

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.60 (September 2017)

12 October 2017

Revision 1

Main Contractor



Designer

ATKINS

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

This is the sixtieth 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 2017.

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	1, 7, 13, 19, 25 and 29 September 2017
24-hr TSP Monitoring	6, 12, 18, 22, 28 and 30 September 2017
Noise Monitoring	7, 13, 19 and 25 September 2017
Water Quality Monitoring	1, 4, 6, 8, 11, 13, 15, 18, 20, 22, 25, 27 and 29 September 2017
Mudflat Monitoring (Ecology)	2, 3, 6, 16 and 17 September 2017
Mudflat Monitoring (Sedimentation Rate)	16 September 2017
Chinese White Dolphin Monitoring	15, 18, 22 and 29 September 2017
Site Inspection	6, 13, 20 and 29 September 2017

Due to the hoisting of Strong Wind Signal and Typhoon Signal No. 3 by the Hong Kong Observatory, the water quality monitoring at mid-ebb tide was cancelled on 4 September 2017. No substitute monitoring was conducted due to boat unavailability.

Due to bad weather condition, the sedimentation rate monitoring was rescheduled from 4 September 2017 to 16 September 2017.

Due to boat unavailability, the dolphin monitoring was rescheduled from 26 September 2017 to 29 September 2017.

Due to concern of adverse weather forecast in the mid-September 2017, the mudflat monitoring was rescheduled from 9-12 September 2017 to 6, 16 and 17 September 2017.

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
	24-hr TSP	0	0
Noise	Leq (30 min)	0	0
Water Quality	Suspended solids level (SS)	1	1
	Turbidity level	0	0
	Dissolved oxygen level (DO)	0	0

There was an Action Level exceedance of suspended solid level recorded at station IS(Mf)6 during mid-flood tide on 4 September 2017.

There was a Limit Level exceedance of suspended solid level recorded at station SR3(N) during mid-flood tide on 13 September 2017.

Complaint Log

There was one complaint received in relation to the environmental impacts during this reporting month. A summary of environmental complaint for this reporting month is as follows:

Environmental Complaint No.	Date of Complaint Received	Description of Environmental Complaint
COM-2017-102	1823 Integrated Call Centre received a complaint lodged by a member of the public on 30 September 2017. ET received complaint details on 3 October 2017	Cleanliness problem at Tung Fai Road

For Environmental Complaint No. COM-2017-102, complaint investigation is being undertaken and will be reported in next 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.

Water level at water quality monitoring station SR3 (Coordinate: 810525E, 816456N) is low. As such, water sampling team members are required to interchange to a smaller boat to carry out water sampling work, which poses the risk of team members' falling into the sea. Due to safety reason, the monitoring station SR3 was relocated to SR3(N) (Coordinate: 816595N, 810689E) on 25 and 28 August 2017 and was fine-tuned to Coordinate: 816591E, 810689N since 30 August 2017.

Water level at water quality monitoring station SR4 (Coordinate: 814760E, 817867N) is low. The vessel may ground during navigation in shallow waters, hitting underwater boulder / obstacles which may jeopardize the safety of all people in the sampling vessel. Due to safety reason, the monitoring station SR4 was relocated to SR4(N) (Coordinate: 814705E, 817859N) since 25 August 2017.

Water quality monitoring station SR10A (823741E, 823495N) locates inside a mariculture raft. Water sampling team members are required to interchange to a smaller boat to carry out water sampling work, which poses the risk of team members' falling into the sea. Due to safety reason, the monitoring station SR10A was relocated to SR10A(N) (Coordinate: 823616E, 823487N) on 25 and 28 August 2017 and was fine-tuned to Coordinate: 823644E and 823484N since 30 August 2017.

Since sampling work is conducted near rocks in the sea at SR10B (Coordinate: 823686E, 823213N), the vessel may ground during navigation in shallow waters, hitting underwater boulder / obstacles which may jeopardize the safety of all people in the sampling vessel. Due to safety reason, the monitoring station SR10B was relocated to SR10B(N) (Coordinate: 823683E, 823187N) since 25 August 2017 and was fine-tuned to SR10B(N2) (Coordinate: 823689E, 823159N) since 11 September 2017.

The relocated stations at SR3(N), SR4(N) SR10A(N) and SR10B(N)/ SR10B(N2) will be located to as close to the original sensitive receiver stations as possible. So, the relocated stations at SR3(N), SR4(N) SR10A(N) and SR10B(N)/ SR10B(N2) are representative. Same baseline and Action/ Limit Level for water quality monitoring, as derived from the baseline monitoring data recorded, will be adopted for these alternative water quality monitoring stations for the Contract.

Water Quality Monitoring Station SR10A(N) (Coordinate: 823644E, 823484N) was unreachable on 18 September 2017 during flood tide as fishing activities was observed in the vicinity of waterbody. Fishing net from a sampan boat blocked the access to SR10A(N). As such, the water monitoring at station SR10A(N) was conducted at Coordinate: 823634E, 823631N during flood tide on 18 September 2017.

Water Quality Monitoring Station CS(Mf)5 (Coordinate: 817990E, 821129N) was unreachable on 20 September 2017 during flood tide due to blockage of access to the station by fishing boat. Station IS(Mf)6 (Coordinate: 812101E, 817873N) was unreachable on 22 and 27 September 2017 due to blockage of access to the station by working boats. Water monitoring was conducted at the nearest position of original location of WQM station to avoid crushing under the effect of water current and wave action as vessel engine was turned off during sampling. The temporarily relocated coordinate (i.e. actual coordinate) for Station CS(Mf)5 on 20 September 2017 was 817791E, 821070N. The temporarily relocated coordinates (i.e. actual coordinates) for Station IS(Mf)6 on 22 and 27 September 2017 was 812150E, 817997N and 812265E, 818156N respectively.

The temporarily relocated location were located to as close to the original location as possible. Also, the water body at original location of WQM stations and temporarily relocated location of WQM stations are similar. So, temporarily relocated location of SR10(A), CS(Mf)5 and IS(MF)6 are representative. Same baseline and Action/ Limit Level for water quality monitoring, as derived from the baseline monitoring data recorded, will be adopted for these temporarily relocated location of SR10(A), CS(Mf)5 and IS(MF)6 for the Contract.

The role and responsibilities as the ET Leader of the Contract has been temporarily taken up by Mr Willie Wong instead of Ms Claudine Lee since 25 September 2017.

Future Key Issues

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:

- Stockpiling at WA7;
- Removal of toe loading at Portion X;
- Dismantling/trimming of Temporary 40mm Stone Platform for Construction of Seawall at Portion X;
- Construction of Seawall at Portion X;
- Loading and Unloading Filling Materials at Portion X;
- Backfilling at Scenic Hill Tunnel (Cut & Cover Tunnel) at Portion X;
- Excavation for HKBCF to Airport Tunnel & Construction of Tunnel Box Structure at Portion X;
- Works for Diversion of Airport Road;
- Utilities Detection at Airport Road / Airport Express Line/ East Coast Road;
- Establishment of Site Access at Airport Road / Airport Express Line/East Coast Road;
- Excavation and Lateral Support Works & Construction of Tunnel Box Structure for HKBCF to Airport Tunnel West (Cut & Cover Tunnel) at Airport Road;
- Excavation and Lateral Support Works & Construction of Tunnel Box Structure for HKBCF to Airport Tunnel East (Cut & Cover Tunnel) at Portion X;
- Sub-structure, Superstructure & Finishing Works for Highway Operation and Maintenance Area Building at Portion X; and
- Superstructure & Finishing Works for Scenic Hill Tunnel West Portal Ventilation building at West Portal.

1 Introduction

1.1 Basic Project Information

- 1.1.1 The Hong Kong-Zhuhai-Macao Bridge (HZMB) Hong Kong Link Road (HKLR) serves to connect the HZMB Main Bridge at the Hong Kong Special Administrative Region (HKSAR) Boundary and the HZMB Hong Kong Boundary Crossing Facilities (HKBCF) located at the north eastern waters of the Hong Kong International Airport (HKIA).
- 1.1.2 The HKLR project has been separated into two contracts. They are Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between Scenic Hill and Hong Kong Boundary Crossing Facilities (hereafter referred to as the Contract) and Contract No. HY/2011/09 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between HKSAR Boundary and Scenic Hill.
- 1.1.3 China State Construction Engineering (Hong Kong) Ltd. was awarded by Highways Department (HyD) as the Contractor to undertake the construction works of Contract No. HY/2011/03. The Contract is part of the HKLR Project and HKBCF Project, these projects are considered to be “Designated Projects”, under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap 499) and 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. **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 sixtieth 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 2017.
- 1.1.6 BMT Asia Pacific Limited has been appointed by the Contractor to implement the EM&A programme for the Contract in accordance with the Updated EM&A Manual for HKLR (Version

1.0) for HKLR and will be providing environmental team services to the Contract. Ramboll Environ Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project. The project organization with regard to the environmental works is 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**.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Supervising Officer's Representative (Ove Arup & Partners Hong Kong Limited)	(Chief Resident Engineer, CRE)	Robert Antony Evans	3968 0801	2109 1882
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899
	Independent Environmental Checker	Antony Wong	3465 2888	3465 2899
Contractor (China State Construction Engineering (Hong Kong) Ltd)	Project Manager	S. Y. Tse	3968 7002	2109 2588
	Environmental Officer	Federick Wong	3968 7117	2109 2588
Environmental Team (BMT Asia Pacific)	Environmental Team Leader	Claudine Lee	2241 9847	2815 3377
Environmental Team (BMT Asia Pacific)	Deputy Environmental Team Leader	Willie Wong	2241 9821	2815 3377
24 hours complaint hotline	---	---	5699 5730	---

Remark: The role and responsibilities as the ET Leader of the Contract has been temporarily taken up by Mr Willie Wong instead of Ms Claudine Lee since 25 September 2017.

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
Stockpiling	WA7
Dismantling/trimming of temporary 40mm stone platform for construction of seawall	Portion X
Construction of seawall	Portion X
Loading and unloading of filling materials	Portion X
Backfilling at Scenic Hill Tunnel (Cut & Cover Tunnel)	Portion X
Excavation for HKBCF to Airport Tunnel & construction of tunnel box structure	Portion X
Works for diversion	Airport Road
Utilities detection	Airport Road/ Airport Express Line/ East Coast Road
Establishment of site access	Airport Road/ Airport Express Line/ East Coast Road
Mined tunnel lining / box jacking transition zone rebar fixing underneath Airport Road and Airport Express Line	Airport Road and Airport Express Line
Construction of Tunnel box structure	Shaft 3 Extension North Shaft
Excavation and lateral support works & Construction of Tunnel Box Structure for HKBCF to Airport Tunnel West (Cut & Cover Tunnel)	Airport Road
Excavation and lateral support works & construction of tunnel box structure for HKBCF to Airport Tunnel East (Cut & Cover Tunnel)	Portion X
Sub-structure, superstructure and finishing works for Highway Operation and Maintenance Area Building	Portion X
Superstructure & finishing works for Scenic Hill Tunnel West Portal Ventilation building	West Portal
Stockpiling	WA7
Dismantling/trimming of temporary 40mm stone platform for construction of seawall	Portion X

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.

Table 2.1 Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AMS 5 – Ma Wan Chung Village (Tung Chung)	352	500
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	360	

Table 2.2 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
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

Equipment	Brand and Model
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3B)
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 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 $\pm 2.5\%$ 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 2017 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**.

Table 2.6 Summary of 1-hour TSP Monitoring Results During the Reporting Month

Monitoring Station	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AMS5	53	5 – 302	352	500
AMS6	40	10 – 151	360	500

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

Monitoring Station	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AMS5	40	22 – 71	164	260
AMS6	48	31 – 72	173	260

- 2.7.2 No Action and Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at AMS5 and AMS6 during the reporting month.
- 2.7.3 The event action plan is annexed in **Appendix F**.
- 2.7.4 The wind data obtained from the on-site weather station during the reporting month is 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: $L_{eq(30\text{-minutes})}$ 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 re-calibration 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 2017 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 Station	Average L_{eq} (30 mins), dB(A)	Range of L_{eq} (30 mins), dB(A)	Limit Level L_{eq} (30 mins), dB(A)
NMS5	58	56 – 60	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 construction activities of the Contract and nearby traffic.
- 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 Action 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**.

Table 4.1 Action and Limit Levels for Water Quality

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

Notes:

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

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

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, IS(Mf)9 & IS10, Control/Far Field Stations: CS2 & CS(Mf)5, Sensitive Receiver Stations: SR3, SR4, SR5, SR10A & SR10B	<ul style="list-style-type: none"> • Depth, m • Temperature, °C • Salinity, ppt • Dissolved Oxygen (DO), mg/L • DO Saturation, % • Turbidity, NTU • pH • Suspended Solids (SS), mg/L 	Three times per week during mid-ebb and mid-flood tides (within ± 1.75 hour of the predicted time)	3 (1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth is less than 6 m, in which case the mid-depth station may be omitted. Should the water depth be less than 3 m, only the mid-depth station will be monitored).

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 Due to safety concern and topographical condition of the original locations of SR4 and SR10B, alternative impact water quality monitoring stations, naming as SR4(N) and SR10B(N), were adopted for Contract No. HY/2010/02, which are situated in vicinity of the original impact water quality monitoring stations (SR4 and SR10B) and could be reachable.

- 4.4.3 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.
- 4.4.4 Water level at water quality monitoring station SR3 (Coordinate: 810525E, 816456N) is low. As such, water sampling team members are required to interchange to a smaller boat to carry out water sampling work, which poses the risk of team members' falling into the sea. Due to safety reason, the monitoring station SR3 was relocated to SR3(N) (Coordinate 816595E, 810689N,) on 25 and 28 August 2017 and was fine-tuned to Coordinate: 816591E, 810689N since 30 August 2017.
- 4.4.5 Water level at water quality monitoring station SR4 (Coordinate:814760E, 817867N) is low. The vessel may ground during navigation in shallow waters, hitting underwater boulder / obstacles which may jeopardize the safety of all people in the sampling vessel. Due to safety reason, the monitoring station SR4 was relocated to SR4(N) (Coordinate: 814705E, 817859N) since 25 August 2017.
- 4.4.6 Water quality monitoring station SR10A (823741E, 823495N) locates inside a mariculture raft. Water sampling team members are required to interchange to a smaller boat to carry out water sampling work, which poses the risk of team members' falling into the sea. Due to safety reason, the monitoring station SR10A was relocated to SR10A(N) (Coordinate: 823616E, 823487N) on 25 and 28 August 2017 and was fine-tuned to Coordinate: 823644E and 823484N since 30 August 2017.
- 4.4.7 Since sampling work is conducted near rocks in the sea at SR10B (Coordinate: 823686E, 823213N), the vessel may ground during navigation in shallow waters, hitting underwater boulder / obstacles which may jeopardize the safety of all people in the sampling vessel. Due to safety reason, the monitoring station SR10B was relocated to SR10B(N) (Coordinate: 823683E, 823187N) since 25 August 2017 and was fine-tuned to SR10B(N2) (Coordinate: 823689E, 823159N) since 11 September 2017.
- 4.4.8 The relocated stations at SR3(N), SR4(N) SR10A(N) and SR10B(N)/ SR10B(N2) will be located to as close to the original sensitive receiver stations as possible. So, the relocated stations at SR3(N), SR4(N) SR10A(N) and SR10B(N)/ SR10B(N2) are representative. Same baseline and Action/ Limit Level for water quality monitoring, as derived from the baseline monitoring data recorded, will be adopted for these alternative water quality monitoring stations for the Contract.
- 4.4.9 Water Quality Monitoring Station SR10A(N) (Coordinate: 823644E, 823484N) was unreachable on 18 September 2017 during flood tide as fishing activities was observed in the vicinity of waterbody. Fishing net from a sampan boat blocked the access to SR10A(N). As such, the water monitoring at station SR10A(N) was conducted at Coordinate: 823634E, 823631N during flood tide on 18 September 2017.
- 4.4.10 Water Quality Monitoring Station CS(Mf)5 (Coordinate: 817990E, 821129N) was unreachable on 20 September 2017 during flood tide due to blockage of access to the station by fishing boat. Station IS(Mf)6 (Coordinate: 812101E, 817873N) was unreachable on 22 and 27 September 2017 due to blockage of access to the station by working boats. Water monitoring was conducted at the nearest position of original location of WQM station to avoid crushing under the effect of water current and wave action as vessel engine was turned off during sampling. The temporarily relocated coordinate (i.e. actual coordinate) for Station CS(Mf)5 on 20 September 2017 was 817791E, 821070N. The temporarily relocated coordinates (i.e. actual coordinates) for Station IS(Mf)6 on 22 and 27 September 2017 was 812150E, 817997N and 812265E, 818156N respectively.
- 4.4.11 The temporarily relocated location were located to as close to the original location as possible. Also, the water body at original location of WQM stations and temporarily relocated location of WQM stations are similar. So, temporarily relocated location of SR10(A), CS(Mf)5 and IS(MF)6

are representative. Same baseline and Action/ Limit Level for water quality monitoring, as derived from the baseline monitoring data recorded, will be adopted for these temporarily relocated location of SR10(A), CS(Mf)5 and IS(MF)6 for the Contract.

- 4.4.12 The locations of water quality monitoring stations during the reporting period are summarized in **Table 4.4** and shown in **Figure 2.1**.

Table 4.4 Impact Water Quality Monitoring Stations

Monitoring Stations	Description	Coordinates	
		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	Impact Station (Close to HKBCF construction site)	814251	818412
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(N)	Sensitive receivers (Tai Ho Inlet)	814705	817859
SR5(N)	Sensitive receivers (Artificial Reef In NE Airport)	812569	821475
SR10A(N)	Sensitive receivers (Ma Wan Fish Culture Zone)	823644	823484
SR10B(N)	Sensitive receivers (Ma Wan Fish Culture Zone)	823683	823187
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

Remarks:

1) Due to safety reason, the monitoring station SR10B was relocated to SR10B(N) (Coordinate: 823683E, 823187N) since 25 August 2017 and was fine-tuned to SR10B(N2) (Coordinate: 823689E, 823159N) since 11 September 2017.

2) Water Quality Monitoring Station SR10A(N) (Coordinate: 823644E, 823484N) was unreachable on 18 September 2017 during flood tide as fishing activities was observed in the vicinity of waterbody. Fishing net from a sampan boat blocked the access to SR10A(N). As such, the water monitoring at station SR10A(N) was temporarily conducted at Coordinate: 823634E, 823631N during flood tide on 18 September 2017.

3) Water Quality Monitoring Station CS(Mf)5 (Coordinate: 817990E, 821129N) was unreachable on 20 September 2017 during flood tide due to blockage of access to the station by fishing boat. Station IS(Mf)6 (Coordinate: 812101E, 817873N) was unreachable on 22 and 27 September 2017 due to blockage of access to the station by working boats. The temporarily relocated coordinate (i.e. actual coordinate) for Station CS(Mf)5 on 20 September 2017 was 817791E, 821070N. The temporarily relocated coordinates (i.e. actual coordinates) for Station IS(Mf)6 on 22 and 27 September 2017 was 812150E, 817997N and 812265E, 818156N respectively.

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, mid-depth 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**.

Table 4.5 Laboratory Analysis for Suspended Solids

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

- (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 2017 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 the construction activities of the Contract, 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 and turbidity level were recorded during the reporting month. There were one Action Level and one Limit Level exceedances of suspended solids level were recorded during the

reporting month. Number of exceedances recorded during the reporting month at each impact station are summarised in **Table 4.6**.

Table 4.6 Summary of Water Quality Exceedances

Station	Exceedance Level	DO (S&M)		DO (Bottom)		Turbidity		SS		Total number of exceedances	
		Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood
IS5	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
IS(Mf)6	Action Level	--	--	--	--	--	--	--	4 Sep 2017	0	1
	Limit Level	--	--	--	--	--	--	--	--	0	0
IS7	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
IS8	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
IS(Mf)9	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
IS10(N)	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
SR3(N)	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	13 Sep 2017	0	1
SR4(N)	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
SR5(N)	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
SR10A(N)	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
SR10B(N2)	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
Total	Action	0	0	0	0	0	0	0	1	1**	
	Limit	0	0	0	0	0	0	0	1	1**	

Notes:

S: Surface;

M: Mid-depth;

** The total number of exceedances

- 4.7.4 For marine water quality monitoring, an Action Level exceedance of suspended solid was recorded at station IS(Mf)6 during mid-flood tide on 4 September 2017. Removal of surcharge at Zone 1; road and drainage construction at Zones 1 and 2; box culvert construction at Zone 2; seawall construction at Zones 2 and 3; and transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report. There

was no marine transportation at Zones 1, 2, and 3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. Also, there was no muddy plume observed at station IS(Mf)6 during sampling exercise. In addition, no leakage of turbid water, abnormality or malpractice for the contract works was observed during the sampling exercise.

- 4.7.5 On 13 September 2017, a Limit Level exceedance of suspended solid was recorded at station SR3(N) during mid-flood tide. Removal of surcharge, road and drainage construction at Zone 1; box culvert construction at Zone 2; seawall construction at Zones 2 and 3; and transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report. There was no marine transportation at Zones 1, 2, and 3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. Also, there was no muddy plume observed at station SR3(N) during sampling exercise. In addition, no leakage of turbid water, abnormality or malpractice for the contract works was observed during the sampling exercise.
- 4.7.6 The exceedances of suspended solids level recorded during reporting period were considered to be attributed to other external factors such as sea condition, rather than the contract works. Therefore, the exceedances were considered as non-contract related. Records of “Notification of Environmental Quality Limit Exceedances” are provided in **Appendix N**.
- 4.7.7 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 quarterly 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.

Table 5.2 Co-ordinates of Transect Lines

Line No.		Easting	Northing		Line No.		Easting	Northing
1	Start Point	804671	815456		13	Start Point	816506	819480
1	End Point	804671	831404		13	End Point	816506	824859
2	Start Point	805476	820800*		14	Start Point	817537	820220
2	End Point	805476	826654		14	End Point	817537	824613
3	Start Point	806464	821150*		15	Start Point	818568	820735
3	End Point	806464	822911		15	End Point	818568	824433
4	Start Point	807518	821500*		16	Start Point	819532	821420
4	End Point	807518	829230		16	End Point	819532	824209
5	Start Point	808504	821850*		17	Start Point	820451	822125
5	End Point	808504	828602		17	End Point	820451	823671

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*

Note:

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 18 years of marine mammal monitoring surveys in Hong Kong developed by HKCRP (see Hung 2015). 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

- 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 or 60D 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. Detailed information on all identified individuals will be further presented as an appendix in quarterly EM&A reports.

5.3 Monitoring Results

Vessel-based Line-transect Survey

- 5.3.1 During the month of September 2017, two sets of systematic line-transect vessel surveys were conducted on the 15th, 18th 22nd and 29th 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 266.33 km of survey effort was collected, with 97.9% 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**). Among the two areas, 96.80 km and 169.53 km of survey effort were collected from NEL and NWL survey areas respectively. Moreover, the total survey effort conducted on primary lines was 195.67 km, while the effort on secondary lines was 70.66 km.
- 5.3.3 During the two sets of monitoring surveys in September 2017, three groups of 11 Chinese White Dolphins were sighted (see **Annex II of Appendix H**). All dolphin sightings were made in NWL, while none was sighted in NEL. Moreover, all three dolphin groups were sighted during on-effort search and on primary lines (**Annex II of Appendix H**). None of the dolphin groups were associated with any operating fishing vessel.

- 5.3.4 Distribution of the three dolphin sightings made in September 2017 is shown in **Figure 6 of Appendix H**. The three groups were sighted near Castle Peak Power Station, to the north of Lung Kwu Chau and to the east of Sha Chau respectively (**Figure 6 of Appendix H**). On the other hand, all dolphin groups were sighted far away from the HKLR03/HKBCF reclamation sites as well as the HKLR09/TMCLKL alignments (**Figure 6 of Appendix H**).
- 5.3.5 Notably, the two dolphin groups were sighted far away from the HKLR03/ HKBCF reclamation sites as well as the HKLR09/TMCLKL alignments (**Figure 6 of Appendix H**).
- 5.3.6 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**.

Table 5.3 Individual Survey Event Encounter Rates

		Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)
		Primary Lines Only	Primary Lines Only
NEL	Set 1: September 15 th / 18 th	0.0	0.0
	Set 2: September 22 nd / 29 th	0.0	0.0
NWL	Set 1: September 15 th / 18 th	0.0	0.0
	Set 2: September 22 nd / 29 th	3.6	16.3

Remark:

- Dolphin Encounter Rates Deduced from the Two Sets of Surveys (Two Surveys in Each Set) in September 2017 in Northeast Lantau (NEL) and Northwest Lantau (NWL).

Table 5.4 Monthly Average Encounter Rates

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)		Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)	
	Primary Lines Only	Both Primary and Secondary Lines	Primary Lines Only	Both Primary and Secondary Lines
Northeast Lantau	0.0	0.0	0.0	0.0
Northwest Lantau	1.7	1.2	7.7	5.5

Remark:

- Monthly Average Dolphin Encounter Rates (Sightings Per 100 km of Survey Effort) from All Four Surveys Conducted in September 2017 on Primary Lines only as well as Both Primary Lines and Secondary Lines in Northeast Lantau (NEL) and Northwest Lantau (NWL).

- 5.3.7 The average dolphin group size in September 2017 was 3.7 individuals per group. Two of the three groups were small in sizes (i.e. 2-3 animals per group), while the other group was medium in size with six animals (**Annex II of Appendix H**).

Photo-identification Work

- 5.3.8 Eight known individual dolphins were sighted 10 times during September's surveys (**Annexes III and IV of Appendix H**). All except two individuals (i.e. NL202 and NL286 being re-sighted twice) were re-sighted only once during the monthly surveys in September 2017.
- 5.3.9 Notably, one of these individuals (NL202) was sighted with her older calf (NL286) during their re-sightings in September 2017.

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.
- 5.3.11 Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of this project in the quarterly EM&A report, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period (September – November 2017) and baseline monitoring period (3-month period) will be made.

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. 2015. Monitoring of Marine Mammals in Hong Kong waters: final report (2014-15). An unpublished report submitted to the Agriculture, Fisheries and Conservation Department, 198 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

Methodology

- 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 1 mm, 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 GNSS. The coordinates system was in HK1980 GRID system. For this contract, the 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**:

Table 6.1 Reference Station Survey result and GNSS RTK calibration result of Round 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
T3	810778.098mE	815689.918mN	4.651	4.660	+0.009
T4	810274.783mE	816689.068mN	2.637	2.709	+0.072

- 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 16 September 2017. 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**.

Table 6.2 Measured Mudflat Surface Level Results

Monitoring Station	Baseline Monitoring (September 2012)			Impact Monitoring (September 2017)		
	Easting (m)	Northing (m)	Surface Level (mPD)	Easting (m)	Northing (m)	Surface Level (mPD)
S1	810291.160	816678.727	0.950	810291.088	816678.776	1.088
S2	810958.272	815831.531	0.864	810958.265	815831.586	0.973
S3	810716.585	815953.308	1.341	810716.480	815953.308	1.463
S4	811221.433	816151.381	0.931	811221.423	816151.385	1.085

Table 6.3 Comparison of measurement

Monitoring Station	Comparison of measurement			Remarks and Recommendation
	Easting (m)	Northing (m)	Surface Level (mPD)	
S1	-0.072	0.049	0.138	Level continuously increased
S2	-0.007	0.055	0.109	Level continuously increased
S3	-0.105	0.000	0.122	Level continuously increased
S4	-0.01	0.004	0.154	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 2017. 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:

Table 6.4 Impact Water Quality Monitoring Results (Depth Average)

Date	Mid Ebb Tide			Mid Flood Tide		
	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
1-Sep-17	6.6	7.4	4.7	6.9	6.0	7.0
4-Sep-17	Remark 1	Remark 1	Remark 1	6.0	8.7	9.7
6-Sep-17	5.5	11.4	9.1	5.5	10.3	9.9
8-Sep-17	6.1	11.4	7.7	5.6	5.7	8.0
11-Sep-17	5.7	6.8	12.1	5.4	5.4	11.3
13-Sep-17	5.2	6.6	6.2	5.8	11.5	38.7
15-Sep-17	6.2	5.4	3.5	6.7	7.8	4.9
18-Sep-17	6.1	3.6	6.4	8.3	6.5	10.1
20-Sep-17	5.9	12.5	19.1	5.9	5.6	11.6
22-Sep-17	11.3	9.3	12.1	5.3	7.5	11.9
25-Sep-17	5.7	5.0	7.8	5.9	5.8	7.7
27-Sep-17	6.6	5.9	8.2	6.0	2.1	5.7
29-Sep-17	5.9	4.3	8.0	8.0	5.5	9.2
Average	6.4	7.5	8.7	6.3	6.8	11.2

Remark:

1) Due to the hoisting of Strong Wind Signal and Typhoon Signal No. 3 by the Hong Kong Observatory, the water quality monitoring at mid-ebb tide was cancelled on 4 September 2017. No substitute monitoring was conducted due to boat unavailability.

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 2017 (totally 5 sampling days between 2nd and 17th September 2017).
- 6.3.2 Since the field survey of Jun. 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 Wan. Respective measures (e.g. manual clean-up) should be implemented by responsible units.

Horseshoe Crabs

- 6.3.3 Active search method was conducted for horseshoe crab monitoring by two experienced surveyors in every sampling zone. During the search period, any accessible and potential area would be investigated for any horseshoe crab individuals within 2-3 hours of low tide period (tidal level below 1.2 m above Chart Datum (C.D.)). Once a horseshoe crab individual was found, the species was identified referencing to Li (2008). The prosomal width, inhabiting substratum and respective GPS coordinate were recorded. A photographic record was taken for future investigation. Any grouping behavior of individuals, if found, was recorded. The horseshoe crab surveys were conducted on 2nd (for TC2), 3rd (for TC1) and 6th (for TC3 and ST) September 2017. The weather was generally hot on all field days without rainfall.

