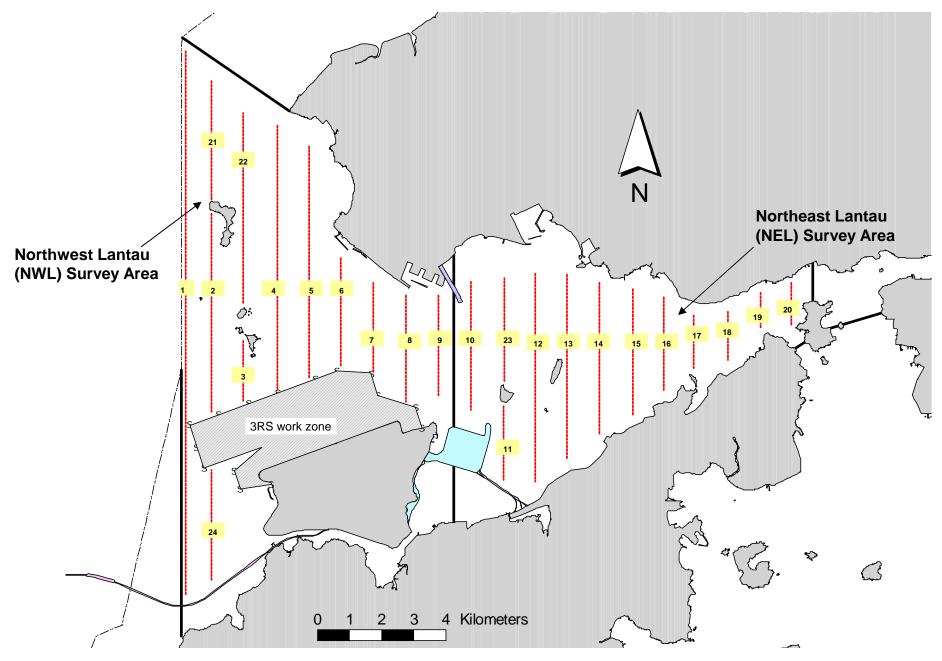


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

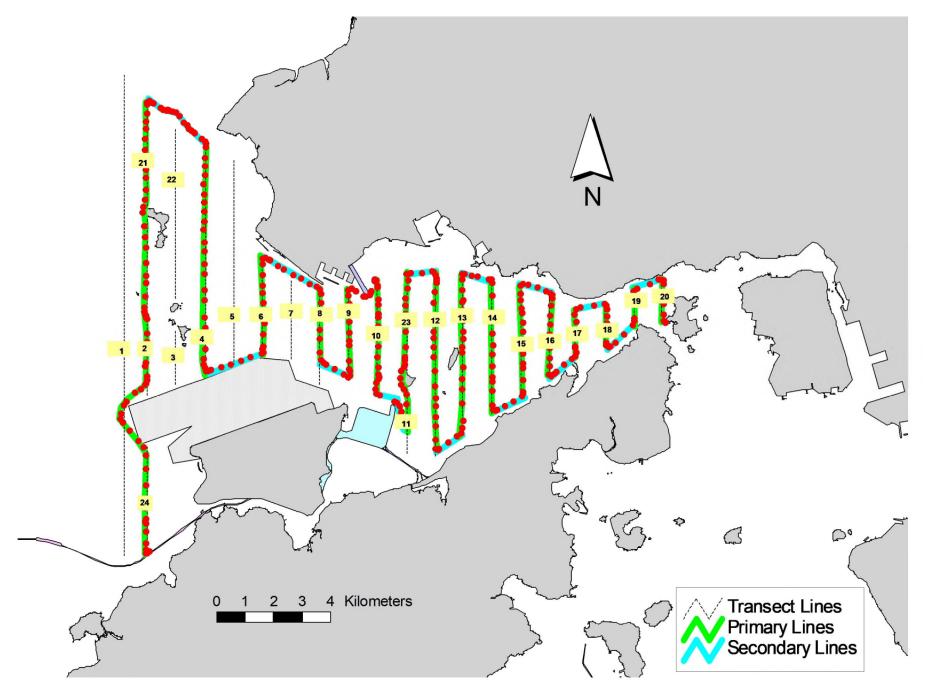


Figure 2. Survey Route on September 4th, 2019 Remark: There were some construction boats working close to southern end of transect line no. 11 during dolphin monitoring on 4 September 2019. Due to safety reason, the southern end of transect line no. 11 cannot be travelled at all on 4 September 2019.

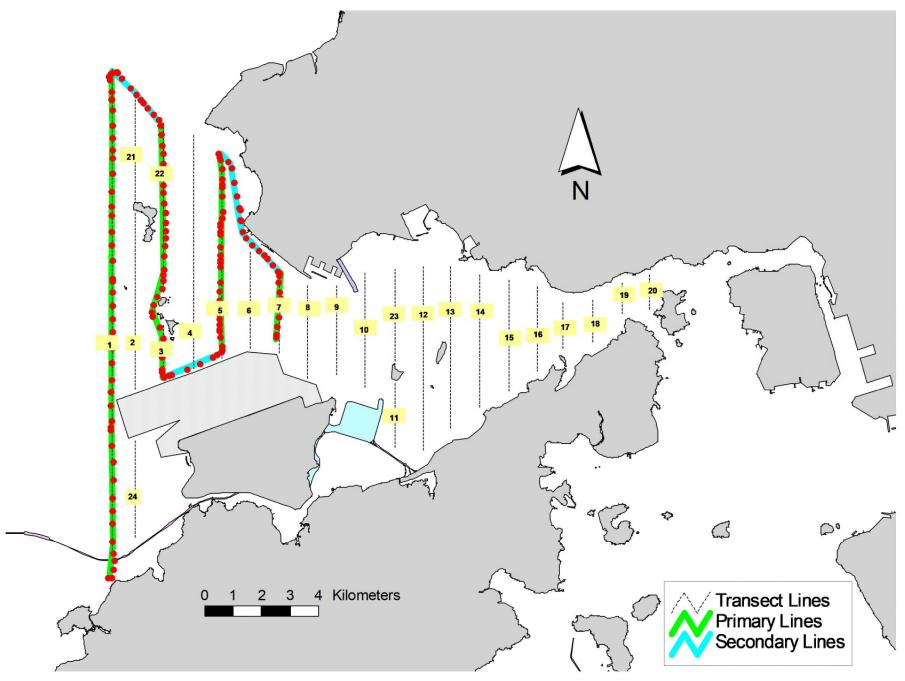


Figure 3. Survey Route on September 11th, 2019

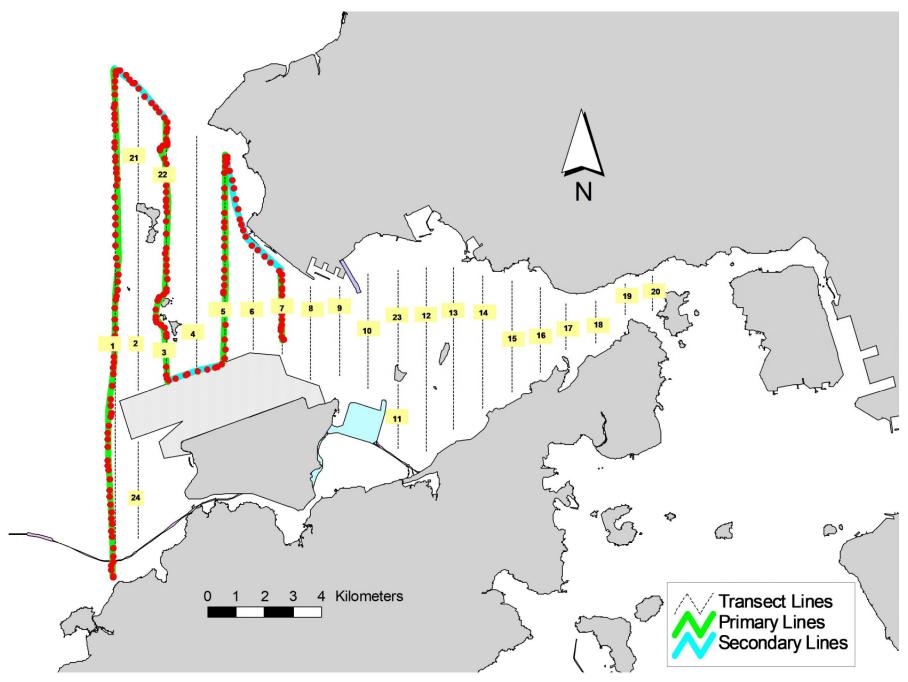


Figure 4. Survey Route on September 17th, 2019

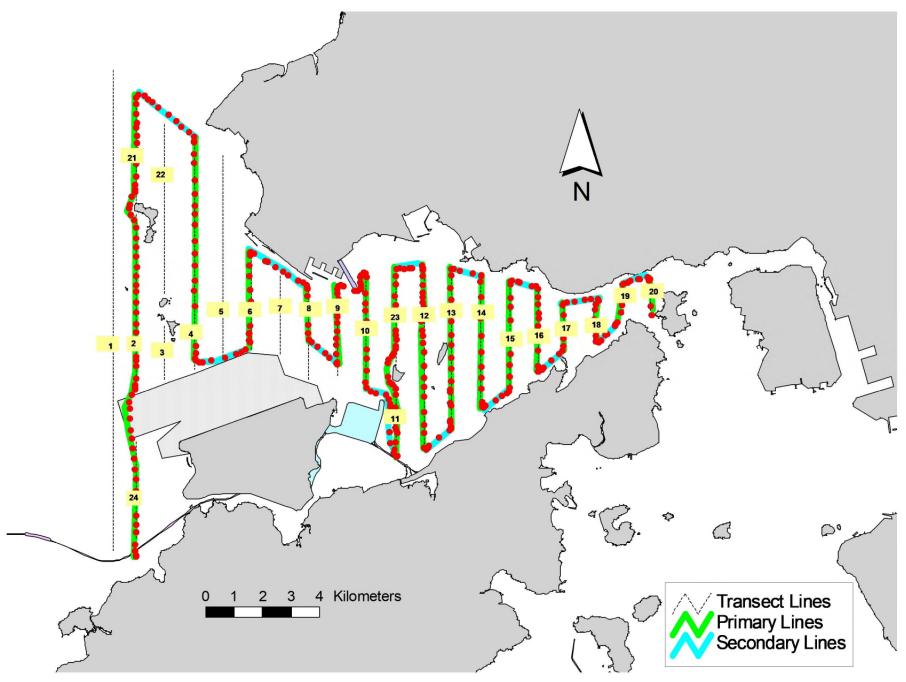


Figure 5. Survey Route on September 23rd, 2019

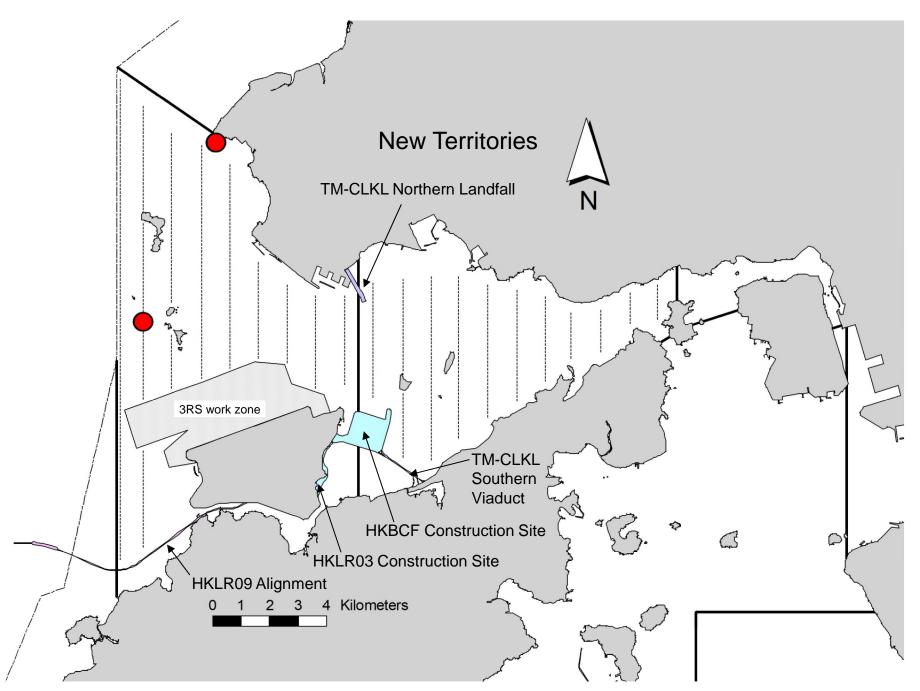


Figure 6. Distribution of Chinese White Dolphin Sightings during September 2019 HKLR03 Monitoring Surveys

Annex I. HKLR03 Survey Effort Database (September 2019)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
4-Sep-19	NW LANTAU	2	21.38	AUTUMN	STANDARD36826	HKLR	Р
4-Sep-19	NW LANTAU	3	6.40	AUTUMN	STANDARD36826	HKLR	Р
4-Sep-19	NW LANTAU	2	9.12	AUTUMN	STANDARD36826	HKLR	S
4-Sep-19	NW LANTAU	3	2.52	AUTUMN	STANDARD36826	HKLR	S
4-Sep-19	NE LANTAU	2	16.70	AUTUMN	STANDARD36826	HKLR	Р
4-Sep-19	NE LANTAU	3	18.83	AUTUMN	STANDARD36826	HKLR	Р
4-Sep-19	NE LANTAU	2	7.75	AUTUMN	STANDARD36826	HKLR	S
4-Sep-19	NE LANTAU	3	5.12	AUTUMN	STANDARD36826	HKLR	S
11-Sep-19	NW LANTAU	1	1.60	AUTUMN	STANDARD36826	HKLR	Р
11-Sep-19	NW LANTAU	2	29.50	AUTUMN	STANDARD36826	HKLR	Р
11-Sep-19	NW LANTAU	3	2.10	AUTUMN	STANDARD36826	HKLR	Р
11-Sep-19	NW LANTAU	1	1.40	AUTUMN	STANDARD36826	HKLR	S
11-Sep-19	NW LANTAU	2	8.99	AUTUMN	STANDARD36826	HKLR	S
17-Sep-19	NW LANTAU	2	8.96	AUTUMN	STANDARD36826	HKLR	Р
17-Sep-19	NW LANTAU	3	22.90	AUTUMN	STANDARD36826	HKLR	Р
17-Sep-19	NW LANTAU	4	1.90	AUTUMN	STANDARD36826	HKLR	Р
17-Sep-19	NW LANTAU	2	4.54	AUTUMN	STANDARD36826	HKLR	S
17-Sep-19	NW LANTAU	3	4.90	AUTUMN	STANDARD36826	HKLR	S
17-Sep-19	NW LANTAU	4	1.20	AUTUMN	STANDARD36826	HKLR	S
23-Sep-19	NW LANTAU	2	19.22	AUTUMN	STANDARD36826	HKLR	Р
23-Sep-19	NW LANTAU	3	7.79	AUTUMN	STANDARD36826	HKLR	Р
23-Sep-19	NW LANTAU	2	9.84	AUTUMN	STANDARD36826	HKLR	S
23-Sep-19	NW LANTAU	3	4.25	AUTUMN	STANDARD36826	HKLR	S
23-Sep-19	NE LANTAU	1	11.30	AUTUMN	STANDARD36826	HKLR	Р
23-Sep-19	NE LANTAU	2	25.35	AUTUMN	STANDARD36826	HKLR	P
23-Sep-19	NE LANTAU	1	3.61	AUTUMN	STANDARD36826	HKLR	S
23-Sep-19	NE LANTAU	2	10.74	AUTUMN	STANDARD36826	HKLR	S

Annex II. HKLR03 Chinese White Dolphin Sighting Database (September 2019)

(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
4-Sep-19	1	1046	2	NW LANTAU	2	311	ON	HKLR	823375	805440	AUTUMN	NONE	Р
11-Sep-19	1	1058	3	NW LANTAU	2	430	ON	HKLR	829316	807975	AUTUMN	NONE	S

Annex III. Individual dolphins identified during HKLR03 monitoring surveys in (September 2019)

ID#	DATE	STG#	AREA
NL136	11/09/19	1	NW LANTAU
NL202	11/09/19	1	NW LANTAU
NL286	11/09/19	1	NW LANTAU



Annex IV. Photographs of Identified Individual Dolphins in September 2019 (HKLR03)



APPENDIX

Mudflat Monitoring Results



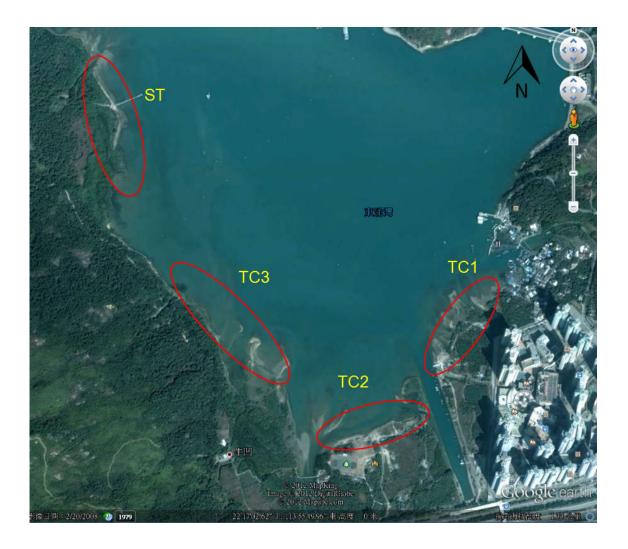


Figure 2.1 Locations of sampling zones. The study site was divided into three sampling zones (TC1, TC2, TC3) in Tung Chung Bay and one zone in San Tau (ST) (map generated from Google Map).