In Jun. 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

- 6.3.4 Active search method was conducted for seagrass bed monitoring by two experienced surveyors in every sampling zone. During the search period, any accessible and potential area would be investigated for any seagrass beds within 2-3 hours of low tide period. Once seagrass bed was found, the species, estimated area, estimated coverage percentage and respective GPS coordinates were recorded. The seagrass beds surveys were conducted on 2nd (for TC2), 3rd (for TC1) and 6th (for TC3 and ST) September 2017. The weather was generally hot on all field days without rainfall.

Intertidal Soft Shore Communities

- 6.3.5 The intertidal soft shore community surveys were conducted in low tide period on 2nd (for TC2), 3rd (for TC1), 16th (for TC3) and 17th (for ST) September 2017. In every sampling zone, three 100m horizontal transect lines were laid at high tidal level (H: 2.0 m above C.D.), mid tidal level (M: 1.5 m above C.D.) and low tidal level (L: 1.0 m above C.D.). Along every horizontal transect line, ten random quadrats (0.5 m x 0.5 m) were placed.
- 6.3.6 Inside a quadrat, any visible epifauna were collected and were in-situ identified to the lowest practical taxonomical resolution. Whenever possible a hand core sample (10 cm internal diameter x 20 cm depth) of sediments was collected in the quadrat. The core sample was gently washed through a sieve of mesh size 2.0 mm in-situ. Any visible infauna were collected and identified. Finally the top 5 cm surface sediments was dug for visible infauna in the quadrat regardless of hand core sample was taken.
- 6.3.7 All collected fauna were released after recording except some tiny individuals that are too small to be identified on site. These tiny individuals were taken to laboratory for identification under dissecting microscope.
- 6.3.8 The taxonomic classification was conducted in accordance to the following references: Polychaetes: Fauchald (1977), Yang and Sun (1988); Arthropods: Dai and Yang (1991), Dong (1991); Mollusks: Chan and Caley (2003), Qi (2004).

Data Analysis

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

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

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

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

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 Action Plan for Mudflat Monitoring

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

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 the present survey, two species of horseshoe crab *Carcinoscorpius rotundicauda* (total 130 ind.) and *Tachypleus tridentatus* (total 77 ind.) were recorded. For one sight record, grouping of 2-18 individuals was observed at same locations with similar substratum (fine sand or soft mud, slightly submerged). Photo records were shown in **Figure 3.1 of Appendix I** while the complete survey records were listed in **Annex II of Appendix I**.
- 6.5.2 **Table 3.1 of Appendix I** summarizes the survey results of horseshoe crab in the present survey. For *Carcinoscorpius rotundicauda*, moderate number of individuals (18 ind.) were found in TC1 that search record was at low-moderate level (4.5 ind. hr⁻¹ person⁻¹). The average body size was 30.91 mm (prosomal width ranged 19.99-47.55 mm) in TC1. There was one individual found in TC2 only (prosomal width 37.85 mm) resulting in very low search record (0.3 ind. hr⁻¹ person⁻¹). More individuals were found in TC3 (72 ind.) and ST (39 ind.) resulting in relatively higher search records (6.5-12.0 ind. hr⁻¹ person⁻¹). Smaller individuals were found in TC3 that the average body size was 35.02 mm (prosomal width ranged 13.30-80.27 mm). The average body size was 50.18 mm (prosomal width ranged 19.87-78.00 mm) in ST.
- 6.5.3 For *Tachypleus tridentatus*, there was one individual found in TC1 only (prosomal width 38.34 mm) resulting in very low search record (0.3 ind. hr⁻¹ person⁻¹). No individual was found in TC2. Similarly, more individuals were found in TC3 (48 ind.) and ST (28 ind.) respectively. In TC3, the search record was relatively higher (8.0 ind. hr⁻¹ person⁻¹) while the average body size was 47.52 mm (prosomal width ranged 34.76-88.93 mm). In ST, the search record was 4.7 ind. hr⁻¹ person⁻¹ while the average body size was 47.21 mm (prosomal width ranged 29.61-64.36 mm).

- 6.5.4 In the previous survey of Mar. 2015, there was one important finding that a mating pair of *Carcinoscorpius rotundicauda* was found in ST (prosomal width: male 155.1 mm, female 138.2 mm) (**Figure 3.2 of Appendix I**). It indicated the importance of ST as a breeding ground of horseshoe crab. In another survey of Jun. 2017, mating pairs of *Carcinoscorpius rotundicauda* were also found in TC2 (prosomal width: male 175.27 mm, female 143.51 mm) and TC3 (prosomal width: male 182.08 mm, female 145.63 mm) (**Figure 3.2 of Appendix I**). It indicated that breeding of horseshoe crab could occur along the coast of Tung Chung Wan rather than ST only, as long as suitable substratum was available. The 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.
- 6.5.5 In the previous surveys (Jun. 2016, Jun. 2017) and present survey (Sep. 2017), there were occasional records of large individuals of *Carcinoscorpius rotundicauda* (prosomal width ranged 117.37- 178.67 mm, either single or in pair) in ST (Fig. 3.3). 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.
- 6.5.6 No marked individual of horseshoe crab was recorded in the present survey. Some marked individuals were found in the previous surveys of Sep. 2013, Mar. 2014 and Sep. 2014. All of them were released through a conservation programme in charged by Prof. Paul Shin (Department of Biology and Chemistry, The City University of Hong Kong (CityU)). It was a re-introduction trial of artificial bred horseshoe crab juvenile at selected sites. So that the horseshoe crab population might be restored in the natural habitat. Through a personal conversation with Prof. Shin, about 100 individuals were released in the sampling zone ST on 20 June 2013. All of them were marked with color tape and internal chip detected by specific chip sensor. There should be second round of release between June and September 2014 since new marked individuals were found in the survey of Sep. 2014.
- 6.5.7 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

- 6.5.8 **Figures 3.4 and 3.5 of Appendix I** show the changes of number of individuals, mean prosomal width and search record of horseshoe crabs *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* respectively in every sampling zone throughout the monitoring period.
- 6.5.9 For TC3 and ST, medium to high search records (i.e. number of individuals) of both species were always found in wet season (Jun. and Sep.). The search record of ST was higher from Sep. 2012 to Jun. 2014 while it was replaced by TC3 from Sep. 2014 to Jun. 2015. The search records were similar between two sampling zones from Sep. 2015 to Jun. 2016. In Sep. 2016, the search record of *Carcinoscorpius rotundicauda* in ST was much higher than TC3. From Mar. to Jun. 2017, the search records of both species were similar again between two sampling zones. It showed a natural variation of horseshoe crab population in these two zones due to weather condition and tidal effect. No obvious difference of horseshoe crab population was noted between TC3 and ST. In Sep. 2017, the search records of both horseshoe crab species decreased except the *Carcinoscorpius rotundicauda* in TC3. The survey results were different from previous findings that there were usually higher search records in Sep.. One possible reason was that the serial cyclone hit decreased horseshoe crab activity (totally 4 cyclone records between Jun. and Sep. 2017, to be discussed in 'Seagrass survey' section).
- 6.5.10 For TC1, the search record was at low to medium level throughout the monitoring period. The change of *Carcinoscorpius rotundicauda* was relatively more variable than that of *Tachypleus tridentatus*. Relatively, the search record was very low in TC2 (2 ind. in Sep. 2013; 1 ind. in

Mar., Jun., Sep. 2014, Mar. and Jun. 2015; 4 ind. in Sep. 2015; 6 ind. in Jun. 2016; 1 ind. in Sep. 2016, Mar., Jun. and Sep. 2017).

- 6.5.11 About the body size, larger individuals of *Carcinoscorpius rotundicauda* were usually found in ST and TC1 relative to those in TC3. For *Tachypleus tridentatus*, larger individuals were usually found in ST followed by TC3 and TC1. Throughout the monitoring period, it was obvious that TC3 and ST (western shore of Tung Chung Wan) was an important nursery ground for horseshoe crab especially newly hatched individuals due to larger area of suitable substratum (fine sand or soft mud) and less human disturbance (far from urban district). Relatively, other sampling zones were not a suitable nursery ground especially TC2. Possible factors were less area of suitable substratum (especially TC1) and higher human disturbance (TC1 and TC2: close to urban district and easily accessible). In TC2, large daily salinity fluctuation was a possible factor either since it was flushed by two rivers under tidal inundation. The individuals inhabiting TC1 and TC2 were confined in small foraging area due to limited area of suitable substrata. Although a mating pair of *Carcinoscorpius rotundicauda* was found in TC2, the hatching rate and survival rate of newly hatched individuals were believed very low.

Seasonal variation of horseshoe crab population

- 6.5.12 Throughout the monitoring period, the search record of horseshoe crab declined obviously during dry season especially December (**Figures 3.3 and 3.4 of Appendix I**). In Dec. 2012, 4 individuals of *Carcinoscorpius rotundicauda* and 12 individuals of *Tachypleus tridentatus* were found only. In Dec. 2013, no individual of horseshoe crab was found. In Dec. 2014, 2 individuals of *Carcinoscorpius rotundicauda* and 8 individuals of *Tachypleus tridentatus* were found only. In Dec. 2015, 2 individuals of *Carcinoscorpius rotundicauda*, 6 individuals of *Tachypleus tridentatus* and one newly hatched, unidentified individual were found only. The horseshoe crabs were inactive and burrowed in the sediments during cold weather (<15 °C). Similar results of low search record in dry season were reported in a previous territory-wide survey of horseshoe crab. For example, the search records in Tung Chung Wan were 0.17 ind. hr⁻¹ person⁻¹ and 0.00 ind. hr⁻¹ person⁻¹ in wet season and dry season respectively (details see Li, 2008). Relatively the search records were much higher in Dec. 2016. There were totally 70 individuals of *Carcinoscorpius rotundicauda* and 24 individuals of *Tachypleus tridentatus* in TC3 and ST. Because the survey was arranged in early December while the weather was warm with sunlight (~22 °C during dawn according to Hong Kong Observatory database, Chek Lap Kok station on 5 Dec). In contrast, there was no search record in TC1 and TC2 because the survey was conducted in mid December with colder and cloudy weather (~20 °C during dawn on 19 Dec). The horseshoe crab activity would decrease gradually with the colder climate.
- 6.5.13 From Sep. 2012 to Dec. 2013, *Carcinoscorpius rotundicauda* was a less common species relative to *Tachypleus tridentatus*. Only 4 individuals were ever recorded in ST in Dec. 2012. This species had ever been believed of very low density in ST hence the encounter rate was very low. Since Mar. 2014, it was found in all sampling zones with higher abundance in ST. Based on its average size (mean prosomal width 39.28-49.81 mm), it indicated that breeding and spawning of this species had occurred about 3 years ago along the coastline of Tung Chun Wan. However, these individuals were still small while their walking trails were inconspicuous. Hence there was no search record in previous sampling months. Since Mar. 2014, more individuals were recorded due to larger size and higher activity (i.e. more conspicuous walking trail).
- 6.5.14 For *Tachypleus tridentatus*, sharp increase of number of individuals was recorded in ST during the wet season of 2013 (from Mar. to Sep.). According to a personal conversation with Prof. Shin (CityU), his monitoring team had recorded similar increase of horseshoe crab population during wet season. It was believed that the suitable ambient temperature increased its conspicuousness. However similar pattern was not recorded in the following wet seasons. The number of individuals increased in Mar. and Jun. 2014 followed by a rapid decline in Sep. 2014. Then the number of individuals fluctuated slightly in TC3 and ST until Mar. 2017. Apart from natural mortality, migration from nursery soft shore to subtidal habitat was another possible cause. Since the mean prosomal width of *Tachypleus tridentatus* continued to grow and reached about 50 mm since Mar. 2014. Then it varied slightly between 35-65 mm from Sep. 2014 to Mar. 2017. Most of the individuals might have reached a suitable size (e.g. prosomal

width 50-60 mm) strong enough to forage in sub-tidal habitat. In Jun. 2017, the number of individuals increased sharply again in TC3 and ST. Although mating pair of *Tachypleus tridentatus* was not found in previous surveys, there should be new round of spawning in the wet season of 2016. The individuals might have grown to a more conspicuous size in 2017 accounting for higher search record.

- 6.5.15 Recently, *Carcinoscorpius rotundicauda* was a more common horseshoe crab species in Tung Chung Wan. It was recorded in the four sampling zones while the majority of population located in TC3 and ST. Due to potential breeding last year, *Tachypleus tridentatus* became common again and distributed in TC3 and ST only. Since TC3 and ST were regarded as important nursery ground for both horseshoe crab species, box plots of prosomal width of two horseshoe crab species were constructed to investigate the changes of population in details.

Box plot of horseshoe crab populations in TC3

- 6.5.16 **Figure 3.6 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 Sep. 2012 and Dec. 2013 hence the data were lacking. In Mar 2014, the major size (50% of individual records between upper (top of red box) and lower quartile (bottom of blue box)) ranged 40-60 mm while only few individuals were found. From Mar. 2014 to Jun. 2017, the median prosomal width (middle line of whole box) and major size (whole box) decreased after Mar. of every year. It was due to more small individuals found. It indicated new rounds of spawning. Also there were slight increasing trends of body size from Jun. to Mar. of next year since 2015. It indicated a stable growth of individuals. Focused on larger juveniles (upper whisker), the size range was quite variable (prosomal width 60-90 mm) along the sampling months. Juveniles reaching this size might gradually migrate to sub-tidal habitats.

- 6.5.17 For *Tachypleus tridentatus*, the major size ranged 20-50 mm while the number of individuals fluctuated from Sep. 2012 to Jun. 2014. Then a slight but consistent growing trend was observed from Sep. 2014 to Jun. 2015. The prosomal width increased from 25-35 mm to 35-65 mm. As mentioned, the large individuals might have reached a suitable size for migrating from the nursery soft shore to subtidal habitat. It accounted for the declined population in TC3. From Mar. to Sep. 2016, slight increasing trend of major size was noticed again. From Dec. 2016 to Jun. 2017, similar increasing trend of major size was noted with much higher number of individuals. It reflected new round of spawning. In Sep. 2017 (present survey), the major size decreased while the trend was different from previous two years. Such decline might be the cause of serial cyclone hit between Jun. and Sep. 2017 (to be discussed in the 'Seagrass survey' section). Across the whole monitoring period, the larger juveniles (upper whisker) reached 60-80 mm in prosomal width while it could reach 90 mm in present survey. Juveniles reaching this size might gradually migrate to sub-tidal habitats.

Box plot of horseshoe crab populations in ST

- 6.5.18 **Figure 3.7 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 Sep. 2012 and Dec. 2013 hence the data were lacking. From Mar. 2014 to Sep. 2017, the size of major population decreased and more small individuals (i.e. lower whisker) were recorded after Jun. of every year. It indicated new round of spawning. Also there were similar increasing trends of body size from Sep. to Jun. of next year between 2014 and 2017. It indicated a stable growth of individuals. Across the whole monitoring period, the larger juveniles (i.e. upper whisker) usually ranged 60-80 mm in prosomal width except one individual (prosomal width 107.04 mm) found in Mar. 2017. It reflected juveniles reaching this size would gradually migrate to sub-tidal habitats.

- 6.5.19 For *Tachypleus tridentatus*, a consistent growing trend was observed for the major population from Dec. 2012 to Dec. 2014 regardless of change of search record. The prosomal width increased from 15-30 mm to 60-70 mm. As mentioned, the large juveniles might have reached a suitable size for migrating from the nursery soft shore to subtidal habitat. From Mar. to Sep. 2015, the size of major population decreased slightly to a prosomal width 40-60 mm. At the same time, the number of individuals decreased gradually. It further indicated some of large

juveniles might have migrated to sub-tidal habitat, leaving the smaller individuals on shore. There was an overall growth trend. In Dec. 2015, two big individuals (prosomal width 89.27 mm and 98.89 mm) were recorded only while it could not represent the major population. In Mar. 2016, the number of individual was very few in ST that no boxplot could be produced. In Jun. 2016, the prosomal width of major population ranged 50-70 mm. But it dropped clearly to 30-40 mm in Sep. 2016 followed by an increase to 40-50 mm in Dec. 2016, 40-70 mm in Mar. 2017 and 50-60mm in Jun. 2017. Based on overall higher number of small individuals from Jun. 2016 to Sep. 2017 (present survey), it indicated 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.

- 6.5.20 As a summary for horseshoe crab populations in TC3 and ST, there were spawning of *Carcinoscorpius rotundicauda* from 2014 to 2016 while the spawning time should be in spring. There were consistent, increasing trends of population size in these two sampling zones. For *Tachypleus tridentatus*, small individuals were rarely found in 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. In 2016, new round of spawning was recorded in ST while increasing number of individuals and body size was noticed.

Impact of the HKLR project

- 6.5.21 It was the 20th survey of the EM&A programme during the construction period. Based on the results, impact of the HKLR project could not be detected on horseshoe crabs. The population change was mainly determined by seasonal variation while new rounds of spawning were observed for both species. In case, abnormal phenomenon (e.g. very few numbers of horseshoe crab individuals in wet season, large number of dead individuals on the shore) is found, it would be reported as soon as possible.

Seagrass Beds

- 6.5.22 In the present survey, no seagrass bed was recorded in Tung Chung Wan. Extensive area of mudflat, where used to be covered by seagrass beds, re-exposed along TC3 and ST (**Figure 3.8 of Appendix I**). In the previous survey of Jun. 2017, two species of seagrass *Halophila ovalis* and *Zostera japonica* were recorded in TC3 and ST (**Figure 3.9 of Appendix I**). There was still extensive seagrass area (~17046.5 m²) of *Halophila ovalis* along the mudflat between TC3 and ST at 0.5-2.0 m above C.D.. Another seagrass species *Zostera japonica*, which was much lower in vegetation area (~105.4 m²), was co-existing with few patches of *Halophila ovalis* nearby the mangrove strand. The disappearance of seagrass beds would be discussed in later paragraphs.
- 6.5.23 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

- 6.5.24 **Figure 3.10 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 Mar. 2013 that grew within the large patch of seagrass *Halophila ovalis*. Then the patch size increased and merged gradually with the warmer climate from Mar. to Jun. 2013 (15 m²). However the patch size decreased and remained similar from Sep. 2013 (4 m²) to Mar. 2014 (3 m²). In Jun. 2014, the patch size increased obviously again (41 m²) with warmer climate followed by a decrease between Sep. 2014 (2 m²) and Dec. 2014 (5 m²). From Mar. to Jun. 2015, the patch size increased sharply again (90 m²). It might be due to the disappearance of the originally dominant seagrass *Halophila ovalis* resulting in less competition for substratum and nutrients. From Sep. 2015 to Jun. 2016, it was found coexisting with seagrass *Halophila ovalis* with steady increasing patch size (from 44 m² to 115 m²) and variable coverage. In Sep. 2016, the patch size decreased again to (38 m²) followed by an increase to a horizontal strand (105.4 m²) in Jun. 2017 (present survey). And it was no longer co-existing with *Halophila ovalis*. Between Sep. 2014 and Jun. 2017, an increasing trend was noticed from Sep. to Jun. of next year followed by a rapid decline in Sep. of next year. It was possibly the causes of heat stress,

typhoon and stronger grazing pressure during wet season. In the present survey, no seagrass patch of *Zostera japonica* was found. Such disappearance matched the findings of previous monitoring period.

6.5.25 For *Halophila ovalis*, it was recorded as 3-4 medium to large patches (area 18.9-251.7 m²; vegetation coverage 50-80%) beside the mangrove vegetation at tidal level 2 m above C.D. in Sep. 2012 (first survey). The total seagrass bed area grew steadily from 332.3 m² in Sep. 2012 to 727.4 m² in Dec. 2013. Flowers were observed in the largest patch during its flowering period. In Mar. 2014, 31 small to medium patches were newly recorded (variable area 1-72 m² per patch, vegetation coverage 40-80% per patch) in lower tidal zone between 1.0 and 1.5 m above C.D. The total seagrass area increased further to 1350 m². In Jun. 2014, these small and medium patches grew and extended to each other. These patches were no longer distinguishable and were covering a significant mudflat area of ST. It was generally grouped into 4 large patches (1116 – 2443 m²) of seagrass beds characterized of patchy distribution, variable vegetable coverage (40-80%) and smaller leaves. The total seagrass bed area increased sharply to 7629 m². In Sep. 2014, the total seagrass area declined sharply to 1111 m². There were only 3-4 small to large patches (6-253 m²) at high tidal level and 1 patch at low tidal level (786 m²). Typhoon or strong water current was a possible cause (Fong, 1998). In Sep. 2014, there were two tropical cyclone records in Hong Kong (7th-8th Sep.: no cyclone name, maximum signal number 1; 14th-17th Sep.: Kalmaegi, maximum signal number 8SE) before the seagrass survey dated 21st Sep. 2014. The strong water current caused by the cyclone, Kalmaegi especially, might have given damage to the seagrass beds. In addition, natural heat stress and grazing force were other possible causes reducing seagrass beds area. Besides, very small patches of *Halophila ovalis* could be found in other mud flat area in addition to the recorded patches. But it was hardly distinguished due to very low coverage (10-20%) and small leaves.

6.5.26 In Dec. 2014, all the seagrass patches of *Halophila ovalis* disappeared in ST. **Figure 3.10 of Appendix I** shows the difference of the original seagrass beds area nearby the mangrove vegetation at high tidal level between Jun. 2014 and Dec. 2014. Such rapid loss would not be seasonal phenomenon because the seagrass beds at higher tidal level (2.0 m above C.D.) were present and normal in December 2012 and 2013. According to Fong (1998), similar incident had occurred in ST in the past. The original seagrass area had declined significantly during the commencement of the construction and reclamation works for the international airport at Chek Lap Kok in 1992. The seagrass almost disappeared in 1995 and recovered gradually after the completion of reclamation works. Moreover, incident of rapid loss of seagrass area was also recorded in another intertidal mudflat in Lai Chi Wo in 1998 with unknown reason. Hence *Halophila ovalis* was regarded as a short-lived and *r*-strategy seagrass that could colonize areas in short period but disappears quickly under unfavourable conditions (Fong, 1998).

Unfavourable conditions to seagrass *Halophila ovalis*

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

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

6.5.29 In order to investigate any deterioration of water quality (e.g. more turbid) in ST, the water quality measurement results at two closest monitoring stations SR3 and IS5 of the EM&A programme were obtained from the water quality monitoring team. Based on the results from June to December 2014, the overall water quality was in normal fluctuation except there was one

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

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

Recolonization of seagrass beds

- 6.5.31 **Figure 3.10 of Appendix I** shows the recolonization of seagrass bed area in ST from Dec. 2014 to Jun. 2017. From Mar. to Jun. 2015, 2-3 small patches of *Halophila ovalis* were newly found coinhabiting with another seagrass species *Zostera japonica*. But its total patch area was still very low relative to the previous records. The recolonization rate was low while cold weather and insufficient sunlight were possible factors between Dec. 2014 and Mar. 2015. Moreover, it would need to compete with seagrass *Zostera japonica* for substratum and nutrient. Since *Zostera japonica* had extended and had covered the original seagrass bed of *Halophila ovalis* at certain degree. From Jun. 2015 to Mar. 2016, the total seagrass area of *Halophila ovalis* had increased rapidly from 6.8 m² to 230.63 m². It had recolonized its original patch locations and covered *Zostera japonica*. In Jun. 2016, the total seagrass area increased sharply to 4707.3 m². Similar to the previous records of Mar to Jun. 2014, the original patch area increased further to a horizontally long strand. Another large seagrass beds colonized the lower tidal zone (1.0-1.5 m above C.D.). In Sep. 2016, this patch extended much and covered significant soft mud area of ST, resulting in sharp increase of total area (24245 m²). It indicated the second extensive colonization of this r-strategy seagrass. In Dec. 2016, this extensive seagrass patch decreased in size and had separated into few, undistinguishable patches. Moreover, the horizontal strand nearby the mangrove vegetation decreased in size (**Figure 3.10 of Appendix I**). The total seagrass bed decreased to 12550 m². From Mar. to Jun. 2017, the seagrass bed area remained generally stable (12438-17046.5 m²) but the vegetation coverage fluctuated (20-50% in Mar. 2017 to 80-100% in Jun. 2017).

Re-disappearance of seagrass bed

- 6.5.32 In present survey, the whole seagrass bed of *Halophila ovalis* disappeared again along the shore of TC3 and ST (**Figure 3.10 of Appendix I**). It was similar to the case between Sep. and

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

- 6.5.33 Between the survey periods of Jun. and Sep. 2017, there were four tropical cyclone records in Hong Kong (Merkbok in 12-13th, Jun.; Roke in 23rd, Jul.; Hato in 22-23rd, Aug.; Pakhar in 26-27th, Aug.) (online database of Hong Kong Observatory). All of them reaches signal 8 or above especially Hato (highest signal 10).
- 6.5.34 According to the water quality monitoring results (Jul. to Aug. 2017) of the two closest monitoring stations SR3 and I5 of the respective EM&A programme, the overall water quality was in normal fluctuation. There was one exceedance of suspended solids (SS) at SR3 on 12 Jul. 2017. The SS concentration reached 24.7 mg/L during mid-ebb tide. It exceeded the Action Level (≤ 23.5 mg/L) but was far below the Limit Level (≤ 34.4 mg/L). Since such exceedance was slight and temporary, its effect to seagrass bed should be minimal.
- 6.5.35 Overall, the disappearance of seagrass beds in ST was believed the cause of serial cyclone hit in Jul and Aug. 2017. Based on previous findings, the seagrass beds of both species were expected to recolonize the mudflat as long as the vicinal water quality was normal. The recolonization would be a gradual process lasting for about 1.5 years.

Impact of the HKLR project

- 6.5.36 It was the 20th survey of the EM&A programme during the construction period. According to the results of present survey, the disappearance of seagrass beds was believed the cause of serial cyclone hits rather than impact of HKLR project. Based on previous findings, the seagrass beds were expected to recolonize the mudflat gradually in the future, as long as the vicinal water quality remained normal.

Intertidal Soft Shore Communities

- 6.5.37 **Table 3.2 and Figure 3.12 of Appendix I** show the types of substratum along the horizontal transect at every tidal level in all sampling zones. The relative distribution of different substrata was estimated by categorizing the substratum types (Gravels & Boulders / Sands / Soft mud) of the ten random quadrats along the horizontal transect. The distribution of substratum types varied among tidal levels and sampling zones:
- In TC1, high percentage of 'Gravels and Boulders' (70%) was recorded at high tidal level followed by 'Sands' (30%). Even distribution of 'Gravels and Boulders' (40%) and 'Sands' (40%) were recorded at mid tidal level. Relatively, the substratum types of low tidal level were different while higher percentages of 'Sands' (60%) and 'Soft mud' (30%) were recorded.
 - In TC2, the substratum types were recorded evenly at high and mid tidal levels ('Soft mud' 40-50%, 'Gravels and Boulders' 30%, 'Sands' 20-30%). At low tidal level, the major substratum type was 'Soft mud' (80%) followed by 'Gravels and Boulders' (20%).
 - In TC3, high percentages of 'Sands' (70-90%) were recorded at high and mid tidal levels followed by 'Soft mud' (10-30%). At low tidal level, the major substratum type was 'Gravels and Boulders' (80%).
 - In ST, 'Gravels and Boulders' was the main substratum (100%) at high and mid tidal levels. At low tidal level, the substratum types were mainly 'Soft mud' (60%) and 'Sands' (40%).
- 6.5.38 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.
- 6.5.39 **Table 3.3 of Appendix I** lists the total abundance, density and number of taxon of every phylum in this survey. A total of 12099 individuals were recorded. Mollusca was clearly the most abundant phylum (total abundance 11160 ind., density 372 ind. m⁻², relative abundance 92.2%). The second to fourth abundant phyla were Arthropoda (803 ind., 27 ind. m⁻², 6.6%), Annelida (72 ind., 2 ind. m⁻², 0.6%) and Sipuncula (37 ind., 1 ind. m⁻², 0.3%) respectively. Relatively other phyla were very low in abundances (density ≤ 1 ind. m⁻², relative abundance $\leq 0.2\%$). Moreover, the most diverse phylum was Mollusca (37 taxa) followed by Arthropoda (14 taxa) and Annelida

(6 taxa). There was 1-2 taxa recorded only for other phyla. The taxonomic resolution and complete list of collected specimens are shown in **Annexes IV and V of Appendix I** respectively.

6.5.40 **Table 3.4 of Appendix I** shows the number of individual, relative abundance and density of each phylum in every sampling zone. The total abundance (1838-4026 ind.) varied among the four sampling zones while the phyla distributions were similar. In general, Mollusca was the most dominant phylum (no. of individuals: 1720-3638 ind.; relative abundance 89.0-95.2%; density 229-485 ind. m⁻²). Other phyla were much lower in number of individuals. Arthropoda was the second abundant phylum (107-402 ind.; 3.7-10.0%; 14-54 ind. m⁻²). Annelida was the third abundant phylum in TC2 and TC3 (26-33 ind.; 0.7-1.4%; 3-4 ind. m⁻²) and fourth abundant in TC1 (12 ind.; 0.3%; 2 ind. m⁻²). Sipuncula was relatively common in TC1 and TC3 (12-16 ind.; 0.3-0.4%; 2 ind. m⁻²). Relatively other phyla were low in abundance in all sampling zones ($\leq 0.2\%$).

Dominant species in every sampling zone

6.5.41 **Table 3.5 of Appendix I** lists the abundant species (relative abundance >10%) in every sampling zone. In the present survey, most of the listed abundant species were of low to moderate densities (50-250 ind. m⁻²). Few listed species of high or very high density (> 250 ind. m⁻²) were regarded as dominant species. Other listed species of lower density (< 50 ind. m⁻²) were regarded as common species.