Figure 2.2 *Photographic record of the environment in every sampling zone. (September 2019)*





TC1

Plastic waste



Trash gill net

тС3

ST



Trash gill net and hand trolley



A tangled horseshoe crab on a trash net (record in June 2017)

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

TC3 Carcinoscorpius rotundicauda



TC3 Tachypleus tridentatus



Figure 3.1 Examples of photographic records of horseshoe crab (September 2019)

ST Carcinoscorpius rotundicauda



TC2 Carcinoscorpius rotundicauda



Figure 3.1 (CON'T) *Examples of photographic records of horseshoe crab (September 2019)*

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

	TC1	TC2	TC3	ST
Search duration (hr)	2	2	3	3
Carcinoscorpius rotundicauda				
No. of individuals	0	1	32	9
Mean prosomal width (mm)	١	20.32	37.02	26.8
Maxprosomal width (mm)	١	١	70.71	35.41
Min. prosomal width (mm)	١	١	10.13	18.25
Search record (ind. hr ⁻¹ person ⁻¹)	0.00	0.25	5.33	1.50
Tachypleus tridentatus				
No. of individuals	0	0	8	0
Mean prosomal width (mm)	١	١	47.62	١
Maxprosomal width (mm)	١	١	98.14	١
Min. prosomal width (mm)	١	١	20.52	١
Search record (ind. hr-1 person-1)	0.00	0.00	1.33	0.00

March 2015 - ST



June 2017 – TC2



(Female) June 2017 – TC3



(Male)



Figure 3.2 Photographic records of mating pairs of horseshoe crab

December 2017 – TC3



(Female)(Male)Figure 3.2(Cont'd) Photographic records of mating pair of horseshoe crab

March 2019 – TC2



Figure 3.2 (Cont'd). Photographic records of mating pair of horseshoe crab



Figure 3.3 *Photographic records of newly hatched individuals of horseshoe crab (September 2018)*

Carcinoscorpius rotundicauda June 2017

TC1

TC2



December 2017



March 2019



December 2018





Figure 3.4 *Photographic records of large individuals (>100 mm) of horseshoe crabs records were excluded from data analysis*

Tachypleus tridentatus September 2017

June 2019



Figure 3.4 (Cont'd) Photographic records of large individuals (>100 mm) of horseshoe crabs records were excluded from data analysis

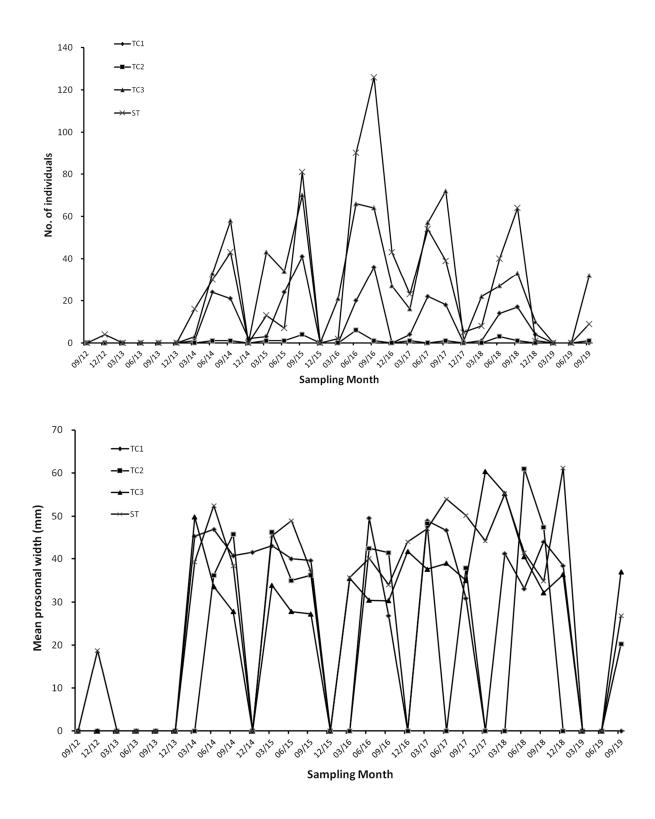


Figure 3.5 Changes of number of individuals mean prosomal width and search record of horseshoe crab Carcinoscorpius rotundicauda in every sampling zone along the sampling months

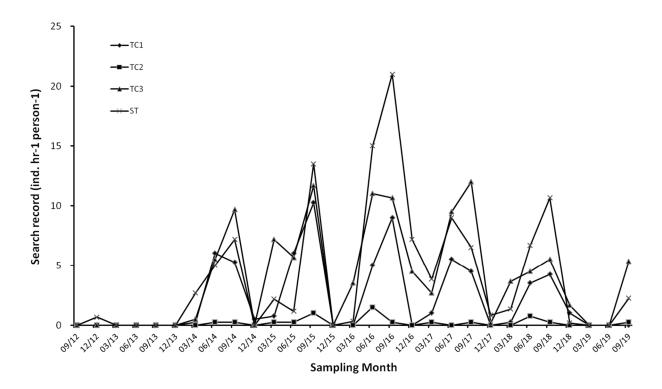


Figure 3.5 (Cont'd) Changes of number of individuals mean prosomal width and search record of horseshoe crab Carcinoscorpius rotundicauda in every sampling zone along the sampling months

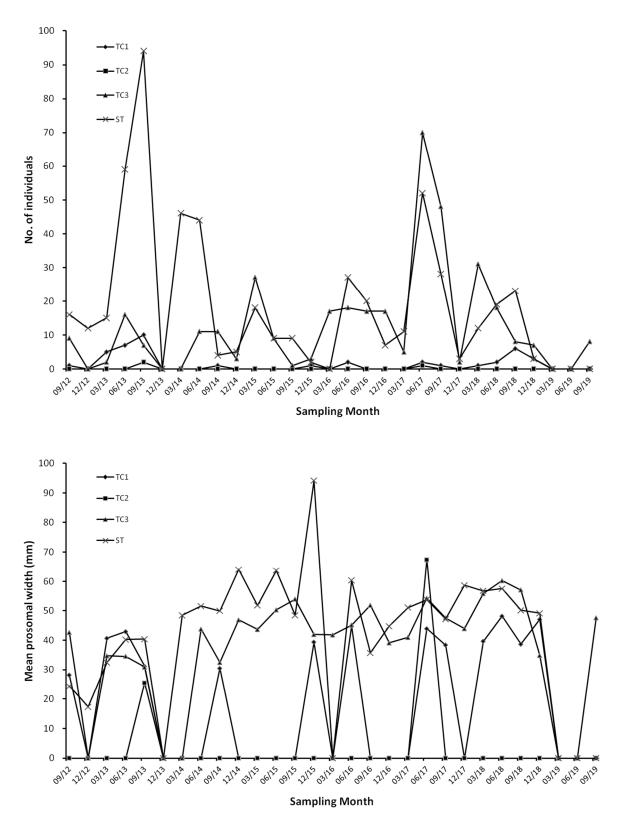


Figure 3.6 Changes of number of individuals mean prosomal width and search record of horseshoe crab Tachypleus tridentatus in every sampling zone along the sampling months

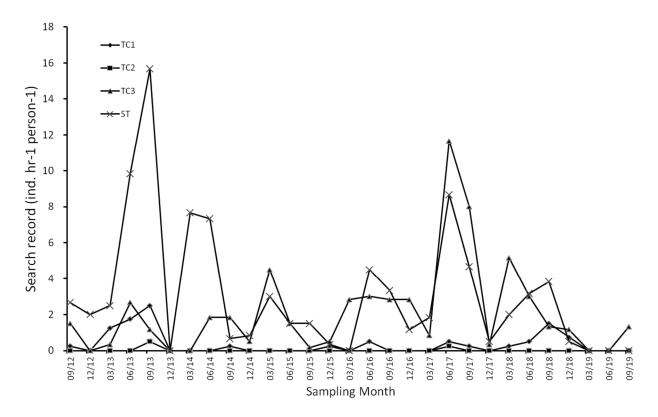


Figure 3.6 (Cont'd) Changes of number of individuals mean prosomal width and search record of horseshoe crab Tachypleus tridentatus in every sampling zone along the sampling months

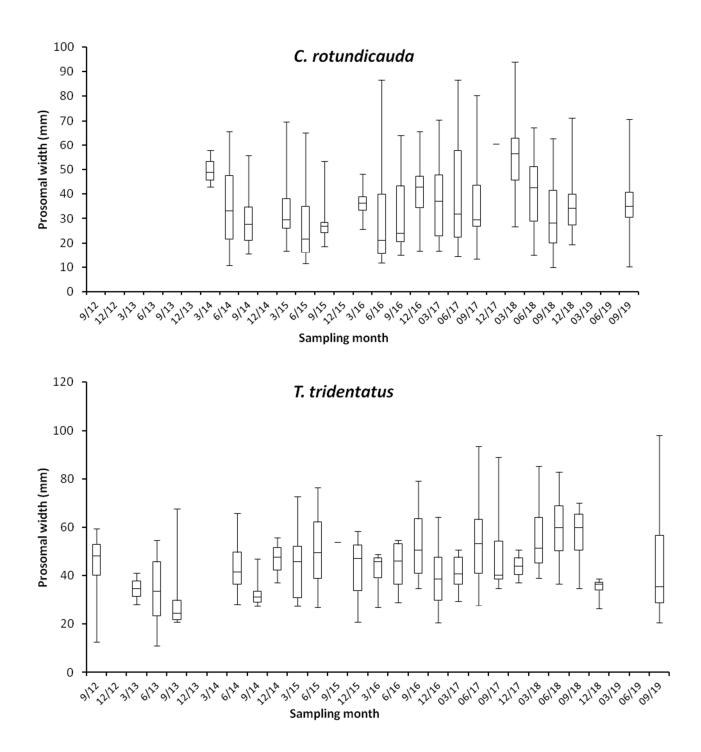


Figure 3.7 Box plot of prosomal width of horseshoe crab in the sampling zone TC3 along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and below the lower quartile respectively)

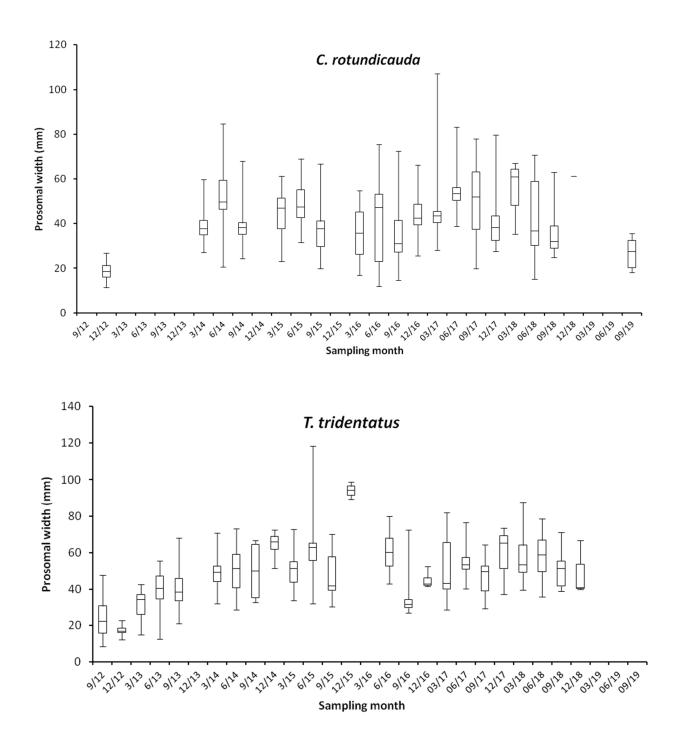


Figure 3.8 Box plot of prosomal width of horseshoe crabin the sampling zone ST along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and below the lower quartile respectively.)

Halophila ovalis in TC3



Halophila ovalis in ST



Figure 3.9 Photographic record of seagrass beds in present survey.

TC3



Single patch of *Halophila ovalis* **TC3 - ST**



Extensive patch of Halophila ovalis





Medium, horizontal patch of Zostera japonica

Figure 3.10 *Examples of photographic records of seagrass beds (record in June 2017)*

 Table 3.2. Summary of seagrassbeds survey

Sampling zone	TC3	ST
	Halophila ovalis	Halophila ovalis
Number of patches	4	2
Total area (m ²)	17.3	1200
Average area (m ²)	4.3	600

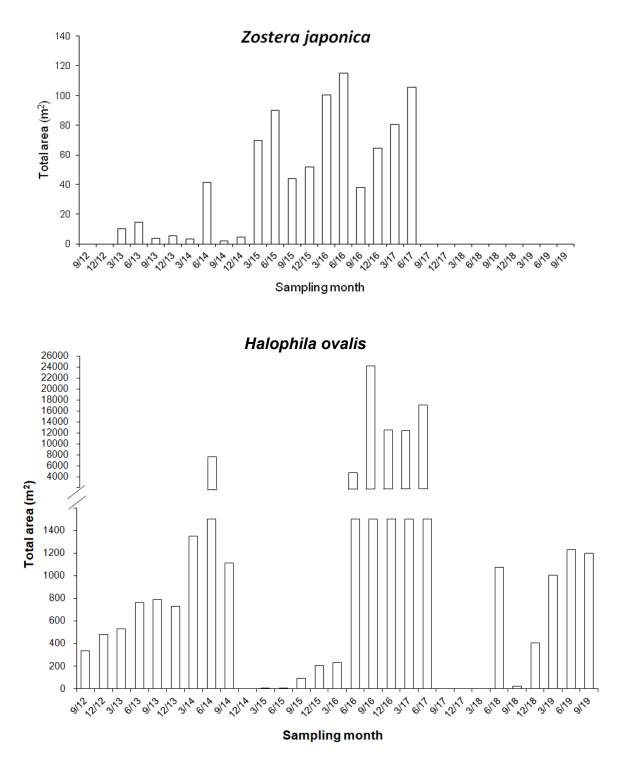


Figure 3.11 Temporal changes of estimated total area of seagrass beds in ST

June 2014



September 2015



September 2017-March 2018 (no seagrass)

December 2014 (no seagrass)



June 2017



September 2018



Figure 3.12 Comparison of pictures taken in different sampling months shows the successive disappearance and recolonization of seagrass beds. The picture of December 2018 was lacking due to night-dawn survey time.

March 2019



September 2019



Figure 3.12 (Cont'd) Comparison of pictures taken in different sampling months shows the successive disappearance and recolonization of seagrass beds. The picture of December 2018 was lacking due to night-dawn survey time.

une 2019



		Ре	rcentage	
Sampling zone	Tidal level	Gravels and Boulders	Sands	Soft mud
TC1	Н	90	10	
	М	70	30	
	L	50	10	40
TC2	Н	80	20	
102				
	М	60	10	30
	L	40	20	40
TC3	Н	50	30	20
	М	40	40	20
	L	70	10	20
ST	Н	90	10	
	М	70	30	
	L	40	30	30

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

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

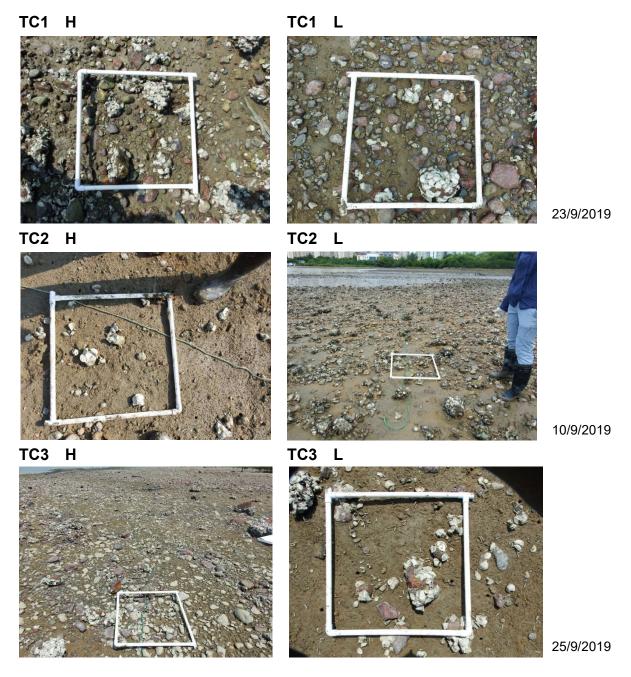
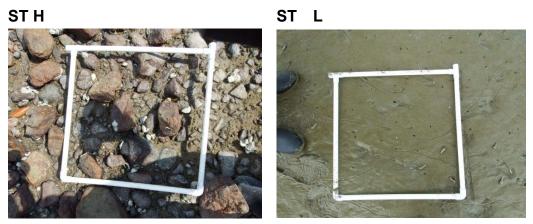


Figure 3.13 Examples of photographic records of quadrat for intertidal soft shore community survey (H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.)



9/9/2019

Figure 3.13.(Cont'd)*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.)

Phylum	Total Abundance	%	Density (ind. m ⁻²)	Number of Taxon
0 / / 00/0				
September 2019				
Mollusca	10594	94.2	353.1	40
Arthropoda	506	4.5	16.9	9
Annelida	45	0.4	1.5	7
Chordata	2	0.0	0.1	1
Sipuncula	49	0.4	1.6	3
Nemertea	5	0.0	0.2	1
Cnidaria	39	0.3	1.3	1
Platyhelminthes	3	0.0	0.1	1
Total	12243			

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

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} .

Phylum	TC1	%	Density nd. m ⁻²)	TC2	%	Density nd. m ⁻²)	TC3	%	Density nd. m ⁻²)	ST	%	Density nd. m ⁻²)
Mollusca	3360	98	448	2649	92	353	1761	87	235	2824	97	377
Arthropoda	28	1	4	181	6	24	216	11	29	81	3	11
Annelida	10	0	1	5	0	1	28	1	4	2	0	0
Chordata	0	0	0	0	0	0	0	0	0	2	0	0
Sipuncula	9	0	1	29	1	4	2	0	0	9	0	1
Nemertea	1	0	0	1	0	0	3	0	0	0	0	0
Cnidaria	2	0	0	16	1	2	20	1	3	1	0	0
Platyhelminthes	2	0	0	0	0	0	0	0	0	1	0	0
Sub-total	3412			2881			2030			2920		

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

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.

Sampling zone TC1	Group	Species	Mean density (ind. m ⁻²)	Relative abundance (%)	Cumulative relative abundance (%)
High	Bi	Saccostrea cucullata	66	23	4
	G	Batillaria zonalis	44	15	1
	G	Monodonta labio	43	15	5
	G	Batillaria multiformis	42	14	64
Mid	Bi	Saccostrea cucullata	144	33	17
	G	Monodonta labio	62	14	31
	G	Batillaria multiformis	59	13	63
Low	Bi	Saccostrea cucullata	186	29	33
	G	Nodilittorina radiata	108	17	7
	G	Monodonta labio	99	16	61

 Table 3.6 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	Batillaria multiformis	72	20	82
	Bi	Saccostrea cucullata	60	17	45
	G	Batillaria zonalis	47	13	71
Mid	Bi	Saccostrea cucullata	94	23	34
	G	Batillaria multiformis	89	22	6
	G	Monodonta labio	66	16	7
Low	Bi	Saccostrea cucullata	108	27	51
	G	Monodonta labio	60	15	4

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

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

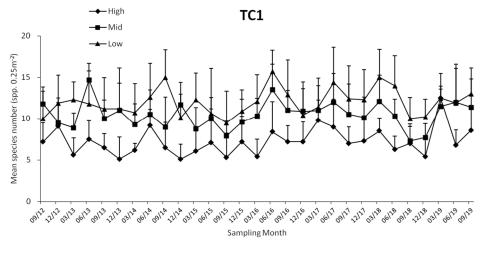
Sampling zone TC3	Group	Species	Mean density (ind. m ⁻²)	Relative abundance (%)	Cumulative relative abundance (%)
High	Bi	Saccostrea cucullata	86	28	2
	G	Batillaria multiformis	38	12	73
Mid	Bi	Saccostrea cucullata	43	18	4
	G	Monodonta labio	24	10	3
	G	Batillaria multiformis	24	10	82
Low	Bi	Saccostrea cucullata	74	28	37
	Ва	Balanus amphitrite	31	12	9
	G	Lunella granulata	28	11	1

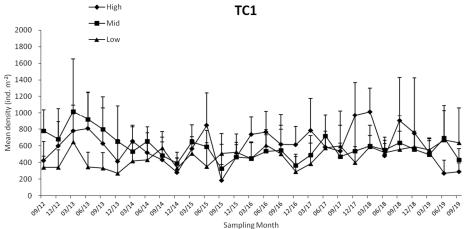
 Table 3.6(Cont'd). The abundant species (relative abundance >10%) in every sampling zone

Sampling zone ST	Group	Species	Mean density (ind. m ⁻²)	Relative abundance (%)	Cumulative relative abundance (%)
High	Bi	Saccostrea cucullata	61	28	12
	G	Monodonta labio	47	21	44
Mid	Bi	Saccostrea cucullata	80	18	27
	G	Batillaria zonalis	73	16	2
	G	Monodonta labio	62	13	52
Low	Bi	Saccostrea cucullata	146	30	23
	G	Monodonta labio	65	13	46

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	

Samling zone	Tidal	Mean species number (spp. 0.25m ⁻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	н	ç)	291		1.7		0.8	
	М	11	11	435	455	1.8	1.83	0.8	0.80
	L	13		639		2.0		0.8	
TC2	н	10)	352		1.8		0.8	
	М	g	10	406	384	1.7	1.70	0.8	0.80
	L	11		394		1.6		0.8	
TC3	н	10)	310		1.8		0.8	
	М	10	10	235	271	2.0	1.90	0.8	0.80
	L	11		268		1.9		0.8	
ST	н	6	j	221		1.3		0.7	
	М	11	8	459	389	2.0	1.57	0.8	0.77
	L	7	,	488		1.4		0.8	





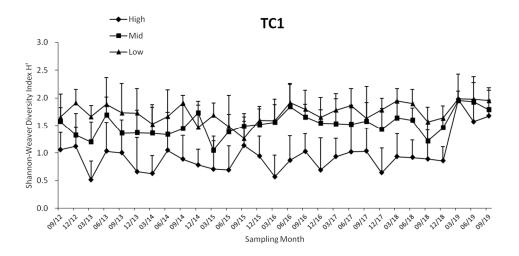


Figure 3.14 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD)at every tidal level in sampling zone TC1

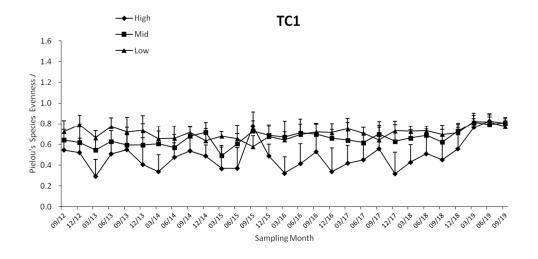


Figure 3.14(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD)at every tidal level in sampling zone TC1

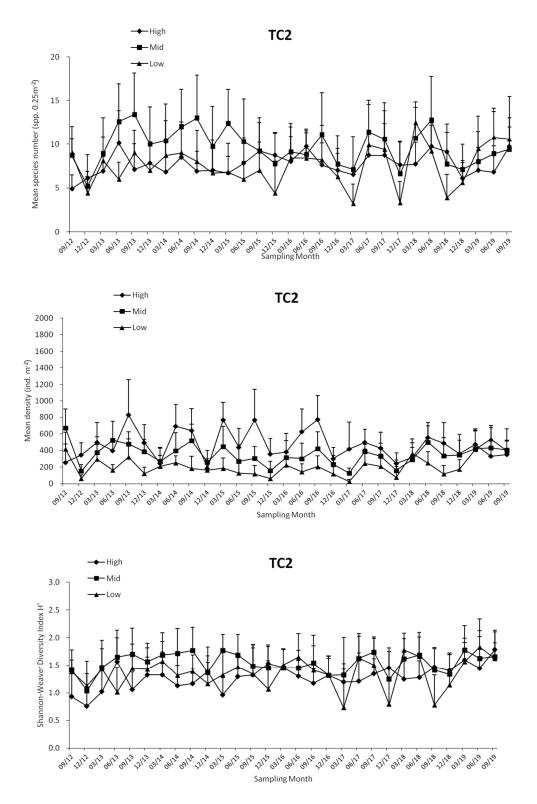


Figure 3.15 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2

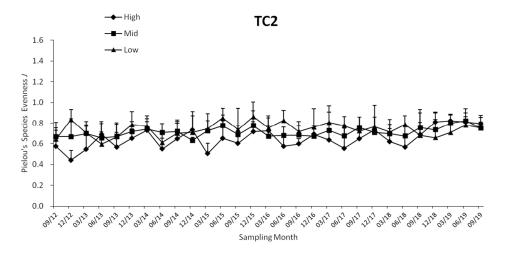


Figure3.15(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2

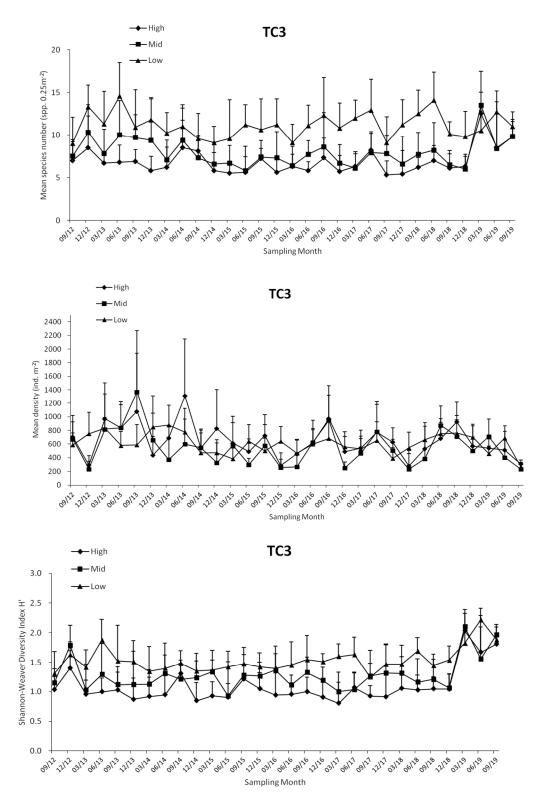


Figure 3.16 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3

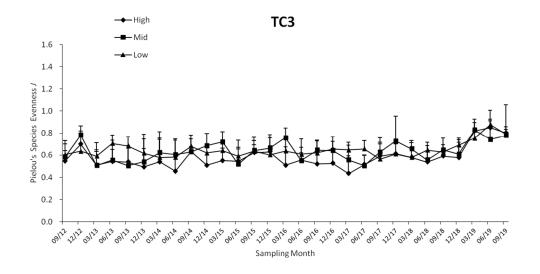


Figure 3.16(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3

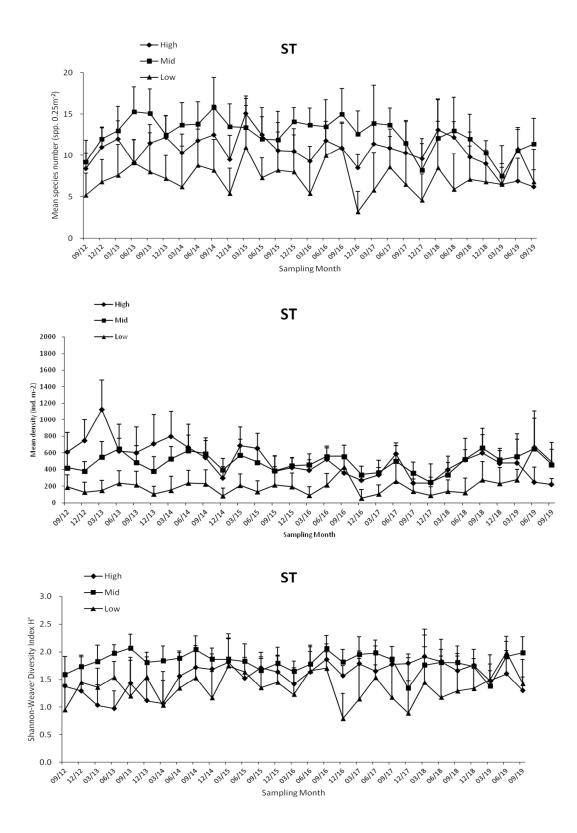


Figure 3.17 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone S

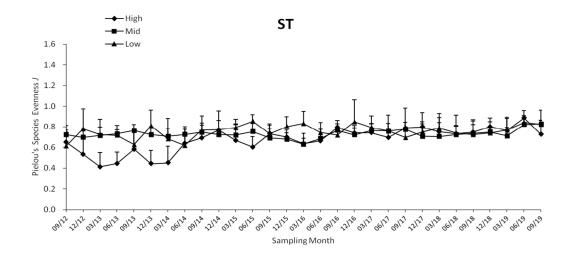
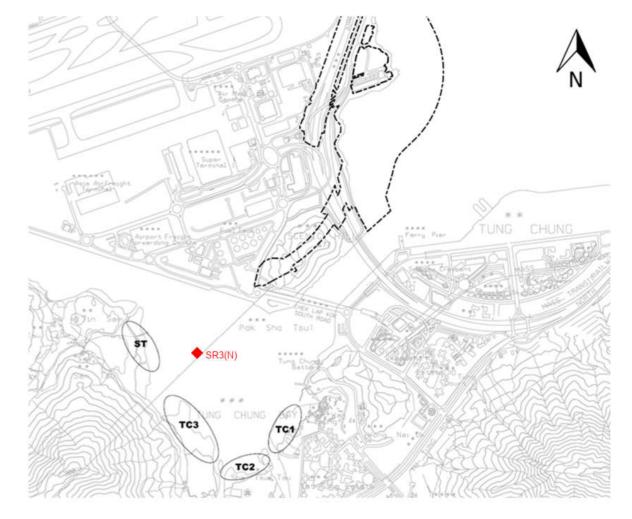


Figure 3.17(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST



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

No.	Sub.	GPS coordinate	Record of prosomal width (mm)					
Sampling	g site TC1	(Search hour = 2 hrs)	Carcinoscorpius rotundicauda	Tachypleus tridentatus				
		No Record						
		No. of ind.	0	0				
<u>Sampling</u>	g site TC2	(Search hour = 2 hrs)	Carcinoscorpius rotundicauda	Tachypleus tridentatus				
1	М	22°16'055"N 113°55'052"E	20.32					
		No. of ind.	1	0				
Ind. #: ทเ	nd. #: number of Individuals (individuals in a group are shown at the same row)							
Underline	<u>Underlined</u> : size of mating pair or large individual (excluded from data analysis)							
Sub.: Su	bstratum t	ype; G = Gravel and Boulders, M = Sof	t mud, S = Sand					

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

No.	Sub.	GPS coordina	te	Record of prosomal width (mm)
Samp	ling site T	C3 (Search hou	ır = 3 hrs)	Carcinoscorpius rotundicauda Tachypleus tridentatus
1	М	22°17'005"N	113°55'034"E	30.5 25.23
2	М	22°17'006"N	113°55'033"E	98.14
3	М	22°17'005"N	113°55'033"E	40.02
4	S	22°17'006"N	113°55'033"E	20.14 10.13 90.52
5	М	22°17'006"N	113°55'033"E	45.44
6	М	22°17'006"N	113°55'034"E	30.45 30.10
7	S	22°17'006"N	113°55'035"E	35.57
8	М	22°17'006"N	113°55'035"E	25.53 20.52
9	М	22°17'005"N	113°55'035"E	22.21
10	М	22°17'006"N	113°55'036"E	31.35 30.11 32.14 34.98
11	М	22°17'004"N	113°55'005"E	33.54 33.01 35.05. 42.82. 38.24
12	М	22°16'043"N	113°56'005"E	37.43 43.43 45.44 33.20 31.54 29.93 48.21
13	М	22°16'063"N	113°56'009"E	37.65 39.44 44.47
14	М	22°16'060"N	113°56'009"E	35.14 37.47 70.71 30.55
15	М	22°17'005"N	113°56'036"E	70.41 60.07 30.05
_				

8

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

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

No. of ind.

<u>Underlined</u>: size of mating pair or large individual (excluded from data analysis)

32

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

No.	Sub.	GPS coordinate		Record of prosomal width (mm)			
Samp	Sampling site ST (Search hour = 3 hrs)			Carcinoscorpius rotundicauda	Tachypleus tridentatus		
1	М	22°17'009"N	113°55'030"E	25.25 30.36 27.53			
2	М	22°17'008"N	113°55'032"E	32.4			
3	Μ	22°17'039"N	113°55'036"E	33.33 35.41 20.25			
4	М	22°17'010"N	113°55'030"E	18.52			
5	М	22°17'015"N	113°55'031"E	18.25			
		No. of ind.		9	0		
Ind. #	: number	of Individuals (ir	ndividuals in a grou	p are shown at the same row)			

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

<u>Underlined</u>: size of mating pair or large individual (excluded from data analysis)

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

Annex III Record of seagrass beds survey in every sampling zone

Estimated	I Estimated							
area (m²)	coverage (%)		GPS coordinate		Remark			
TC1& TC2 (search hour = 2 hrs)								
No record								
TC3 Haloph	nila ovalis (sear e	ch hour = 3 hrs)						
0.25	90-100	horizontal line	22°17'001"N	113°55'038''E	A horizontal strand of seagrass bed nearby the seaward side of mangrove			
0.25	90-100		22°17'001"N	113°55'038''E	area at tidal level 2.0 m above C.D.			
4	00 100	horizontal line	22°17'003''N	113°55'036''E	A horizontal strand of seagrass bed nearby the seaward side of mangrove			
4	90-100		22°17'003''N	113°55'036''E	area at tidal level 2.0 m above C.D.			
	90-100	horizontal line	22°17'003"N	113°55'036''E	A horizontal strand of seagrass bed nearby the seaward side of mangrove			
4			22°17'003"N	113°55'036''E	area at tidal level 2.0 m above C.D.			
0	00.400	horizontal line	22°16'053''N	113°56'005''E	A horizontal strand of seagrass bed nearby the seaward side of mangrove			
9	90-100		22°16'053''N	113°56'005''E	area at tidal level 2.0 m above C.D.			
ST Halophil	la ovalis (searcl	h hour = 3 hrs)						
200	10.20	horizontal line	22°17'014"N	113°55'029"E	A horizontal strand of seagrass bed nearby the seaward side of mangrove			
200	10-20		22°17'015"N	113°55'029"E	area at tidal level 2.0 m above C.D.			
1000	00 100	horizontal line	22°17'013"N	113°55'029"E	A horizontal strand of seagrass bed nearby the seaward side of mangrove			
1000	90-100		22°17'014"N	113°55'029"E	area at tidal level 2.0 m above C.D.			

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

Kingdom	Phylum	Class	Order	Family	Species
0					
Animalia	Annelida	Polycheata	Echiuroidea	Thalassematidae	Listriolobus riukiuensis
Animalia	Annelida	Polycheata	Phyllodocida	Nereididae	<i>Nereididae</i> spp.
Animalia	Annelida	Polycheata	Phyllodocida	Nereididae	Perinereis sp.
Animalia	Annelida	Polycheata	Sabellida	Oweniidae	<i>Oweniidae</i> spp.
Animalia	Annelida	Polycheata	Sabellida	Sabellidae	Sabellidae imbricatus
Animalia	Annelida	Polycheata	Terebellida	Ampharetidae	Ampharetidae spp.
Animalia	Annelida	Polycheata		Maldanidae	<i>Maldanidae</i> spp.
Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	Gaetice depressus
Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	Metopograpsus latifrons
Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	Metopograpsus quadridentatus
Animalia	Arthropoda	Malacostraca	Decapoda	Leucosiidae	Pyrhila pisum
Animalia	Arthropoda	Malacostraca	Decapoda	Paguridae	Pagurus dubius
Animalia	Arthropoda	Malacostraca	Decapoda	Sesarmidae	Parasesarma bidens
Animalia	Arthropoda	Malacostraca	Decapoda	Varuniae	Hemigrapsus penicillatus
Animalia	Arthropoda	Malacostraca	Decapoda	Varunidae	Chasmagnathus convexus
Animalia	Arthropoda	Maxillopoda	Sessilia	Balanidae	Balanus amphitrite
Animalia	Chordata	Actinopterygii	Blenniformes	Blenniidae	Omobranchus fasciolatoceps
Animalia	Cnidaria	Anthozoa	Actiniaria	Diadumenidae	Diadumene lineata
Animalia	Mollusca	Bivalvia	Arcoida	Arcidae	Barbatia virescens
Animalia	Mollusca	Bivalvia	Mytioida	Mytilidae	Xenostrobus atratus
Animalia	Mollusca	Bivalvia	Ostreoida	Mytilidae	Brachidontes variabilis
Animalia	Mollusca	Bivalvia	Ostreoida	Ostreidae	Saccostrea cucullata
Animalia	Mollusca	Bivalvia	Pterioida	Pteriidae	lsognomon isognomum
Animalia	Mollusca	Bivalvia	Venerida	Cyrenidae	Geloina erosa
Animalia	Mollusca	Bivalvia	Venerida	Glauconomidae	Glauconome chinensis
Animalia	Mollusca	Bivalvia	Veneroida	Tellinidae	Anomalocardia squamosa
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	Ruditapes philippinarum
Animalia	Mollusca	Gastropoda	Archaeogastropoda	Nacellidae	Cellana grata
Animalia	Mollusca	Gastropoda	Archaeogastropoda	Nacellidae	Cellana toreuma
Animalia	Mollusca	Gastropoda	Archaeogastropoda	Trochidae	Monodonta labio
Animalia	Mollusca	Gastropoda	Archaeogastropoda	Trochidae	Omphalius nigerrima
Animalia	Mollusca	Gastropoda	Archaeogastropoda	Turbinidae	Lunella coronata
Animalia	Mollusca	Gastropoda	Archaeogastropoda	Turbinidae	Lunella granulata
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	Batillaria multiformis
				Batillariidae	

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Kingdom	Phylum	Class	Order	Family	Species
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	Batillaria zonalis
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	Terebralia sulcata
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	Pirenella asiatica
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	Pirenella incisa
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	Clithon faba
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	Clithon oualaniensis
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	Clithon retropictus
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	Nerita chamaeleon
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	Nerita lineata
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	Nerita polita
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	Nerita squamulata
Animalia	Mollusca	Gastropoda	Littorinimorpha	Littorinidae	Littoraria articulata
Animalia	Mollusca	Gastropoda	Neogastropoda	Muricidae	Cronia margariticola
Animalia	Mollusca	Gastropoda	Neogastropoda	Muricidae	Thais sp.
Animalia	Mollusca	Gastropoda	Neogastropoda	Nassariidae	Nassarius festivus
Animalia	Mollusca	Gastropoda	Neotaenioglossa	Cerithiidae	Clypeomorus moniliferum
Animalia	Mollusca	Gastropoda	Neotaenioglossa	Littorinidae	Nodilittorina radiata
Animalia	Mollusca	Gastropoda	Neotaenioglossa	Littorinidae	Nodilittorina vidua
Animalia	Mollusca	Gastropoda	Patellogastropoda	Lottiidae	Lottia dorsuosa
Animalia	Mollusca	Gastropoda	Patellogastropoda	Lottiidae	Lottia luchuana
Animalia	Mollusca	Gastropoda	Patellogastropoda	Lottiidae	Nipponacmea concinna
Animalia	Mollusca	Gastropoda		Lottiidae	Patelloida pygmaea
Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae	<i>Lepidozona</i> spp.
Animalia	Nemertea				
Animalia	Platyhelminthe	s			Platyhelminthes sp.
Animalia	Sipuncula	Sipunculidae	Golfingiida	Sipunculidae	Sipunculidae sp.
Animalia	Sipuncula	Sipunculidae	Golfingiida	Sipunculidae	Sipunculus nudus
Animalia	Sipuncula	Sipunculidae	Golfingiida	Sipunculidae	Sipunculus sp.

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Sep 2019	Sampling Zone TC1	Higl	n tida	al lev	el (2	.0 m	abo	ve C	.D.)													
		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub-total
Bi	Barbatia virescens	2								3								5		9		19
Bi	Glauconome chinensis													1		1				1		3
Bi	Saccostrea cucullata			2		21		20		20				16		29		32		26		166
Bi	Xenostrobus atratus					5												4				9
С	Gaetice depressus											1		1				1		1		4
G	Batillaria multiformis	10		10		15		10		12		15		21		11						104
G	Batillaria zonalis	10		10		20		20		8		12		26		4						110
G	Cellana toreuma																			1		1
G	Clithon faba													1				2		3		6
G	Clithon retropictus							1										1		5		7
G	Littoraria articulata																			1		1
G	Lottia dorsuosa	1				1								2				1				5
G	Lottia luchuana																	2				2
G	Lunella coronata	5						3		2												10
G	Lunella granulata	2				4										5						11
G	Monodonta labio	20				10		10		20		12		26		9						107
G	Nodilittorina radiata	5						8										19				32
G	Patelloida pygmaea							1						1						7		9
G	Pirenella asiatica	2						15		2						16		23				58

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

Sep 2019 Sampling Zone TC1

High tidal level (2.0 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub-tota
G	Pirenella incisa											24		21		5		3				53
Ne	<i>Nemertea</i> sp.																	1				1
Р	Listriolobus riukiuensis									3					1							4
Sp	Sipunculus sp.											1						1	1			3
Sp	Sipunculus nudus							1				1								1		3
																				Tot	al	728

Key for faunal groups (Gp):

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, OI: Oligochaete,

Sep 2019	Sampling Zone TC1	Mid	tidal	leve	l (1.	5 m	abo	ove C	C.D.)													
		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub-total
Bi	Barbatia virescens			1						3				1		4		4		9		22
Bi	Glauconome chinensis													1		2				1		4
Bi	Saccostrea cucullata	42	4	44	:	37		27		64		20		38		21		28		38		359
Bi	Xenostrobus atratus			13		4								16		5		12		24		74
С	Metopograpsus latifrons													4								4
G	Batillaria multiformis	22	-	7	:	36		14		25		18		14		5				5		146
G	Batillaria zonalis					14										12						26
G	Clithon oualaniensis																	2				2
G	Clithon retropictus					1								2		5		8				16
G	Littoraria articulata															1				2		3
G	Lottia dorsuosa		2	2								2						1				5
G	Lottia luchuana		4	4												1		5		6		16
G	Lunella coronata		2	2	:	2												1		5		10
G	Lunella granulata			14						2		10						11		16		53
G	Monodonta labio	26	8	8	;	30				20				21		15		15		20		155
G	Nerita chamaeleon							2				2						1		1		6
G	Nerita polita											10										10
G	Nerita squamulata													1		1						2
G	Nipponacmea concinna																	7				7
G	Nodilittorina radiata															8		20		24		52
G	Patelloida pygmaea															2		1				3

Sep 2019	Sampling Zone TC1	Mic	d tida	l leve	el (1.	5 m	abo	ve C	C.D.)													
		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub-total
G	Pirenella asiatica	10		8		10				14												42
G	Pirenella incisa	17		16		7		8		10		5										63
Hc	Pagurus dubius																			1		1
Р	<i>Nereididae</i> spp.						1											1	1			3
Р	<i>Perinereis</i> sp.	1																				1
Sp	Siphonosomasp.									1		1										2
																				Tot	tal	1087

Key for faunal groups (Gp):

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, OI: Oligochaete,

Sep 2019	Sampling Zone TC1	Low	/ tidal le	vel (0.5 m	above	C.D.)									
		1	2	3	4	5	6	7	8		9		10		
Gp	Taxon	Q	CQ	CQ	CQ	CQ	CQ	CQ	CQ	С	Q	С	Q	С	Sub-total
Ba	Balanus amphitrite			2			2				1		2		7
Bi	Anomalocardia squamosa						1								1
Bi	Barbatia virescens	1		13	7		4		1				8		34
Bi	Glauconome chinensis	1		5		3	6	1					4		20
Bi	Ruditapes philippinarum							1							1
Bi	Saccostrea cucullata	70	25	150	42	27	22	29	17		36		48		466
Bi	Xenostrobus atratus	16		40	20	1	5	4	5						91
С	Gaetice depressus		3			1			2				1		7
С	Hemigrapsus penicillatus				1								1		2
С	Metopograpsus latifrons							1			1				2
Cn	Diadumene lineata						1	1							2
G	Batillaria multiformis								5		15				20
G	Batillaria zonalis	10			20	20					3				53
G	Cellana grata								1						1
G	Clithon faba								1		1		3		5
G	Clithon retropictus			21									2		23
G	Littoraria articulata							4							4
G	Lottia dorsuosa	15		2			2				4				23
G	Lottia luchuana	7									1				8
G	Lunella coronata			2		3	6	5	8						24
G	Lunella granulata	5					26	6			26				63