6.5.42 In TC1, the major substratum type was 'Gravels and Boulders' at high tidal level. There was dominant gastropod *Batillaria multiformis* (337 ind. m⁻², relative abundance 63%) followed by gastropods *Cerithidea djadjariensis* (84 ind. m⁻², 16%) and *Cerithidea cingulata* (62 ind. m⁻², 11%) at low densities. At mid tidal level (substratum types 'Gravels and Boulders' and 'Sands'), there were few abundant species at low to moderate densities including gastropods *Cerithidea djadjariensis* (109 ind. m⁻², 23%), *Monodonta labio* (81 ind. m⁻², 17%), *Batillaria multiformis* (59 ind. m⁻², 13%), *Cerithidea cingulata* (58 ind. m⁻², 12%), as well as rock oyster *Saccostrea cucullata* (106 ind. m⁻², 22%, attached on boulders). At low tidal level, few intertidal fauna were recorded in the major substratum type 'Sands'. However abundant rock oyster *Saccostrea cucullata* (176 ind. m⁻², 29%) and barnacle *Balanus amphitrite* (115 ind. m⁻², 19 %) were attaching on the boulders.

6.5.43 In TC2, gastropod *Cerithidea djadjariensis* (172 ind. m⁻², 40%) was abundant at moderate-high density at high tidal level (major substratum types: 'Soft mud' and 'Sands') followed by gastropod *Cerithidea cingulata* (89 ind. m⁻², 21%) and rock oyster *Saccostrea cucullata* (56 ind. m⁻², 13%, attached on boulders). At mid and low tidal levels (major substratum types: 'Soft mud' and 'Gravels and Boulders'), gastropods *Cerithidea djadjariensis* (32-83 ind. m⁻², 15-25%), *Batillaria zonalis* (42-63 ind. m⁻², 19-20%) and rock oyster *Saccostrea cucullata* (61-62 ind. m⁻², 18-29%) were found common at low-moderate densities generally.

6.5.44 In TC3, the major substratum type was 'Sands' at both high and mid tidal levels. Gastropod *Cerithidea djadjariensis* was the dominant species of moderate to high density (256-365 ind. m⁻², 51-58%) followed by another gastropod *Cerithidea cingulata* (129-163 ind. m⁻², 26%). Besides gastropod *Batillaria multiformis* (73 ind. m⁻², 12%) was relatively abundant at high tidal level. At low tidal level (major substratum: 'Gravels and Boulders'), rock oyster *Saccostrea cucullata* (163 ind. m⁻², 42%) and gastropod *Monodonta labio* (126 ind. m⁻², 32%) were abundant at moderate densities.

6.5.45 In ST, there was no clearly abundant species at all tidal levels. Gastropod *Batillaria multiformis* (56 ind. m⁻², 24%), *Monodonta labio* (46 ind. m⁻², 19%) and rock oyster *Saccostrea cucullata* (35 ind. m⁻², 15%) were common species at high tidal level (major substratum: 'Gravels and Boulders'). At mid tidal level (major substratum: 'Gravels and Boulders'), rock oyster *Saccostrea cucullata* (117 ind. m⁻², 33%) was abundant at moderate density followed by low-density gastropods *Monodonta labio* (63 ind. m⁻², 18 %), *Lunella coronata* (46 ind. m⁻², 13%) and *Cerithidea djadjariensis* (41 ind. m⁻², 12%). At low tidal level (major substratum types: 'Sands' and 'Soft mud'), there were common taxa only including rock oyster *Saccostrea cucullata* (28 ind. m⁻², 20%, attached on boulders), barnacle *Balanus amphitrite* (25 ind. m⁻², 18%, attached

on boulders), gastropods *Cerithidea djadjariensis* (24 ind. m⁻², 17%) and *Batillaria zonalis* (14 ind. m⁻², 10%).

- 6.5.46 In general, there was no consistent zonation pattern of species distribution across all sampling zones and tidal levels. The species distribution should be determined by the type of substratum primarily. In general, gastropods *Cerithidea djadjariensis* (total number of individuals: 2993 ind., relative abundance 24.7%), *Cerithidea cingulata* (1548 ind., 12.8%), *Batillaria multiformis* (1443 ind., 11.9%) and *Batillaria zonalis* (509 ind., 4.2%) were the most commonly occurring species on sandy and soft mud substrata. Rock oyster *Saccostrea cucullata* (2101 ind., 17.4%), gastropods *Monodonta labio* (1116 ind., 9.2%), *Lunella coronata* (323 ind., 2.7%), barnacle *Balanus amphitrite* (438 ind., 3.6%) were commonly occurring species inhabiting gravel and boulders substratum.

Biodiversity and abundance of soft shore communities

- 6.5.47 **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.
- 6.5.48 Among the sampling zones, there was no obvious difference of mean species number, H' and J across all tidal levels. The mean species numbers of TC1, TC2 and ST (9-10 spp. 0.25 m⁻²) were slightly higher than TC3 (7 spp. 0.25 m⁻²). The mean densities of TC1 and TC3 (509-537 ind. m⁻²) were higher than TC2 and ST (245-322 ind. m⁻²). Since TC3 was higher in mean density and was highly dominant by few species, the mean H' (1.1) was relatively lower than other three sampling zones (1.4-1.6). Overall the mean J was similar among the four sampling zones (0.6-0.8).
- 6.5.49 Across the tidal levels, there was no consistent difference of the mean species number, H' and J in all sampling zones. For the mean density, there were generally decreasing trends in TC2, TC3 and ST from high to low tidal level.
- 6.5.50 **Figures 3.13 to 3.16 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 (Dec.) but the mean H' and J fluctuated within a stable range.
- 6.5.51 Focusing on the changes of mean density in ST, there were steady decreasing trends regardless of tidal levels since the beginning of monitoring period. It might be an unfavourable change that reflected environmental stresses. The mean densities increased again from Dec. 2016 to Jun. 2017 reflecting a recovery process. But it decreased again in Sep. 2017 (present survey) while the heat stress and serial cyclone hit of this wet season were believed the causes. Because similar decreases of density were noted in other sampling zones either.

Impact of the HKLR project

- 6.5.52 It was the 20th survey of the EM&A programme during the construction period. Based on the results, impacts of the HKLR project were not detected on intertidal soft shore community. In case of other abnormal phenomena (e.g. rapid or consistent decline of fauna densities and species number) are observed, it would be reported as soon as possible.

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7 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 6, 13, 20 and 29 September 2017.

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**.

Table 7.1 Summary of Environmental Site Inspections

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
29 Aug 2017	<ol style="list-style-type: none"> 1. Waste was observed at Ventilation Building. 2. More than 20 bags of cement were not properly covered at Ventilation Building. 3. Chemical container was observed without drip tray at Ventilation Building. 4. Waste was observed at N1. 	<ol style="list-style-type: none"> 1. The waste was removed from Ventilation Building. 2. The cement bags were covered properly at Ventilation Building. 3. The chemical container was removed from Ventilation Building. 4. The waste was removed from N1. 	6 Sep 2017
6 Sep 2017	<ol style="list-style-type: none"> 1. A skip was overloaded with waste at Depress Roundabout. 2. Stagnant water was observed at N4. 3. Waste was observed at N4. 4. Concrete waste was observed at S15. 5. Waste was observed at S16. 6. Dust emission from vehicle movement was observed at S25. 	<ol style="list-style-type: none"> 1. The waste was removed from the skip at Depress Roundabout. 2. The stagnant water was removed from N4. 3. The waste was removed from N4. 4. The concrete waste was removed from S15. 5. The waste was removed from S16. 6. Water spraying for dust suppression was provided for the access road at S25. 	13 Sep 2017
13 Sep 2017	<ol style="list-style-type: none"> 1. Stagnant water was observed at N4. 2. Broken water barriers were not covered properly at S7. 3. Water seepage was observed at S7. 4. Waste was accumulated at S9. 5. Stagnant water was observed at N4. 6. Waste was accumulated at N4. 7. Sandbag barriers were not maintained properly at S25. 	<ol style="list-style-type: none"> 1. The stagnant water was removed from N4. 2. The broken water barriers were fixed at S7. 3. The water seepage was prevented by deployment of sandbag barriers at S7. 4. The waste was removed from S9. 5. The stagnant water was removed from N4. 6. The waste was removed from N4. 7. The broken sandbag barriers were replaced and their gaps were closed at S25. 	20 Sep 2017

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
20 Sep 2017	<ol style="list-style-type: none"> 1. Gaps of silt curtain were observed at Portion X. 2. Waste was accumulated at Depress Roundabout. 3. Oil drums were observed without drip tray at Depress Roundabout. 4. A skip was overloaded with waste at Depress Roundabout. 5. Waste was accumulated at HMA. 6. Poor housekeeping was observed at HMA. 7. Stagnant water was observed at HMA. 8. Waste batteries were not stored properly at N4. 9. An oil drum without drip tray and contaminated soil was observed at S16. 10. A dump truck was observed without mechanical cover at S15. 	<ol style="list-style-type: none"> 1. The gaps of silt curtain were closed at Portion X. 2. The waste was removed from Depress Roundabout. 3. The oil drums were removed from Depress Roundabout. 4. The waste was removed from the skip at Depress Roundabout. 5. The waste was removed from HMA. 6. Good housekeeping was maintained at HMA. 7. Larvicide was applied to avoid mosquito breeding at HMA. 8. The waste batteries were placed in the chemical waste storage area for collection by licensed collector at N4. 9. The oil drum was removed from S16. The contaminated soil was placed in the chemical waste area storage for collection by licensed collector at S16. 10. The dump truck was covered properly at S15. 	29 Sep 2017
29 Sep 2017	<ol style="list-style-type: none"> 1. Silt curtain with gap was observed at Portion X. 2. Drip tray was not provided for oil drums at A1 Bridge. 3. Chemical container was not stored in the designated storage area at A1 Bridge. 4. NRMM label was not provided on the air compressor at A1 Bridge. 5. Stagnant water was observed at A1 Bridge. 6. Exit of N20 was found dry and unpaved. Muddy tracks was observed on the road outside the works area. 	<p><u>The Contractor was recommended to:</u></p> <ol style="list-style-type: none"> 1. Maintain the silt curtain properly at Portion X. 2. Provide drip tray for the oil drums or remove them immediately from A1 Bridge. 3. Store the chemical container in the designated storage area at A1 Bridge. 4. Adhere a NRMM label on to the air compressor at A1 Bridge. 5. Remove the stagnant water at A1 Bridge. 6. Water/clean the site access regularly and provide washing facilities for cleaning the vehicles before leaving the work area at N20. 	Follow-up actions for the observations issued for the last weekly site inspection of the reporting month will be inspected during the next site inspections

7.1.3 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 inspections.

7.2 Advice on the Solid and Liquid Waste Management Status

- 7.2.1 The Contractor registered as a chemical waste producer for the Project. 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 No Action and Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at AMS5 and AMS6 during the reporting month
- 7.5.2 For construction noise, no Action and Limit Level exceedances were recorded at the monitoring station during the reporting month.
- 7.5.3 For marine water quality monitoring, no Action Level and Limit Level exceedances of dissolved oxygen and turbidity level were recorded during the reporting month. There were one Action Level and one Limit Level exceedances of suspended solids level were recorded during the reporting month.

7.6 Summary of Complaints, Notification of Summons and Successful Prosecution

- 7.6.1 There was one complaint received in relation to the environmental impacts during the reporting month. The summary of environmental complaint is presented in **Table 7.2**. The details of cumulative statistics of Environmental Complaints are provided in **Appendix K**.

Table 7.2 A Summary of Environmental Complaint for the Reporting Month

Environmental Complaint No.	Date of Complaint Received	Description of Environmental Complaint
COM-2017-102	1823 Integrated Call Centre received a complaint lodged by a member of the public on 30 September 2017. ET received complaint details on 3 October 2017	Cleanliness problem at Tung Fai Road

- 7.6.2 For Environmental Complaint No. COM-2017-102, complaint investigation is being undertaken and will be reported in next reporting month.
- 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**.

8 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 2017 are summarized in **Table 8.1**.

Table 8.1 Construction Activities for October 2017

Site Area	Description of Activities
WA7	Stockpiling
Portion X	Removal of toe loading
Portion X	Dismantling/Trimming of Temporary 40mm Stone Platform for Construction of Seawall
Portion X	Construction of Seawall
Portion X	Loading and Unloading of Filling Materials
Portion X	Backfilling at Scenic Hill Tunnel (Cut & Cover Tunnel)
Portion X	Excavation for HKBCF to Airport Tunnel & Construction of Tunnel Box structure
Airport Road	Works for Diversion of Airport Road
Airport Road / Airport Express Line / East Coast Road	Utilities Detection
Airport Road / Airport Express Line/ East Coast Road	Establishment of Site Access
Airport Road	Excavation and Lateral Support Works & Construction of Tunnel Box Structure for HKBCF to Airport Tunnel West (Cut & Cover Tunnel)
Portion X	Excavation and Lateral Support Works & Construction of Tunnel Box Structure for HKBCF to Airport Tunnel East (Cut & Cover Tunnel)
Portion X	Sub-structure, Superstructure & Finishing works for Highway Operation and Maintenance Area Building
West Portal	Superstructure & Finishing Works for Scenic Hill Tunnel West Portal Ventilation building

8.2 Environmental Monitoring Schedule for the Coming Month

8.2.1 The tentative schedule for environmental monitoring in October 2017 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 sixtieth 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 2017.

Air Quality

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

Noise

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

Water Quality

9.1.4 For marine water quality monitoring, no Action Level and Limit Level exceedances of dissolved oxygen and turbidity level were recorded during the reporting month. There were one Action Level and one Limit Level exceedances of suspended solids level were recorded during the reporting month.

Dolphin

9.1.5 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.

9.1.6 Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of this project in the quarterly EM&A report, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period (September 2017 – December 2017) and baseline monitoring period (3-month period) will be made.

Mudflat

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

9.1.8 The September 2017 survey results indicate that the impacts of the HKLR project could not be detected on horseshoe crabs and intertidal soft shore community. The disappearance of seagrass beds was believed the cause of serial cyclone hits rather than impact of HKLR project. Based on previous findings, the seagrass beds were expected to recolonize the mudflat gradually in the future, as long as the vicinal water quality remained normal.

Environmental Site Inspection and Audit

9.1.9 Environmental site inspections were carried out on 6, 13, 20 and 29 September 2017. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.

9.1.10 There was one complaint (Environmental Complaint No. COM-2017-102) received in relation to the environmental impact during the reporting period. Complaint investigation is being undertaken and will be reported in next reporting month.


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



FIGURES



LEGEND

 Site Boundary of Contract HY/2011/03

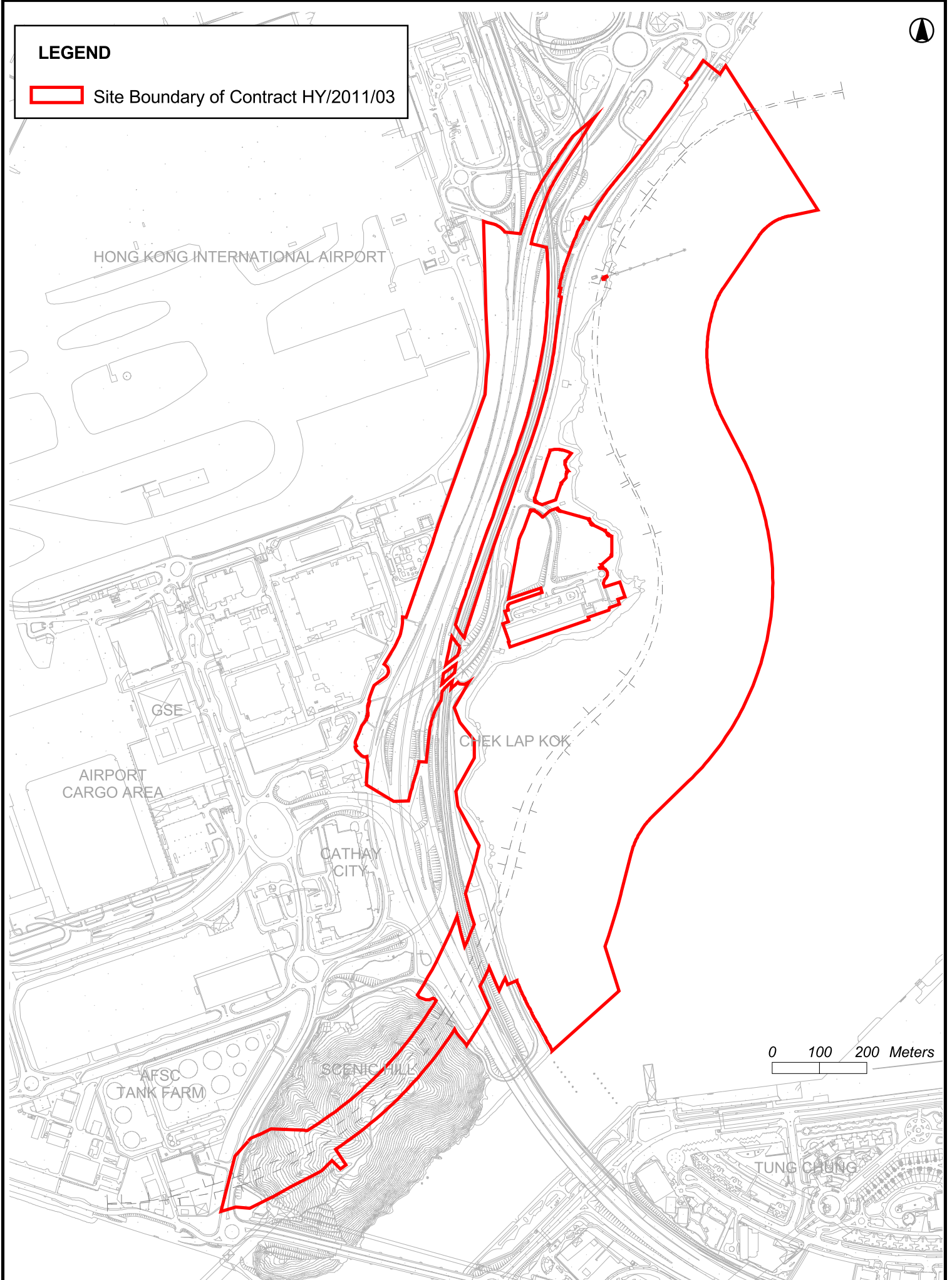
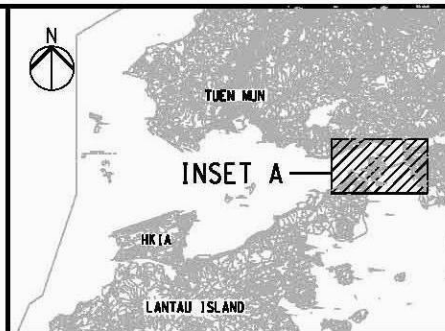
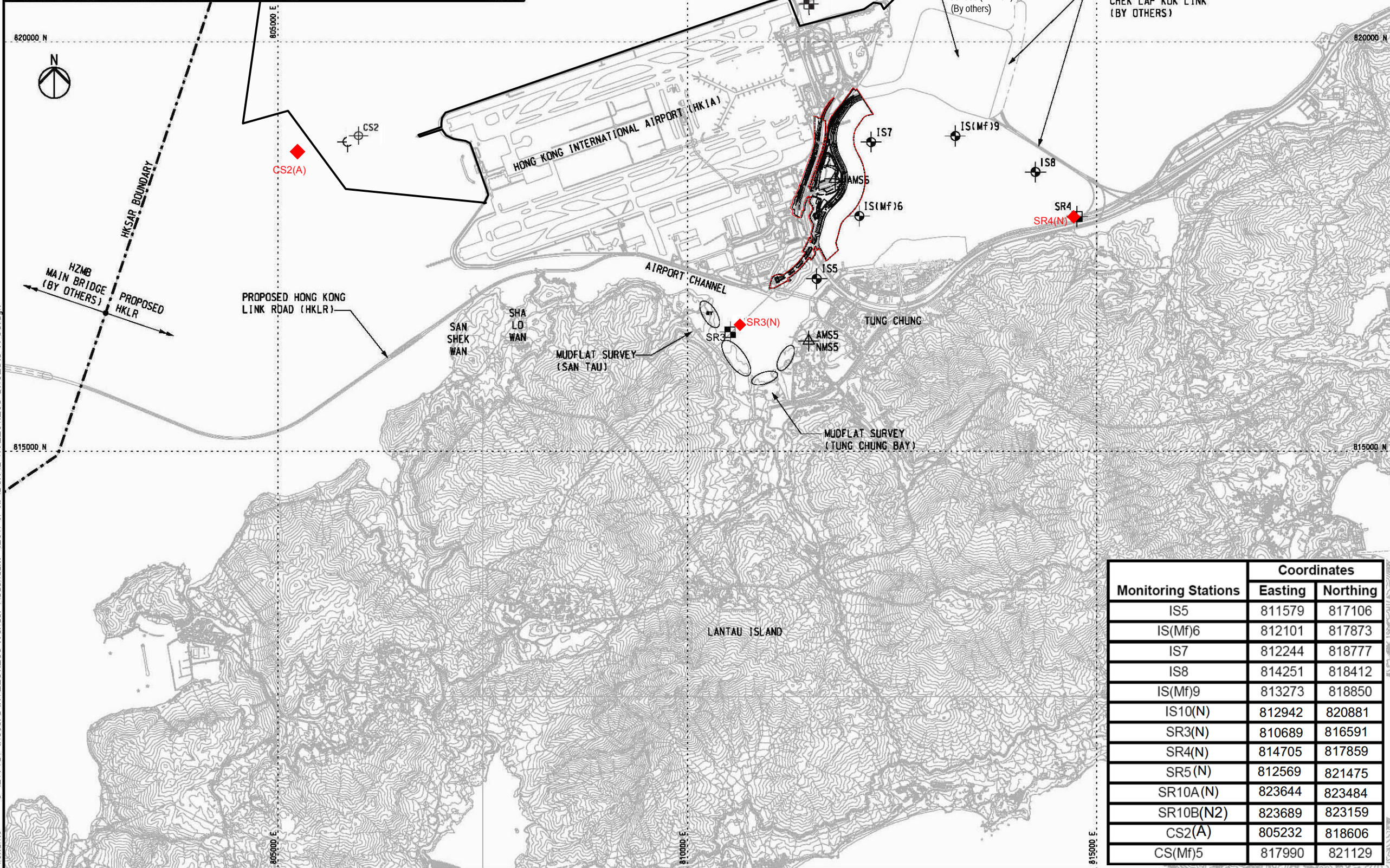
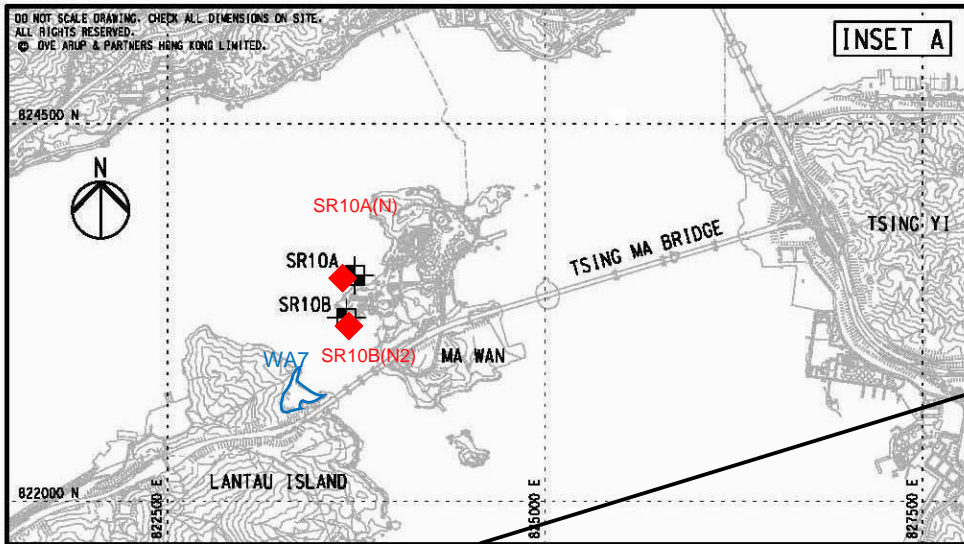


Figure 1.1 Location of the Site



KEY PLAN

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

- LEGEND
- WORKS BOUNDARY OF CONTRACT HY2011/03
 - IS IMPACT STATIONS (WATER QUALITY)
 - CS CONTROL/FAR FIELD STATIONS (WATER QUALITY)
 - SR SENSITIVE RECEIVERS STATIONS (WATER QUALITY)
 - ST STATION FOR SENSITIVITY TEST RESULT (WATER QUALITY)
 - AMS MONITORING STATIONS (AIR QUALITY)
 - NMS MONITORING STATIONS (NOISE)
 - MUDFLAT ECOLOGICAL SAMPLING LOCATION

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

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

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

Drawing title
ENVIRONMENTAL MONITORING STATIONS

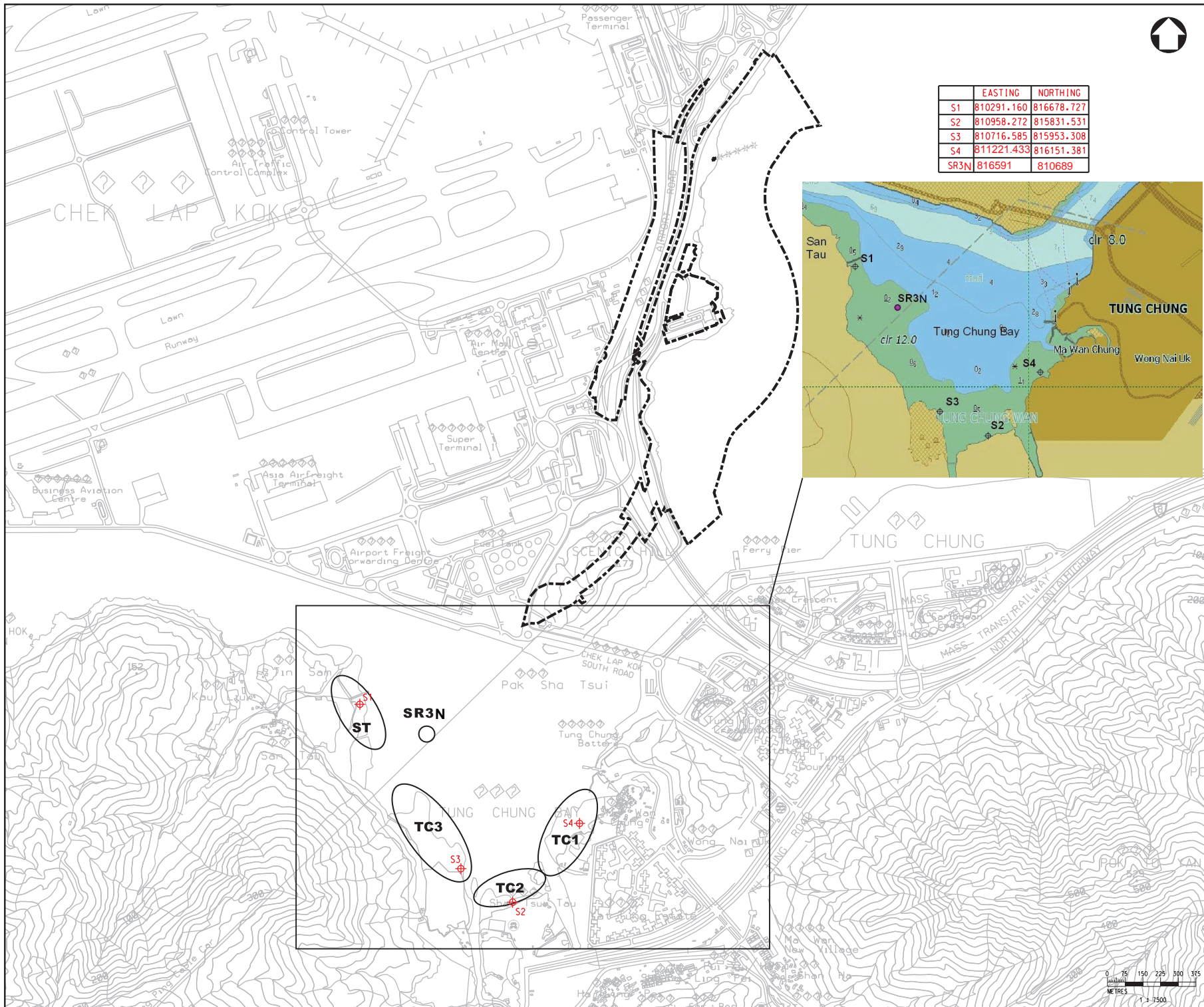
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路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理局
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Monitoring Stations	Coordinates	
	Easting	Northing
IS5	811579	817106
IS(Mf)6	812101	817873
IS7	812244	818777
IS8	814251	818412
IS(Mf)9	813273	818850
IS10(N)	812942	820881
SR3(N)	810689	816591
SR4(N)	814705	817859
SR5(N)	812569	821475
SR10A(N)	823644	823484
SR10B(N2)	823689	823159
CS2(A)	805232	818606
CS(Mf)5	817990	821129

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LEGEND:

-  WORKS BOUNDARY
-  **SR3N**
WATER QUALITY MONITORING STATION
-  SAMPLING ZONE
-  **S1**
MEASUREMENT POINT
SEDIMENTATION RATE