Sep 2019	Sampling Zone TC1	Lov	v tidal l	evel ((0.5 n	n abov	ve C	C.D.)											
		1	2		3	4	4		5	6		7		8		9		10		
Gp	Taxon	Q	CQ	С	Q	С	Q	С	Q	CQ	С	Q	С	Q	С	Q	С	Q	С	Sub-tota
G	Monodonta labio	33	38	3	77	Ę	50			12		19						19		248
G	Nerita lineata				2											1		1		4
G	Nerita polita											1								1
G	Nipponacmea concinna	6								1				1				2		10
G	Nodilittorina radiata	36	20)	83	4	40		24	15	1	20		12		6		15		271
G	Nodilittorina vidua	1	7		17				1							4		1		31
G	Patelloida pygmaea				7		1		1	5		2		2		5		3		26
G	Pirenella asiatica	16	62	2			10		12											100
G	Pirenella incisa	15					10		8			2		2						37
Hc	Pagurus dubius											1								1
Р	<i>Ampharetidae</i> sp.														1					1
Р	<i>Nereididae</i> sp.				1															1
PI	Platyhelminthes									2										2
Po	<i>Lepidozona</i> spp.	2			1					1				2						6
Sp	<i>Siphonosoma</i> sp.													1						1
Sp	Siphonosoma sp.													1						1
																		Tot	tal	1597

Key for faunal groups (Gp):

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Sep 2019	Sampling Zone TC2	Hig	h tic	lal le	vel (2.0	m a	bov	e C.D).)											
		1		2	3	4		5		6		7		8		9		10		
Gp	Taxon	Q	С	Q	CQ	СС	2	C Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub-total
Ва	Balanus amphitrite									58		18				1		1		78
Bi	Barbatia virescens				10					6		5		1				2		24
Bi	Saccostrea cucullata	9		7	21	1	3	13	3	24		36		4		6		16		149
Bi	Xenostrobus atratus	3		3	13					5		16				2				42
С	Gaetice depressus									1		1								2
С	Hemigrapsus penicillatus				1			1		4		1		1						8
Cn	Diadumene lineata				1													15		16
G	Batillaria multiformis	12		5	11	2	27	35	5	28		5		16		16		24		179
G	Batillaria zonalis	15		2	15	8	5	6		11		6		25		30				118
G	Clithon faba				1							6						5		12
G	Clithon retropictus											1						1		2
G	Lunella coronata				1							21				1				23
G	Lunella granulata			1	9			2		7		19				2				40
G	Monodonta labio	21		8	9	6	;			19										63
G	Nipponacmea concinna	2																		2
G	Nodilittorina radiata	14		12						5		4				17		6		58
G	Patelloida pygmaea	9										5				5				19
G	Pirenella asiatica					1										15				16
G	Pirenella incisa							2		5		1		5						13
Po	<i>Lepidozona</i> spp.					1						2		6						9

Sep 2019	Sampling Zone TC2	Hiç	gh tidal l	evel (2.0	m abo	ove C.D.	.)								
		1	2	3	4	5	6	7	8		9		10		
Gp	Taxon	Q	CQ	CQ	CQ	CQ	CQ	CQ	CQ	С	Q	С	Q	С	Sub-total
Sp	Siphonosoma sp.				2	1	1	1	1						6
Sp	Sipunculus nudus			1											1
													Tot	al	880

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Sep 2019	Sampling Zone TC2	Mid	tidal leve	el (1.5 n	n abov	e C.D.)									
		1	2	3	4	į	5	6	7	8		9		10		
Gp	Taxon	Q	CQ	CQ	CQ	C (Q	CQ	CQ	CQ	С	Q	С	Q	С	Sub-total
Ва	Balanus amphitrite				2		2	4						6		14
Bi	Barbatia virescens						1	5		3				1		10
Bi	Glauconome chinensis									1						1
Bi	Saccostrea cucullata	45	38	56	5 10	į	5	11		40				30		235
Bi	Xenostrobus atratus		9	2						16				12		39
С	Chasmagnathus convexus		3									1				4
С	Gaetice depressus								2							2
С	Hemigrapsus penicillatus			12	2			1								13
С	Metopograpsus latifrons								4							4
С	Metopograpsus quadridentatus								1							1
С	Parasesarma bidens		2													2
G	Batillaria multiformis			16	50	1 3	33	2 33	36	20		32				223
G	Batillaria zonalis				2	2	20	9	2	2		7				42
G	Clithon faba													2		2
G	Clithon retropictus		1						5	1				2		9
G	Lunella coronata	8								24				2		34
G	Lunella granulata	5	11	7	2		1	3						3		32
G	Monodonta labio	30	32	24	- 12		12	5	29			4				148
G	Nipponacmea concinna			2				3		2						7
G	Nodilittorina radiata	26	41	20	8			1						22		118
G	Patelloida pygmaea			3	2			3		1				1		10

Sep 2019	Sampling Zone TC2	Mid	tidal leve	el (1.5 r	n above	e C.D.)									
		1	2	3	4	5	6	7	8		9		10		
Gp	Taxon	Q	CQ	CQ	CQ	CQ	CQ	CQ	CQ	С	Q	С	Q	С	Sub-total
G	Pirenella asiatica				2	5	1 5	14			4				31
G	Pirenella incisa				3		10		3		6				22
Hc	Pagurus dubius		2												2
Р	<i>Nereididae</i> sp.									1					1
Р	Oweniidae spp.						4								4
Sp	Sipunculus nudus		2			1		2							5
													Tot	al	1015

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Sep 2019	Sampling Zone TC2	Lov	v tidal le	evel (0.5	m abov	ve C.D.)								
		1	2	3	4	5	6	7	8		9		10	
Gp	Taxon	Q	CQ	CQ	CQ	CQ	CQ	CQ	CQ	С	Q	С	Q C	Sub-total
Ва	Balanus amphitrite	4					16						2	22
Bi	Barbatia virescens		7				2		2				6	17
Bi	Glauconome chinensis	3	1	14					1		2		1	22
Bi	Isognomon isognomum						1						2	3
Bi	Saccostrea cucullata	50	48	45	4		28	24	18		25		29	271
Bi	Xenostrobus atratus							3						3
С	Chasmagnathus convexus	1		1				1						3
С	Gaetice depressus		2				1							3
С	Hemigrapsus penicillatus	3		7										10
С	Metopograpsus latifrons												1	1
С	Metopograpsus quadridentatus			7										7
С	Parasesarma bidens	2												2
G	Batillaria multiformis	8	26	26			10	15						85
G	Batillaria zonalis	10	12	9	2		4							37
G	Cellana grata												15	15
G	Cellana toreuma	1						2			2			5
G	Clithon faba	8		10							1			19
G	Clithon retropictus			1							2			3
G	Lunella coronata	8	12	5			2		2				1	30
G	Lunella granulata	9	11	10				5	18		7		6	66
G	Monodonta labio		20	84			12	15					20	151

Sampling Zone TC2	Low tidal level (0.5 m above C.D.)												
	1	2	3	4	5	6	7	8		9		10	
Taxon	Q	CQ	CQ	CQ	CQ	CQ	CQ	CQ	С	Q	С	Q	C Sub-tota
Nerita polita								1					1
Nerita squamulata	2						1			2			5
Nipponacmea concinna	2		2					1		4			9
Nodilittorina radiata		4	20				3	12				10	49
Nodilittorina vidua							2					2	4
Patelloida pygmaea			8				1					1	10
Pirenella asiatica		5		6	25								36
Pirenella incisa				26	24	20							70
<i>Thais</i> sp.			3										3
Pagurus dubius			2					1					3
<i>Nemertea</i> sp.													1
<i>Lepidozona</i> spp.		1				1	1						3
Sipunculus nudus	8	6										3	17
	Taxon Nerita polita Nerita squamulata Nipponacmea concinna Nodilittorina radiata Nodilittorina vidua Patelloida pygmaea Pirenella asiatica Pirenella incisa Thais sp. Pagurus dubius Nemertea sp. Lepidozona spp.	1TaxonQNerita politaNerita squamulata2Nipponacmea concinna2Nodilittorina radiata2Nodilittorina vidua2Patelloida pygmaea2Pirenella asiatica2Pirenella incisa2Thais sp.2Pagurus dubius2Nemertea sp.2Lepidozona spp.2	12TaxonQCQNerita polita21Nerita squamulata22Nipponacmea concinna24Nodilittorina radiata4Nodilittorina vidua4Patelloida pygmaea5Pirenella asiatica5Pirenella incisa5Pagurus dubius4Nemertea sp.1	123TaxonQCQCQNerita polita222Nerita squamulata222Nipponacmea concinna2420Nodilittorina radiata420Nodilittorina vidua8Patelloida pygmaea58Pirenella asiatica53Pagurus dubius3Pagurus dubius2Nemertea sp.1	1234TaxonQCQCQCQCQNerita polita27227Nerita squamulata22227Nipponacmea concinna2222Nodilittorina radiata42087Nodilittorina vidua876Pirenella asiatica56Pirenella asiatica56Pirenella incisa32Nemertea sp.3Lepidozona spp.1	12345TaxonQCQCQCQCQCQNerita polita222112345Nerita squamulata22221112345Nodilittorina radiata42022211111Nodilittorina radiata420202222211Nodilittorina radiata42020222 <th< td=""><td>123456TaxonQCQNQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ<</td><td>1 2 3 4 5 6 7 Taxon Q C Q Q Q Q Q Q<!--</td--><td>1 2 3 4 5 6 7 8 Taxon Q C Q Q L P P<!--</td--><td>1 2 3 4 5 6 7 8 Taxon Q C Q<!--</td--><td>1 2 3 4 5 6 7 8 9 Taxon Q C<!--</td--><td>1 2 3 4 5 6 7 8 9 Taxon Q C<!--</td--><td>1 2 3 4 5 6 7 8 9 10 Taxon Q C Q<</td></td></td></td></td></td></th<>	123456TaxonQCQNQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ<	1 2 3 4 5 6 7 Taxon Q C Q Q Q Q Q Q </td <td>1 2 3 4 5 6 7 8 Taxon Q C Q Q L P P<!--</td--><td>1 2 3 4 5 6 7 8 Taxon Q C Q<!--</td--><td>1 2 3 4 5 6 7 8 9 Taxon Q C<!--</td--><td>1 2 3 4 5 6 7 8 9 Taxon Q C<!--</td--><td>1 2 3 4 5 6 7 8 9 10 Taxon Q C Q<</td></td></td></td></td>	1 2 3 4 5 6 7 8 Taxon Q C Q Q L P P </td <td>1 2 3 4 5 6 7 8 Taxon Q C Q<!--</td--><td>1 2 3 4 5 6 7 8 9 Taxon Q C<!--</td--><td>1 2 3 4 5 6 7 8 9 Taxon Q C<!--</td--><td>1 2 3 4 5 6 7 8 9 10 Taxon Q C Q<</td></td></td></td>	1 2 3 4 5 6 7 8 Taxon Q C Q </td <td>1 2 3 4 5 6 7 8 9 Taxon Q C<!--</td--><td>1 2 3 4 5 6 7 8 9 Taxon Q C<!--</td--><td>1 2 3 4 5 6 7 8 9 10 Taxon Q C Q<</td></td></td>	1 2 3 4 5 6 7 8 9 Taxon Q C </td <td>1 2 3 4 5 6 7 8 9 Taxon Q C<!--</td--><td>1 2 3 4 5 6 7 8 9 10 Taxon Q C Q<</td></td>	1 2 3 4 5 6 7 8 9 Taxon Q C </td <td>1 2 3 4 5 6 7 8 9 10 Taxon Q C Q<</td>	1 2 3 4 5 6 7 8 9 10 Taxon Q C Q<

Key for faunal groups (Gp):

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Sep 2019	Sampling Zone TC3	Hig	h tid	al le	vel (2.0 m	above	e C.I	D.)											
		1		2		3	4		5	6		7		8		9		10		
Gp	Taxon	Q	С	Q	С	QC	Q	С	Q	CQ	C	CQ	С	Q	С	Q	С	Q	С	Sub-total
Ва	Balanus amphitrite					6			8	5		1						5		25
Bi	Geloina erosa	1								1								1		3
Bi	Glauconome chinensis			3		5						1		1						10
Bi	Saccostrea cucullata	3		32		27	37		23	16	6	16		29		3		29		215
Bi	Xenostrobus atratus						18					5		8		3				34
С	Gaetice depressus					1			1									6		8
С	Hemigrapsus penicillatus											1		3						4
С	Metopograpsus latifrons			1								1				1				3
Cn	Diadumene lineata	1				1				2				15		1				20
G	Batillaria multiformis	25		8		22	18		23											96
G	Batillaria zonalis						6		10							2				18
G	Clithon retropictus						1			4		8		3		25				41
G	Clypeomorus moniliferum											1								1
G	Littoraria articulata									2				3				1		6
G	Lottia dorsuosa																	4		4
G	Lunella coronata								7	1								5		13
G	Lunella granulata			9		6				4		10						15		44
G	Nerita squamulata						7		1			1								9
G	Nodilittorina radiata													5						5
G	Nodilittorina vidua			12														5		17
G	Patelloida pygmaea					3				1				1				4		9

Sep 2019	Sampling Zone TC3	Hig	h tida	l lev	/el (2	2.0 n	n abo	ove	C.E	D.)												
		1	:	2		3	4	ŀ		5		6		7		8		9		10		
Gp	Taxon	Q	С	Q	С	Q	CC	כ	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub-total
G	Pirenella asiatica	15		12		10				17												54
G	Pirenella incisa	10		12		8	7	,						1				15				53
G	Terebralia sulcata	18				2						15		15				18				68
Hc	Pagurus dubius															1		2		1		4
Р	<i>Maldanidae</i> spp.																	4				4
Po	<i>Lepidozona</i> spp.					3				1		1		1								6
																				Tot	al	774

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Sep 2019	Sampling Zone TC3	Mic	d tida	l lev	el (1	l.5 m	n ab	ove (C.D.)												
		1		2		3		4		5	6			7		8		9		10		
Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	CC	2	С	Q	С	Q	С	Q	С	Q	С	Sub-tota
Ва	Balanus amphitrite	12						17			2					2		1		11		45
Bi	Barbatia virescens	2				3					2					2		5		4		18
Bi	Glauconome chinensis					2		7			1											10
Bi	lsognomon isognomum									1												1
Bi	Saccostrea cucullata			6		13		13		6	1	5		18		6		13		18		108
Bi	Xenostrobus atratus					2								8		3		8				21
С	Gaetice depressus	2						2								1				1		6
С	Hemigrapsus penicillatus							1						5								6
С	Metopograpsus latifrons	1						1										15				17
G	Batillaria multiformis	4		23		4		12		12	1									4		60
G	Batillaria zonalis			17																15		32
G	Clithon retropictus	2				5					1					1						9
G	Lottia dorsuosa	2												4		5						11
G	Terebralia sulcata	7		8		17				6	5			4				8		5		60
G	Monodonta labio	8		7		22		7		3	1			3				1		4		56
G	Nerita squamulata	8				4		4								5		2		5		28
G	Pirenella asiatica	5		7				5		8	4			5						4		38
G	Pirenella incisa	3		8		8		5		1				4				1		24		54
Ne	<i>Nemertea</i> spp.		1								1							1				3
Р	Sabellidae imbricatus			2							1					1						4
																				Tot		587

Total 587

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Sep 2019	Sampling Zone TC3	Lov	v tidal le	evel (0.5	m abov	ve C.D.)									
		1	2	3	4	5	6	7	8		9		10		
Gp	Taxon	Q	CQ	CQ	CQ	CQ	CQ	CQ	CQ	С	Q	С	Q	С	Sub-total
Ва	Balanus amphitrite	18	17	12	14	12	2		1		2				78
Bi	Barbatia virescens	1		2			1		3		2				9
Bi	Glauconome chinensis		1			3	1		1		2				8
Bi	Saccostrea cucullata	22	10	6	5	16	23	35	21		32		15		185
Bi	Xenostrobus atratus	5	25		6	3		6	9		15				69
С	Gaetice depressus	1			1	2			1						5
С	Hemigrapsus penicillatus		1			1	1								3
С	Metopograpsus latifrons	1	1			3							2		7
С	Metopograpsus quadridentatus	2													2
G	Batillaria zonalis		1					1					26		28
G	Clithon retropictus			1	2		1				1				5
G	Lottia dorsuosa	1					6	4	5		5				21
G	Lunella coronata		2		4			1	2		4				13
G	Lunella granulata		4	9		14	15	10			18				70
G	Monodonta labio	1													1
G	Nerita squamulata		1		3	5	6	1	4		19		4		43
G	Omphalius nigerrima			1					2						3
G	Patelloida pygmaea	2		9				1	2		1				15
G	Pirenella asiatica	2		5	3	2		5					15		32
G	Pirenella incisa	5		10		6							8		29
Hc	Pagurus dubius		1			1					1				3

Sep 2019	Sampling Zone TC3	Lov	v tidal le	evel (0.5	m abov	ve C.D.)									
		1	2	3	4	5	6	7	8		9		10		
Gp	Taxon	Q	CQ	CQ	CQ	CQ	CQ	CQ	CQ	С	Q	С	Q	С	Sub-total
Р	Sabellidae imbricatus		5	7		6	1		1						20
Po	<i>Lepidozona</i> spp.	12		3				2					1		18
Sp	<i>Siphonosoma</i> sp.				1								1		2
													Tot	al	669

Key for faunal groups (Gp):

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, OI: Oligochaete,

Sep 2019	Sampling Zone ST	Hig	h tida	al lev	/el (2	2.0 m	n abo	ove C	C.D.)												
		1		2		3		4		5		6		7	8		9		10		
Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q C	Q	С	Q	С	Q	С	Sub-tota
Bi	Barbatia virescens													1	2				1		4
Bi	Saccostrea cucullata	18		10		8		22		7		15		25	16	;	5		26		152
Bi	Xenostrobus atratus													2							2
С	Gaetice depressus					1		1				2									4
С	Metopograpsus latifrons					1		1											2		4
G	Batillaria multiformis	4		7						2		24		1			15				53
G	Batillaria zonalis											2					26				28
G	Clithon faba	1																	2		3
G	Clithon retropictus					1		2													3
G	Littoraria articulata											3									3
G	Lottia dorsuosa	1																			1
G	Lunella coronata			4		2		4				4							1		15
G	Lunella granulata	18		4				1				5			10)					38
G	Monodonta labio	31		17		2		32									17		18		117
G	Nassarius festivus									36											36
G	Nerita squamulata														1						1
G	Nodilittorina radiata	12				10		11				2							21		56
G	Pirenella asiatica					3				4				16	5						28
G	Pirenella incisa									4											4
																			Tot	al	552

Key for faunal groups (Gp):

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, OI: Oligochaete, P: Polychaete, PI: Platyhelminthes, Po: Polyplacophores, S: Shrimp, Sc: Scaphopods, Sp: Sipunculan

Sep 2019	Sampling Zone ST	Mid	l tidal lev	vel (1.5 i	m ab	ove (C.D.)									
		1	2	3		4	5	6	7	8		9		10		
Gp	Taxon	Q	CQ	CQ	С	Q	CQ	CQ	CQ	CQ	С	Q	С	Q	С	Sub-total
Ва	Balanus amphitrite			7												7
Bi	Barbatia virescens		12				4	2								18
Bi	Brachidontes variabilis						1									1
Bi	Glauconome chinensis	3	8	9					1	4				4		29
Bi	Saccostrea cucullata	27	34	31		14	8	8	12	19		25		23		201
Bi	Xenostrobus atratus			4						1						5
С	Gaetice depressus						2					1				3
С	Metopograpsus latifrons		1											1		2
С	Metopograpsus quadridentatus		1						1							2
С	Pyrhila pisum											1				1
Cn	Diadumene lineata		1													1
F	Omobranchus fasciolatoceps													1		1
G	Batillaria multiformis	16	20	5		6		13	18	10				14		102
G	Batillaria sordida		6													6
G	Batillaria zonalis	28		20) 1	24	17	20	18	22	2	18		12		182
G	Clithon faba	7				1		2	2					1		13
G	Clithon oualaniensis		2						2					2		6
G	Clithon retropictus	3		1			1	2	1	3				1		12
G	Lottia dorsuosa							2		1						3
G	Lunella coronata	20		3		15										38
G	Lunella granulata	26	30	15	5		18		34			22				145

Sep 2019	Sampling Zone ST	Mid	tidal	evel	l (1.5 n	n ab	ove (C.D	.)												
		1	2		3		4		5		6	7	7		8		9		10		
Gp	Taxon	Q	СС	2	сQ	С	Q	С	Q	С	Q	СС	ג	С	Q	С	Q	С	Q	С	Sub-tota
G	Monodonta labio	18	3	2	18		16		8			2	24		15		16		7		154
G	Nerita lineata		4												35						39
G	Nipponacmea concinna				1				2		2				2						7
G	Nodilittorina radiata	12	3	2	8				11			1	0		19						92
G	Patelloida pygmaea				4																4
G	Pirenella asiatica	12	3		4				15		5										39
G	Pirenella incisa	9	3						7												19
Hc	Pagurus dubius											7	7								7
Р	Baseodiscus hemprichii																		1		1
Р	Sabellidae imbricatus		1																		1
PI	Platyhelminthes									1											1
Sp	<i>Siphonosoma</i> sp.		1				2														3
Sp	Sipunculus nudus															1			2		3
																			Tot	al	1148

Key for faunal groups (Gp):

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, OI: Oligochaete,

Provide <t< th=""><th>Sep 2019</th><th>Sampling Zone ST</th><th>Lo</th><th><i>n</i> tio</th><th>dal le</th><th>evel</th><th>(0.5</th><th>m a</th><th>abov</th><th>e C</th><th>.D.)</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Sep 2019	Sampling Zone ST	Lo	<i>n</i> tio	dal le	evel	(0.5	m a	abov	e C	.D.)												
Balanus amphibibile 22 22 Bi Barbatia virescens 16 6 22 Bi Glauconome chinensis 1 7 20 Bi Glauconome chinensis 1 7 20 Bi Saccostrea cucullata 96 6 38 50 65 62 49 366 Bi Xenostrobus atratus 20 20 20 20 20 20 C Gaetice depressus 1 6 6 13 6 8 6 8 C Metopograpsus quadridentatus 2 2 2 4 8 F Omobranchus fasciolatoceps 1 1 1 1 9 G Batillaria multiformis 28 20 13 18 22 17 11 9 G Crintin margariticola 28 20 13 18 22 17 18 32 G Lunella coronata 34 1 9 1 1 1 1 <t< th=""><th></th><th></th><th>1</th><th></th><th>2</th><th></th><th>3</th><th></th><th>4</th><th></th><th>5</th><th></th><th>6</th><th></th><th>7</th><th></th><th>8</th><th></th><th>9</th><th></th><th>10</th><th></th><th></th></t<>			1		2		3		4		5		6		7		8		9		10		
Bit Barbatia virescens 16 6 22 Bit Glauconome chinensis 1 7 2 49 366 Bit Saccostrea cucullata 96 6 38 50 65 62 2 49 366 Bit Xenostrobus atratus 96 6 38 50 65 62 2 49 366 G Getice depressus I I 6 2 2 40 366 C Gaetice depressus I I 1 6 2 40 366 G Metopograpsus latifrons I I I I I I 1 1 G Batillaria multiformis 28 20 13 18 22 24 28 20 13 38 G Batillaria zonalis 28 20 13 18 22 I 17 14 9 G Croinia margariticola 34 I 7 I 14 I 21 28 <td>Gp</td> <td>Taxon</td> <td>Q</td> <td>С</td> <td>Sub-total</td>	Gp	Taxon	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Q	С	Sub-total
BiGlauconome chinensis17	Ва	Balanus amphitrite							22														22
BiSaccostrea cucullata96638506562	Bi	Barbatia virescens									16		6										22
BiXenostrobus atratus2020CGaetice depressus1613CMetopograpsus latifrons22-6CMetopograpsus quadridentatus22-4FOmobranchus fasciolatoceps1-1GBatillaria multiformis16-24GBatillaria zonalis28201318GCronia margariticola28201318GCithon retropictus81GLourella coronata3414GLunella coronata31714-24GMonodonta labio121228241416GModilittorina radiata151714-131GPirenella asiatica15171330241653	Bi	Glauconome chinensis							1				7										8
CGaetice depressus1613CMetopograpsus latifrons2268CMetopograpsus quadridentatus2248FOmobranchus fasciolatoceps111GBatillaria multiformis28201318222017GBatillaria zonalis2820131822117118GClithon retropictus82411932111118GLottia dorsuosa2424141621248323434343434343436 </td <td>Bi</td> <td>Saccostrea cucullata</td> <td>96</td> <td></td> <td>6</td> <td></td> <td>38</td> <td></td> <td>50</td> <td></td> <td>65</td> <td></td> <td>62</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>49</td> <td></td> <td>366</td>	Bi	Saccostrea cucullata	96		6		38		50		65		62								49		366
CMetopograpsus latifrons22248CMetopograpsus quadridentatus221111GOmobranchus fasciolatoceps16224282088GBatillaria multiformis282013182211118GClithon retropictus282013182211109GClithon retropictus822411193232GLottia dorsuosa34111134343434343434343434343434343436343436343436343	Bi	Xenostrobus atratus											20										20
CMetograpsus quadridentatus22248FOmobranchus fasciolatoceps1111GBatillaria multiformis1624282013182224282017118GBatillaria zonalis28201318222488GClithon retropictus282013182224242832GCronia margariticola341149GLourella coronata3414-24288163GMonodonta labio1212122824141621288163GNordilitorina radiata15-171461870GPirenella asiatica15-13302416-83	С	Gaetice depressus									1		6								6		13
FOmobranchus fasciolatoceps11GBatillaria multiformis 16 24 28 20 88 GBatillaria zonalis 28 20 13 18 22 1 17 118 GClithon retropictus 8 1 24 18 21 17 118 GConia margariticola 28 20 13 18 22 1 17 118 GLottia dorsuosa 1 24 14 16 1 34 31 34 14 16 21 28 8 163 GLunella granulata 15 17 14 6 12 28 81 163 16 GNodilittorina radiata 15 17 14 6 16 18 70 GPirenella asiatica 15 17 14 6 16 18 70	С	Metopograpsus latifrons											2								6		8
GBatillaria multiformis 16 24 28 20 88 GBatillaria zonalis 28 20 13 18 22 1 17 118 GClithon retropictus 8 $ 1$ 1 9 32 1 9 GCronia margariticola 24 $ 1$ $ 8$ 32 1 1 1 9 GLottia dorsuosa $ 24$ $ 1$ $ 1$ 32 1 1 1 1 1 1 GLunella coronata 34 $ 14$ $ 24$ 76 $ 34$ GMonodonta labio 12 12 28 24 14 16 21 28 8 163 GNerita chamaeleon $ 2$ $ 13$ $ 18$ 70 GPirenella asiatica $ 17$ 14 6 $ 18$ 70	С	Metopograpsus quadridentatus							2		2										4		8
GBatillaria zonalis282013182217118GClithon retropictus819GCronia margariticola24832GLottia dorsuosa1-11GLunella coronata3414-2434GLunella granulata31-7141621288163GMonodonta labio12122824141621288163GNodilittorina radiata15-17146-1870GPirenella asiatica171430241683	F	Omobranchus fasciolatoceps											1										1
GClithon retropictus819GCronia margariticola24832GLottia dorsuosa1111GLunella coronata341142424GLunella granulata317142424GMonodonta labio12122824141621288GNerita chamaeleon221314161870GPirenella asiatica1517146161870	G	Batillaria multiformis							16						24		28		20				88
GCronia margariticola 24 8 32 GLottia dorsuosa 1 1 1 1 GLunella coronata 34 1 14 24 34 GLunella granulata 31 7 14 24 24 76 GMonodonta labio 12 12 28 24 14 16 21 28 8 163 GNerita chamaeleon 2 2 14 16 21 28 8 163 GNodilittorina radiata 15 17 14 6 1 18 70 GPirenella asiatica 1 1 14 6 1 16 18 70	G	Batillaria zonalis	28				20		13		18		22								17		118
G Lottia dorsuosa 1 1 G Lunella coronata 34 34 34 G Lunella granulata 31 7 14 24 76 G Monodonta labio 12 12 28 24 14 16 21 28 8 163 G Norita chamaeleon 2 2 2 13 1 16 G Nodilittorina radiata 15 17 14 6 18 70 G Pirenella asiatica 15 17 14 6 16 83	G	Clithon retropictus					8														1		9
GLunella coronata 34 34 34 34 34 34 34 34 34 34 7 14 24 24 76 GMonodonta labio12122824141621288163GNerita chamaeleon 2 2 2 13 1 101616GNodilittorina radiata15 17 14 6 2 16 18 70 GPirenella asiatica 15 1 13 30 24 16 16	G	Cronia margariticola							24												8		32
G Lunella granulata 31 7 14 24 76 G Monodonta labio 12 12 28 24 14 16 21 28 8 163 G Nerita chamaeleon 2 2 12 17 14 16 21 28 8 163 G Nodilittorina radiata 15 17 14 6 12 18 70 G Pirenella asiatica 15 17 14 6 16 18 70	G	Lottia dorsuosa											1										1
G Monodonta labio 12 12 28 24 14 16 21 28 8 163 G Nerita chamaeleon 2 - 13 1 16 G Nodilittorina radiata 15 17 14 6 - - 18 70 G Pirenella asiatica - - 13 30 24 16 83	G	Lunella coronata	34																				34
G Nerita chamaeleon 2 13 1 16 G Nodilittorina radiata 15 17 14 6 18 70 G Pirenella asiatica 13 30 24 16 83	G	Lunella granulata	31						7				14								24		76
G Nodilittorina radiata 15 17 14 6 18 70 G Pirenella asiatica 13 30 24 16 83	G	Monodonta labio			12		12		28		24		14		16		21		28		8		163
G Pirenella asiatica 13 30 24 16 83	G	Nerita chamaeleon					2										13				1		16
	G	Nodilittorina radiata	15						17		14		6								18		70
G Pirenella incisa 17 12 5 25 59	G	Pirenella asiatica											13		30		24		16				83
	G	Pirenella incisa											17		12		5		25				59

Sep 2019	Sampling Zone ST	Lov	w tida	ıl lev	vel (C).5 I	m abov	/e C	.D.)									
		1	1	2		3	4		5	6	7	8		9		10		
Gp	Taxon	Q	C	Q	C	Q	CQ	С	Q	CQ	CQ	CQ	С	Q	С	Q	С	Sub-total
Sp	Sipunculus nudus															3		3
																Т	otal	1220

Key for faunal groups (Gp):

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, OI: Oligochaete,



APPENDIX J

Waste Flow Table



MONTHLY SUMMARY WASTE FLOW TABLE

Name of Department: HyD

Contract No.: HY/2011/03

Monthly Summary Waste Flow Table for 2019

	Ac	tual Quantities	s of Inert C&E	Materials Ger	nerated Mont	hly	of C&D Wastes	s Generated Mo	onthly		
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract <i>(Note 8)</i>	Reused in Other Projects <i>(Note 8)</i>	Disposed as Public Fill <i>(Note 6)</i>	Imported Fill <i>(Note 6)</i>	Metals	Paper / Cardboard Packaging	Plastics (Note 3)	Chemical Waste	Others, e.g. general refuse (Note 8)
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	2.309	0.000	1.725	0.000	0.584	8.048	4.627	0.000	0.000	0.000	0.371
Feb	3.040	0.000	1.536	0.000	1.504	0.000	2.915	0.000	0.000	0.000	0.247
Mar	1.798	0.000	1.030	0.000	0.768	1.476	1.180	0.000	0.000	0.000	0.228
Apr	1.203	0.000	0.715	0.000	0.488	1.413	2.161	0.000	0.000	0.000	0.169
May	1.027	0.000	0.827	0.000	0.200	1.385	0.918	0.000	0.000	0.000	0.098
Jun	1.036	0.000	0.508	0.000	0.528	3.126	1.158	0.000	0.000	0.000	0.189
Sub-total	10.413	0.000	6.341	0.000	4.072	15.448	12.959	0.000	0.000	0.000	1.300
Jul	0.753	0.000	0.721	0.000	0.032	0.990	0.840	0.000	0.000	0.000	0.176
Aug	0.533	0.000	0.429	0.000	0.104	0.360	0.281	0.000	0.000	0.000	0.143
Sep	0.314	0.000	0.226	0.000	0.088	0.045	0.385	0.000	0.000	0.000	0.137
Oct											
Nov											
Dec											
Sub- total	1.600	0.000	1.376	0.000	0.224	1.395	1.506	0.000	0.000	0.000	0.455
Total											

	Forecast of Total Quantities of C&D Materials to be Generated from the Contract*												
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported	Metals	Paper / Cardboard Packaging	(caa Nata 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 recycling.
- (6) Conversion factors for reporting purpose:

excavated (bulk): rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³; sand=1.9 tonnes/m³; Metal=7.85 tonnes/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



APPENDIX K

Cumulative Statistics on Complaints



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1967赛源德超普出增超等源大规制地度,增与水相到自由(增强是激出污),污染環境,要求跟進及回覆。 (Photos atlached). The "phenomenon" was observed over the past week. The photos atlached 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 repty. 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 Neusance: • 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 • 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	-	<h2mbenquiry@hyd.ge v.hk></h2mbenquiry@hyd.ge 	o Environmental (Noise)	The complainant stated that lately work has started opposite Le Steu Deux estate using barges. The work in process is generated high weld noise from powered tools used on those barges. Even if the noise was acceptable on weekdays during dydrine, it is definitely creating nuisance to local resident at night (past Tym) and on Sunday. Basically as 5 November 12 evening, he could not lave his window open as the elevel of noise preven this baby to sleep and he could not even hear the TV in his flat, the noise coming from the site is higher then the sounds from my TV. He would like to know what measure you are planning to µt 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.ge v.hk></hzmbenquiry@hyd.ge 		The noise can be very amoying, on days depending of the wind direction, you are making more noise than the plane taking of df I measured in trivedil. I get you an ixis of the disturbance you are creating again. I would also like to bring an other tapic baside the noise. Since the beginning of the filling operation, very strong smell of exhaust pipe gas can be smell in the residential area and think this is a ruge heath concern for the local population. On certain days when the wind is blowing towards the residential area. 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	-

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 HyO dated 15 Nov 2012 to EPD and Health Department and he further complained on the following issues:	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/entroice safety matters; - The supervision teams would enhance their tight control on the vessels and barges working at that location, and monitor the situation - The supervision teams would enhance their tight control on the vessels and barges working at that location, and monitor the situation - To enhance their tight control on the vessels and barges working at that location, and monitor the situation - To enhance their tight control on the vessels and barges working at that location, and monitor the situation - 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 Uticant to all moving parts and garwheels of the working barges to avoid generation of abnormal	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 extraust pipe fumes small coming for the construction site in Tung Chung tonight as well as the extremely high level of noise as at at 10:30 pm (19/11/12).	WA6	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 - Al generators shall be either screened or covered by adequate sound reducing materials;		
COM-2012-010(5)	24-Nov-2012		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 bad used to transport staff in and out - boats blowing their horn late in the evening and at night Gas emissions: - marine operation The complianant file again a complaint against the strong exhaust pipe emission flowing towards le Bleu Deux estate this afternoon 24/111/10 at 1347.1 can assure you that is it not "not that bad" whatever that means for you. And again strong noise of metaling tarts 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 barries.	WA6	Al generators situated in front of Le Bleu Deux estate will be switched off at 1:0:00 hrs, except two generators will be kept running our bit 22:00hrs and one generator will be kept running our bit 22:00hrs and one generator will be kept running our bit 20:00hrs and one generator will be kept running our bit 20:00hrs and the CJP 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 kept and in power statistic from 6 December 2012. Exhaust Furne 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 Saw Vater in Vellow The Contractor was reminded to move their vessels and barges at areas with adequate water depth as practically as possible.		
	25-Nov-2012	22:02 hrs. 22:08 hrs.	EPD (cc to HyD)		At 21:56 hrs., boat used by the Highway Department against blew their horn repetitively at close proximity from the residential estate.	Portion X			
COM-2012-012(1)	13-Nov-2012	22:27 hrs.	НуD	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 III 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 gene 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 sile of China State Contruction Engineering (Hong Kong) Ltd near Siu Ho Wan Sewage Treatment Works due to insufficient dust suppression and inadequate wheel washing.	WA3	The Contractor of HY/2011/03 would take the following actions with immediate effect > To ensure no lossed earth material by adequate tarpaulin; > To cover the stockpiled earth material by adequate tarpaulin; > To cover the stockpiled earth material by adequate tarpaulin; > To enhance the frequency of watering (3 times per valy) 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	

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2013-016	18-Jan-2013	-	EPD	Environmental (Water)	The complainant advised that turbid water and concrete/cement has been arising from the Hong Kong-Zhuhai-Macao Bridge Hong Kong Projects to marine water. The complainant did not specify the soure of the turbid water and concrete/cement.	N/A	-	Closed	-
COM-2013-018	02-Mar-2013	-	HyD	Environmental (Noise)	The complainant advised that "It seems that the Contractor's cranes operating on the barges are again in need of bit of labricant, 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 Bieu 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 routime 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	14:19 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	-
	24-Mar-2013	10:28 hrs							
COM-2013-018 (5)	31-Mar-2013	10:25 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	-
	1-Apr-2013	10:32 hrs							
COM-2013-018 (6), (7) & (9)	15-Apr-2013	15:41 hrs	EPD	Environmental (Noise)	The complainant complehend that machinery noise generated from the construction site near Tung Chung Development Pier operating for the Hong Kong-Zhuha-Macao Bridge Hong Kong Aung 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 metricided hours. To minimize the optimitian during restricted hours and non-restricted hours, the Contractor has implemented the following additional measures: - Operating barge by experienced operators only: - Resignia daquate routher mainteamate for barges e.g. application of lubricants into moving parts in order to minimize squeak noise; - Install noise covers onto noisy equipment where practicable. - Minimized the quantities of plant used after 7pm as far as practicable. - Minimized the quantities of plant used after 7pm as far as practicable. - Minimized the quantities of plant used after 7pm as far as practicable. - Minimized the quantities of plant used after 7pm as far as practicable. - Minimized the quantities of plant used after 7pm as far as practicable. - Minimized the quantities to role to shorten the duration (dive) of potential noise impact/nuisance to the surrounding environment: and working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	-

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2013-018 (11)	28-Apr-2013	15:44	EPD	Environmental (Noise)	The complainant complained that machinery noise generated from the reclamation site near Tung Chung Development Pier at around 22:00 of 28 April 2013 causing nuisance to public.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - Potenting years the operator of the barges for proper operation of maintee vessels; - Operating barge by experimented operators only; - Keeping adequire under mainteement 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 subcontrador only well-maintained plant should be operated on-site. - Speed up of construction works in order to shorten the duration (days) of potential noise impact/nuisance to the surrounding environment; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	
COM-2013-022	08-Apr-2013	-	EPD	Environmental (Water)	The complaint alleged that oil was dumped from various vessels operating for HZMB HK projects near Tung Chung Development Pier over the past few months. Photos were provided by the complainant.	Portion X	The Contractor has checked the photos provided by the complainant and confirmed that the vessels and boats shown in the photos do not belong to Contract No. HY/201103.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 vesselse. It was alloged that oil was still being durped from various vessels parenting 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 Flar in case of accidential 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	-	НуD	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 Contraction 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: - Nimimized 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 bargs 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 CMP 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: -inimize 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	-

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2013-041	31-Oct-2013	21:52 hrs	EPD	Environmental (Noise)	A complaint was received on 31 October 2013 regarding the noise generated from a barge being moved by a tug boat in the morning of 31 October 2013 (around 05:35).	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 quantifies 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 paradicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during restricted hours.	Closed	-
COM-2013-045	27-Dec-2013	-	HyD	Environmental (Noise)	A complaint was received on 27 December 2013 regarding barges operating at the south channel of Portion X in the afternoon of 26 December 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - minimize the quadities of plant used during restricted hours as far as paradicable; 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 furnes 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	(Other: Dredged	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-Zhuha-Macao Bridge Hong Kong Link Road Project in the vicinity of CAD headquarters and transported out of the site. The complainant suspected that there was improper disposal of dredged marine sediment.	Portion X	Based on the investigation results, it is considered that the complaint is invalid. In this case, no follow up action is required.	Closed	-
COM-2014-051	29-Apr-2014	-	SOR	Environmental (Noise)	A complaint was received on 29 April 2014 regarding loud bang coming from the site at 21:37 hrs on 28 April 2014.	Portion X	Based on the Contractor's site dairy and our investigation, no non-compliance was identified.	Closed	-
COM-2014-053	02-May-2014	-	EPD	Environmental (Noise)	A complaint was revelved 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 ONP 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 complant to CE of HyD at about 20:04 hrs is at night. He complained about the noise nuisance coming from site office since 19:30 hrs last night experitively metal grants 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	