Rev	Description	By	Date

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

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

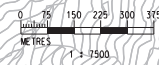
Contractor's Designer
ATKINS 阿特金斯

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

Drawing title
MUDFLAT SURVEY AREAS

Drawing no.	FIGURE 6.1	Rev.	-
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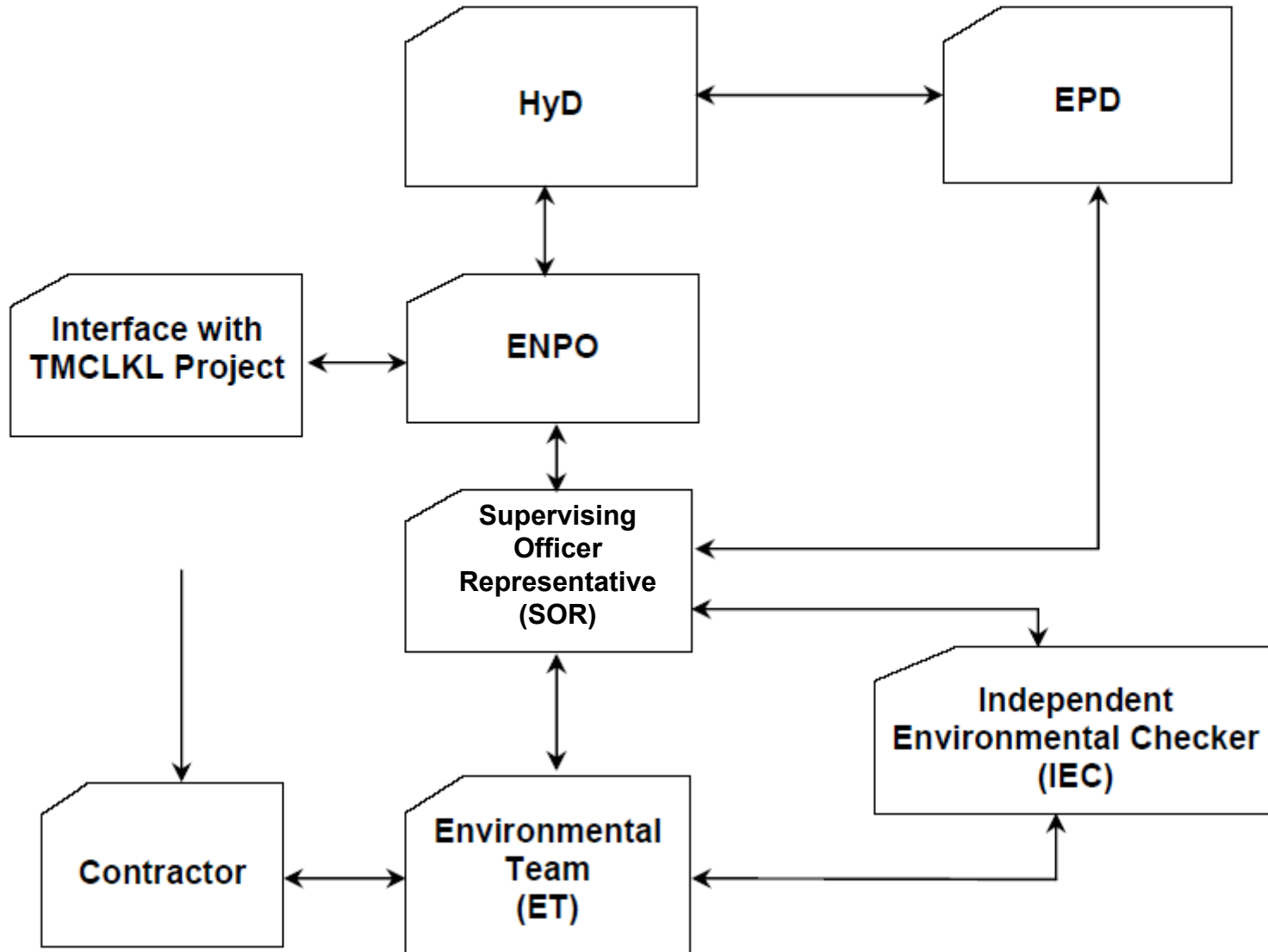
APPENDIX A

Environmental Management Structure



Project Organization for Environmental Works

↔ Line of communication

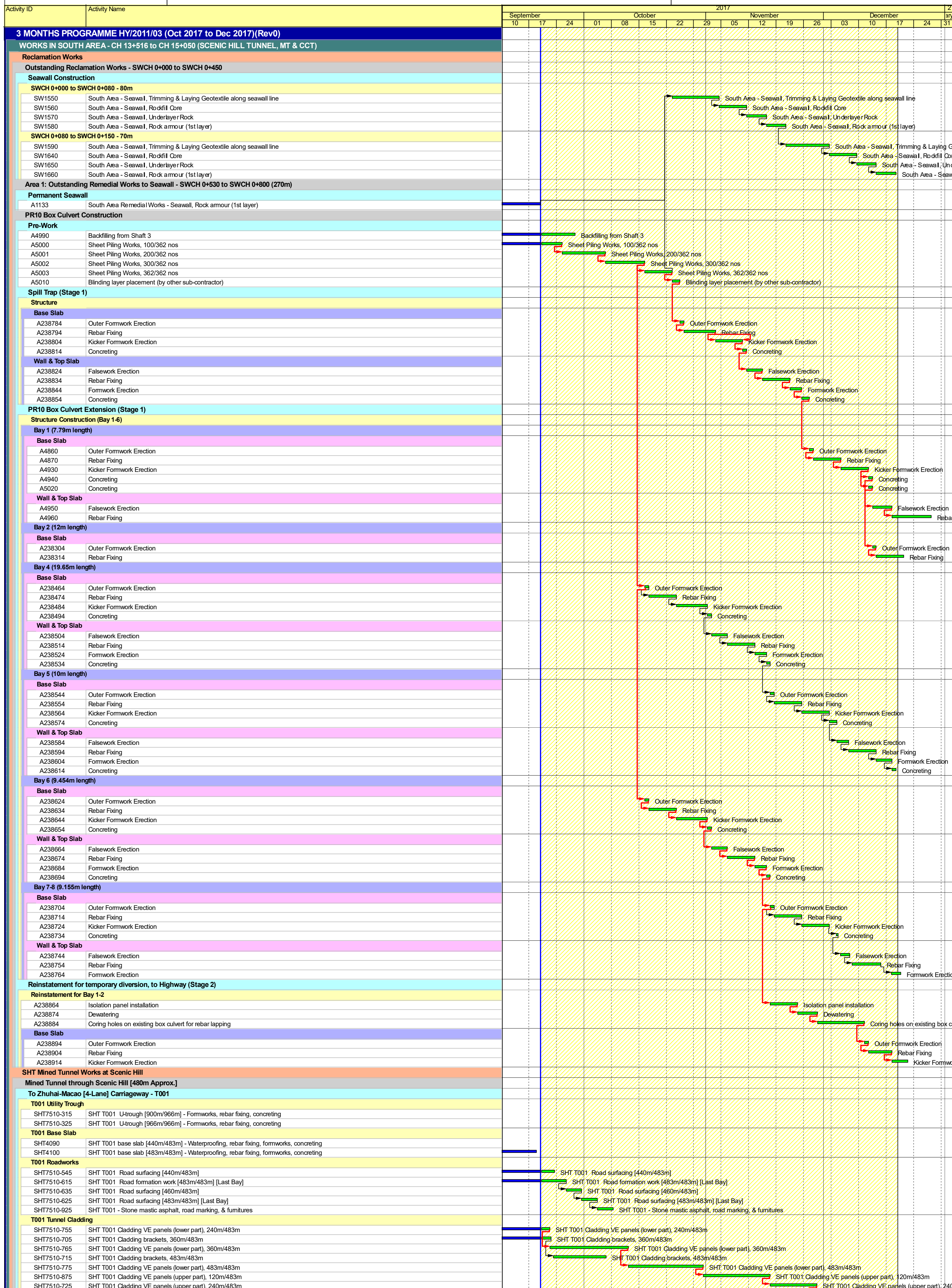




APPENDIX B

Construction Programme



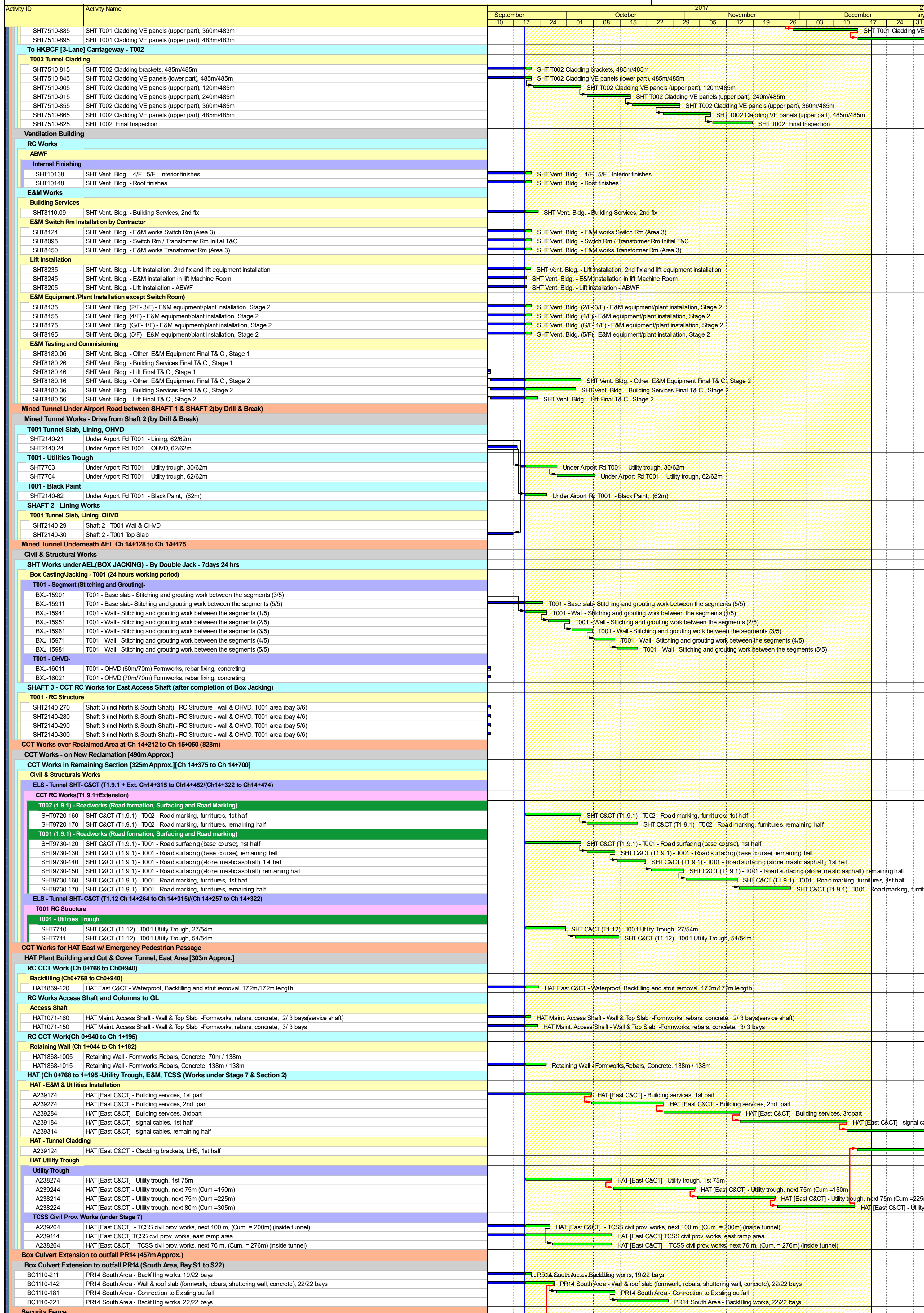


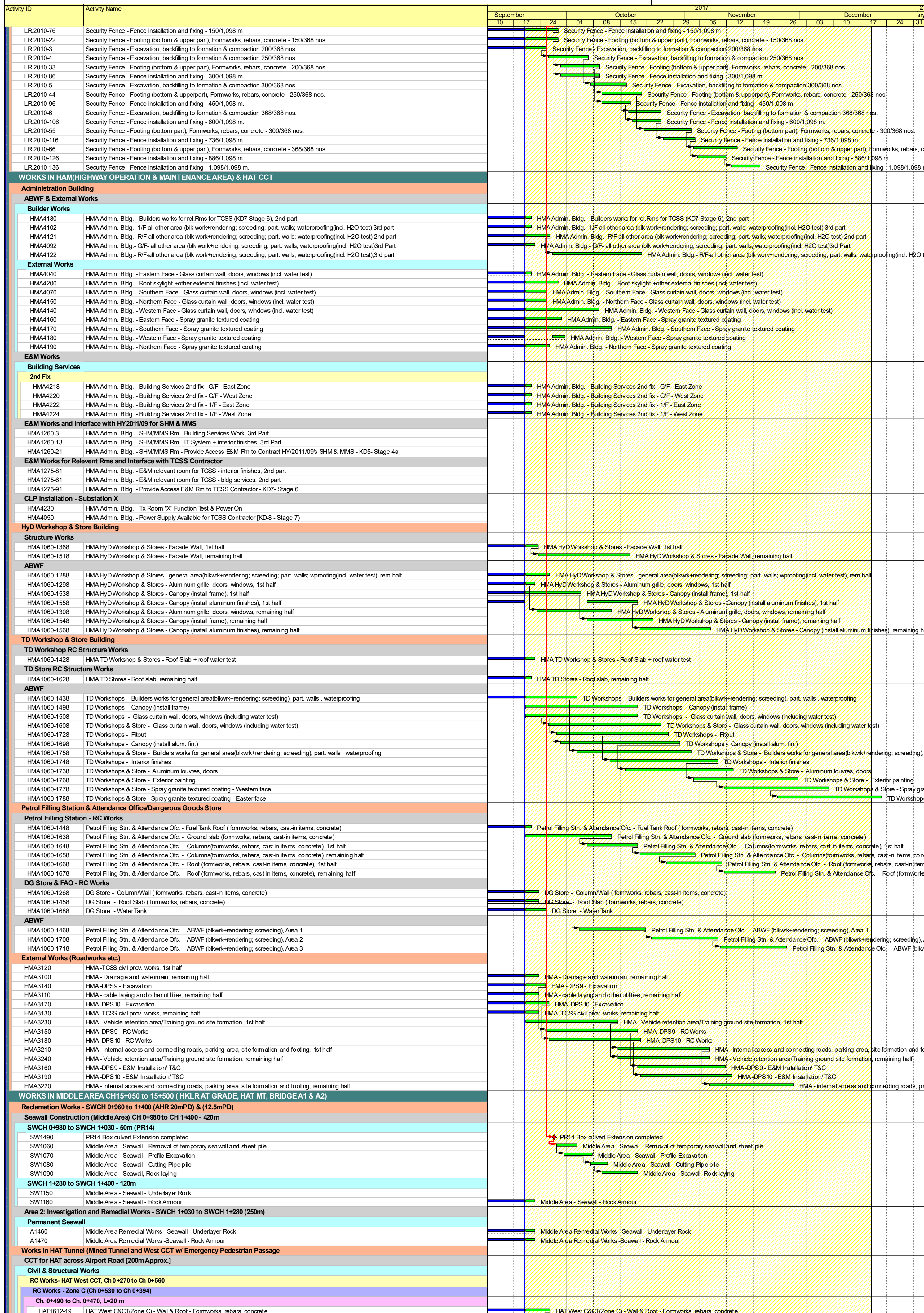
■	Works Programme	■	Works Programme
◆	Works Programme	◆	Works Programme
◇	Milestone	◇	Milestone
◆	Milestone	◇	Milestone

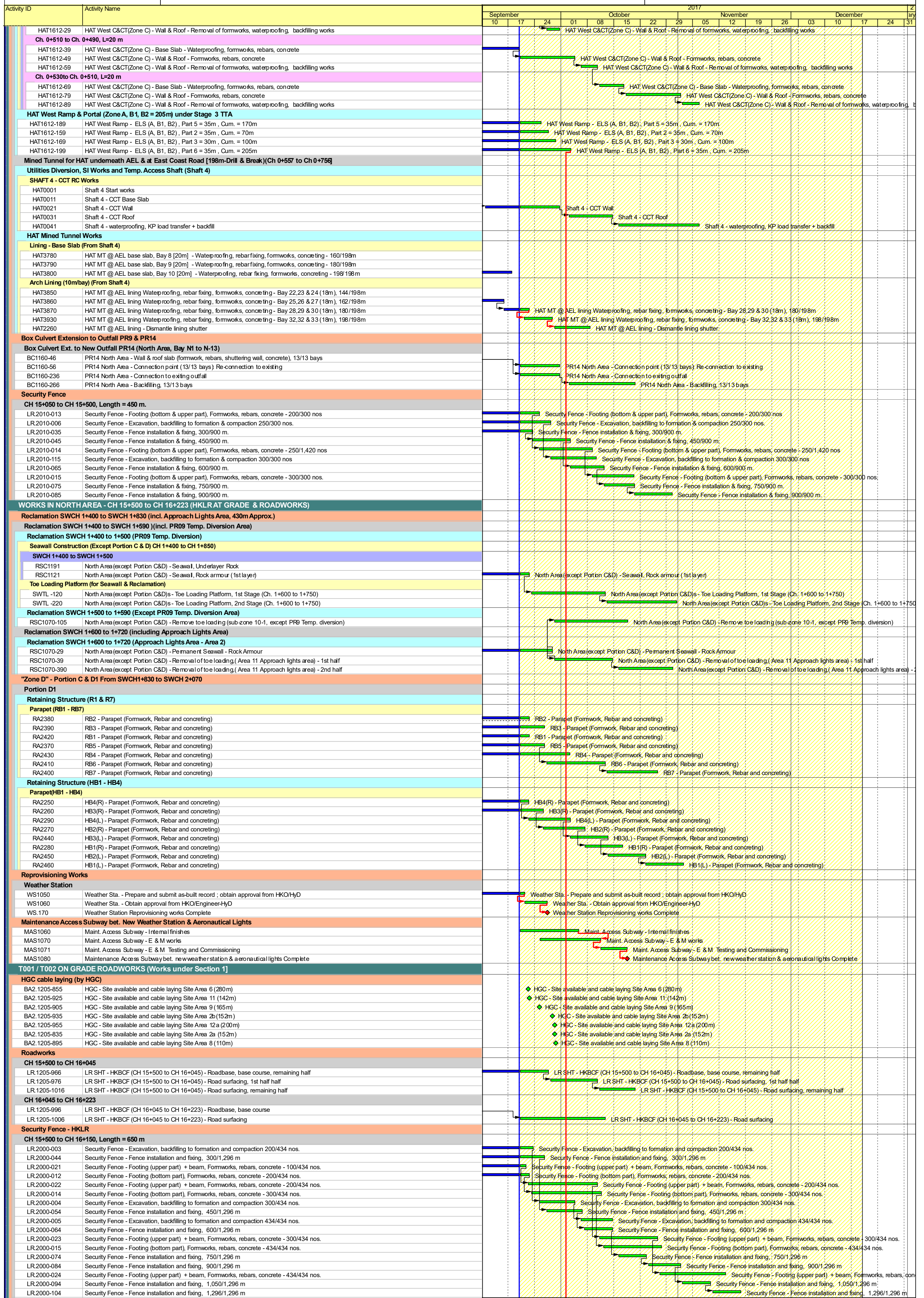
China State Construction Engineering (Hong Kong) Ltd -
 Contract No. HY/2011/03 - HZMB, Hong Kong Link Road
 , Section between Scenic Hill and HKBCF

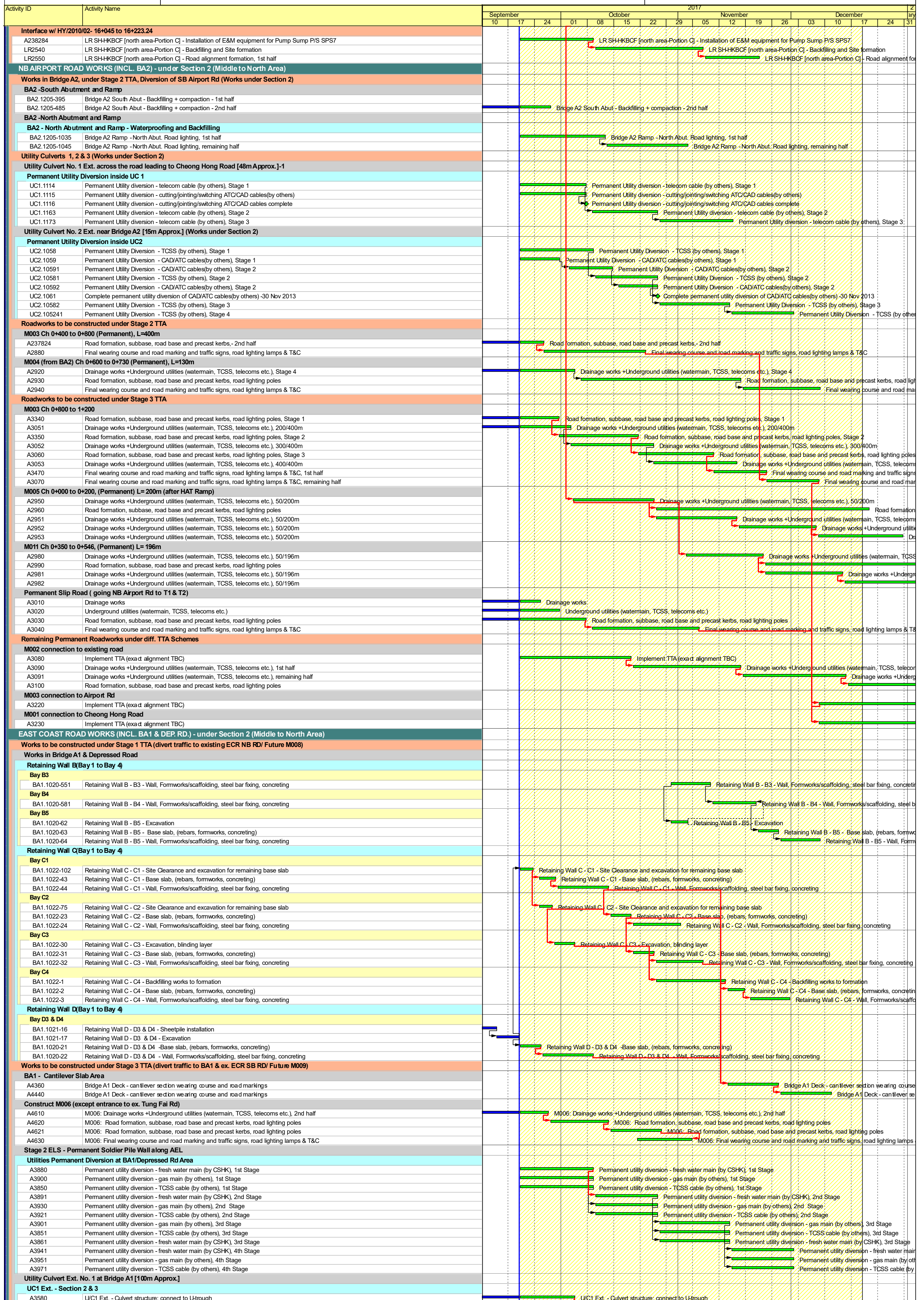
Date	Revision	Checked	Approved
13-Sep-17		WC	SYT













APPENDIX C

Calibration Certificates



Certificate of Calibration

校正證書

Certificate No. : C173907
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC17-1606)

Date of Receipt / 收件日期 : 11 July 2017

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 / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 17 July 2017

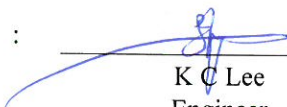
TEST RESULTS / 測試結果

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

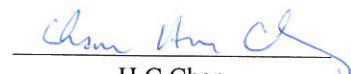
The test equipment used for calibration are traceable to National Standards via :

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

Tested By
測試


K C Lee
Engineer

Certified By
核證


H C Chan
Engineer

Date of Issue
簽發日期

17 July 2017

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室書面批准。

Certificate of Calibration

校正證書

Certificate No. : C173907

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 : 3004068 was performed before the test.
3. The results presented are the mean of 3 measurements at each calibration point.
4. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C170048
CL281	Multifunction Acoustic Calibrator	PA160023

5. Test procedure : MA101N.

6. Results :

- 6.1 Sound Pressure Level :

- 6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L _{AFP}	A	F	94.00	1	94.1	± 1.1

- 6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
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. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

- 6.2 Time Weighting

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

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Certificate of Calibration

校正證書

Certificate No. : C173907
證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
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 ± 1.6
					4 kHz	95.1	+1.0 ± 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		UUT Reading (Db)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L _{CFP}	C	F	94.00	63 Hz	93.3	-0.8 ± 1.5
					125 Hz	93.9	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.0	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.

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室書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗室

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606

Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Certificate of Calibration

校正證書

Certificate No. : C173907
證書編號

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2793199

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :

94 dB	: 63 Hz - 125 Hz	: ± 0.35 dB
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	12.5 kHz	: ± 0.70 dB
104 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB	: 1 kHz	: ± 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.

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室書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗室

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606

Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com



Certificate of Calibration 校正證書

Certificate No. : C173906
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC17-1606)

Date of Receipt / 收件日期 : 11 July 2017

Description / 儀器名稱 : Acoustical Calibrator
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 4231
Serial No. / 編號 : 3004068
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 : $(23 \pm 2)^{\circ}\text{C}$
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 17 July 2017


TEST RESULTS / 測試結果

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

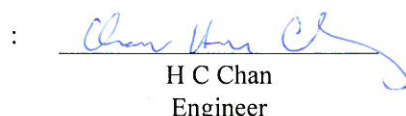
The test equipment used for calibration are traceable to National Standards via :

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

Tested By
測試


K C Lee
Engineer

Certified By
核證


H C Chan
Engineer

Date of Issue
簽發日期

17 July 2017

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

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Certificate of Calibration

校正證書

Certificate No. : C173906
證書編號

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

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C173864
CL281	Multifunction Acoustic Calibrator	PA160023
TST150A	Measuring Amplifier	C161175

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

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

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (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室書面批准。

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : AMS5(Ma Wan Chung Village)
Calibrated by : P.F.Yeung
Date : 26/08/2017

Sampler

Model : TE-5170
Serial Number : S/N3640

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 20 March 2017
Slope (m) : 2.08464
Intercept (b) : -0.036840
Correlation Coefficient(r) : 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1005
Ta(K) : 303

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	11.8	3.393	1.645	54	53.34
2 13 holes	9.2	2.996	1.455	48	47.41
3 10 holes	6.7	2.557	1.244	43	42.48
4 7 holes	4.5	2.095	1.023	38	37.54
5 5 holes	2.5	1.562	0.767	30	29.63

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

Sampler Calibration Relationship

Slope(m): 26.189 Intercept(b): 9.950 Correlation Coefficient(r): 0.9980

Checked by: Magnum Fan

Date: 28/08/2017

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : AMS5 (Ma Wan Chung Village)
Calibrated by : K.F.Ho
Date : 12/09/2017

Sampler

Model : TE-5170
Serial Number : S/N3640

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 20 Mar 2017
Slope (m) : 2.08464
Intercept (b) : -0.03684
Correlation Coefficient(r) : 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1009
Ta(K) : 304

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	11.6	3.365	1.632	57	56.32
2 13 holes	9.2	2.997	1.455	50	49.41
3 10 holes	6.6	2.539	1.235	44	43.48
4 7 holes	4.2	2.025	0.989	36	35.57
5 5 holes	2.6	1.593	0.782	28	27.67

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

Sampler Calibration Relationship

Slope(m): 37.293 Intercept(b): 2.521 Correlation Coefficient(r): 0.9984

Checked by: Magnum Fan

Date: 13/09/2017

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : AMS6(Dragonair Building)
Calibrated by : P.F.Yeung
Date : 24/08/2017

Sampler

Model : TE-5170
Serial Number : S/N3639

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 20 March 2017
Slope (m) : 2.08464
Intercept (b) : -0.036840
Correlation Coefficient(r) : 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1004
Ta(K) : 305

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	11.5	3.337	1.618	54	53.14
2 13 holes	9.0	2.952	1.434	49	48.22
3 10 holes	7.0	2.604	1.267	42	41.33
4 7 holes	4.6	2.111	1.030	36	35.43
5 5 holes	2.8	1.647	0.808	28	27.55

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

Sampler Calibration Relationship

Slope(m): 31.521 Intercept(b): 2.322 Correlation Coefficient(r): 0.9978

Checked by: Magnum Fan

Date: 28/08/2017



TISCH ENVIRONMENTAL, INC.
 145 SOUTH MIAMI AVE
 VILLAGE OF CLEVELAND, OH
 45002
 513.467.9000
 877.263.7610 TOLL FREE
 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 20, 2017 Rootsmeter S/N 0438320 Ta (K) - 293
 Operator Tisch Orifice I.D. - 2454 Pa (mm) - 759.46

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER	ORFICE
					DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.4390	3.2	2.00
2	NA	NA	1.00	1.0240	6.4	4.00
3	NA	NA	1.00	0.9170	7.9	5.00
4	NA	NA	1.00	0.8730	8.8	5.50
5	NA	NA	1.00	0.7200	12.8	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
1.0120	0.7033	1.4257	0.9958	0.6920	0.8784
1.0078	0.9842	2.0163	0.9916	0.9683	1.2423
1.0057	1.0967	2.2543	0.9895	1.0791	1.3889
1.0045	1.1507	2.3643	0.9884	1.1322	1.4567
0.9992	1.3878	2.8514	0.9831	1.3654	1.7568
Qstd slope (m) = 2.08464			Qa slope (m) = 1.30537		
intercept (b) = -0.03684			intercept (b) = -0.02270		
coefficient (r) = 0.99994			coefficient (r) = 0.99994		
y axis = SQRT[H2O(Pa/760) (298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

EQUIPMENT CALIBRATION RECORD

Type : Laser Dust Monitor
 Manufacturer / Brand : SIBATA
 Model No.: LD-3B
 Equipment No.: LD-3B-002
 Serial No.: 974350
 Sensitivity Adjustment Scale Setting : 622 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 : 29-09-2016

Calibration Result

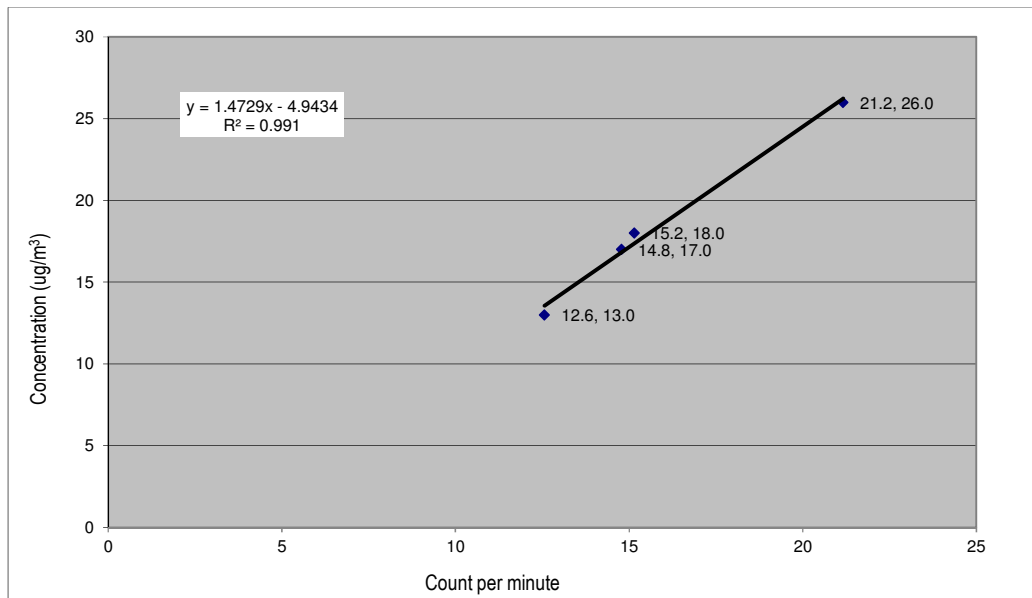
Sensitivity Adjustment Scale Setting (Before Calibration) : 622 CPM
 Sensitivity Adjustment Scale Setting (After Calibration) : 622 CPM

Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m ³) Y-axis	Total Count	Count/Minute X-axis
				Temp (°C)	R.H. (%)			
1	2016-10-26	13:59	14:59	30.7	64%	18	909	15.15
2	2016-10-26	15:12	16:12	30.9	59%	13	754	12.57
3	2016-10-26	16:21	17:21	30.9	61%	17	887	14.78
4	2016-10-26	17:30	18:30	30.9	61%	26	1270	21.17

Be Linear Regression of Y or X

Slope (K-factor): 1.4729 Intercept,b: -4.943
 Correlation coefficient (R): 0.9955

Remark: _____



Recorded by: Ray Cheng

Signature: _____

Date: 25-11-2016

Checked by: Ketih Chau

Signature: _____

Date: 25-11-2016

EQUIPMENT CALIBRATION RECORD

Type :	Laser Dust Monitor
Manufacturer / Brand :	SIBATA
Model No.:	LD-3B
Equipment No.:	LD-3B-003
Serial No.:	276018
Sensitivity Adjustment Scale Setting :	799 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 29/09/2016

Calibration Result

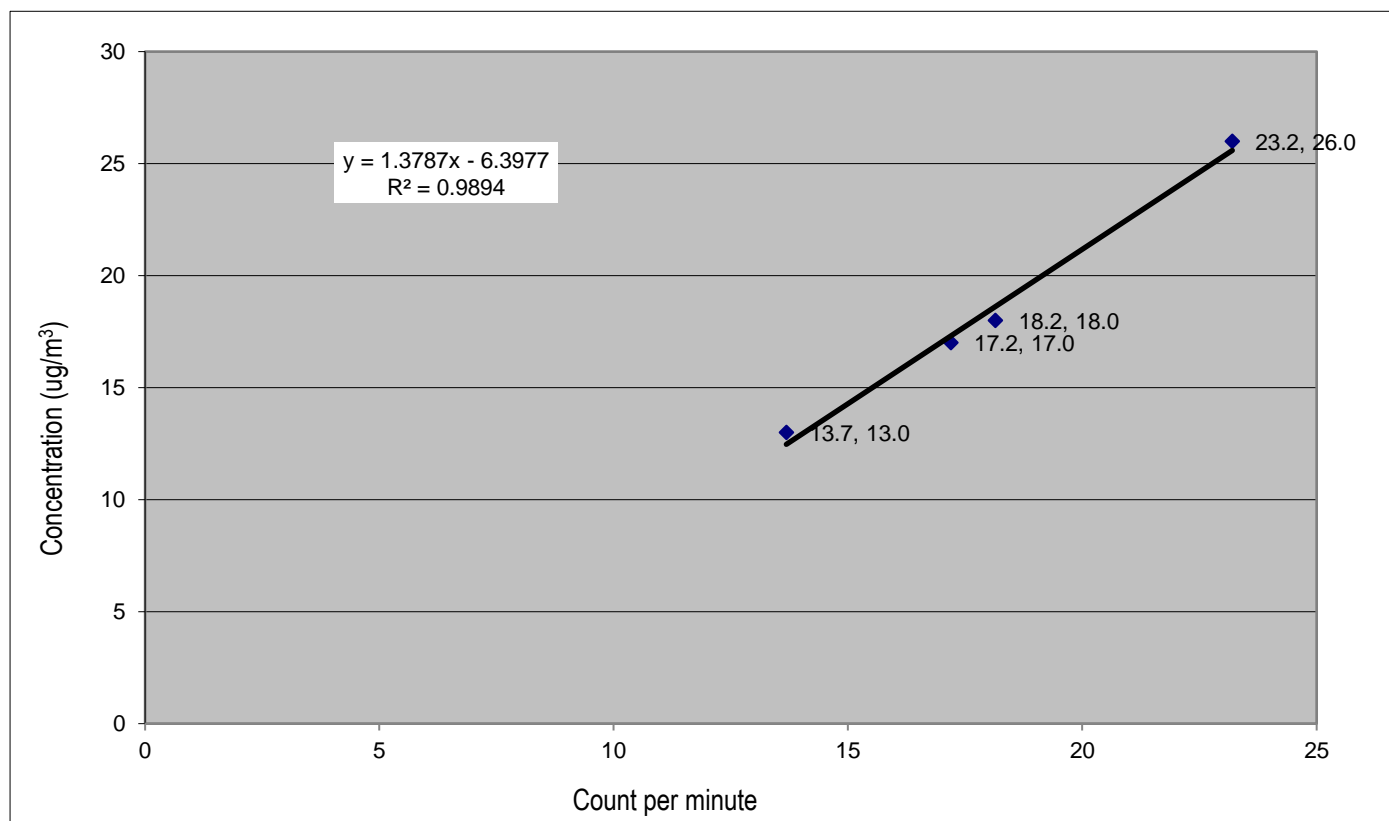
Sensitivity Adjustment Scale Setting (Before Calibration) : 799 CPM
 Sensitivity Adjustment Scale Setting (After Calibration) : 799 CPM



Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m ³) Y-axis	Total Count	Count/Minute X-axis
				Temp (°C)	R.H. (%)			
1	26/10/2016	13:59	14:59	30.7	64%	18	1089	18.15
2	26/10/2016	15:12	16:12	30.9	59%	13	821	13.68
3	26/10/2016	16:21	17:21	30.9	61%	17	1032	17.20
4	26/10/2016	17:30	18:30	30.9	61%	26	1392	23.20

Be Linear Regression of Y or X

Slope (K-factor): 1.3787 Intercept,b: -6.398
 Correlation coefficient : 0.9947

Remark: _____



Recorded by: <u>Ray Cheng</u>	Signature: <u></u>	Date: <u>25/11/2016</u>
Checked by: <u>Ketih Chau</u>	Signature: <u></u>	Date: <u>25/11/2016</u>



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: MR MIKE SHEK
CLIENT: AECOM ASIA COMPANY LIMITED
ADDRESS: 1501- 10, 15/F, TOWER 1,
GRAND CENTRAL PLAZA,
138 SHATIN RURAL COMMITTEE ROAD,
SHATIN, NEW TERRITORIES, HONG KONG

WORK ORDER: HK1731176
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 20/07/2017
DATE OF ISSUE: 26/07/2017

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 principals as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Conductivity, Dissolved Oxygen, Salinity, pH, Turbidity and Temperature
Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12A101545
Equipment No.: W.026.35
Date of Calibration: 20 July, 2017

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.


Mr Chan Siu Ming, Vico
Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1731176
Sub-batch: 0
Client: AECOM ASIA COMPANY LIMITED
Date of Issue: 26/07/2017



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12A101545
Equipment No.: W.026.35
Date of Calibration: 20 July, 2017

Date of next Calibration: 20 October, 2017

Parameters:

Conductivity Method Ref: APHA (21th edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	148	+0.7
6667	6740	+1.1
12890	12760	-1.0
58670	58770	+0.2
	Tolerance Limit (%)	±10.0

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.60	3.62	+0.02
5.40	5.43	+0.03
7.60	7.57	-0.03
	Tolerance Limit (mg/L)	±0.20

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

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	10.04	+0.0
20.5	20.47	-0.0
38.5	38.52	+0.0
	Tolerance Limit (°C)	±2.0

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


 Mr Chan Siu Ming, Vice
 Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1731176
Sub-Batch: 0
Client: AECOM ASIA COMPANY LIMITED
Date of Issue: 26/07/2017



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12A101545
Equipment No.: W.026.35
Date of Calibration: 20 July, 2017

Date of next Calibration: 20 October, 2017

Parameters:

Salinity

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	--
10	10.01	+0.1
20	20.03	+0.2
30	30.06	+0.2
Tolerance Limit (%)		±10.0

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	--
4	3.9	-2.5
10	10.2	+2.0
20	20.1	+0.5
50	50.6	+1.2
100	100.0	0.0
Tolerance Limit (%)		±10.0

pH Value

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.02	+0.02
7.0	7.02	+0.02
10.0	10.05	+0.05
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.


 Mr Chan Siu Ming, Vice
 Manager - Inorganics



REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR MIKE SHEK
CLIENT: AECOM ASIA COMPANY LIMITED
ADDRESS: 1501-10, 15/F, TOWER 1,
GRAND CENTRAL PLAZA,
138 SHATIN RURAL COMMITTEE ROAD,
SHATIN, NEW TERRITORIES, HONG KONG

WORK ORDER: HK1731171
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 20/07/2017
DATE OF ISSUE: 26/07/2017

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 principals as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Conductivity, Dissolved Oxygen, Salinity, pH, Turbidity and Temperature
Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12D100972
Equipment No.: W.026.36
Date of Calibration: 20 July, 2017

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.


Mr Chan Siu Ming, *Vico*
Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1731171
Sub-batch: 0
Client: AECOM ASIA COMPANY LIMITED
Date of Issue: 26/07/2017



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12D100972
Equipment No.: W.026.36
Date of Calibration: 20 July, 2017

Date of next Calibration: 20 October, 2017

Parameters:

Conductivity Method Ref: APHA (21th edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	143	- 2.7
6667	6630	- 0.6
12890	12790	- 0.8
58670	58730	+ 0.1
	Tolerance Limit (%)	± 10.0

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.60	3.57	- 0.03
5.40	5.46	+ 0.06
7.60	7.56	- 0.04
	Tolerance Limit (mg/L)	± 0.20

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

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	10.01	+ 0.0
20.5	20.44	- 0.1
38.5	38.46	- 0.0
	Tolerance Limit (°C)	± 2.0

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


 Mr Chan Siu Ming, *Vice*
 Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1731171
Sub-Batch: 0
Client: AECOM ASIA COMPANY LIMITED
Date of Issue: 26/07/2017



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12D100972
Equipment No.: W.026.36
Date of Calibration: 20 July, 2017

Date of next Calibration: 20 October, 2017

Parameters:

Salinity

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	--
10	9.96	- 0.4
20	20.02	+ 0.1
30	30.05	+ 0.2
Tolerance Limit (%)		± 10.0

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	--
4	4.1	+ 2.5
10	10.1	+ 1.0
20	20.4	+ 2.0
50	50.5	+ 1.0
100	99.8	- 0.2
Tolerance Limit (%)		± 10.0

pH Value

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	3.98	- 0.02
7.0	6.96	- 0.04
10.0	9.95	- 0.05
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.


 Mr Chan Siu Ming, Vice
 Manager - Inorganics



APPENDIX D

Monitoring Schedule



September 2017

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Date					1-Sep	2-Sep	3-Sep
					AMS5-1hr, AMS6-1hr Water Quality Monitoring	Mudflat monitoring	Mudflat monitoring
Date	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep	9-Sep	10-Sep
	Water Quality Monitoring (See Remark 1)		AMS5/AMS6 - 24hr Dust Mudflat monitoring (See Remark 4) Water Quality Monitoring	AMS5-1hr, NMS5, AMS6-1hr	Water Quality Monitoring		
Date	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep
	Water Quality Monitoring	AMS5/AMS6 - 24hr Dust	AMS5-1hr, NMS5, AMS6-1hr Water Quality Monitoring		1 st Dolphin Monitoring Water Quality Monitoring	Sedimentation Rate - Mudflat Monitoring (See Remark 2) Mudflat monitoring (See Remark 4)	Mudflat monitoring (See Remark 4)
Date	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep
	AMS5/AMS6 - 24hr Dust 1 st Dolphin Monitoring Water Quality Monitoring	AMS5-1hr, NMS5, AMS6-1hr	Water Quality Monitoring		AMS5/AMS6 - 24hr Dust 2 nd Dolphin Monitoring Water Quality Monitoring		
Date	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep	
	AMS5-1hr, NMS5, AMS6-1hr Water Quality Monitoring		Water Quality Monitoring	AMS5/AMS6 - 24hr Dust	AMS5-1hr, AMS6-1hr 2 nd Dolphin Monitoring Water Quality Monitoring	AMS5/AMS6 - 24hr Dust	

Remarks:

- 1) Due to the hoisting of Strong Wind Signal and Typhoon Signal No. 3 by the Hong Kong Observatory, the water quality monitoring at mid-ebb tide was cancelled on 4 September 2017. No substitute monitoring was conducted due to boat unavailability.
- 2) Due to bad weather condition, the sedimentation rate monitoring was rescheduled from 4 September 2017 to 16 September 2017.
- 3) Due to boat unavailability, the dolphin monitoring was rescheduled from 26 September 2017 to 29 September 2017.
- 4) Due to concern of adverse weather forecast in the mid-September 2017, the mudflat monitoring was rescheduled from 9-12 September 2017 to 6, 16 and 17 September 2017.

October 2017

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Date							1-Oct
Date	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct
	Holiday Water Quality Monitoring	AMS5-1hr, NMS5, AMS6-1hr	1 st Dolphin Monitoring Water Quality Monitoring	Holiday	AMS5/AMS6 - 24hr Dust Water Quality Monitoring		
Date	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
	AMS5-1hr, NMS5, AMS6-1hr Water Quality Monitoring		1 st Dolphin Monitoring Water Quality Monitoring	AMS5/AMS6 - 24hr Dust	AMS5-1hr, AMS6-1hr Water Quality Monitoring		
Date	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct
	2 nd Dolphin Monitoring Water Quality Monitoring		AMS5/AMS6 - 24hr Dust Water Quality Monitoring	AMS5-1hr, NMS5, AMS6-1hr	2 nd Dolphin Monitoring Water Quality Monitoring		
Date	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
	Water Quality Monitoring	AMS5/AMS6 - 24hr Dust	AMS5-1hr, NMS5, AMS6-1hr Water Quality Monitoring		Water Quality Monitoring	Holiday	
Date	30-Oct	31-Oct					
	AMS5/AMS6 - 24hr Dust Water Quality Monitoring	AMS5-1hr, NMS5, AMS6-1hr					



APPENDIX E

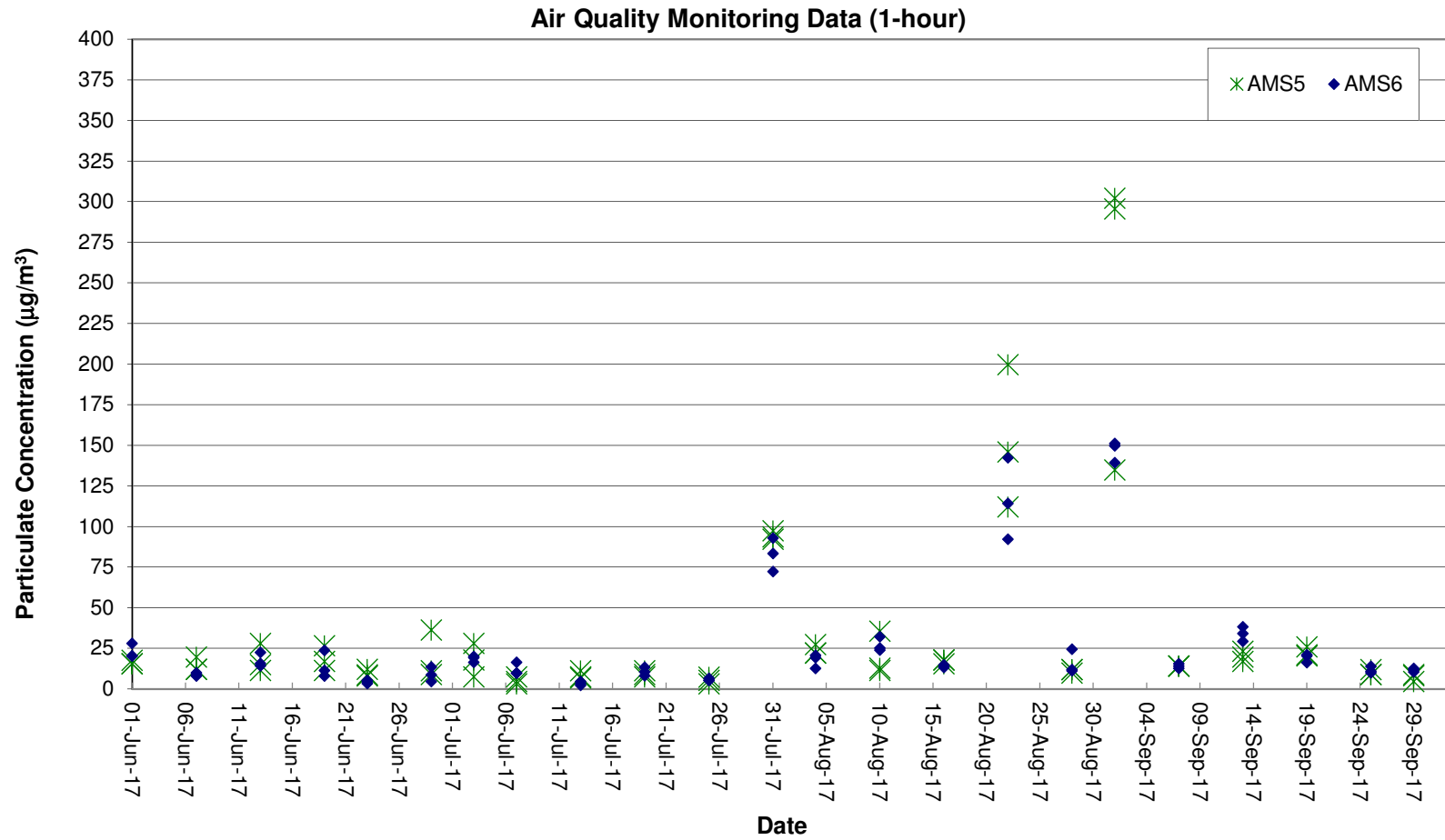
Monitoring Data and Graphical Plots



Air Quality Monitoring Data

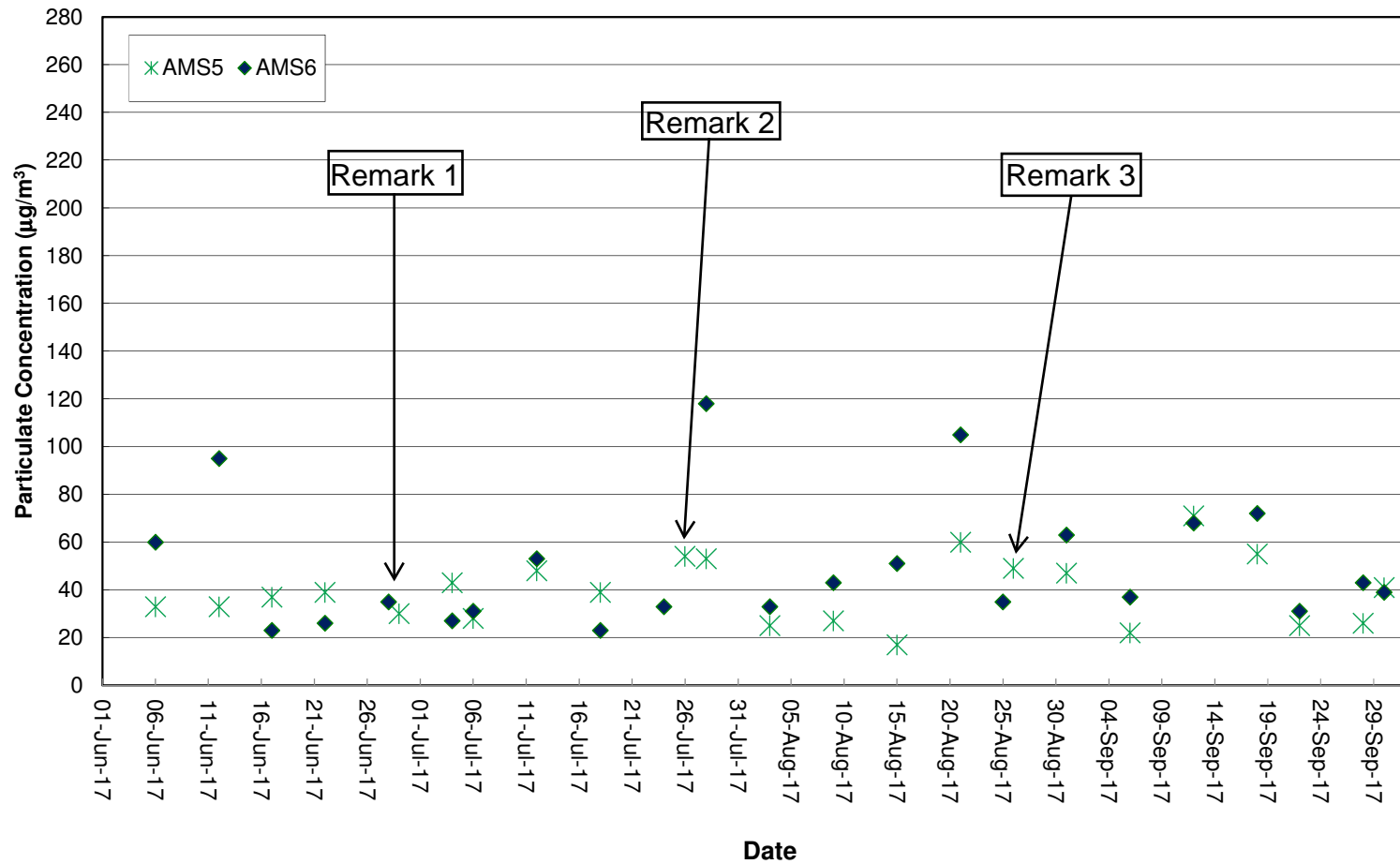
Project	Works	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
HKLR	HY/2011/03	2017-09-01	AMS5	09:00	1-hr TSP	296	ug/m ³
HKLR	HY/2011/03	2017-09-01	AMS5	10:00	1-hr TSP	302	ug/m ³
HKLR	HY/2011/03	2017-09-01	AMS5	11:00	1-hr TSP	135	ug/m ³
HKLR	HY/2011/03	2017-09-07	AMS5	09:00	1-hr TSP	14	ug/m ³
HKLR	HY/2011/03	2017-09-07	AMS5	10:00	1-hr TSP	14	ug/m ³
HKLR	HY/2011/03	2017-09-07	AMS5	11:00	1-hr TSP	14	ug/m ³
HKLR	HY/2011/03	2017-09-13	AMS5	13:00	1-hr TSP	23	ug/m ³
HKLR	HY/2011/03	2017-09-13	AMS5	14:00	1-hr TSP	20	ug/m ³
HKLR	HY/2011/03	2017-09-13	AMS5	15:00	1-hr TSP	17	ug/m ³
HKLR	HY/2011/03	2017-09-19	AMS5	09:00	1-hr TSP	26	ug/m ³
HKLR	HY/2011/03	2017-09-19	AMS5	10:00	1-hr TSP	20	ug/m ³
HKLR	HY/2011/03	2017-09-19	AMS5	11:00	1-hr TSP	21	ug/m ³
HKLR	HY/2011/03	2017-09-25	AMS5	09:00	1-hr TSP	12	ug/m ³
HKLR	HY/2011/03	2017-09-25	AMS5	10:00	1-hr TSP	9	ug/m ³
HKLR	HY/2011/03	2017-09-25	AMS5	11:00	1-hr TSP	9	ug/m ³
HKLR	HY/2011/03	2017-09-29	AMS5	08:52	1-hr TSP	9	ug/m ³
HKLR	HY/2011/03	2017-09-29	AMS5	09:52	1-hr TSP	5	ug/m ³
HKLR	HY/2011/03	2017-09-29	AMS5	10:52	1-hr TSP	8	ug/m ³
HKLR	HY/2011/03	2017-09-06	AMS5	08:00	24-hr TSP	22	ug/m ³
HKLR	HY/2011/03	2017-09-12	AMS5	08:32	24-hr TSP	71	ug/m ³
HKLR	HY/2011/03	2017-09-18	AMS5	08:00	24-hr TSP	55	ug/m ³
HKLR	HY/2011/03	2017-09-22	AMS5	08:00	24-hr TSP	25	ug/m ³
HKLR	HY/2011/03	2017-09-28	AMS5	08:00	24-hr TSP	26	ug/m ³
HKLR	HY/2011/03	2017-09-30	AMS5	08:00	24-hr TSP	41	ug/m ³
HKLR	HY/2011/03	2017-09-01	AMS6	13:00	1-hr TSP	151	ug/m ³
HKLR	HY/2011/03	2017-09-01	AMS6	14:00	1-hr TSP	150	ug/m ³
HKLR	HY/2011/03	2017-09-01	AMS6	15:00	1-hr TSP	139	ug/m ³
HKLR	HY/2011/03	2017-09-07	AMS6	13:00	1-hr TSP	16	ug/m ³
HKLR	HY/2011/03	2017-09-07	AMS6	14:00	1-hr TSP	14	ug/m ³
HKLR	HY/2011/03	2017-09-07	AMS6	15:00	1-hr TSP	13	ug/m ³
HKLR	HY/2011/03	2017-09-13	AMS6	09:00	1-hr TSP	29	ug/m ³
HKLR	HY/2011/03	2017-09-13	AMS6	10:00	1-hr TSP	38	ug/m ³
HKLR	HY/2011/03	2017-09-13	AMS6	11:00	1-hr TSP	34	ug/m ³
HKLR	HY/2011/03	2017-09-19	AMS6	13:00	1-hr TSP	20	ug/m ³
HKLR	HY/2011/03	2017-09-19	AMS6	14:00	1-hr TSP	16	ug/m ³
HKLR	HY/2011/03	2017-09-19	AMS6	15:00	1-hr TSP	21	ug/m ³
HKLR	HY/2011/03	2017-09-25	AMS6	13:00	1-hr TSP	10	ug/m ³
HKLR	HY/2011/03	2017-09-25	AMS6	14:00	1-hr TSP	11	ug/m ³
HKLR	HY/2011/03	2017-09-25	AMS6	15:00	1-hr TSP	14	ug/m ³
HKLR	HY/2011/03	2017-09-29	AMS6	13:00	1-hr TSP	11	ug/m ³
HKLR	HY/2011/03	2017-09-29	AMS6	14:00	1-hr TSP	12	ug/m ³
HKLR	HY/2011/03	2017-09-29	AMS6	15:00	1-hr TSP	13	ug/m ³
HKLR	HY/2011/03	2017-09-06	AMS6	08:00	24-hr TSP	37	ug/m ³
HKLR	HY/2011/03	2017-09-12	AMS6	08:00	24-hr TSP	68	ug/m ³
HKLR	HY/2011/03	2017-09-18	AMS6	08:00	24-hr TSP	72	ug/m ³
HKLR	HY/2011/03	2017-09-22	AMS6	08:00	24-hr TSP	31	ug/m ³
HKLR	HY/2011/03	2017-09-28	AMS6	08:00	24-hr TSP	43	ug/m ³
HKLR	HY/2011/03	2017-09-30	AMS6	08:00	24-hr TSP	39	ug/m ³

Graphical Plot of 1-hour TSP at AMS5 and AMS6



Graphical Plot of 24-hour TSP at AMS5 and AMS6

Air Quality Monitoring Data (24-hour)



Remarks:

- 1) Due to power supply failure, the 24-hour TSP monitoring at AMS5 was rescheduled from 28 June 2017 to 29 June 2017.
- 2) Due to motor failure, the 24-hour TSP monitoring at AMS5 was rescheduled from 24 July 2017 to 26 July 2017.
- 3) The 24-hour TSP monitoring at AMS5 was rescheduled from 25 August 2017 to 26 August 2017 due to power outage of Ma Wan Chung Village caused by seawater engulfment.