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
DM-2014-065	24-Dec-14	Nil	EPD	Environmental (Water Qulity)	A complaint was received on 24 December 2014 regarding the increase of marine refuse (water bottles and debris) along the shore from Yat Tung to Tai O, where the complainant considered might be in relation to the HZMB project(s).	Portion X	Based on the investigation results, it is considered that the complaint is unlikely related to HKLR03 Contract. Nevertheless, the Contractor is reminded to implement all recommended mitigation measures for waste management and avoid dumping rubbish into the sea.	Closed	-
M-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	-
M-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 Caribbeam Coast. According to the complainant, he was disturbed by noise from construction activities of the H2MB Project during weekends and holdsys. 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. CW-R50113-15 and GW-R50356-15. Hence, no non-compliance was identified. The Contractor has been reminded to comply with CNP conditions for constructions works underlatend during restricted hours and recommended to implement restricted hours as far as practicable: and regular review of working duration for restricted hours works and switch off all unnecessary machinev and claind during restricted hours.	Closed	-
M-2015-074	16-Jul-15	Nil	EPD	Environmental (Wastewater)	According to EPO'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	-
M-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 heishe was disturbed by the noise generated from construction sites of the HZMB Project during the dysime period of past free Sundays. Alterwards, 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 War Road	Based on the information provided and our investigation, the Contractor complied with the conditions laid down in Construction Noise Permit (CNP) Nos. GW-R50733-15 and GW-R50740-15 and no noncompliance was found. 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	-
м-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 compliant was included by EPD on 2 December 2015 regarding water quality mair HLL work site. The compliant interioristication that 1 moved to 1 ung Chung sine. July and 1 var the second time I saw similar situation polluting the sea. Last time it was even worse in red coloru. Please look into this matter and let the know what was being dorpool in the sea and whether it was hardwate to the sea. TeD 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 derive barge belongs to Contract Ne. HY/2011103. The concernend earlier of plane was likely be caused by stiring up of much in the seaked by the derive hange saided at the surgiation channel situated at shallow water zone where the water depth ranging from 3.25m – 3.75m. Public fill materials were placed on the derive barge. The barge was in good concilients with on materials being dumped in to the sas. The Contractor has been implementing the mitigation measure as specified in the Implementation Schedule of Environmental Miligation Measures that is all vessels to be sized such that adquarte clearance is maintained between vessels and the sea bed at all states of the fide normal that undue turbidity is not generated by turbulence from vessel movement or propetier wash. The Contractor has been that undue turbidity is out of the site are during high tide to avoid the disturbance to the seable at a states of the fide normal vessels to move out of the site are advinng high tide to avoid the disturbance to the seable at a states of the fide normal set of the site of the in order to minimize the number of trips and disturbance to seabled in shallow waters.	Closed	-
M-2016-087	28-Jun-16	Nil	EPD	Environmental (Water Quality)	According to EPO'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 toobox / refersionent 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	-
M-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 "Egi300 (Chang Sharg 300)" during the vessel travelling from construction site of Hong Kong-Zhuhal- 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 traveling in very shallow vater areas as much as pradicable. Also, the Contractor was reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule (EMIS).	Closed	-
M-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 completinit lodged by a member of the public regarding surry on East Coast Road. The completinant considered the surry 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. HV7201103. The Contractor has constructed wheel washing facilities at all the site accesses, including the ore next the site access of China Harbour Engineering Company Limited not to the Marriot Hotel (which is believed to be the hotel mentioned by the complianant), to wash and clean all vehicles before allowing them to leave the construction site to ensure that no mud or other definit would be to bound 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. HV72011/03 to multitare truck at least twice per day at the section of East Coast Road adjoining the site boundary of Contract No. HV72011/03 to multitare truck at least twice per day at the section of East Coast Road adjoining the site boundary of Contract No. HV72011/03 to multitare truck at least twice per day at the section of East Coast Road adjoining the site boundary of Contract No. HV72011/03 to the multitare at the section of the investigation results, it is considered that the compliant unlikely related to Contract No. HV72011/03. No. Notwithstanding that, the Contractor has been reminded to clean wheels and body of vehicles as usual before allowing them to leave construction site.	Closed	
DM-2016-100	14-Dec-16	Nil	ENPO (Contract No. HY/2010/02 project team received an environmental complaint referred by Government's hotline (1823) on 2 December 2016. ENPO forwarded the Complaint to Contract No. HY/2011/03.)	Environmental (Other: mud/ derbris on public road)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 14 December 2016 that EPD received a complaint lodged by a member of the public regarding muddebris on public road. The compliante duration whole stretch of East Coast Road & Tung Fair Road is truly disputing. 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 I 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 on the roads. Oversight of road conditions are not carried out by the Alport 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 ETs inspection on 7 December 2016 (weekly routine inspection) and 16 December 2016, no mut or detris 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 Fa Road leading to the site access of Contract No. HY/2011/03. The Contractor provided wheel washing facilities at lith e site accesses, including the one accessing East Coast Road and the one accessing Tung Fa Road, to wash and clean all vehicles before allowing them to leave the construction site to ensure that no nud or detris 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 CoastI Road adjoining the site boundary of which would be brought to the wolking and of Tung Fa Road wee paved with concrete. High pressure jets were also provided at the wheel washing facilities for cleaning of whiches before the whiches were allowed to leave the construction site. In addition, regular watering at the section of East CoastI 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. Netwitshanding that the Contractor has been reminded to clean the wheels and body of vehicles as usual before allowing them to leave construction site.	Closed	

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2016-103	14-Dec-16	Nii	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 compliant lodged by a member of public. The compliant was about hammering noise generated from construction tails all individing in the past month. The compliant could not identify the source but noise generated from construction tails all individing in the past month. The compliant could not identify the source but source EPD superson enter that the compliant but States also noted from ENPO's email on 21 December 2016 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-85740-16 and no non-compliance was found. Based on our investigation result, it is considered that the compliant is unlikely related to Contractor compliance the compliance of the compliance of the compliance of the compliant is unlikely related to Contractor Suppliance in the conditions septiated in the Construction Noise Permit for construction works underlaken during restricted hours and the some recommended to implement the construction Noise Permit for construction works underlaken during restricted hours as far as practicable; - minimize the number of machinery and plant used during restricted hours as far as practicable; - regularly review the working during for restricted hours.	Closed	-
COM-2017-104	09-Jan-17	Nii	IEC (EPD referred the email from Complainant to IEC)		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 todged by a member of the public (a bus operator at the HK(A) regarding cleanliness problem at East Coast Road and Tung Fal Road.	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 wheilse before allowing them to leave the constructions site onsirus that no mu of orkers would be torought to the public area. No mud was observed at the section of Tung Fai Road leading to the site access of Contract No. HY/201103. However, some mud was observed at the section of East Coast Road advice that no mu of orkers No. HY/201103. The Contract hows observed allowing them to leave the constructions the onsirus to state to Contract No. HY/201103. The Contract hows observed allowing them is no direct evidence showing that the compliant is related to Contract No. HY/201103. The Contract hows been monitored to explore allowing the site or the site of the the second second to the second second the velocity of the site of the second second second second second to the second secon	Closed	
COM-2017-108	23 February 2017 and 2 March 2017	Nil	Kong (AAHK) via SOR	(Air quality, Water	AAHK databid in their email to SOR on 23 February 2017 that there was sandmuddy water accumulating along the water barriers at East Coast Road Southound. AAHK along lodged a compaint to Hyb, which HyD referred to ENPC 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.	Road	During ET's observation on 3 and 13 March 2017, properly functioning wheel washing facilities were provided to wash all whicks prior to leaving the settin The section of road between the wheel washing facilities and the site access (S23) was hard paved and no mut sit 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 hower than that of East Coast Road. The possibility of muddy water separation process to Road is low Based on our investigation result, the complaint is unlikely to be related to Contract No. HY/2011/03. NewHeelss, the Contractor has been reminded to siticify upkeep the proper practice of washing all whiches leaving the 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 加ま日をProceeved 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) 大治1+56. 居外間的有非常常完容器: 無罪影響意是论指珠浪大指正人工部的工程智计,場合 — 至王家元 另今早弱現代 感謝出節問受對一大部守後,使用計)。以上意問意是大規工程序活成的污染「i.e. *At around ten ociock 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 and from the Hong Kong-Zhuhai-Macao Bridge project near the artificial island, the noise lasted and from the Hong plaume of pollution found on the sea (see phote). These should be caused by the bridge project."		Based on the information provided by the Contractor and our investigation. It was concluded that the Contractor had complex with the conditions laid down in CNPs No. CWR-S1135-16 and GWR-S0016-17 and that non-compliance on water quality was found. It is considered that the compliant 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 stiguidated in the Construction Noise Permit for construction works undertaken during restricted hours: and has been reacommended to implement the following measures to minimize the potential noise impact during restricted hours: and plant used during restricted hours as far as practicable; - regularity 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 lide in order to reduce the sediment plume at shallow water areas.	Closed	
COM-2017-113	20-Apr-17		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投資格構成素式傳導和傳導人是直接當一些一些一些一些一些一些一些一些一些一些一些一些一些一些一些一些一些一些一些		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 none 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 EN&A Manual through undertaking monthly measurement on the overlapping and separation openings for vessels access for prompt rectification.	Closed	-

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

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2016-095(3)	27-May-17	Nii	SOR (HyO 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. Pis help take pictures & point out ou swhere your noise barriers enclosed. If these 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 apportate location and cover the breaker tip with accusite materials as noise mitigation measure against the noise emission associated with the adressial construction advites. Merever, the noise barriers have been located as aclose as possible to the noise source (rock treaking work). Also, gaps and openings at joints in the barrier material have been minimized. The rock breaking work was completed noise 11 May 2017 and the rock threaking machine had been demobilized off site. According to information from Centractor, removal C&D materials will be carried out at the site near CAD and CNAC buildings in the thure. As such, noise nuisance generated from a site will be arried and at the site near CAD and CNAC buildings in the thure. As such, noise nuisance generated from a site will be carried out at the site near CAD and CNAC buildings in the thure. As such, noise nuisance generated from a site will be near boretist and been demobilized to the noise mitigation measures on the site to minimize Advectime timpach: - Additional noise barriers have been erected in the active working area to further mitigate the associated noise emissions as far as practicable; - Ower the breaker tip with acoustic material. - Noise barriers have been excise as possible to the noise source. Also, gaps and openings at joints in the barriers material have been minimized.	Closed	
COM-2016-095(4)	15-Aug-17	Nil	ΗγD	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 buildoor is working nearby and no noise barriers/sound proofs were set up. Please take corrective action asap. Kindly advise us when this buildooring work is scheduled to complete."	Dragonair / CNAC	The major rock breaking works near CNAC Tower were substantially completed on 31 May 2017. However, survey record revealed that minor rock breaking works near CNAC Tower were substantially completed on 31 May 2017. However, survey record revealed that minor rock breaking timming work was required at the formation level for the construction of box culvent no. PR14, hence, the photos provided by the complainant, movable noise barriers were not located near the noise source (rock breaking/timming work). As contractor used a hydraulic breakes provided by the complainant, no buildozer was used at PR14 on 15 August 2017. According to the photos provided at PR14 in near future. ET conducted an investigation on 16 August 2017. The minor rock breaking/ rock trimming work was completed. Only one exeavator was operating for forming the hault road at the concentered location. No significant noisy activity was observed during the investigation on 16 August 2017. Also, buildozer was lobserved on the site. Based on our investigation result, it was likely that concerned noise emission was due to the minor rock breaking/ trimming work by the hydraulic breaker. It is considered that the complaint is likely reliated to Contract. No HY201103. According to Contractor information, no substantial rock breaking works will be conducted at near CNAC Tower. Only minor rock breaking trimming work may be occasicably conducted at the concerned work area. The Contractor ho HY201103. According to Contractor - Schedule noisy work (i.e. rock breaking) during non-office hours as far as practicable subject to exclusion sepsiste to accurate the noise source. Also, gaps and openings at joints in the barriers as code as possible to the noise source. Also, gaps and openings at joints in the barriers as code as possible to far a spracticable subject to exclusi alter gorgess: - Cover the breaker tip with acoustic material; - Locate noise barriers as codes as possible to the noise source. Also, gaps and openings at joints in the bari	Closed	
COM-2017-122	03-Oct-17		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 - Hy0 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 deanliness problem at Tung Fal Road, as described below: "这話大喊山,近畿東東部路 11號君職北,宣對出,巴士达附近,是地球澳大概地盤其中一個出入口,經常有大量重型工程車輛進出地盤。每邊有巴士或重 型車輛經過時, 國部沙羅開發起, "起"之"是事",等候巴士的乘客使道殃。以前有灌水車噴水減低沙麼,現在灌水車都沒有出现 。要求部門改善沙靈問題。"	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 516 at Tung Fal Road to wash and clean all vehicles before allowing them to leave the construction site to ensure that no mud or dehris would be brought to the public area. It was also observed that the Contractor did provide water bowser to thoroughly clean Tung Fal Road. No mud was observed at the section of Tung Fal Road leading to the site access 516 of Contract No. HY/201103. Another inspection was conducted on 12 October 2017, the section of the road between the wheel washing facility and the site access 516 was hard paved and no mudsite was observed at the concerned road section and the site access 516. Although Contract No. HY/2011/03 is the only construction site connecting to the Tung Fal Road the mentioned bus stop, wheel washing facility with high pressure jets is provided at the site access 516 to wash and clean all vehicles before allowing them to leave the construction site. Nor mud or dehris would be brought to the public area. Therefore, there is no direct evidence showing that the complant is related to Contract No. HY/2011/03. Newtheless, in order to enhance dus uspression 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		ENPOrs email to the Supervising Officer's Representative and Lanuary 2018 that HyD received a complaint todged 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 deanliness problem at East Coast Road on 29 December 2017. The complaint details are described below: 1986. 人经济方式: 你如果的其实,我就能没有就是一些的问题,都可安排了有關法指導及设置事處理有關沙燈問題,但有關 單欄比上的問題的違理成次未知理想,投所人表示法由单在清洗有解問面前,只是问意面達水,使得不能沙燈問題。但有關 單欄比上的問題的違理成次未知理想,投所人表示法由单在清洗有解問面前,只是问意面達水,使得不能沙燈的思想。 如果有能了其他意味。這些問題解的本名其有我的。另外,有關吸奧的時間處示才知识吧。與要畢家了比上的影響後所關於的 單體作識沙燈,以就有關沙燈除了未被吸走外,更導致道路沙燈說很。要求部門監察有關乎朗視,預過部門跟進及回覆。"	East Coast Road	Based on our investigation result, there is no direct evidence showing that 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 endermine) endermine and endermine of the contract of the contract of the contract No. HY/2011/03. In contractor has been reminded to implement the following measures to minimize dust impact (improve cleanliness at East Coast endermine) endermine and control by rope stopping vehicles entering public road without wheel weaking. Provide training for drivers to ensure that the can use water truck and road sweeper properly for road weaking. • 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	-

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-2018-132	13, 14 February 2018	Nil	HyD (GOR referred the email from HyD to email from HyD to 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 withessed increased construction activities causing concerns such as nuisance, air and water pollution, construction wasels buildfill with any cause health and safety to the surroundings. Automatic activity and the state of the state of the stope of the construction waste landfill with Construction waste landfill with increased height, size and degree of the skope of the construction waste landfill with Construction waste landfill with increased height, size and degree of the skope of the construction waste landfill and Construction waste landfill with increased height, size and degree of the skope of the construction waste landfill Moroover, we are particularly concerned with the stability of the construction waste landfill with and has grown talker and larger in size with steep skopes which may cause potential danger and hazardous to the surrounding area. It is agenceited 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." Another complaint to FDV was received from the SORs email on 14 February 2018. The complaint was the same as the abovementioned with two figures showing the location of Dragonair & CNAC (Group) Building and Cathay Dragon House.	Near Dragonair / CNAC (Group) Building (HKIA)	Based on our investigation result, the complaint was related to Contract No. HV/2011/03. The Contractor has implemented Environmental Miligation Implementation Schedule as per the EM&A Manual. Also, the Contractor was reminded to remove the concorrent stockpile of the fill materials as soon as possible to minimize the potential nuisance caused to the nearby sensitive receivers.	Closed	-
Follow-ups of Complaint No COM- 2018-132	16 March 2018 and 21 March 2018	NI	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,	The complaint of 16 March 2018 was addressed to HyD and its details were as follows: "1) It was observed from daily photos that: a. Inadequate dust suppression measures implemented. b. Green tarp does not cover the entire pile of the waste land fill. c. Dry soil constantly being observed, and constantly picked-up by strong gusty winds within CLK area. d. Large boulders and steep slopes on waste landfill, with inadequate safety measures implemented. 2) It was noted that the open stockylole of construction waste landfill wite removed by the end of March 2018. Please confirm the date of completion of the removal of the stockplie. 3) Please advices if the slope and setting of the piles of earth complex within Building and other relevant Regulations. 4) The works on the site should be within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please confirm if the works are within a valid gazetted period, please and within CLK area Locon budiet the ref. [F2F]/M0FS000047673718 [J dated 09 March 2018, would like to further draw your attention to the open stockplied or antify observed, and constantly	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 ANK9 - Dragonair Building during the petitor of from 1 February 2018 to 30 April 2018. Far of the stockpile was observed dry during ETs ale inspection on 27 March 2018. Proper watering on the stockpiles was observed undertaken afterwards. The Contractor has been continuously reminded to properly implement Environmental Maiguiton Measures as per the EMAs Manual. The Contractor was also reminded to remove the concerned stockpile of the fill materials as scon as possible to minimize the potential nuisance caused to the nearby sensitive receivers.	Closed	-
COM-2018-142	29 June 2018 & 6 July 2018	5 Nil	EPD (EMPO referred the email to SOR Contractor and ET)	Noise	The complaint of 29 June 2018 was received from EPD and its details were as follows:- EPD have recently received a complaint reliant and described as below:- favior study line to raise your complaint cellular and described as below:- favior study line to raise your from 20 Tring Chang direction. From the video link below, it seems like the noise is mainly from the breaking of rocks using powered mechanical equipment. Intus://www.dropbox.com/s/6345f2b3c93899/ING_3137.MCV7dI=0 Our colleague as Cathay Dragon House, hace as complaint that such disturbance has been going on for a week and works are carried out throughout the whole day. Please advise whether: 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/inoise stops; Furthermore, 5. M Lai mentioned in your previous email 18 April 2018 that the works should have completed end April 2018. Why is the works aligo ging on? 4. If La mentioned in he letter dated 11 April 2018, you would conduct site inspections. Have you noticed any non- compliance. Your prompt response is appreciated."	Near Dragonair / CNAC (Group) Building (HKIA)	Based on our investigation result the compatinir was related to Contract Nx HY201103. The Contractor has implemented intromomental Mitigation Implementation Scholaki as per the BMA Manual such as cover the breaker (applementation carafilies of noisy plant as far as practicable. Although the rock breaking works outside the Cathay Dagon House/ Dragony & CONAC (Croup) Building were completed on 9 July 2015, 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	-

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
Complaint No.	Received Date		HyD (SOR referred the email from HyD to	Other: Construction work on Sunday	A further complaint was received on 6 July 2018 from EPD and its details were as follows:- Tarther 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 lows is the time schedule our staff regarding the noise disturbance from the site which is frequent and continuous. Date Time 3 July 2018 8:30am - 11:30am, 1:30pm - 5:30pm 5 July 2018 8:30am - 11:30am, 1:30pm - 5:30pm 7 July 2018 8:30am - 11:30am, 1:30pm - 5:30pm 9 Rease 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 see wher alternative complain channel. Your immediate action on this matter is highly appreciated." "We would like to get your urgent attention to the noise nuisance matters that is occurring outside Cathay Dragon House (facing sesside Tung Chung). There have been extreme noisy works conducted, without proper noise mitigation matter, with noise DB leves reaching 7-100dB, and is seriously affecting our company operations. Please urgently attend to the matter and advise further on the email below, and implement the proper noise reducing and mitigation procedures. Lastly, we also understand the works should have been completed. Therefore, why are there still construction site works going on?" The details of the complaint were as follows:		Based on our investigation result, the concerned work activity compled with the valid CNP. 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	Status	Remarks
			Contractor, ET and IEC/ENPO on 10:17 am, on 24 Dec 2018)	Morning	Email received by HyD on 23 December 2018 at 10-49hrs "How come someone is doing some construction work on sunday morning (23/12/18, 10:30am)??? Looks like your dristmas holidays i going to turn into an investigation holiday!!! Looking forwards to hearing from you? I am sure David will be more than happy to assist, your investigation over the holidays!!" Email received by HyD on 23 December 2018 at 11:11hrs Tby the way have you issue a "permit to annoy people" based on merit to operate a crane this sunday? If not I am looking forwards to know the action you will take. Don't estate to contract Chief Lam he will surely be very happy to provide any assistance you need to find out who is the rogue employee working under him so you can take the necessary legal action."		construction works undertaken during restricted hours.		
N/A	03-Apr-19	Nil	EPD (ENPO referred the email from EPD to HyD, SOR, Contractor and ET) through email	Dust	Email received by EPD on 3 April 2019 **投诉人表示海逻辑畔對面有港珠澳大橋的地盤正進行工程,工程期間會播起大量產土,引起污染,影響海堤灣畔居民,要 求部門跟進事宜。"	N.A.	Based on our investigation result, there is no observation of dust emissions arising from the Contract No. HY/2011/03. The Contractor has implemented the Environmental Mitigation Implementation Schedule as per the EM&A Manual, the Contractor has been reminded to strictly maintain the dust mitigation measures during carrying out of their construction works to minimize the dust nuisances to nearby sensitive receivers.	Closed	-
COM-2019-163	30-Apr-19	Nil	SOR referred details of complaint to Contractor, ET and IEC/ENPO through email	Waste	The details of the complaint were as follows:- ""ubbits and rules pile up by the road near a bus stop breeding numerous files and pests. huge annoyance and hygiene problem to the public. pis clean up."	Near Dragonair / CNAC (Group) Building (HKIA)	Based on our investigation result, there was no observation of works in the area of complaint on issue of general refuse arising from the Contract Ne. NPV201103. The Contractor has implemented the Environmental Miligation Implementation Schedule as por the EM&A Manual, the Contractor has been reminded to strictly maintain waste management procedures during their construction works to avoid the hygiene impacts to nearby sensitive receivers.	Closed	-