Noise Monitoring Data

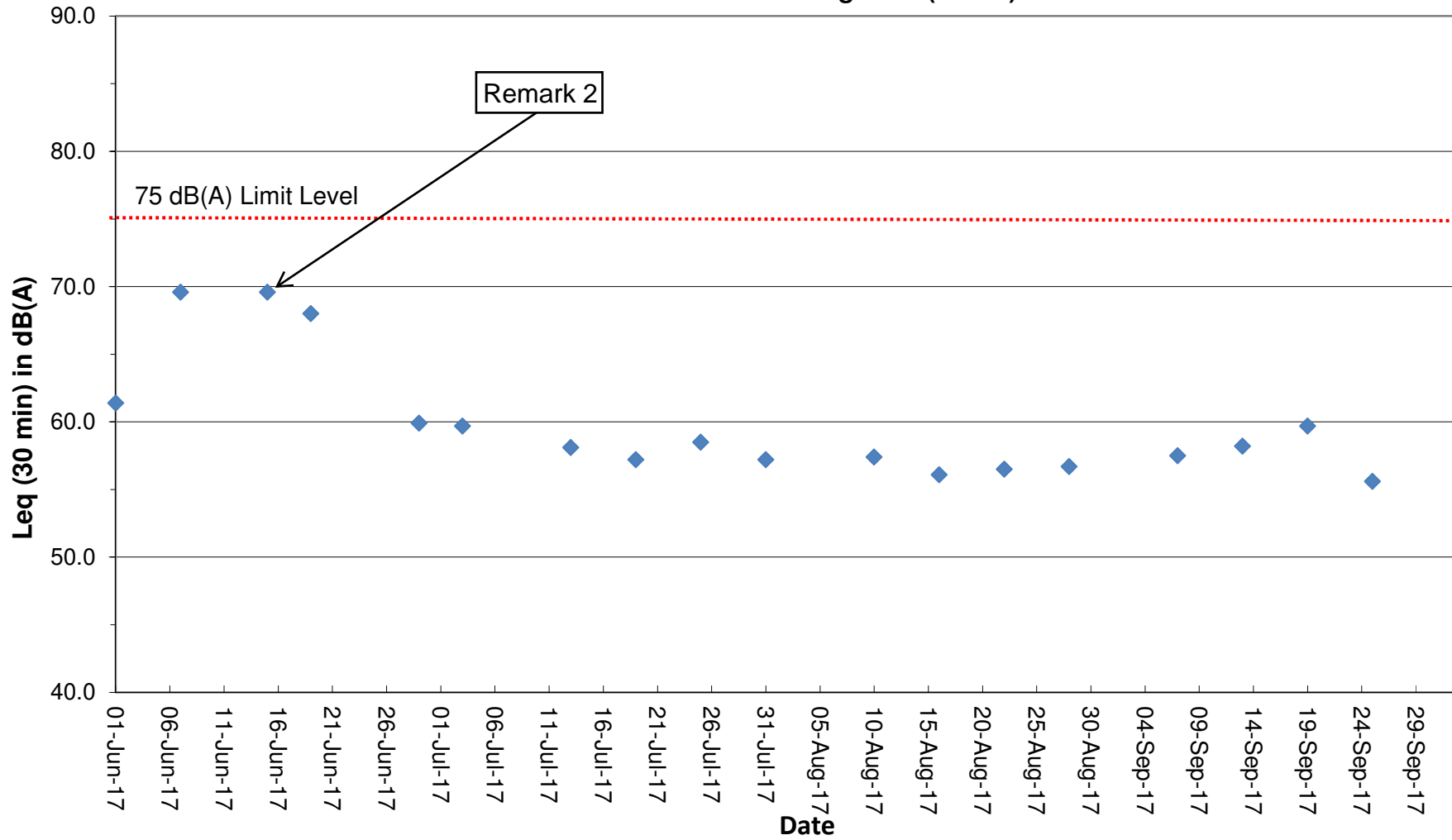
Project	Works	Date (yyyy-mm-dd)	Station	Start Time	Wind Speed, m/s	1st set 5mins	2nd set 5mins	3rd set 5mins	4th set 5mins	5th set 5mins	6th set 5mins	Overall (30mins)*			Unit				
						Leq:	Leq:	Leq:	Leq:	Leq:	Leq:	Leq:	L10:	L10:		L10:			
HKLR	HY/2011/03	2017-09-07	NMS5	10:28	<5	Leq:	53.8	Leq:	53.6	Leq:	55.0	Leq:	54.0	Leq:	55.2	Leq:	55.1	Leq:	57.5
						L10:	56.0	L10:	55.5	L10:	58.0	L10:	56.5	L10:	57.5	L10:	57.5	L10:	59.9
						L90:	50.5	L90:	49.5	L90:	50.0	L90:	50.5	L90:	51.5	L90:	51.5	L90:	53.6
HKLR	HY/2011/03	2017-09-13	NMS5	13:30	<5	Leq:	53.9	Leq:	55.2	Leq:	53.6	Leq:	55.6	Leq:	56.0	Leq:	56.2	Leq:	58.2
						L10:	56.5	L10:	58.0	L10:	55.5	L10:	57.0	L10:	58.5	L10:	59.0	L10:	60.6
						L90:	50.0	L90:	50.5	L90:	50.0	L90:	53.5	L90:	53.0	L90:	51.0	L90:	54.6
HKLR	HY/2011/03	2017-09-19	NMS5	09:11	<5	Leq:	56.8	Leq:	54.0	Leq:	57.8	Leq:	59.4	Leq:	55.1	Leq:	54.7	Leq:	59.7
						L10:	59.5	L10:	57.0	L10:	59.0	L10:	61.5	L10:	58.0	L10:	58.0	L10:	62.1
						L90:	48.5	L90:	49.5	L90:	51.5	L90:	57.0	L90:	49.0	L90:	48.5	L90:	55.0
HKLR	HY/2011/03	2017-09-25	NMS5	09:23	<5	Leq:	52.8	Leq:	52.6	Leq:	52.5	Leq:	52.7	Leq:	52.2	Leq:	53.0	Leq:	55.6
						L10:	55.0	L10:	54.5	L10:	54.5	L10:	55.5	L10:	54.5	L10:	55.5	L10:	57.9
						L90:	49.5	L90:	49.5	L90:	49.0	L90:	48.5	L90:	48.5	L90:	49.0	L90:	52.0

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)



Remarks:

- (1) A facade correction of +3 dB(A) was applied to the measured noise level.
- (2) Due to weather condition, the noise monitoring schedule was rescheduled from 13 June 2017 to 15 June 2017.

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS5	10:02:41	1.0	Surface	1	1	28.68	8.24	19.77	86.5	6.07	8.7	4.5
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS5	10:02:01	1.0	Surface	1	2	28.60	8.20	19.86	82.9	5.75	8.5	3.4
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS5	10:02:26	4.3	Middle	2	1	26.09	8.06	31.95	79.2	5.34	8.7	6.1
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS5	10:01:48	4.3	Middle	2	2	26.37	8.06	31.40	79.8	5.38	8.6	5.9
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS5	10:02:16	7.6	Bottom	3	1	26.04	8.06	32.54	73.8	4.99	8.8	6.5
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS5	10:01:37	7.6	Bottom	3	2	26.03	8.06	32.65	74.4	5.03	8.5	5.6
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS(MF)6	9:53:20	1.0	Surface	1	1	28.31	8.15	20.66	89.9	6.15	3.8	5.0
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS(MF)6	9:53:34	1.0	Surface	1	2	28.31	8.15	20.10	89.3	6.22	3.8	3.9
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS(MF)6	9:53:27	2.2	Bottom	3	1	28.16	8.12	24.70	89.2	6.07	3.9	5.3
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS(MF)6	9:53:10	2.2	Bottom	3	2	27.82	8.11	24.82	88.6	6.15	3.8	4.2
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS7	9:45:15	1.0	Surface	1	1	28.83	8.12	19.53	84.6	5.86	6.2	6.8
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS7	9:44:59	1.0	Surface	1	2	28.65	8.09	19.68	81.6	5.59	6.3	6.2
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS7	9:45:06	2.3	Bottom	3	1	27.52	8.06	25.86	82.7	5.65	6.4	5.4
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS7	9:44:50	2.3	Bottom	3	2	27.39	8.04	25.93	79.8	5.54	6.5	5.6
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS8	9:14:21	1.0	Surface	1	1	28.28	8.13	20.50	92.1	6.31	6.7	4.8
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS8	9:15:02	1.0	Surface	1	2	28.60	8.11	20.71	89.9	6.21	6.7	5.7
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS8	9:14:11	2.7	Bottom	3	1	27.72	8.05	24.83	79.9	5.54	7.0	5.9
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS8	9:14:44	2.7	Bottom	3	2	27.63	8.03	26.77	83.7	5.68	6.9	8.2
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS(MF)9	9:34:55	1.0	Surface	1	1	28.84	8.13	18.82	84.2	5.85	5.3	6.3
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS(MF)9	9:34:27	1.0	Surface	1	2	28.81	8.05	20.45	79.7	5.49	5.3	5.4
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS(MF)9	9:34:19	2.8	Bottom	3	1	27.43	8.00	25.36	79.1	5.43	7.6	6.1
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS(MF)9	9:34:45	2.8	Bottom	3	2	27.47	8.01	25.52	79.6	5.46	7.3	5.8
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS10(N)	9:25:12	1.0	Surface	1	1	28.10	7.64	17.29	76.9	5.44	3.8	2.9
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS10(N)	9:26:21	1.0	Surface	1	2	28.09	7.64	17.24	77.1	5.47	4.0	5.4
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS10(N)	9:25:55	5.2	Middle	2	1	26.46	7.55	28.85	75.4	5.17	5.1	3.3
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS10(N)	9:24:47	5.2	Middle	2	2	26.46	7.55	28.75	76.6	5.24	5.2	4.0
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS10(N)	9:25:35	9.4	Bottom	3	1	26.12	7.54	31.71	72.5	4.91	5.7	5.3
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	IS10(N)	9:24:21	9.4	Bottom	3	2	26.12	7.52	31.63	72.9	4.94	5.5	3.3
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR3(N)	10:13:59	1.0	Surface	1	1	28.77	8.23	19.63	97.3	6.74	7.4	4.1
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR3(N)	10:13:43	1.0	Surface	1	2	28.71	8.21	19.38	95.5	6.58	7.5	4.8
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR3(N)	10:13:32	2.0	Bottom	3	1	28.26	8.16	24.14	94.7	6.51	7.1	5.1
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR3(N)	10:13:49	2.0	Bottom	3	2	28.51	8.16	24.34	95.9	6.50	7.7	4.9
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR4(N)	9:22:35	1.0	Surface	1	1	28.51	8.04	19.66	81.6	5.57	9.4	6.5
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR4(N)	9:22:53	1.0	Surface	1	2	28.39	8.03	20.87	76.3	5.28	9.5	6.3
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR4(N)	9:22:21	2.8	Bottom	3	1	27.60	8.00	25.87	78.9	5.49	9.5	5.8
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR4(N)	9:22:43	2.8	Bottom	3	2	27.91	7.97	25.25	76.2	5.19	9.5	5.4
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR5(N)	9:35:56	1.0	Surface	1	1	28.14	7.63	17.69	79.1	5.59	4.3	2.4
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR5(N)	9:34:43	1.0	Surface	1	2	28.13	7.62	17.75	79.9	5.65	4.1	2.8
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR5(N)	9:35:33	4.1	Middle	2	1	26.55	7.58	27.22	77.1	5.31	6.5	5.0
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR5(N)	9:34:22	4.1	Middle	2	2	26.51	7.56	27.28	76.3	5.26	6.2	3.0
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR5(N)	9:35:08	7.2	Bottom	3	1	26.23	7.57	30.65	71.8	4.87	7.7	6.0
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR5(N)	9:33:57	7.2	Bottom	3	2	26.25	7.55	30.59	72.2	4.90	7.5	6.1
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR10A(N)	8:10:56	1.0	Surface	1	1	27.86	7.51	18.03	86.0	6.11	2.5	2.7
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR10A(N)	8:09:53	1.0	Surface	1	2	27.83	7.50	18.05	87.2	6.20	2.3	2.5
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR10A(N)	8:10:44	6.7	Middle	2	1	27.21	7.43	25.94	83.3	5.70	2.9	2.4
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR10A(N)	8:09:35	6.7	Middle	2	2	27.24	7.39	25.98	81.9	5.62	2.8	4.1
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR10A(N)	8:09:10	12.4	Bottom	3	1	25.88	7.32	35.30	82.0	5.46	3.7	3.2
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR10A(N)	8:10:12	12.4	Bottom	3	2	25.90	7.34	35.24	80.6	5.37	3.4	3.5
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR10B(N)	8:21:39	1.0	Surface	1	1	27.57	7.58	20.48	87.3	6.14	2.9	2.2
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR10B(N)	8:22:20	1.0	Surface	1	2	27.54	7.59	20.55	86.2	6.06	2.9	2.8
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR10B(N)	8:21:22	4.0	Bottom	3	1	27.05	7.52	25.13	86.2	5.96	3.4	3.2
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	SR10B(N)	8:21:59	4.0	Bottom	3	2	27.06	7.53	25.10	86.4	5.95	3.3	2.8

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	CS2(A)	10:37:28	1.0	Surface	1	1	28.35	7.76	11.40	76.4	5.59	4.7	5.7
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	CS2(A)	10:36:13	1.0	Surface	1	2	28.33	7.75	11.47	78.5	5.70	4.6	5.8
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	CS2(A)	10:37:02	3.8	Middle	2	1	26.49	7.75	27.34	77.8	5.28	5.3	6.8
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	CS2(A)	10:35:55	3.8	Middle	2	2	26.57	7.72	27.27	76.0	5.24	5.2	7.3
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	CS2(A)	10:35:36	6.6	Bottom	3	1	25.73	7.74	33.49	73.2	4.94	6.1	7.4
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	CS2(A)	10:36:41	6.6	Bottom	3	2	25.70	7.76	33.53	72.4	4.88	6.2	5.7
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	CS(Mf)5	8:43:46	1.0	Surface	1	1	28.08	8.08	22.40	82.8	5.71	2.0	5.1
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	CS(Mf)5	8:44:25	1.0	Surface	1	2	27.84	8.10	21.84	80.8	5.62	1.8	4.4
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	CS(Mf)5	8:43:31	6.4	Middle	2	1	26.97	8.04	30.60	78.3	5.18	4.0	3.7
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	CS(Mf)5	8:44:16	6.4	Middle	2	2	27.01	8.05	29.69	79.3	5.26	3.9	3.8
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	CS(Mf)5	8:44:03	11.7	Bottom	3	1	26.41	7.99	35.87	77.9	5.22	4.8	4.3
HKLR	HY/2011/03	2017-09-01	Mid-Ebb	Fine	CS(Mf)5	8:43:17	11.7	Bottom	3	2	26.18	7.98	37.44	77.1	5.13	4.9	3.0
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS5	16:30:04	1.0	Surface	1	1	28.74	8.29	20.14	88.7	6.13	10.5	6.2
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS5	16:30:47	1.0	Surface	1	2	28.65	8.24	20.08	84.1	5.83	10.6	6.5
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS5	16:30:35	4.4	Middle	2	1	26.83	8.12	26.41	79.1	5.39	10.5	7.0
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS5	16:29:51	4.4	Middle	2	2	27.34	8.16	25.22	78.7	5.36	10.5	7.4
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS5	16:29:41	7.7	Bottom	3	1	26.25	8.17	30.37	72.7	5.00	10.7	6.3
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS5	16:30:26	7.7	Bottom	3	2	26.25	8.12	30.29	73.8	5.09	10.6	6.0
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS(Mf)6	16:41:09	1.0	Surface	1	1	30.21	8.73	18.68	162.7	11.15	7.5	4.4
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS(Mf)6	16:41:35	1.0	Surface	1	2	30.31	8.78	18.67	180.2	12.23	7.6	3.3
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS(Mf)6	16:40:53	1.9	Bottom	3	1	29.25	8.60	19.14	160.8	10.95	7.8	3.3
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS(Mf)6	16:41:20	1.9	Bottom	3	2	29.58	8.67	19.13	161.9	11.01	7.6	3.7
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS7	16:51:35	1.0	Surface	1	1	29.22	8.58	19.23	137.4	9.38	5.2	8.4
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS7	16:51:48	1.0	Surface	1	2	29.29	8.60	19.21	142.0	9.77	5.1	8.3
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS7	16:51:41	2.4	Bottom	3	1	29.06	8.57	21.33	131.0	9.02	5.1	6.8
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS7	16:51:26	2.4	Bottom	3	2	28.76	8.55	21.47	125.9	8.63	5.1	6.7
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS8	17:23:28	1.0	Surface	1	1	28.54	8.25	20.35	92.1	6.38	16.4	17.1
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS8	17:23:49	1.0	Surface	1	2	28.56	8.24	19.68	94.1	6.54	16.6	16.6
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS8	17:23:39	3.0	Bottom	3	1	28.07	8.20	22.80	92.1	6.34	16.5	18.2
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS8	17:23:15	3.0	Bottom	3	2	27.91	8.21	23.13	90.4	6.23	16.7	15.9
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS(Mf)9	17:03:08	1.0	Surface	1	1	30.16	8.55	17.92	124.7	8.52	6.8	5.9
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS(Mf)9	17:02:51	1.0	Surface	1	2	29.83	8.46	18.22	119.0	8.19	6.8	7.0
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS(Mf)9	17:03:00	2.8	Bottom	3	1	28.43	8.47	21.81	105.3	7.22	6.7	6.1
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS(Mf)9	17:02:43	2.8	Bottom	3	2	28.19	8.41	22.37	102.8	7.08	6.7	6.6
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS10(N)	17:02:14	1.0	Surface	1	1	28.41	7.85	19.56	85.3	5.94	4.5	2.6
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS10(N)	17:03:29	1.0	Surface	1	2	28.36	7.85	19.50	84.3	5.87	4.6	2.9
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS10(N)	17:03:05	5.3	Middle	2	1	26.84	7.74	27.83	79.2	5.42	5.8	5.1
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS10(N)	17:01:55	5.3	Middle	2	2	26.82	7.75	27.83	79.8	5.46	5.7	3.1
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS10(N)	17:01:30	9.6	Bottom	3	1	26.37	7.73	30.87	73.8	5.00	6.5	5.5
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	IS10(N)	17:02:38	9.6	Bottom	3	2	26.38	7.72	30.88	74.7	5.05	6.6	4.2
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR3(N)	16:17:51	1.0	Surface	1	1	28.29	8.41	20.17	101.0	7.03	6.1	6.3
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR3(N)	16:17:32	1.0	Surface	1	2	28.25	8.45	19.83	98.8	6.90	5.9	7.2
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR3(N)	16:17:15	2.2	Bottom	3	1	28.18	8.44	19.53	97.0	6.79	6.0	7.3
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR3(N)	16:17:40	2.2	Bottom	3	2	28.18	8.44	20.03	99.1	6.92	6.1	7.1
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR4(N)	17:15:20	1.0	Surface	1	1	28.61	8.40	20.16	101.0	7.00	22.1	23.8
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR4(N)	17:15:37	1.0	Surface	1	2	28.43	8.31	21.02	101.2	6.97	22.5	22.7
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR4(N)	17:15:08	2.7	Bottom	3	1	28.43	8.46	21.06	99.4	6.87	22.5	22.2
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR4(N)	17:15:27	2.7	Bottom	3	2	28.44	8.35	21.72	99.7	6.89	22.4	22.9
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR5(N)	16:55:47	1.0	Surface	1	1	28.62	7.79	18.83	93.4	6.48	5.0	4.7
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR5(N)	16:54:35	1.0	Surface	1	2	28.65	7.82	18.76	93.7	6.54	4.8	4.5
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR5(N)	16:54:13	4.0	Middle	2	1	27.48	7.71	24.13	78.0	5.39	5.9	3.3
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR5(N)	16:55:26	4.0	Middle	2	2	27.43	7.70	24.18	77.8	5.35	5.8	4.7

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR5(N)	16:55:00	7.0	Bottom	3	1	26.61	7.69	29.36	77.4	5.27	6.9	4.1
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR5(N)	16:53:50	7.0	Bottom	3	2	26.63	7.68	29.31	76.7	5.22	6.8	4.9
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR10A(N)	17:59:36	1.0	Surface	1	1	26.76	7.78	29.89	82.8	5.61	4.2	4.0
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR10A(N)	17:58:22	1.0	Surface	1	2	26.81	7.79	29.82	83.5	5.65	4.0	3.9
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR10A(N)	17:59:11	6.8	Middle	2	1	26.48	7.76	31.57	79.1	5.33	4.9	4.8
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR10A(N)	17:58:01	6.8	Middle	2	2	26.45	7.78	31.58	79.4	5.36	4.7	4.3
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR10A(N)	17:57:37	12.6	Bottom	3	1	25.98	7.77	34.48	76.7	5.13	5.2	10.1
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR10A(N)	17:58:50	12.6	Bottom	3	2	26.02	7.75	34.39	76.7	5.11	5.0	12.4
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR10B(N)	18:06:48	1.0	Surface	1	1	26.71	7.83	30.82	84.5	5.70	3.8	5.3
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR10B(N)	18:06:00	1.0	Surface	1	2	26.69	7.82	30.90	85.8	5.78	3.9	6.9
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR10B(N)	18:05:36	4.1	Bottom	3	1	26.64	7.83	31.45	83.5	5.61	4.0	5.5
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	SR10B(N)	18:06:31	4.1	Bottom	3	2	26.65	7.83	31.47	84.2	5.66	4.0	4.8
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	CS2(A)	16:02:41	1.0	Surface	1	1	28.49	7.79	21.88	90.2	6.21	5.0	5.5
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	CS2(A)	16:01:37	1.0	Surface	1	2	28.54	7.75	21.85	91.3	6.27	4.8	6.2
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	CS2(A)	16:01:15	3.7	Middle	2	1	25.98	7.68	31.99	81.9	5.55	5.9	5.0
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	CS2(A)	16:02:21	3.7	Middle	2	2	25.94	7.67	32.08	81.5	5.52	5.8	4.1
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	CS2(A)	16:01:59	6.4	Bottom	3	1	25.75	7.66	33.52	75.9	5.11	7.2	6.4
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	CS2(A)	16:00:50	6.4	Bottom	3	2	25.75	7.63	33.56	75.3	5.08	7.0	5.2
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	CS(Mf)5	17:50:01	1.0	Surface	1	1	28.44	8.24	20.86	81.1	5.61	4.5	2.6
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	CS(Mf)5	17:49:23	1.0	Surface	1	2	28.26	8.24	23.13	80.5	5.52	4.5	2.9
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	CS(Mf)5	17:49:46	6.6	Middle	2	1	26.22	8.17	32.65	78.1	5.21	4.5	2.1
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	CS(Mf)5	17:49:11	6.6	Middle	2	2	26.22	8.18	33.02	81.8	5.45	4.5	4.3
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	CS(Mf)5	17:49:00	12.1	Bottom	3	1	26.10	8.18	34.65	77.4	5.19	4.7	4.9
HKLR	HY/2011/03	2017-09-01	Mid-Flood	Fine	CS(Mf)5	17:49:37	12.1	Bottom	3	2	26.17	8.15	34.33	75.2	5.05	4.6	3.7
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS5	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS5	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS5	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS5	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS5	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS5	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS(Mf)6	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS(Mf)6	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS(Mf)6	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS(Mf)6	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS(Mf)6	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS(Mf)6	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS7	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS7	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS7	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS7	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS7	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS7	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS8	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS8	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS8	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS8	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS8	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS8	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS(Mf)9	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS(Mf)9	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS(Mf)9	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS(Mf)9	-	-	Middle	2	2	-	-	-	-	-	-	-

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS(Mf)9	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS(Mf)9	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS10(N)	-	-	Surface	1	1(N)	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS10(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS10(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS10(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS10(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	IS10(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR3(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR3(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR3(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR3(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR3(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR3(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR4(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR4(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR4(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR4(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR4(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR4(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR5(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR5(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR5(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR5(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR5(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR5(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR10A(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR10A(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR10A(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR10A(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR10A(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR10A(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR10B(N)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR10B(N)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR10B(N)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR10B(N)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR10B(N)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	SR10B(N)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	CS2(A)	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	CS2(A)	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	CS2(A)	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	CS2(A)	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	CS2(A)	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	CS2(A)	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	CS(Mf)5	-	-	Surface	1	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	CS(Mf)5	-	-	Surface	1	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	CS(Mf)5	-	-	Middle	2	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	CS(Mf)5	-	-	Middle	2	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	CS(Mf)5	-	-	Bottom	3	1	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Ebb	-	CS(Mf)5	-	-	Bottom	3	2	-	-	-	-	-	-	-
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS5	17:47:18	1.0	Surface	1	1	27.57	8.11	22.55	83.5	5.81	11.0	9.0
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS5	17:46:48	1.0	Surface	1	2	27.55	8.10	22.68	86.0	5.91	11.6	7.8

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS5	17:46:38	4.4	Middle	2	1	27.46	8.07	23.22	82.7	5.75	11.1	9.1
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS5	17:47:04	4.4	Middle	2	2	27.45	8.08	23.74	83.4	5.73	11.2	10.0
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS5	17:46:29	7.8	Bottom	3	1	27.36	8.06	25.20	82.0	5.69	11.2	8.3
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS5	17:46:57	7.8	Bottom	3	2	27.49	8.08	24.98	81.6	5.65	11.1	10.0
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS(MF)6	17:56:22	1.0	Surface	1	1	27.53	8.12	22.26	87.5	6.06	9.6	38.6
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS(MF)6	17:56:39	1.0	Surface	1	2	27.54	8.15	22.33	87.9	6.12	9.7	42.2
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS(MF)6	17:56:27	2.1	Bottom	3	1	27.54	8.12	23.22	86.6	6.00	9.7	11.0
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS(MF)6	17:56:10	2.1	Bottom	3	2	27.48	8.08	23.71	85.2	5.94	9.5	11.8
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS7	18:06:40	1.0	Surface	1	1	27.57	8.16	21.93	90.5	6.27	8.5	10.2
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS7	18:06:54	1.0	Surface	1	2	27.55	8.16	21.91	89.7	6.21	8.3	9.2
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS7	18:06:26	2.2	Bottom	3	1	27.51	8.13	23.54	89.1	6.22	8.9	10.6
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS7	18:06:47	2.2	Bottom	3	2	27.54	8.15	23.54	88.2	6.16	8.9	11.5
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS8	18:37:59	1.0	Surface	1	1	27.51	8.12	21.69	92.6	6.47	12.1	15.9
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS8	18:38:10	1.0	Surface	1	2	27.52	8.11	21.74	88.1	6.16	12.3	15.5
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS8	18:38:04	2.6	Bottom	3	1	27.52	8.11	21.78	87.3	6.10	12.4	14.2
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS8	18:37:47	2.6	Bottom	3	2	27.53	8.13	21.86	89.1	6.23	12.1	14.6
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS(MF)9	18:17:34	1.0	Surface	1	1	27.56	8.17	22.00	94.9	6.60	9.5	17.6
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS(MF)9	18:17:50	1.0	Surface	1	2	27.55	8.17	21.97	92.7	6.46	9.8	18.4
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS(MF)9	18:17:40	2.8	Bottom	3	1	27.58	8.17	22.31	92.5	6.46	9.6	17.2
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS(MF)9	18:17:17	2.8	Bottom	3	2	27.56	8.16	22.68	92.7	6.47	9.5	18.2
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS10(N)	18:27:34	1.0	Surface	1	1	27.64	7.92	19.30	83.7	5.92	8.2	7.7
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS10(N)	18:28:19	1.0	Surface	1	2	27.66	7.91	19.07	83.0	5.88	7.8	6.6
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS10(N)	18:27:21	3.8	Middle	2	1	27.45	7.91	21.95	82.6	5.78	9.0	6.5
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS10(N)	18:28:06	3.8	Middle	2	2	27.48	7.93	21.67	82.8	5.80	8.5	6.2
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS10(N)	18:27:50	6.6	Bottom	3	1	27.39	7.91	23.36	82.1	5.70	10.3	7.7
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	IS10(N)	18:27:10	6.6	Bottom	3	2	27.43	7.88	23.31	81.9	5.68	9.7	9.2
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR3(N)	17:38:20	1.0	Surface	1	1	27.58	8.07	24.27	87.7	6.00	8.5	6.5
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR3(N)	17:37:58	1.0	Surface	1	2	27.59	8.03	24.82	89.7	6.08	8.8	5.7
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR3(N)	17:38:10	2.5	Bottom	3	1	27.58	8.05	25.93	87.1	5.98	8.7	13.0
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR3(N)	17:37:37	2.5	Bottom	3	2	27.56	8.02	27.32	86.3	5.93	8.6	13.4
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR4(N)	18:29:58	1.0	Surface	1	1	27.57	8.14	21.84	97.5	6.81	8.9	18.5
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR4(N)	18:30:16	1.0	Surface	1	2	27.57	8.13	21.92	90.1	6.29	9.3	18.8
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR4(N)	18:29:46	2.6	Bottom	3	1	27.55	8.17	21.80	92.5	6.46	9.1	18.2
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR4(N)	18:30:07	2.6	Bottom	3	2	27.57	8.13	21.87	88.8	6.20	9.2	19.5
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR5(N)	18:17:57	1.0	Surface	1	1	27.66	7.90	19.30	84.1	5.95	7.3	11.4
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR5(N)	18:18:32	1.0	Surface	1	2	27.67	7.88	19.34	82.9	5.86	7.5	11.9
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR5(N)	18:17:43	3.2	Middle	2	1	27.47	7.95	21.49	85.2	5.97	7.8	11.3
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR5(N)	18:18:19	3.2	Middle	2	2	27.52	7.90	21.18	83.7	5.87	7.4	12.8
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR5(N)	18:18:10	5.3	Bottom	3	1	27.50	7.89	21.80	82.9	5.80	8.6	11.6
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR5(N)	18:17:34	5.3	Bottom	3	2	27.41	7.93	23.28	85.6	5.94	8.5	12.3
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR10A(N)	19:23:07	1.0	Surface	1	1	27.06	7.96	26.46	81.5	5.56	7.1	9.4
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR10A(N)	19:23:45	1.0	Surface	1	2	27.06	7.95	26.45	85.8	5.84	6.8	8.2
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR10A(N)	19:22:46	4.4	Middle	2	1	26.92	7.98	28.03	76.7	5.22	7.6	9.5
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR10A(N)	19:23:27	4.4	Middle	2	2	26.96	7.94	27.60	75.9	5.21	7.4	8.0
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR10A(N)	19:22:41	7.8	Bottom	3	1	26.90	8.01	28.43	77.8	5.34	8.1	10.8
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR10A(N)	19:23:18	7.8	Bottom	3	2	26.98	7.94	28.05	75.4	5.15	7.8	9.5
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR10B(N)	19:33:29	1.0	Surface	1	1	27.03	7.94	26.64	75.8	5.20	7.2	8.7
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR10B(N)	19:33:54	1.0	Surface	1	2	27.05	7.94	26.48	76.0	5.22	6.8	8.5
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR10B(N)	19:33:40	4.4	Bottom	3	1	26.98	7.93	27.30	75.5	5.16	7.6	9.6
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	SR10B(N)	19:33:21	4.4	Bottom	3	2	26.99	7.94	27.25	75.8	5.19	7.7	9.8
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	CS2(A)	17:24:22	1.0	Surface	1	1	27.56	7.78	18.92	80.8	5.74	14.4	14.7
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	CS2(A)	17:23:51	1.0	Surface	1	2	27.61	7.75	18.88	84.9	5.95	14.8	16.2

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	CS2(A)	17:24:15	2.9	Middle	2	1	27.52	7.76	20.97	80.8	5.67	16.0	15.7
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	CS2(A)	17:23:40	2.9	Middle	2	2	27.51	7.74	21.14	82.6	5.80	16.5	15.6
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	CS2(A)	17:24:04	4.7	Bottom	3	1	27.53	7.74	21.16	81.0	5.68	17.1	18.5
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	CS2(A)	17:23:29	4.7	Bottom	3	2	27.50	7.74	21.19	82.0	5.81	17.4	19.4
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	CS(Mf)5	19:05:01	1.0	Surface	1	1	27.49	8.14	21.58	86.5	5.86	4.7	8.1
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	CS(Mf)5	19:05:38	1.0	Surface	1	2	27.48	8.13	21.59	78.3	5.44	4.8	7.7
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	CS(Mf)5	19:04:45	6.3	Middle	2	1	27.08	8.12	26.47	80.0	5.61	7.2	6.4
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	CS(Mf)5	19:05:24	6.3	Middle	2	2	27.01	8.10	26.52	77.1	5.27	7.2	7.1
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	CS(Mf)5	19:05:15	11.6	Bottom	3	1	26.99	8.07	29.13	75.2	5.16	7.2	9.6
HKLR	HY/2011/03	2017-09-04	Mid-Flood	Rainy	CS(Mf)5	19:04:32	11.6	Bottom	3	2	26.94	8.10	29.25	79.5	5.45	7.2	10.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS5	11:57:24	1.0	Surface	1	1	28.23	8.05	21.46	75.4	5.20	13.5	15.6
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS5	11:57:56	1.0	Surface	1	2	28.15	8.04	21.83	74.9	5.18	13.4	14.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS5	11:57:10	4.2	Middle	2	1	27.96	8.07	21.73	79.0	5.47	13.3	16.0
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS5	11:57:46	4.2	Middle	2	2	27.96	8.04	22.09	74.6	5.17	13.4	15.6
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS5	11:57:00	7.4	Bottom	3	1	27.86	8.08	22.53	77.1	5.36	13.5	15.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS5	11:57:35	7.4	Bottom	3	2	27.90	8.04	23.07	76.8	5.31	13.6	14.9
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS(Mf)6	12:07:56	1.0	Surface	1	1	28.24	8.06	21.73	76.6	5.28	10.4	10.8
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS(Mf)6	12:08:11	1.0	Surface	1	2	28.19	8.04	22.10	79.1	5.46	10.4	9.3
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS(Mf)6	12:08:02	2.2	Bottom	3	1	28.14	8.05	22.16	77.7	5.37	10.6	10.7
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS(Mf)6	12:07:46	2.2	Bottom	3	2	28.02	8.08	22.19	81.7	5.65	10.5	10.2
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS7	12:17:48	1.0	Surface	1	1	28.05	8.05	22.43	82.0	5.66	7.8	9.8
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS7	12:18:02	1.0	Surface	1	2	27.98	8.03	22.53	74.9	5.17	7.5	9.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS7	12:17:55	2.4	Bottom	3	1	27.99	8.04	22.62	73.9	5.10	7.7	12.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS7	12:17:32	2.4	Bottom	3	2	28.01	8.09	22.70	76.5	5.28	7.7	10.7
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS8	12:46:55	1.0	Surface	1	1	28.56	8.02	22.11	78.9	5.40	6.1	6.1
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS8	12:46:38	1.0	Surface	1	2	28.49	8.02	22.25	82.5	5.66	6.3	5.0
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS8	12:46:46	2.9	Bottom	3	1	28.33	8.02	23.14	78.4	5.38	6.5	6.3
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS8	12:46:30	2.9	Bottom	3	2	28.29	8.03	22.98	80.6	5.53	6.6	5.8
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS(Mf)9	12:27:22	1.0	Surface	1	1	28.08	8.06	21.56	81.4	5.63	8.4	5.0
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS(Mf)9	12:27:40	1.0	Surface	1	2	28.16	8.04	21.54	76.0	5.26	8.5	4.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS(Mf)9	12:27:31	2.6	Bottom	3	1	27.97	8.04	22.17	75.3	5.21	8.4	4.7
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS(Mf)9	12:27:09	2.6	Bottom	3	2	27.93	8.07	22.48	76.6	5.31	8.5	4.2
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS10(N)	12:27:11	1.0	Surface	1	1	28.26	7.64	19.73	81.2	5.65	8.7	7.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS10(N)	12:27:33	1.0	Surface	1	2	28.11	7.63	20.13	81.8	5.69	8.9	7.0
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS10(N)	12:27:25	5.3	Middle	2	1	27.90	7.62	21.38	78.8	5.51	9.2	6.7
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS10(N)	12:27:02	5.3	Middle	2	2	28.10	7.67	20.73	77.4	5.33	9.1	8.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS10(N)	12:27:19	9.6	Bottom	3	1	28.19	7.61	22.54	76.2	5.32	9.5	8.1
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	IS10(N)	12:26:53	9.6	Bottom	3	2	28.02	7.71	21.43	76.4	5.32	9.4	8.7
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR3(N)	11:47:12	1.0	Surface	1	1	28.16	8.26	18.74	80.1	5.65	11.4	8.9
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR3(N)	11:47:29	1.0	Surface	1	2	28.20	8.25	18.97	76.7	5.40	11.3	8.0
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR3(N)	11:47:18	2.3	Bottom	3	1	28.07	8.25	18.94	76.1	5.34	11.5	9.8
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR3(N)	11:46:57	2.3	Bottom	3	2	28.07	8.23	18.61	77.6	5.46	11.3	9.5
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR4(N)	12:39:36	1.0	Surface	1	1	28.02	8.03	20.93	80.2	5.59	9.1	11.0
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR4(N)	12:40:21	1.0	Surface	1	2	27.99	7.97	21.45	86.2	5.98	9.2	12.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR4(N)	12:39:51	2.7	Bottom	3	1	28.00	8.00	21.45	71.4	4.96	8.8	14.5
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR4(N)	12:39:27	2.7	Bottom	3	2	28.01	8.05	21.61	75.1	5.22	9.1	15.6
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR5(N)	12:18:20	1.0	Surface	1	1	27.97	7.67	20.66	78.1	5.45	6.8	8.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR5(N)	12:18:57	1.0	Surface	1	2	27.94	7.63	20.74	78.8	5.44	6.9	7.3
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR5(N)	12:18:06	4.2	Middle	2	1	27.97	7.76	20.72	75.6	5.28	7.2	9.7
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR5(N)	12:18:50	4.2	Middle	2	2	27.85	7.64	21.34	75.2	5.23	7.1	10.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR5(N)	12:17:59	7.3	Bottom	3	1	27.99	7.82	20.63	74.0	5.17	7.6	10.1
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR5(N)	12:18:39	7.3	Bottom	3	2	27.83	7.64	21.58	74.0	5.15	7.5	10.4

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR10A(N)	13:13:15	1.0	Surface	1	1	27.96	7.73	23.28	82.6	5.69	4.1	4.9
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR10A(N)	13:12:52	1.0	Surface	1	2	27.95	7.84	23.34	82.0	5.64	4.1	4.7
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR10A(N)	13:12:47	7.0	Middle	2	1	27.94	7.89	23.37	78.9	5.43	4.3	6.8
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR10A(N)	13:13:06	7.0	Middle	2	2	27.95	7.76	23.34	80.7	5.55	4.2	6.7
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR10A(N)	13:13:00	12.9	Bottom	3	1	27.95	7.79	23.35	77.7	5.35	4.4	7.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR10A(N)	13:12:37	12.9	Bottom	3	2	27.93	7.87	23.41	78.0	5.37	4.5	7.1
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR10B(N)	13:22:40	1.0	Surface	1	1	27.99	7.70	23.25	81.4	5.60	4.7	6.5
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR10B(N)	13:22:57	1.0	Surface	1	2	27.99	7.64	23.24	81.9	5.63	4.6	6.1
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR10B(N)	13:22:30	4.2	Bottom	3	1	28.02	7.77	23.29	78.8	5.42	5.0	5.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	SR10B(N)	13:22:49	4.2	Bottom	3	2	27.99	7.66	23.25	77.7	5.35	4.9	6.9
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	CS2(A)	11:20:58	1.0	Surface	1	1	27.61	7.50	22.90	78.8	5.26	7.3	8.5
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	CS2(A)	11:21:45	1.0	Surface	1	2	27.87	7.55	22.62	78.4	5.24	7.2	9.3
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	CS2(A)	11:20:43	3.9	Middle	2	1	27.03	7.44	30.38	75.9	5.15	7.4	11.4
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	CS2(A)	11:21:25	3.9	Middle	2	2	27.08	7.53	29.78	76.1	5.12	7.6	10.7
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	CS2(A)	11:20:34	6.7	Bottom	3	1	27.03	7.39	31.64	75.2	5.05	7.9	10.5
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	CS2(A)	11:21:11	6.7	Bottom	3	2	27.16	7.48	31.67	75.5	5.09	7.8	11.9
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	CS(Mf)5	13:18:53	1.0	Surface	1	1	28.45	8.09	20.51	77.2	5.27	7.7	8.8
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	CS(Mf)5	13:18:15	1.0	Surface	1	2	28.18	8.12	20.81	74.7	5.19	7.9	8.3
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	CS(Mf)5	13:18:39	6.1	Middle	2	1	27.48	8.07	25.62	73.7	5.11	8.4	10.1
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	CS(Mf)5	13:18:01	6.1	Middle	2	2	27.39	8.13	25.26	74.1	5.09	8.5	9.2
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	CS(Mf)5	13:18:27	11.2	Bottom	3	1	27.51	8.06	27.51	73.2	4.96	8.6	10.2
HKLR	HY/2011/03	2017-09-06	Mid-Ebb	Cloudy	CS(Mf)5	13:17:49	11.2	Bottom	3	2	27.29	8.14	26.84	71.4	4.89	8.5	10.6
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS5	7:01:11	1.0	Surface	1	1	27.92	8.04	21.05	80.8	5.62	6.5	8.4
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS5	7:01:35	1.0	Surface	1	2	27.90	8.03	21.15	76.4	5.31	6.3	8.6
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS5	7:00:57	4.4	Middle	2	1	27.89	8.04	21.28	78.3	5.46	6.4	8.9
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS5	7:01:27	4.4	Middle	2	2	27.88	8.03	21.41	75.5	5.26	6.6	9.8
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS5	7:01:20	7.7	Bottom	3	1	27.89	8.03	21.51	75.4	5.26	6.5	11.0
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS5	7:00:48	7.7	Bottom	3	2	27.83	8.04	21.77	77.2	5.38	6.6	10.7
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS(Mf)6	6:52:55	1.0	Surface	1	1	27.81	8.04	21.01	84.7	5.91	4.4	4.9
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS(Mf)6	6:53:09	1.0	Surface	1	2	27.82	8.04	21.03	80.9	5.65	4.2	4.0
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS(Mf)6	6:52:46	2.4	Bottom	3	1	27.82	8.05	21.08	82.2	5.74	4.4	6.4
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS(Mf)6	6:53:01	2.4	Bottom	3	2	27.82	8.04	21.15	79.4	5.55	4.4	5.8
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS7	6:45:28	1.0	Surface	1	1	27.80	8.04	20.64	81.3	5.69	3.9	5.2
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS7	6:45:13	1.0	Surface	1	2	27.80	8.05	20.53	84.5	5.90	3.9	3.5
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS7	6:45:04	2.3	Bottom	3	1	27.85	8.05	20.93	82.3	5.77	3.9	7.9
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS7	6:45:20	2.3	Bottom	3	2	27.83	8.04	20.86	80.6	5.64	3.9	7.4
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS8	6:12:09	1.0	Surface	1	1	27.87	8.03	19.78	87.3	6.11	8.1	7.8
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS8	6:12:34	1.0	Surface	1	2	27.88	8.01	19.79	80.0	5.60	8.4	7.0
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS8	6:12:19	3.0	Bottom	3	1	27.84	8.01	20.52	78.2	5.49	8.4	6.5
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS8	6:11:56	3.0	Bottom	3	2	27.81	8.04	20.59	82.3	5.78	8.1	6.4
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS(Mf)9	6:35:48	1.0	Surface	1	1	27.78	8.02	21.29	79.0	5.52	10.1	9.4
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS(Mf)9	6:36:06	1.0	Surface	1	2	27.78	8.02	20.77	84.8	5.91	10.5	8.8
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS(Mf)9	6:35:27	2.9	Bottom	3	1	27.75	8.03	21.68	76.8	5.38	10.2	8.2
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS(Mf)9	6:35:56	2.9	Bottom	3	2	27.77	8.02	21.20	77.7	5.43	10.5	9.5
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS10(N)	6:17:11	1.0	Surface	1	1	27.57	7.51	21.70	75.3	5.26	8.2	6.0
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS10(N)	6:16:43	1.0	Surface	1	2	27.57	7.53	21.94	74.9	5.22	8.1	5.2
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS10(N)	6:16:31	5.4	Middle	2	1	27.52	7.55	22.21	75.1	5.19	8.3	9.7
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS10(N)	6:17:00	5.4	Middle	2	2	27.50	7.51	22.12	75.0	5.23	8.3	10.6
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS10(N)	6:16:53	9.7	Bottom	3	1	27.50	7.51	23.95	74.5	5.20	8.6	10.8
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	IS10(N)	6:16:20	9.7	Bottom	3	2	27.40	7.59	24.02	74.1	5.18	8.5	11.4
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR3(N)	7:09:07	1.0	Surface	1	1	27.88	8.04	21.42	77.5	5.39	10.4	9.7
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR3(N)	7:08:50	1.0	Surface	1	2	27.87	8.05	21.51	83.0	5.77	10.1	9.9

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR3(N)	7:08:57	2.7	Bottom	3	1	27.85	8.05	21.66	76.2	5.31	10.4	9.4
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR3(N)	7:08:39	2.7	Bottom	3	2	27.85	8.06	21.69	79.2	5.51	10.3	10.4
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR4(N)	6:24:06	1.0	Surface	1	1	27.85	8.00	19.72	90.4	6.36	8.3	11.0
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR4(N)	6:19:26	1.0	Surface	1	2	27.82	8.01	20.05	86.9	6.11	8.4	11.8
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR4(N)	6:23:43	2.7	Bottom	3	1	27.83	8.02	19.74	80.4	5.66	8.2	14.9
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR4(N)	6:19:15	2.7	Bottom	3	2	27.83	8.02	19.86	81.7	5.74	8.0	16.0
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR5(N)	6:28:17	1.0	Surface	1	1	27.62	7.52	21.85	78.5	5.44	9.1	8.5
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR5(N)	6:27:48	1.0	Surface	1	2	27.63	7.54	21.77	78.4	5.46	9.2	8.8
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR5(N)	6:27:34	4.2	Middle	2	1	27.58	7.55	22.26	76.2	5.31	9.4	8.6
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR5(N)	6:28:06	4.2	Middle	2	2	27.59	7.52	22.10	76.5	5.34	9.6	10.0
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR5(N)	6:27:21	7.4	Bottom	3	1	27.52	7.59	22.91	74.9	5.23	9.7	9.2
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR5(N)	6:27:56	7.4	Bottom	3	2	27.60	7.52	22.23	75.0	5.23	9.8	9.1
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR10A(N)	5:22:05	1.0	Surface	1	1	27.64	7.43	21.36	76.4	5.35	3.9	4.2
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR10A(N)	5:22:34	1.0	Surface	1	2	27.63	7.44	21.43	76.6	5.34	4.0	5.3
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR10A(N)	5:21:54	7	Middle	2	1	27.61	7.43	21.92	76.2	5.30	4.2	5.4
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR10A(N)	5:22:26	7	Middle	2	2	27.61	7.43	21.96	76.4	5.34	4.1	4.8
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR10A(N)	5:21:45	12.9	Bottom	3	1	27.60	7.45	22.24	75.9	5.29	4.4	6.3
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR10A(N)	5:22:16	12.9	Bottom	3	2	27.61	7.42	22.27	76.0	5.30	4.2	5.0
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR10B(N)	5:16:19	1.0	Surface	1	1	27.62	7.43	21.20	76.5	5.34	4.2	3.2
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR10B(N)	5:16:01	1.0	Surface	1	2	27.64	7.43	21.41	76.7	5.34	4.2	4.6
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR10B(N)	5:15:48	4.4	Bottom	3	1	27.60	7.49	22.14	76.3	5.34	4.6	4.7
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	SR10B(N)	5:16:09	4.4	Bottom	3	2	27.63	7.42	21.75	76.0	5.32	4.5	6.0
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	CS2(A)	7:28:51	1.0	Surface	1	1	28.06	7.43	16.86	74.7	5.31	5.3	5.6
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	CS2(A)	7:28:14	1.0	Surface	1	2	28.06	7.48	17.06	74.7	5.30	5.2	4.6
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	CS2(A)	7:28:42	3.9	Middle	2	1	28.01	7.44	17.62	73.9	5.26	5.6	4.9
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	CS2(A)	7:28:03	3.9	Middle	2	2	27.98	7.55	17.72	73.0	5.17	5.5	4.4
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	CS2(A)	7:27:53	6.7	Bottom	3	1	27.91	7.62	19.04	72.9	5.17	5.9	6.0
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	CS2(A)	7:28:33	6.7	Bottom	3	2	27.99	7.46	17.93	72.7	5.17	5.7	5.2
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	CS(Mf)5	5:46:57	1.0	Surface	1	1	27.94	7.99	20.40	75.3	5.24	7.8	6.4
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	CS(Mf)5	5:47:40	1.0	Surface	1	2	27.93	8.01	20.10	74.5	5.22	7.9	5.8
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	CS(Mf)5	5:46:38	6.3	Middle	2	1	27.47	7.99	24.78	74.9	5.08	8.6	5.6
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	CS(Mf)5	5:47:25	6.3	Middle	2	2	27.59	7.99	24.00	73.6	5.05	8.7	6.4
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	CS(Mf)5	5:46:13	11.5	Bottom	3	1	27.11	7.99	29.48	73.6	5.06	8.8	5.4
HKLR	HY/2011/03	2017-09-06	Mid-Flood	Cloudy	CS(Mf)5	5:47:11	11.5	Bottom	3	2	27.31	7.93	28.41	73.2	4.97	8.5	5.8
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS5	13:19:54	1.0	Surface	1	1	28.32	8.18	22.70	84.8	6.00	10.9	13.7
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS5	13:20:32	1.0	Surface	1	2	28.27	8.15	22.98	82.2	5.88	11.0	14.1
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS5	13:19:40	4.2	Middle	2	1	28.27	8.18	22.71	81.4	5.76	10.7	15.7
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS5	13:20:19	4.2	Middle	2	2	28.24	8.16	23.00	80.7	5.71	10.8	14.4
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS5	13:19:33	7.4	Bottom	3	1	28.30	8.19	22.57	80.0	5.67	12.6	16.0
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS5	13:20:12	7.4	Bottom	3	2	28.24	8.16	22.99	78.8	5.53	12.7	15.4
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS(Mf)6	13:32:05	1.0	Surface	1	1	28.33	8.15	22.66	84.1	5.95	8.4	8.8
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS(Mf)6	13:32:25	1.0	Surface	1	2	28.42	8.12	22.62	87.3	6.17	8.0	9.9
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS(Mf)6	13:32:13	2.4	Bottom	3	1	28.30	8.13	22.94	81.8	5.78	11.7	9.2
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS(Mf)6	13:31:58	2.4	Bottom	3	2	28.28	8.17	22.92	80.3	5.68	12.0	8.3
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS7	13:44:31	1.0	Surface	1	1	28.34	8.12	22.59	82.4	5.83	6.1	6.7
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS7	13:44:15	1.0	Surface	1	2	28.22	8.15	22.82	85.2	6.03	6.3	7.1
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS7	13:44:07	2.5	Bottom	3	1	28.16	8.15	23.34	80.6	5.71	7.2	6.5
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS7	13:44:23	2.5	Bottom	3	2	28.22	8.13	22.93	79.3	5.67	7.0	7.3
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS8	14:14:55	1.0	Surface	1	1	28.49	8.11	21.46	77.7	5.53	6.3	9.0
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS8	14:14:40	1.0	Surface	1	2	28.41	8.12	21.56	77.4	5.51	6.9	7.9
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS8	14:14:48	3.0	Bottom	3	1	28.41	8.11	21.72	77.4	5.51	6.8	11.5
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS8	14:14:33	3.0	Bottom	3	2	28.34	8.12	21.81	77.3	5.50	6.5	12.5

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS(Mf)9	13:57:01	1.0	Surface	1	1	28.49	8.17	20.15	86.4	6.17	6.7	8.8
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS(Mf)9	13:57:21	1.0	Surface	1	2	28.37	8.15	20.61	83.6	5.98	6.6	8.5
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS(Mf)9	13:57:09	2.6	Bottom	3	1	28.35	8.16	20.49	80.2	5.69	6.7	8.2
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS(Mf)9	13:56:51	2.6	Bottom	3	2	28.36	8.16	20.03	81.2	5.80	6.7	9.2
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS10(N)	13:31:24	1.0	Surface	1	1	28.42	7.72	22.08	73.4	5.11	10.0	7.4
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS10(N)	13:30:44	1.0	Surface	1	2	28.37	7.72	22.08	73.2	5.09	10.1	7.6
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS10(N)	13:31:11	5.5	Middle	2	1	28.12	7.74	22.95	72.6	5.04	10.4	6.8
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS10(N)	13:30:29	5.5	Middle	2	2	27.92	7.73	24.46	72.5	5.02	10.5	6.5
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS10(N)	13:30:57	10.0	Bottom	3	1	27.97	7.72	24.81	72.4	4.98	10.8	8.0
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	IS10(N)	13:30:10	10.0	Bottom	3	2	27.96	7.74	24.74	72.0	4.93	10.7	7.5
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR3(N)	13:06:29	1.0	Surface	1	1	28.35	8.21	19.77	86.7	6.21	11.4	7.6
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR3(N)	13:06:46	1.0	Surface	1	2	28.34	8.20	20.15	88.3	6.33	11.1	7.9
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR3(N)	13:06:24	2.6	Bottom	3	1	28.32	8.20	19.69	82.7	5.93	11.6	7.4
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR3(N)	13:06:41	2.6	Bottom	3	2	28.32	8.20	20.09	83.8	6.00	11.5	7.9
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR4(N)	14:06:48	1.0	Surface	1	1	28.36	8.14	21.13	78.5	5.60	6.4	9.8
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR4(N)	14:07:08	1.0	Surface	1	2	28.38	8.13	21.32	77.8	5.55	6.9	9.4
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR4(N)	14:06:59	3.0	Bottom	3	1	28.35	8.13	21.36	78.0	5.56	7.1	8.7
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR4(N)	14:06:39	3.0	Bottom	3	2	28.33	8.15	21.17	78.7	5.62	6.7	8.4
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR5(N)	13:22:38	1.0	Surface	1	1	28.68	7.75	20.82	75.8	5.24	8.2	5.0
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR5(N)	13:21:52	1.0	Surface	1	2	28.41	7.79	21.31	75.6	5.22	8.3	6.6
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR5(N)	13:21:37	4.3	Middle	2	1	28.13	7.84	23.04	75.2	5.16	8.4	6.8
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR5(N)	13:22:24	4.3	Middle	2	2	28.12	7.79	23.08	75.3	5.18	8.5	7.4
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR5(N)	13:21:24	7.5	Bottom	3	1	28.07	7.87	24.13	73.0	5.03	8.7	7.2
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR5(N)	13:22:09	7.5	Bottom	3	2	28.01	7.76	24.56	73.5	5.08	8.6	7.0
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR10A(N)	14:14:13	1.0	Surface	1	1	28.13	7.77	24.91	76.9	5.22	4.0	8.4
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR10A(N)	14:13:54	1.0	Surface	1	2	28.31	7.81	24.54	77.1	5.24	4.1	8.2
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR10A(N)	14:13:42	6.9	Middle	2	1	28.19	7.86	24.76	74.8	5.08	4.3	8.4
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR10A(N)	14:14:08	6.9	Middle	2	2	28.11	7.78	25.06	75.4	5.13	4.2	8.0
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR10A(N)	14:14:01	12.8	Bottom	3	1	28.23	7.79	24.86	73.7	5.01	4.6	7.5
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR10A(N)	14:13:30	12.8	Bottom	3	2	28.11	7.95	25.24	73.3	4.99	4.5	7.0
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR10B(N)	14:22:16	1.0	Surface	1	1	28.14	7.68	25.55	76.5	5.19	5.4	6.3
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR10B(N)	14:21:51	1.0	Surface	1	2	28.13	7.70	25.61	76.9	5.21	5.3	7.2
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR10B(N)	14:22:02	4.1	Bottom	3	1	28.12	7.69	25.64	73.4	4.97	5.6	8.2
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	SR10B(N)	14:21:41	4.1	Bottom	3	2	28.11	7.72	25.67	75.0	5.08	5.6	8.4
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	CS2(A)	12:31:38	1.0	Surface	1	1	27.97	7.75	26.15	74.7	5.19	8.2	5.5
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	CS2(A)	12:30:43	1.0	Surface	1	2	28.03	7.75	26.06	74.8	5.21	8.1	6.4
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	CS2(A)	12:31:22	4.0	Middle	2	1	27.63	7.75	28.65	74.4	5.14	8.3	7.2
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	CS2(A)	12:30:29	4.0	Middle	2	2	27.66	7.75	28.50	74.6	5.16	8.3	6.6
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	CS2(A)	12:30:59	6.9	Bottom	3	1	27.55	7.74	29.85	73.1	5.09	8.4	6.7
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	CS2(A)	12:30:08	6.9	Bottom	3	2	27.54	7.78	29.72	73.2	5.11	8.5	7.3
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	CS(Mf)5	14:34:52	1.0	Surface	1	1	28.56	8.11	21.68	75.4	5.36	8.0	7.9
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	CS(Mf)5	14:35:43	1.0	Surface	1	2	28.56	8.11	22.00	76.1	5.40	7.5	7.7
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	CS(Mf)5	14:35:21	6.4	Middle	2	1	27.87	8.10	24.51	73.4	5.20	11.0	7.3
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	CS(Mf)5	14:34:39	6.4	Middle	2	2	27.86	8.10	24.28	73.5	5.22	10.8	8.3
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	CS(Mf)5	14:35:06	11.7	Bottom	3	1	27.97	8.09	24.52	75.0	5.30	11.2	10.1
HKLR	HY/2011/03	2017-09-08	Mid-Ebb	Sunny	CS(Mf)5	14:34:30	11.7	Bottom	3	2	27.82	8.09	24.53	74.3	5.26	11.4	10.2
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	ISS	8:17:38	1.0	Surface	1	1	28.09	8.03	22.48	85.5	6.06	7.4	8.5
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	ISS	8:17:10	1.0	Surface	1	2	28.09	8.04	22.48	86.5	6.14	7.2	8.5
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	ISS	8:17:01	4.2	Middle	2	1	28.10	8.04	22.64	81.2	5.77	7.6	7.6
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	ISS	8:17:26	4.2	Middle	2	2	28.10	8.03	22.64	84.0	5.97	7.5	8.1
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	ISS	8:17:18	7.3	Bottom	3	1	28.10	8.04	22.59	82.4	5.86	8.0	7.6
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	ISS	8:16:53	7.3	Bottom	3	2	28.09	8.05	22.68	80.3	5.71	7.8	8.1