APPENDIX L

Environmental Licenses and Permits





Summary of Environmental Licences and Permits Application and Status

Environmental Permit

Date Application Submitted			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

ltem 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 22 Feb 2018	Valid until 31/03/2023
4	15.01.2013	WA 4	Application Ref No. 356240 Water Discharge License Ref. WT00016158-2013 was surrendered on 24 May 2018	N/A
5	04.01.2018	Airport Road (Southern)	Application Ref No. EP/RS/0000354266 Water discharge license Ref. WT00032071-2018 was granted on 23 Oct 2018.	Valid until 30/04/2023
6	04.01.2018	Airport Road (Northern)	Application Ref No. EP/RS/0000354018 Water discharge license Ref. WT00031778-2018 was granted on 23 Oct 2018.	Valid until 30/04/2023
7	10.03.2017	WA7	Application Ref. No. 414487 Water Discharge License Ref. WT00027958-2017 was surrendered on 01 Feb 2018	N/A

Construction Noise Permit

Item	Date Application	Works Area	Decorintion	Status	CNP No.	Validity of CNP	
No.	Submitted	Applied	Description	Sidius	CNF NO.	From	То
1	19.03.2019	WA3	Stockpiling/ wastewater treatment	CNP issued on 02.04.2019	GW-RS0284-19	05.04.2019 0000	03 .10.2019 2400
3	30.04.2019	All Works Area	All Works	CNP issued on 14.05.2019	GW-RS0409-19	20.05.2019 0000	19.11.2019 2400



APPENDIX M



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	V
\$5.5.6.2	A2	 2) Proper watering of exposed spoil should be undertaken throughout the construction phase: Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; A stockpile of dusty material should not be extended 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 exit point should be paved with concrete, bituminous materials or hardcores; 	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	√
S5.5.6.2	A2	 When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; Any skip hoist for material transport should be totally enclosed by impervious sheeting; 	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	V

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

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	~
\$5.5.6	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria Throughout the construction period	Contractor	Selected representative dust monitoring station	Construction stage	√
S5.5.71	A6	 The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant: Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; Vents for all silos and cement/ pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; The materials which may generate airborne dusty emissions should be wetted by water spray system; All receiving hoppers should be enclosed on three sides up to 3m above unloading point; All 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
\$5.5.2.7	Α7	 The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point: All road surface within the barging facilities will be paved; Dust enclosures will be provided for the loading ramp; Vehicles will be required to pass through designated wheels wash facilities; and Continuous water spray at the loading points. 	Control construction dust	Contractor	All construction sites	Construction stage	V
Noise						<u> </u>	I
S6.4.10	N1	 Use of good site practices to limit noise emissions by considering the following: only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Control construction airborne noise by means of good site practices	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S6.4.11	N2	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites	Construction stage	V
S6.4.12	N3	 Install movable noise barriers (typically density @ 14kg/m²), 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	V
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	V
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	V
	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	V
Waste Man (Construct							
S8.3.8	WM1	 <u>Construction and Demolition Material</u> The following mitigation measures should be implemented in handling the waste: Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Adopt 'Selective Demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible; 	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
		 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	 <u>C&D Waste</u> 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
\$8.2.12- \$8.3.15	WM3	 Chemical Waste Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation. The storage area for chemical wastes should be clearly labeled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated. Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD. 	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	Ρ

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	 <u>Sewage</u> 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	V
S8.3.17	WM5	 <u>General Refuse</u> 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	P

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

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
<u>S9.11.1-</u> <u>S9.11.1.2</u>	W1	 Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted; barges shall have tight fitting seals to their bottom openings to prevent leakage of material; any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; loading of barges shall be controlled to prevent splashing of filling materials to the surrounding water. barges shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; all vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; and the works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site. 	To control construction water quality	Contractor	During seawall filling	Construction stage	
S9.11.1.3	W2	 <u>Land Works</u> General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include: wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters; 	To control construction water quality	Contractor	During seawall filling	Construction stage	V

EIA Ref. EM&. Log Ref.	A	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
S9.11.1.3 W2		 sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided; storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; temporary access roads should be surfaced with crushed stone or gravel; rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms; manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into foul sewers; discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; 	To control construction water quality	Contractor	During seawall filling	Construction stage	

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S9.11.1.3	W2	 all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel; wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal; the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately; waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; all fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and surface run-off from bunded areas should pass through oil/ grease traps prior to discharge to the stormay erasement. 	To control construction water quality	Contractor	During seawall filling	Construction stage	
S9.14	W3	 Implement a water quality monitoring programme 	Control water quality	Contractor	At identified monitoring location	During construction	V

EIA Ref. **Recommended Mitigation Measures** EM&A Implementation Objectives of the Who to implement the Location of the When to Log Recommended measures? measures implement the Status Ref. Measures & Main measures? Concerns to address Ecology (Construction Phase) S10.7 E1 Good site practices to avoid runoff entering Avoid potential Designer; Scenic Hill During • $\sqrt{}$ woodland habitats in Scenic Hill; disturbance on habitat of construction Contractor Reinstate works areas in Scenic Hill; ٠ Romer.s Tree Frog in Avoid stream modification in Scenic Hill. Scenic Hill ٠ S10.7 E2 Install silt curtain during the construction; Minimise marine water Contractor Seawall. Durina ٠ $\sqrt{}$ Construct seawall prior to reclamation filling where quality impacts reclamation construction ٠ area practicable: Good site practices; ٠ • Site runoff control; ٠ Spill response plan. S10.7 E4 Contractor ٠ Watering to reduce dust generation; prevention of Prevent Sedimentation Land-based works During $\sqrt{}$ siltation of freshwater habitats; Site runoff should from Land-based works areas construction be desilted, to reduce the potential for suspended areas sediments, organics and other contaminants to enter streams and standing freshwater. S10.7 E5 Contractor ٠ Good site practices, including strictly following the Prevent disturbance to Land-based works During $\sqrt{}$ permitted works hours, using quieter machines terrestrial fauna and areas construction habitats where practicable, and avoiding excessive lightings during night time. S10.7 E6 Dolphin Exclusion Zone; ٠ Minimize temporary Contractor Marine works During marine $\sqrt{}$ Dolphin watching plan. marine habitat loss works • impact to dolphins S10.7 E7 Decouple compressors and other equipment on Contractor ٠ Minimize temporary Marine works During marine $\sqrt{}$ working vessels; marine habitat loss works Avoidance of percussive piling; impact to dolphins Marine underwater noise monitoring; ٠ 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 ٠ for reclamation site.

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	E8	 Control vessel speed; Skipper training; Predefined and regular routes for working vessels; avoid Brothers Islands. 	Minimise marine traffic disturbance on dolphins	Contractor	Marine traffic	During marine works	√
S10.10	E9	 Dolphin vessel monitoring; Mudflat ecological monitoring. 	Minimise marine traffic disturbance on dolphins	Contractor	North Lantau and West Lantau	Prior to construction, during construction, and 1 year after operation	\checkmark
Ecology (C	Operation P	hase)					1
\$10.7	E10	Preconstruction dive survey for corals	Minimise impacts on marine ecology	Contractor	The marine pier sites nearest to intertidal zone and along the shore of the HKLR reclamation site	Prior to marine construction works in these locations	√
Fisheries							
S11.7	F2	Reduce re-suspension of sedimentsGood site practicesSpill response plan	Minimise marine water quality impacts	Contractor	Seawall, reclamation area	During construction	1
S11.7	F3	Install silt-grease trap in the drainage system collecting surface runoff	Minimise impacts on marine water quality impacts	Designer	Reclamation area	During construction	√
S11.7	F4	 Maritime Oil Spill Response Plan (MOSRP); Contingency plan. 	Minimise impacts on marine water quality impacts	Management	HKLR	During operation stage	1

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
Landscape & (Detailed De		e)			•		
S14.3.3. 1	LV1	 General design measures include: Roadside planting and planting along the edge of the reclamation is proposed; Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting; Protection measures for the trees to be retained during construction activities; Optimizing the sizes and spacing of the bridge columns; Fine-tuning the location of the bridge columns to avoid visually sensitive locations; Aesthetic design of the bridge form and its structural elements for HKLR, e.g. parapet, soffit, columns, lightings and so on; Considering the decorative urban design elements for HKLR, e.g. decorative road lightings; 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. 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	N/A

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
Landscape	& Visual (Construction Phase)	ı	I			
S14.3.3.3	LV2	 Mitigate both Landscape and Visual Impacts G1. Grass-hydroseed bare soil surface and stock pile areas. G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge or footbridge to screen bridge and traffic. G3. For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and reclamation (e.g. subtle colour tone and slim form for viaduct, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment. G4. Not Applicable. G5 Vegetation reinstatement and upgrading to disturbed areas. G6. Maximize new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed. G7. Provide planting area around peripheral of and within HKLR for tree screening buffer effect. G8. Plant salt tolerant native tree and shrubs etc along the planter strip at affected seawall. G9. 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). 		Contractor	HKLR	Construction stage	
S14.3.3.3	LV3	Mitigate Visual Impacts V1.Minimize time for construction activities during construction period. V2.Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKLR construction.					

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
EM&A		1					
S15.5 - S15.6	EM2	 An Environmental Team needs to be employed as per the EM&A Manual. Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	Perform environmental monitoring & auditing	Contractor	All construction sites	Construction stage	√

Legends: √ Implemented X Not Implemented P Partially Implemented N/A Not Applicable



APPENDIX N

Records 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.: 298s ver 0

Date of Notification: 9 October 2019

Works Inspected: Data collected from water sampling works on 30 September 2019 and the test report was issued on 8 October 2019.

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	IS10(N)	DA	23.5 and 120% of upstream control station's suspended solids at the same tide of the same day	34.4 and 130% of upstream control station's suspended solids at the same tide of the same day	31.9	19.5	
SS	SR5(N)	DA	(i.e. CS2(A): 18.63 x 120% = 22.4 for mid ebb; CS(Mf)5: 10.17 x 120% = 12.2 for mid flood)	(i.e. CS2(A): 18.63x 130% = 24.2 for mid ebb; CS(Mf)5: 10.17 x 130% = 13.2 for mid flood)	20.5	31.7	

Notes:

1) DA means depth average.

2) Bold Italic means AL exceedances.

3) Bold Italic with underline means LL exceedances.

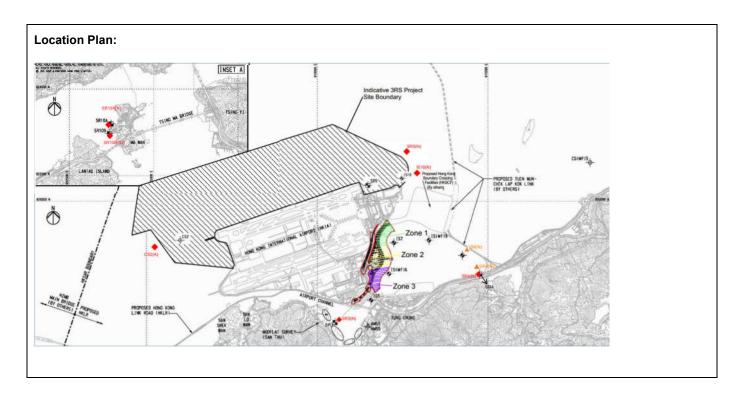
Possible reasons for Action Level Non-compliance:

On 30 September 2019, an Action Level exceedance of suspended solid was recorded at station IS10(N) during mid-ebb tide and an Action Level exceedance of suspended solid was recorded at station SR5(N) during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to the contract works due to the following reasons:

- Land-based work including landscaping works at Zone 1 and Zone 3 were carried out on 30 September 2019. No
 wastewater was discharged from work areas of this Contract to the open water on 30 September 2019. It is also
 noted that exceedances were not recorded at stations IS5, IS(Mf)6 and IS7 which are located close to the site
 boundary of this Contract. As confirmed by the Contractor of this Contract, there were no marine based works and no
 marine transportation in the vicinity of stations IS10(N) and SR5(N) which are located far away the site boundary of
 this Contract (over 1.5 km).
- Water appearance was observed clear at stations IS10(N) and SR5(N) during sampling exercise. No silt plume was
 observed in the vicinity of stations IS10(N) and SR5(N) during the sampling exercise. Also, no abnormity or
 malpractice for the contract works was observed during the sampling exercise.
- 3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. As such, the exceedances of suspended solid level are considered to be attributed to other external factors such as sea condition, rather than the contract works.

Actions taken/ to be taken:

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



Reviewed by:	Claudine Lee	Title :	ET Leader
	Clan.	Date :	9 October 2019
Copied to:	Supervising Officer, IEC/ENPO and Contractor		

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

Summary of Notifications of Summons and Prosecutions

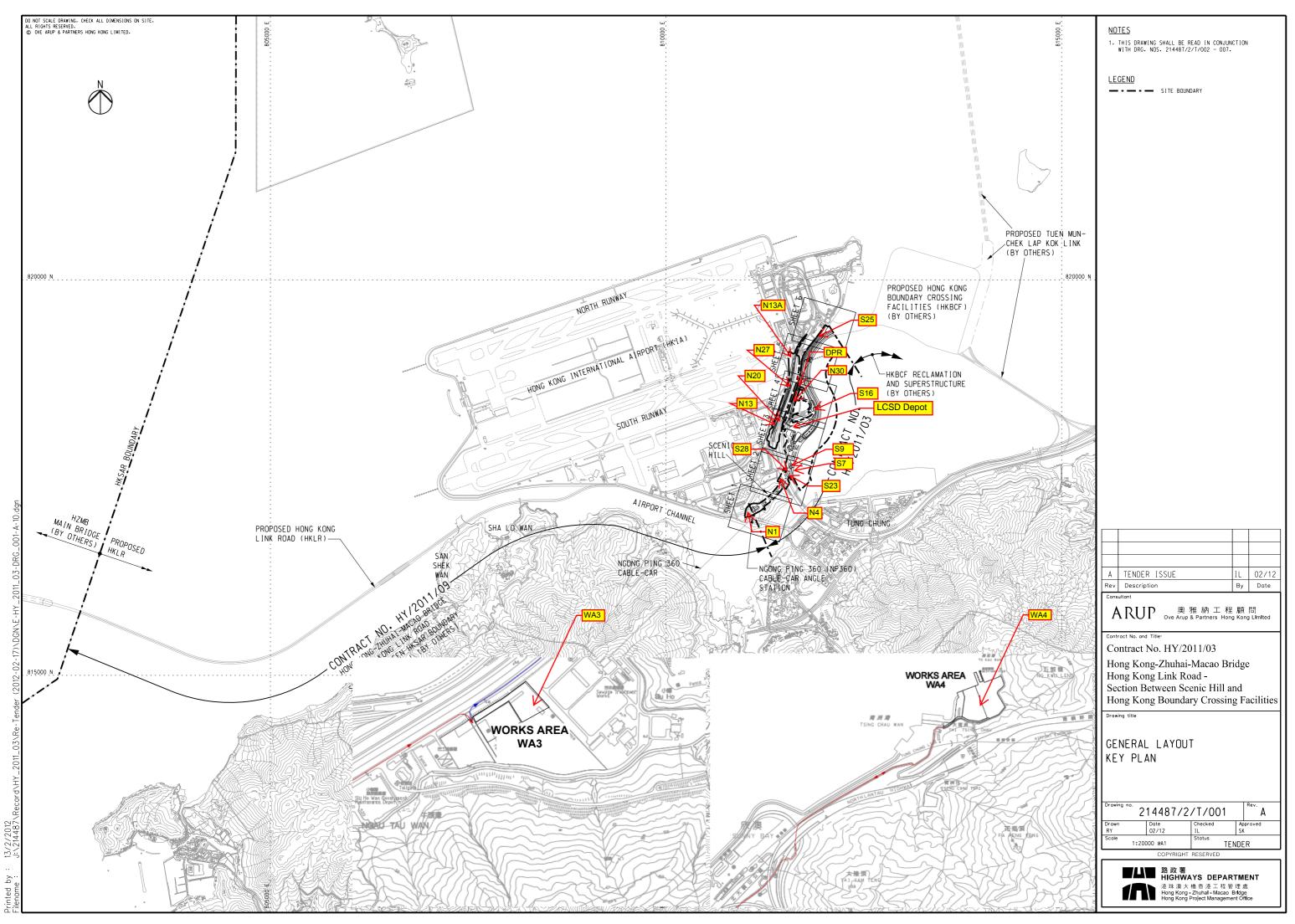


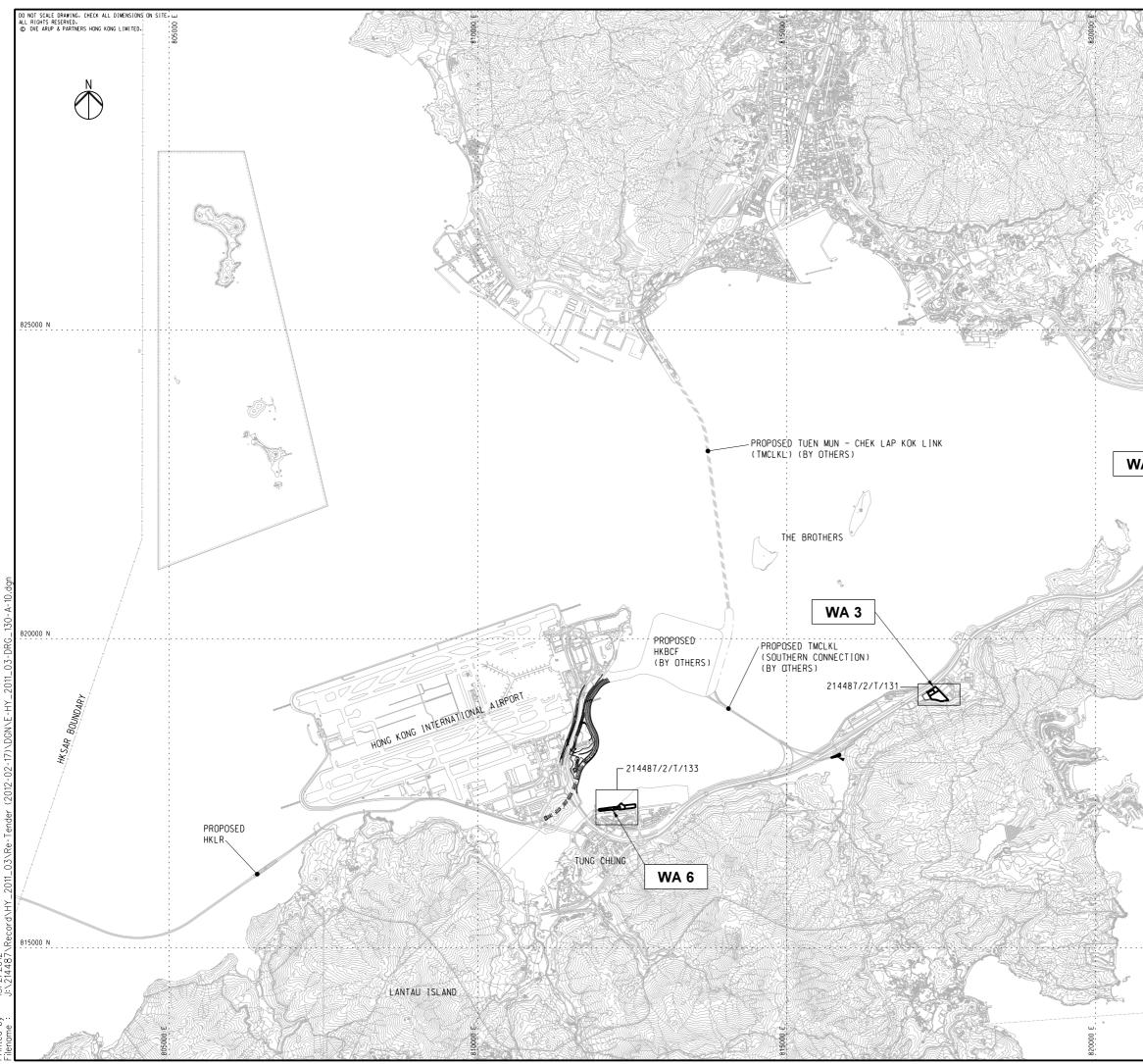
APPENDIX O

Location of Works Areas



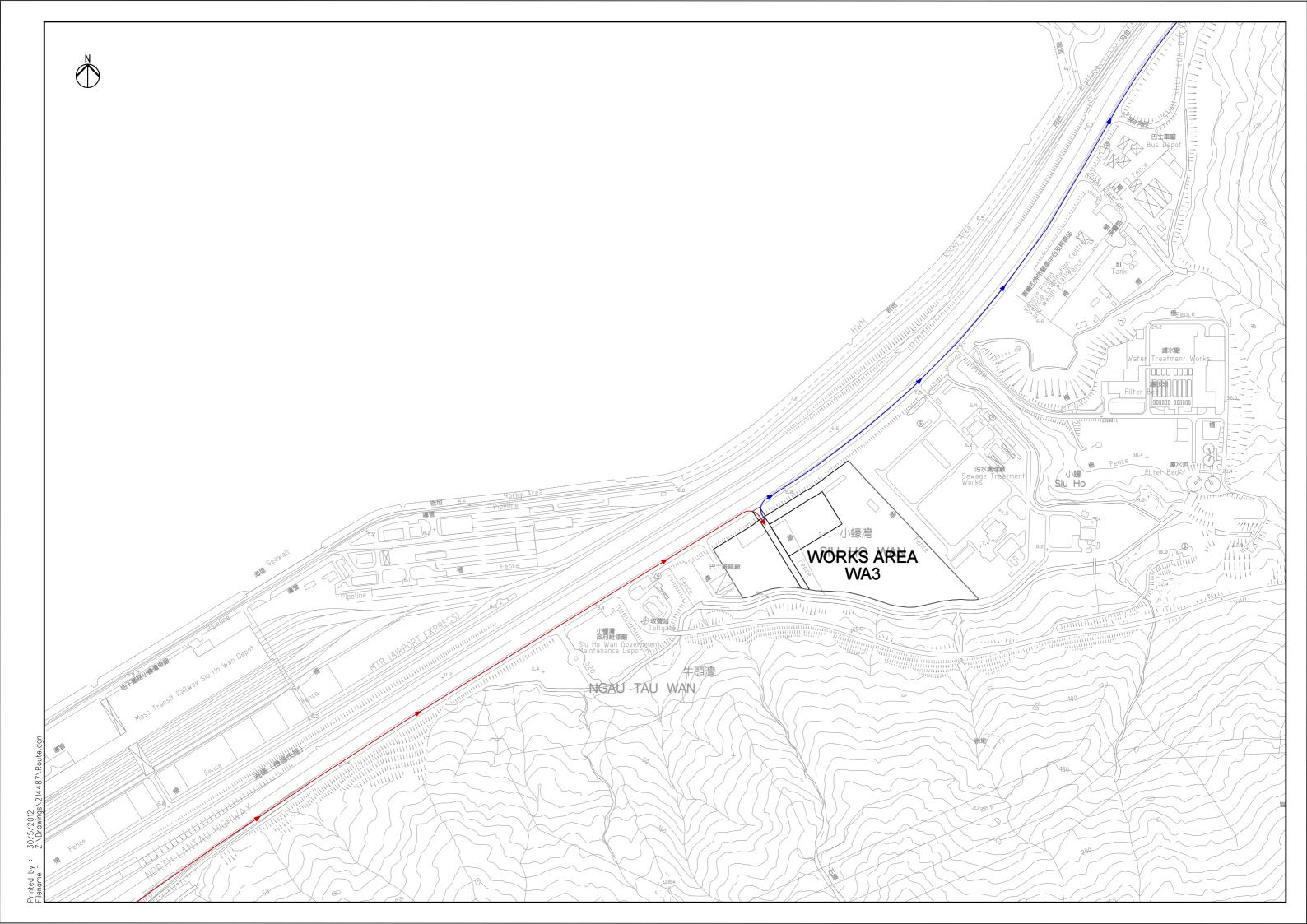


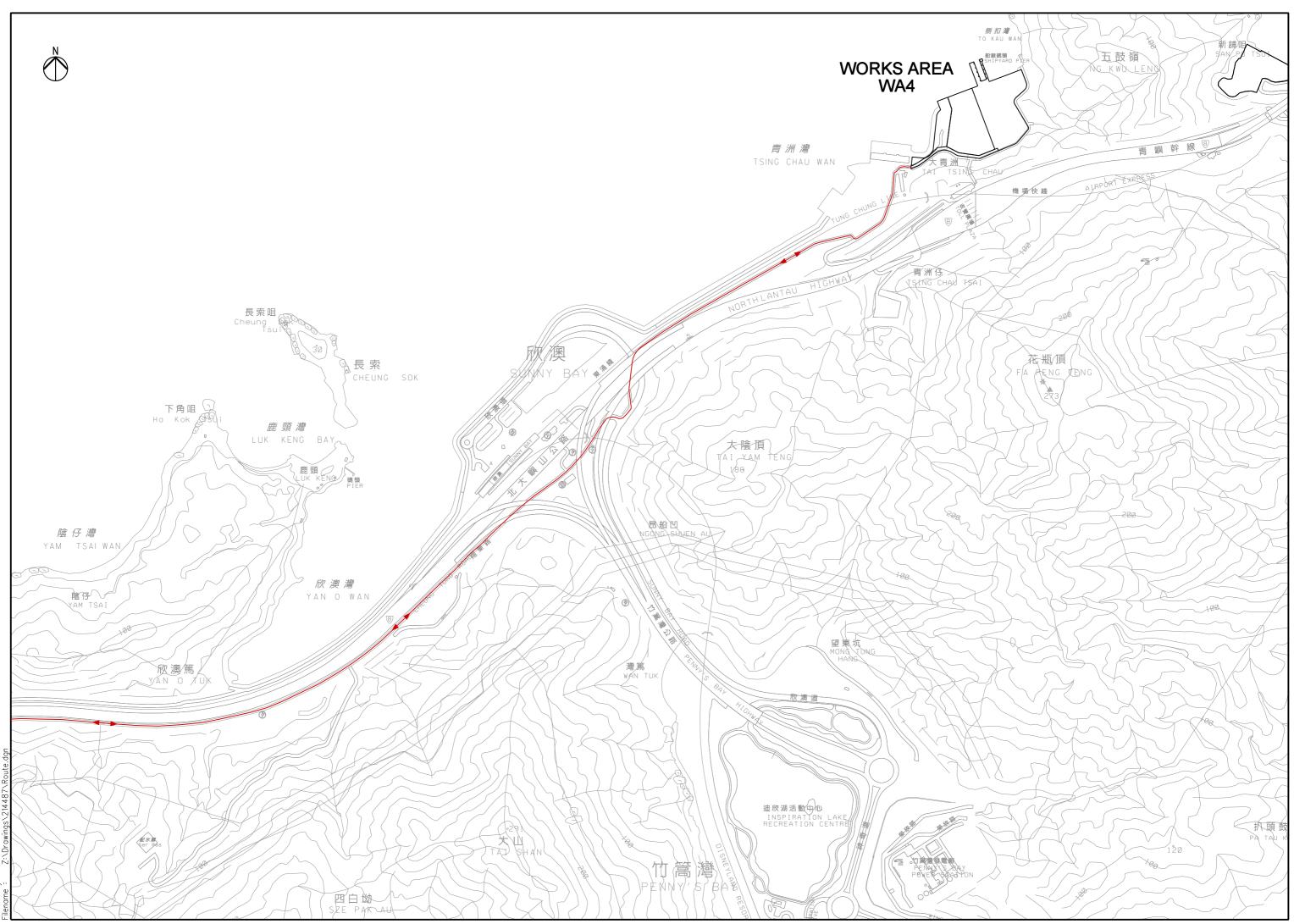




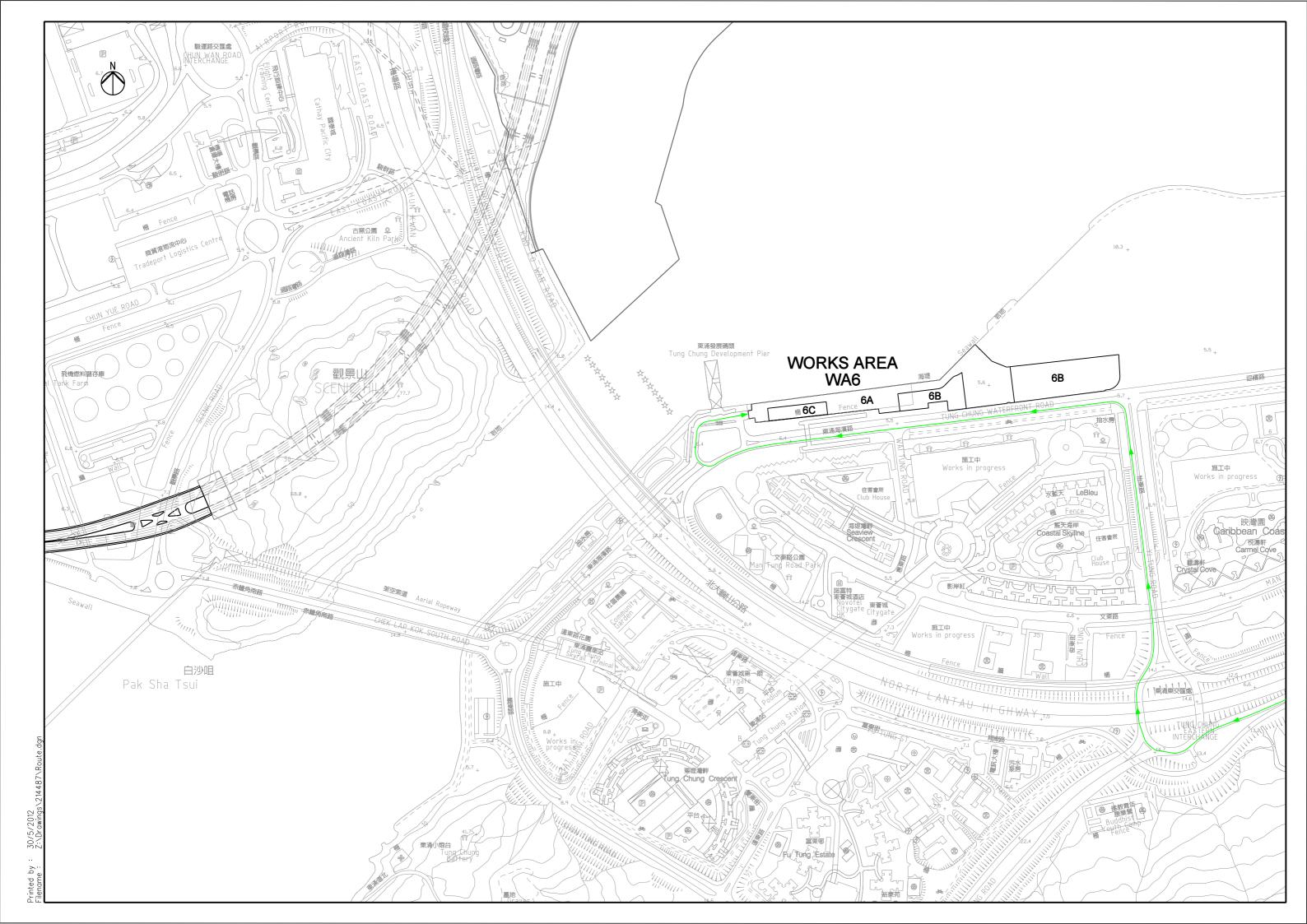
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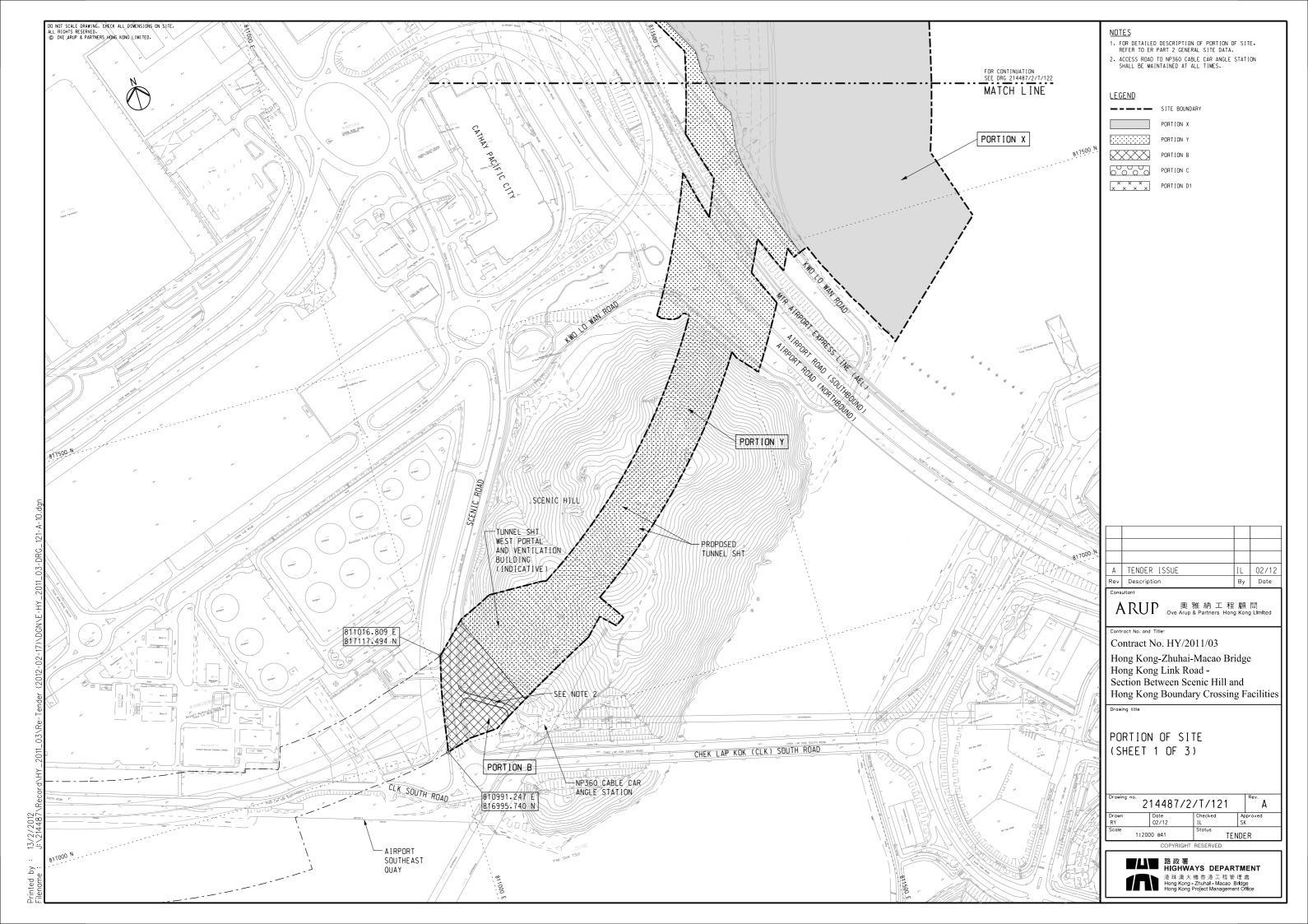
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n 19	Contract No. HY/2011/03
*	Hong Kong-Zhuhai-Macao Bridge
	Hong Kong Link Road -
	Section Between Scenic Hill and
8	Hong Kong Boundary Crossing Facilities
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	Drawing title
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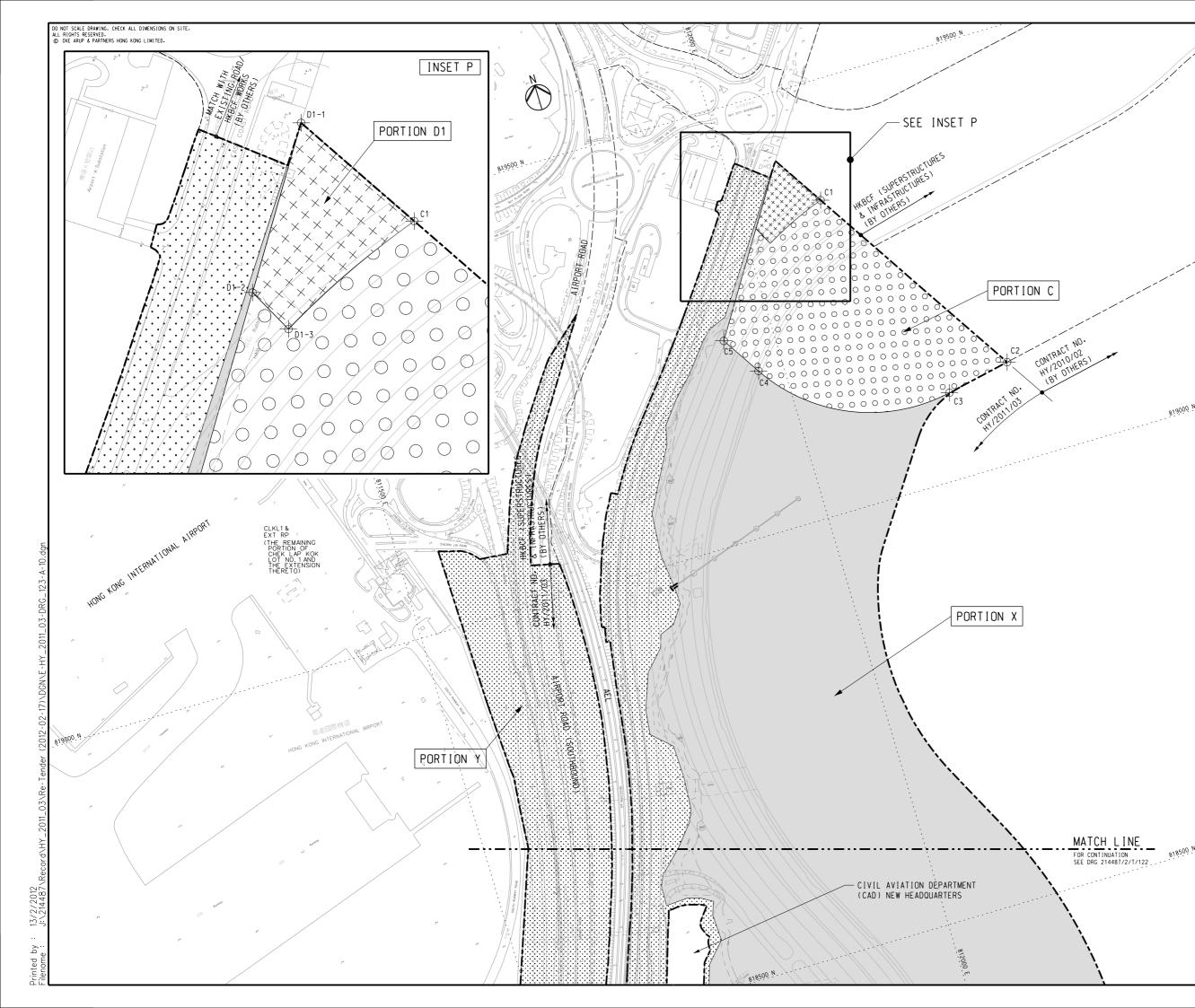
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90218	HIGHWAYS DEPAR 港珠澳大橋香港工程管 Hong Kong - Zhuhal - Macao	理處	
90 .	Hong Kong - Zhuhal - Macao Hong Kong Project Manageme	ent Offic	ce .



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

SETTING OUT CO-ORDINATES OF SITE PORTION C

POINT	CO-ORD INATES					
FUINI	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

⁸¹⁹⁰⁰⁰ N

POINT	CO-ORD INATES				
FUINI	EASTING	NORTHING			
D1-1	812059.460	819421.497			
D1-2	812014.853	819351.273			
D1-3	812026.200	819329.938			

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Rev	Description	By	Date		
Consultant					

ARUP 奥雅納工程顧問

Contract No. HY/2011/03

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

PORTION OF SITE (SHEET 3 OF 3)

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