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS(Mf)6	8:07:31	1.0	Surface	1	1	28.08	8.03	22.53	79.4	5.65	6.2	9.6
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS(Mf)6	8:07:16	1.0	Surface	1	2	28.08	8.03	22.55	79.9	5.68	6.3	9.4
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS(Mf)6	8:07:08	2.2	Bottom	3	1	28.08	8.03	22.61	80.1	5.69	7.4	13.3
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS(Mf)6	8:07:22	2.2	Bottom	3	2	28.08	8.03	22.66	79.6	5.66	6.9	14.3
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS7	8:00:27	1.0	Surface	1	1	28.08	8.04	22.51	80.9	5.76	5.0	14.0
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS7	8:00:40	1.0	Surface	1	2	28.08	8.04	22.50	80.4	5.72	5.3	13.3
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS7	8:00:19	2.3	Bottom	3	1	28.09	8.04	22.66	81.3	5.77	6.7	12.8
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS7	8:00:32	2.3	Bottom	3	2	28.08	8.04	22.61	80.8	5.75	6.6	13.1
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS8	7:25:02	1.0	Surface	1	1	28.09	8.00	21.87	82.2	5.86	8.8	15.6
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS8	7:25:18	1.0	Surface	1	2	28.10	7.99	21.80	84.2	5.99	9.2	15.3
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS8	7:25:09	3.1	Bottom	3	1	28.10	7.98	22.46	80.5	5.72	12.8	14.9
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS8	7:24:56	3.1	Bottom	3	2	28.09	8.00	22.37	79.0	5.64	12.2	16.2
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS(Mf)9	7:49:18	1.0	Surface	1	1	28.08	8.06	22.34	83.6	5.95	6.1	12.4
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS(Mf)9	7:48:52	1.0	Surface	1	2	28.08	8.09	22.69	84.4	5.99	6.2	12.3
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS(Mf)9	7:48:44	2.6	Bottom	3	1	28.06	8.12	22.72	80.3	5.70	6.8	12.7
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS(Mf)9	7:49:11	2.6	Bottom	3	2	28.09	8.06	22.66	79.6	5.66	6.1	13.6
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS10(N)	7:31:51	1.0	Surface	1	1	27.89	7.51	22.55	74.1	5.14	12.9	8.8
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS10(N)	7:32:26	1.0	Surface	1	2	27.82	7.50	23.38	74.3	5.16	13.0	10.0
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS10(N)	7:32:14	5.5	Middle	2	1	27.79	7.50	23.71	73.6	5.11	13.3	8.9
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS10(N)	7:31:36	5.5	Middle	2	2	27.82	7.52	23.43	73.6	5.10	13.2	10.4
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS10(N)	7:32:01	10.0	Bottom	3	1	27.79	7.49	25.07	72.9	5.02	13.5	6.3
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	IS10(N)	7:31:21	10.0	Bottom	3	2	27.76	7.55	24.31	73.1	5.04	13.4	6.0
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR3(N)	8:29:15	1.0	Surface	1	1	28.10	8.03	22.53	79.3	5.64	4.9	6.1
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR3(N)	8:29:31	1.0	Surface	1	2	28.09	8.03	22.56	79.1	5.63	5.1	5.6
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR3(N)	8:29:23	2.7	Bottom	3	1	28.10	8.03	22.63	79.3	5.64	6.2	9.8
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR3(N)	8:29:05	2.7	Bottom	3	2	28.10	8.03	22.68	79.6	5.66	6.5	10.5
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR4(N)	7:34:31	1.0	Surface	1	1	28.11	7.97	21.34	85.2	6.08	10.6	22.8
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR4(N)	7:33:09	1.0	Surface	1	2	28.11	8.00	21.31	89.2	6.36	10.8	22.9
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR4(N)	7:33:03	2.9	Bottom	3	1	28.11	8.01	21.30	77.3	5.50	11.0	24.0
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR4(N)	7:34:21	2.9	Bottom	3	2	28.10	7.98	21.35	74.2	5.19	10.4	23.0
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR5(N)	7:43:03	1.0	Surface	1	1	27.88	7.51	23.08	74.5	5.15	14.1	12.8
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR5(N)	7:42:29	1.0	Surface	1	2	27.87	7.51	23.16	74.2	5.14	14.1	11.3
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR5(N)	7:42:13	4.3	Middle	2	1	27.89	7.51	23.07	73.9	5.10	14.2	15.0
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR5(N)	7:42:54	4.3	Middle	2	2	27.85	7.51	23.26	74.0	5.12	14.3	14.5
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR5(N)	7:42:44	7.6	Bottom	3	1	27.85	7.51	23.30	73.2	5.04	14.5	16.4
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR5(N)	7:42:00	7.6	Bottom	3	2	27.85	7.52	23.32	73.2	5.03	14.6	17.0
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR10A(N)	6:45:14	1.0	Surface	1	1	27.88	7.51	23.13	74.1	5.17	5.1	5.5
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR10A(N)	6:44:45	1.0	Surface	1	2	27.88	7.50	23.18	73.9	5.16	5.0	5.4
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR10A(N)	6:44:35	7	Middle	2	1	27.86	7.52	23.38	73.5	5.11	5.2	6.3
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR10A(N)	6:45:03	7	Middle	2	2	27.86	7.50	23.41	73.6	5.13	5.2	5.9
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR10A(N)	6:44:24	12.9	Bottom	3	1	27.84	7.54	23.84	72.8	5.02	5.4	6.8
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR10A(N)	6:44:55	12.9	Bottom	3	2	27.85	7.50	23.80	72.9	5.03	5.4	7.0
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR10B(N)	6:33:43	1.0	Surface	1	1	27.33	7.51	27.35	73.4	5.12	6.1	7.4
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR10B(N)	6:34:04	1.0	Surface	1	2	27.23	7.51	28.33	73.6	5.13	6.2	7.0
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR10B(N)	6:33:33	4.1	Bottom	3	1	27.12	7.57	30.13	73.2	5.06	6.4	6.7
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	SR10B(N)	6:33:54	4.1	Bottom	3	2	27.20	7.49	30.37	73.2	5.05	6.5	7.1
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	CS2(A)	8:34:03	1.0	Surface	1	1	28.05	7.54	22.03	73.9	5.13	6.1	7.3
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	CS2(A)	8:34:36	1.0	Surface	1	2	28.04	7.54	22.05	74.2	5.15	6.1	6.4
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	CS2(A)	8:33:50	4.1	Middle	2	1	28.02	7.56	22.12	73.6	5.08	6.2	7.7
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	CS2(A)	8:34:27	4.1	Middle	2	2	28.03	7.54	22.08	73.7	5.09	6.2	8.1
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	CS2(A)	8:34:11	7.1	Bottom	3	1	28.04	7.54	22.12	72.4	5.02	6.5	7.3
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	CS2(A)	8:33:38	7.1	Bottom	3	2	27.89	7.58	22.68	72.1	5.03	6.4	7.3

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	CS(Mf)5	6:58:51	1.0	Surface	1	1	28.14	7.91	22.79	81.4	5.66	3.7	5.3
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	CS(Mf)5	6:59:22	1.0	Surface	1	2	28.09	7.96	22.29	84.3	5.84	4.0	4.3
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	CS(Mf)5	6:59:11	6.2	Middle	2	1	27.85	7.92	26.47	76.2	5.43	5.0	5.7
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	CS(Mf)5	6:58:23	6.2	Middle	2	2	27.83	7.86	27.72	78.8	5.60	5.1	6.8
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	CS(Mf)5	6:58:17	11.3	Bottom	3	1	27.84	7.83	28.37	77.0	5.39	5.0	5.8
HKLR	HY/2011/03	2017-09-08	Mid-Flood	Sunny	CS(Mf)5	6:59:04	11.3	Bottom	3	2	27.90	7.90	26.87	76.1	5.34	4.7	6.7
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS5	15:11	1.0	Surface	1	1	29.33	8.18	19.79	79.1	5.42	7.0	8.8
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS5	15:13	1.0	Surface	1	2	29.44	8.13	19.83	83.5	5.72	7.2	9.6
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS5	15:11	4.3	Middle	2	1	29.28	8.20	19.89	76.6	5.26	7.3	11.7
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS5	15:13	4.3	Middle	2	2	29.20	8.14	20.16	78.3	5.37	7.5	12.6
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS5	15:11	7.5	Bottom	3	1	29.28	8.22	19.91	75.4	5.17	7.1	12.8
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS5	15:13	7.5	Bottom	3	2	29.16	8.14	20.31	75.8	5.19	7.1	12.3
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS(Mf)6	15:28	1.0	Surface	1	1	29.49	8.17	20.43	81.2	5.54	5.7	5.2
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS(Mf)6	15:28	1.0	Surface	1	2	29.57	8.20	20.33	85.7	5.85	5.5	5.2
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS(Mf)6	15:28	2.2	Bottom	3	1	29.36	8.22	20.48	82.7	5.63	7.1	8.2
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS(Mf)6	15:28	2.2	Bottom	3	2	29.42	8.18	20.51	80.0	5.45	7.1	9.6
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS7	15:35	1.0	Surface	1	1	29.60	8.16	19.85	83.2	5.68	8.5	8.0
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS7	15:36	1.0	Surface	1	2	29.43	8.14	20.48	79.6	5.42	8.4	7.3
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS7	15:35	2.2	Bottom	3	1	29.26	8.17	20.86	80.4	5.49	8.5	11.6
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS7	15:35	2.2	Bottom	3	2	29.46	8.15	20.48	78.1	5.33	8.1	10.9
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS8	16:04	1.0	Surface	1	1	29.30	8.13	20.85	81.3	5.54	5.7	9.6
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS8	16:04	1.0	Surface	1	2	29.60	8.14	20.10	83.6	5.71	6.1	8.6
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS8	16:03	2.9	Bottom	3	1	29.14	8.14	21.05	80.0	5.46	6.1	9.7
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS8	16:04	2.9	Bottom	3	2	29.24	8.13	21.05	79.3	5.41	6.2	9.5
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS(Mf)9	15:45	1.0	Surface	1	1	29.65	8.17	19.83	83.5	5.70	9.8	8.7
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS(Mf)9	15:46	1.0	Surface	1	2	29.69	8.15	19.85	85.0	5.80	9.7	9.3
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS(Mf)9	15:46	2.7	Bottom	3	1	29.59	8.15	20.02	81.6	5.57	9.8	8.2
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS(Mf)9	15:45	2.7	Bottom	3	2	29.51	8.18	19.96	81.5	5.55	9.9	8.7
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS10(N)	15:39	1.0	Surface	1	1	29.84	7.60	16.69	75.8	5.24	4.5	6.3
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS10(N)	15:40	1.0	Surface	1	2	29.85	7.57	16.73	75.4	5.22	4.6	5.7
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS10(N)	15:39	5.5	Middle	2	1	29.52	7.61	17.93	73.7	5.10	4.6	8.5
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS10(N)	15:40	5.5	Middle	2	2	29.16	7.57	18.03	73.5	5.09	4.7	9.8
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS10(N)	15:39	9.9	Bottom	3	1	29.60	7.70	20.58	70.4	4.82	4.8	11.8
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	IS10(N)	15:40	9.9	Bottom	3	2	28.72	7.54	21.92	70.2	4.85	5.0	11.6
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR3(N)	15:01	1.0	Surface	1	1	29.85	8.34	18.20	84.1	5.80	6.8	8.5
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR3(N)	15:01	1.0	Surface	1	2	30.04	8.31	18.37	83.3	5.69	6.7	7.1
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR3(N)	15:01	3.1	Bottom	3	1	29.62	8.35	18.45	82.5	5.67	7.0	17.0
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR3(N)	15:00	3.1	Bottom	3	2	29.45	8.32	18.22	83.0	5.69	6.7	15.9
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR4(N)	15:57	1.0	Surface	1	1	29.87	8.17	18.73	81.7	5.59	4.8	7.0
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR4(N)	15:57	1.0	Surface	1	2	29.78	8.13	18.90	84.4	5.77	5.1	7.7
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR4(N)	15:57	2.7	Bottom	3	1	29.74	8.15	19.13	79.5	5.43	5.1	7.5
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR4(N)	15:57	2.7	Bottom	3	2	29.80	8.19	18.80	77.4	5.29	5.0	6.7
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR5(N)	15:27	1.0	Surface	1	1	29.79	7.68	17.35	74.6	5.15	4.5	6.3
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR5(N)	15:26	1.0	Surface	1	2	29.79	7.81	17.36	74.2	5.12	4.4	5.6
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR5(N)	15:27	4.3	Middle	2	1	29.51	7.70	17.72	72.8	5.04	4.6	7.5
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR5(N)	15:26	4.3	Middle	2	2	29.51	7.79	17.54	72.6	5.02	4.6	6.4
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR5(N)	15:26	7.6	Bottom	3	1	29.05	7.71	19.62	71.8	4.89	4.9	6.8
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR5(N)	15:27	7.6	Bottom	3	2	29.33	7.72	21.07	70.9	4.89	4.8	6.1
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR10A(N)	16:20	1.0	Surface	1	1	29.38	7.66	22.88	79.4	5.38	2.4	2.2
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR10A(N)	16:19	1.0	Surface	1	2	29.57	7.69	22.01	79.6	5.37	2.3	2.5
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR10A(N)	16:19	7.1	Middle	2	1	29.41	7.70	22.69	78.6	5.27	2.4	5.5
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR10A(N)	16:20	7.1	Middle	2	2	29.38	7.66	23.03	78.9	5.30	2.5	4.2

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR10A(N)	16:20	13.2	Bottom	3	1	29.53	7.67	23.20	76.7	5.16	2.5	5.0
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR10A(N)	16:19	13.2	Bottom	3	2	29.36	7.74	23.10	75.7	5.10	2.5	4.1
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR10B(N2)	16:31	1.0	Surface	1	1	29.44	7.65	22.68	74.6	5.02	2.2	2.8
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR10B(N2)	16:32	1.0	Surface	1	2	29.47	7.64	22.65	74.6	5.02	2.3	2.4
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR10B(N2)	16:31	3.8	Middle	2	1	29.38	7.67	23.01	74.3	5.00	2.2	4.7
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR10B(N2)	16:32	3.8	Middle	2	2	29.43	7.64	22.80	74.5	5.02	2.3	4.4
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR10B(N2)	16:31	6.6	Bottom	3	1	29.34	7.68	23.18	74.1	4.99	2.4	6.0
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	SR10B(N2)	16:32	6.6	Bottom	3	2	29.46	7.64	22.77	74.2	4.99	2.4	4.7
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	CS2(A)	14:37	1.0	Surface	1	1	29.30	7.78	20.07	73.5	5.15	7.2	5.0
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	CS2(A)	14:38	1.0	Surface	1	2	28.93	7.78	22.35	73.7	5.16	7.1	5.0
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	CS2(A)	14:37	4.0	Middle	2	1	28.15	7.79	26.75	72.1	5.02	7.4	4.0
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	CS2(A)	14:37	4.0	Middle	2	2	28.56	7.79	25.57	72.4	5.03	7.3	4.6
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	CS2(A)	14:37	6.9	Bottom	3	1	28.05	7.78	29.08	71.7	4.91	7.5	4.4
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	CS2(A)	14:37	6.9	Bottom	3	2	27.94	7.79	29.69	71.9	4.84	7.6	5.7
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	CS(Mf)5	16:26	1.0	Surface	1	1	29.27	8.16	19.84	82.2	5.59	6.1	6.0
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	CS(Mf)5	16:27	1.0	Surface	1	2	29.22	8.14	20.07	76.0	5.30	6.1	6.6
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	CS(Mf)5	16:27	5.9	Middle	2	1	28.47	8.15	22.45	72.3	5.04	8.1	6.7
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	CS(Mf)5	16:26	5.9	Middle	2	2	28.49	8.17	22.18	76.7	5.35	8.1	6.0
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	CS(Mf)5	16:27	10.8	Bottom	3	1	28.16	8.09	27.93	70.8	4.94	7.7	7.7
HKLR	HY/2011/03	2017-09-11	Mid-Ebb	Sunny	CS(Mf)5	16:26	10.8	Bottom	3	2	28.35	8.13	27.63	72.2	4.93	7.8	6.6
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS5	10:33	1.0	Surface	1	1	29.05	8.04	21.17	77.9	5.33	3.3	4.8
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS5	10:33	1.0	Surface	1	2	29.04	8.05	21.15	80.1	5.48	3.5	3.8
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS5	10:33	4.5	Middle	2	1	28.95	8.04	21.36	77.7	5.31	3.3	6.7
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS5	10:32	4.5	Middle	2	2	28.96	8.05	21.21	78.3	5.35	3.6	5.3
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS5	10:32	7.9	Bottom	3	1	28.79	8.05	21.92	78.1	5.34	3.5	6.1
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS5	10:33	7.9	Bottom	3	2	28.97	8.04	21.47	77.3	5.29	3.5	4.7
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS(Mf)6	10:24	1.0	Surface	1	1	29.45	8.04	20.58	81.6	5.57	4.3	2.9
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS(Mf)6	10:24	1.0	Surface	1	2	29.42	8.03	20.73	79.8	5.43	4.2	3.6
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS(Mf)6	10:24	2.1	Bottom	3	1	29.30	8.04	20.90	80.6	5.49	4.3	4.3
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS(Mf)6	10:24	2.1	Bottom	3	2	29.38	8.03	20.86	79.1	5.39	4.4	4.1
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS7	10:14	1.0	Surface	1	1	29.37	8.04	20.81	79.3	5.40	3.6	4.2
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS7	10:14	1.0	Surface	1	2	29.36	8.04	20.86	81.6	5.56	3.6	4.7
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS7	10:14	2.2	Bottom	3	1	29.32	8.05	21.02	80.0	5.45	3.7	5.6
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS7	10:14	2.2	Bottom	3	2	29.36	8.04	20.93	78.5	5.35	3.8	5.2
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS8	9:44	1.0	Surface	1	1	28.87	8.02	20.34	75.5	5.21	11.5	23.2
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS8	9:44	1.0	Surface	1	2	28.88	8.04	20.12	79.4	5.46	11.3	22.8
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS8	9:44	3.0	Bottom	3	1	28.79	8.06	20.91	72.3	4.98	11.2	22.0
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS8	9:44	3.0	Bottom	3	2	28.88	8.03	20.41	73.7	5.07	11.4	22.2
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS(Mf)9	10:04	1.0	Surface	1	1	28.99	8.04	20.35	76.7	5.27	7.6	9.6
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS(Mf)9	10:04	1.0	Surface	1	2	29.08	8.02	20.42	81.1	5.56	7.5	10.1
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS(Mf)9	10:04	2.5	Bottom	3	1	28.80	8.06	21.39	73.4	5.03	7.5	10.4
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS(Mf)9	10:04	2.5	Bottom	3	2	28.80	8.02	21.42	73.2	5.02	7.4	11.0
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS10(N)	9:49	1.0	Surface	1	1	28.92	7.56	19.58	73.6	5.14	4.1	5.8
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS10(N)	9:50	1.0	Surface	1	2	28.91	7.54	19.62	73.5	5.15	4.2	5.8
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS10(N)	9:49	5.5	Middle	2	1	28.71	7.61	20.15	72.5	5.01	4.3	5.2
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS10(N)	9:49	5.5	Middle	2	2	28.69	7.54	20.27	72.8	5.06	4.5	4.6
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS10(N)	9:49	9.9	Bottom	3	1	28.72	7.52	22.05	71.2	4.91	4.7	9.1
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	IS10(N)	9:49	9.9	Bottom	3	2	28.56	7.51	21.92	71.7	4.95	4.6	7.9
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR3(N)	10:41	1.0	Surface	1	1	28.97	8.05	21.41	83.1	5.69	5.4	10.0
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR3(N)	10:41	1.0	Surface	1	2	28.94	8.04	21.48	77.6	5.31	5.2	9.3
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR3(N)	10:41	2.4	Bottom	3	1	28.91	8.06	21.45	79.0	5.40	5.4	13.4
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR3(N)	10:41	2.4	Bottom	3	2	28.95	8.04	21.46	76.4	5.22	5.4	12.5

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR4(N)	9:52	1.0	Surface	1	1	28.94	7.99	19.80	75.2	5.19	11.5	14.6
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR4(N)	9:51	1.0	Surface	1	2	28.94	8.01	19.79	80.7	5.57	11.2	13.9
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR4(N)	9:51	2.8	Bottom	3	1	28.94	8.03	19.81	73.7	5.09	11.7	15.4
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR4(N)	9:51	2.8	Bottom	3	2	28.93	8.00	19.81	72.0	4.97	11.4	15.1
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR5(N)	10:05	1.0	Surface	1	1	28.94	7.51	19.54	73.2	5.12	3.5	6.2
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR5(N)	10:06	1.0	Surface	1	2	28.71	7.51	19.94	73.7	5.14	3.4	5.5
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR5(N)	10:05	4.4	Middle	2	1	28.76	7.52	20.00	72.4	5.06	3.7	7.5
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR5(N)	10:05	4.4	Middle	2	2	28.61	7.50	21.01	72.6	5.07	3.6	6.6
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR5(N)	10:05	7.7	Bottom	3	1	28.78	7.49	22.07	69.8	4.93	3.8	7.1
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR5(N)	10:05	7.7	Bottom	3	2	28.56	7.53	21.93	68.9	4.89	3.9	7.0
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR10A(N)	9:04	1.0	Surface	1	1	27.85	7.53	27.07	73.4	5.12	6.3	9.1
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR10A(N)	9:04	1.0	Surface	1	2	27.80	7.57	27.14	72.8	5.09	6.4	8.0
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR10A(N)	9:03	7.1	Middle	2	1	27.73	7.52	28.66	72.5	5.04	6.5	11.3
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR10A(N)	9:04	7.1	Middle	2	2	27.65	7.54	29.56	71.7	5.03	6.6	10.6
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR10A(N)	9:04	13.2	Bottom	3	1	27.81	7.53	30.26	71.1	4.91	6.9	11.2
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR10A(N)	9:03	13.2	Bottom	3	2	27.64	7.52	30.09	70.8	4.88	7.0	12.4
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR10B(N2)	8:52	1.0	Surface	1	1	27.92	7.46	27.25	73.2	5.11	6.3	7.7
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR10B(N2)	8:52	1.0	Surface	1	2	27.92	7.48	27.15	73.1	5.09	6.4	8.0
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR10B(N2)	8:52	3.9	Middle	2	1	27.80	7.54	27.48	72.2	5.03	6.6	8.1
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR10B(N2)	8:51	3.9	Middle	2	2	27.83	7.54	28.39	71.6	5.02	6.6	10.0
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR10B(N2)	8:52	6.7	Bottom	3	1	27.85	7.52	29.59	70.5	4.82	6.8	11.8
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	SR10B(N2)	8:51	6.7	Bottom	3	2	27.65	7.51	30.03	70.3	4.83	6.8	12.1
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	CS2(A)	10:56	1.0	Surface	1	1	28.74	7.63	20.03	73.3	5.08	6.3	6.2
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	CS2(A)	10:55	1.0	Surface	1	2	28.93	7.65	19.02	73.5	5.09	6.4	5.7
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	CS2(A)	10:55	4.0	Middle	2	1	28.80	7.64	19.16	72.6	5.03	6.6	8.4
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	CS2(A)	10:55	4.0	Middle	2	2	28.78	7.70	19.15	72.9	5.05	6.5	8.4
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	CS2(A)	10:55	7.0	Bottom	3	1	28.64	7.61	23.76	69.6	4.83	6.8	8.8
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	CS2(A)	10:55	7.0	Bottom	3	2	28.59	7.68	20.18	70.9	4.92	6.7	9.9
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	CS(Mf)5	9:17	1.0	Surface	1	1	29.00	8.03	21.25	80.9	5.45	5.2	3.7
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	CS(Mf)5	9:17	1.0	Surface	1	2	28.90	8.03	20.54	72.9	5.10	5.1	2.1
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	CS(Mf)5	9:17	6.3	Middle	2	1	28.49	8.03	26.26	75.2	5.23	5.3	4.3
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	CS(Mf)5	9:17	6.3	Middle	2	2	28.47	8.03	25.33	73.7	5.01	5.6	2.9
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	CS(Mf)5	9:17	11.5	Bottom	3	1	28.39	8.03	27.80	72.0	4.95	5.6	4.2
HKLR	HY/2011/03	2017-09-11	Mid-Flood	Sunny	CS(Mf)5	9:16	11.5	Bottom	3	2	28.26	8.01	29.90	74.6	5.11	5.5	3.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS5	6:33	1.0	Surface	1	1	29.02	8.14	20.88	78.2	5.36	7.7	3.2
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS5	6:33	1.0	Surface	1	2	29.08	8.13	20.92	80.4	5.56	7.4	2.9
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS5	6:33	4.1	Middle	2	1	28.58	8.11	24.59	80.0	5.53	12.9	2.5
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS5	6:33	4.1	Middle	2	2	28.55	8.11	24.54	77.0	5.32	12.2	3.2
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS5	6:33	7.2	Bottom	3	1	28.51	8.08	27.19	76.3	5.26	11.5	5.8
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS5	6:32	7.2	Bottom	3	2	28.38	8.08	27.20	77.0	5.15	11.2	6.5
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS(Mf)6	6:25	1.0	Surface	1	1	29.24	8.06	19.20	83.2	5.73	3.2	3.0
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS(Mf)6	6:25	1.0	Surface	1	2	29.24	8.06	19.42	80.9	5.57	3.2	4.1
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS(Mf)6	6:25	2.1	Bottom	3	1	29.24	8.06	19.21	79.6	5.44	3.2	3.8
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS(Mf)6	6:25	2.1	Bottom	3	2	29.22	8.04	20.75	78.2	5.39	3.1	4.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS7	6:17	1.0	Surface	1	1	29.21	8.04	19.31	76.9	5.24	8.1	4.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS7	6:18	1.0	Surface	1	2	29.34	8.03	19.38	73.7	5.06	8.1	4.6
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS7	6:17	2.1	Bottom	3	1	29.10	8.02	21.76	74.0	5.10	8.6	5.5
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS7	6:17	2.1	Bottom	3	2	29.31	8.03	20.03	73.5	5.04	8.5	4.3
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS8	5:49	1.0	Surface	1	1	29.29	8.09	19.16	79.4	5.38	3.9	4.9
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS8	5:49	1.0	Surface	1	2	29.28	8.07	19.15	76.1	5.21	3.8	3.7
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS8	5:49	3.1	Bottom	3	1	29.28	8.07	21.99	76.9	5.30	3.9	4.9
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS8	5:49	3.1	Bottom	3	2	29.29	8.05	22.10	75.7	5.20	4.1	3.6

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS(Mf)9	6:09	1.0	Surface	1	1	29.48	8.02	19.33	81.6	5.53	5.7	5.7
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS(Mf)9	6:08	1.0	Surface	1	2	29.45	8.03	19.55	74.8	5.13	5.9	6.5
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS(Mf)9	6:08	2.7	Bottom	3	1	29.48	8.01	21.82	74.0	5.01	5.8	5.9
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS(Mf)9	6:08	2.7	Bottom	3	2	29.36	8.02	21.73	72.5	4.97	5.8	6.3
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS10(N)	5:50	1.0	Surface	1	1	28.86	7.72	20.19	79.1	5.62	5.3	3.9
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS10(N)	5:50	1.0	Surface	1	2	28.87	7.70	20.27	78.8	5.60	5.2	4.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS10(N)	5:50	5.4	Middle	2	1	28.59	7.67	24.79	75.7	5.42	5.9	5.8
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS10(N)	5:49	5.4	Middle	2	2	28.60	7.71	24.69	77.3	5.60	5.6	4.9
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS10(N)	5:50	9.8	Bottom	3	1	28.63	7.67	25.11	74.4	5.25	5.4	5.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	IS10(N)	5:49	9.8	Bottom	3	2	28.56	7.74	25.29	76.3	5.44	5.8	6.3
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR3(N)	6:42	1.0	Surface	1	1	29.27	8.08	21.06	79.5	5.42	6.8	5.2
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR3(N)	6:42	1.0	Surface	1	2	29.27	8.08	20.96	74.6	5.07	6.6	5.7
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR3(N)	6:42	2.4	Bottom	3	1	29.23	8.07	21.76	73.5	5.01	6.4	7.2
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR3(N)	6:42	2.4	Bottom	3	2	29.21	8.09	21.28	76.4	5.21	6.6	6.7
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR4(N)	5:57	1.0	Surface	1	1	29.30	7.99	20.45	76.4	5.31	9.2	8.1
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR4(N)	5:57	1.0	Surface	1	2	29.29	7.98	20.53	79.7	5.49	9.1	9.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR4(N)	5:57	2.6	Bottom	3	1	29.29	7.99	22.19	74.4	5.14	9.4	9.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR4(N)	5:57	2.6	Bottom	3	2	29.20	7.97	21.91	73.4	5.10	9.6	8.8
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR5(N)	6:02	1.0	Surface	1	1	28.87	7.71	20.20	77.5	5.62	4.8	5.9
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR5(N)	6:03	1.0	Surface	1	2	28.87	7.71	20.19	79.5	5.76	4.6	4.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR5(N)	6:03	4.2	Middle	2	1	28.74	7.69	23.29	77.6	5.52	5.8	6.2
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR5(N)	6:02	4.2	Middle	2	2	28.75	7.70	23.26	76.5	5.46	5.6	5.2
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR5(N)	6:03	7.3	Bottom	3	1	28.70	7.67	24.59	75.2	5.39	5.6	6.6
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR5(N)	6:02	7.3	Bottom	3	2	28.55	7.68	24.79	74.6	5.35	6.0	7.3
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR10A(N)	4:44	1.0	Surface	1	1	28.30	7.77	23.97	76.4	5.49	1.6	2.8
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR10A(N)	4:45	1.0	Surface	1	2	28.32	7.75	24.09	75.2	5.40	1.6	2.6
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR10A(N)	4:44	7.0	Middle	2	1	28.12	7.76	28.76	74.1	5.23	1.7	3.2
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR10A(N)	4:44	7.0	Middle	2	2	28.11	7.77	28.80	74.2	5.24	1.5	3.8
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR10A(N)	4:44	12.9	Bottom	3	1	28.12	7.75	28.77	75.3	5.31	1.6	3.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR10A(N)	4:44	12.9	Bottom	3	2	28.13	7.74	28.76	75.7	5.34	1.7	3.9
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR10B(N2)	4:32	1.0	Surface	1	1	28.34	7.75	25.32	78.7	5.61	1.9	4.6
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR10B(N2)	4:33	1.0	Surface	1	2	28.33	7.75	25.45	77.7	5.47	1.8	3.9
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR10B(N2)	4:32	3.8	Middle	2	1	28.15	7.75	28.44	76.0	5.42	1.9	4.9
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR10B(N2)	4:33	3.8	Middle	2	2	28.16	7.76	28.40	75.8	5.35	1.8	4.8
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR10B(N2)	4:33	6.6	Bottom	3	1	28.23	7.73	28.42	73.1	5.06	2.1	6.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	SR10B(N2)	4:32	6.6	Bottom	3	2	28.14	7.73	28.62	72.5	5.03	2.0	5.9
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	CS2(A)	6:53	1.0	Surface	1	1	28.74	7.78	20.36	81.8	5.92	5.2	5.8
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	CS2(A)	6:53	1.0	Surface	1	2	28.53	7.78	20.48	81.3	5.70	5.5	5.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	CS2(A)	6:53	3.7	Middle	2	1	28.30	7.78	28.02	77.4	5.45	6.6	6.8
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	CS2(A)	6:53	3.7	Middle	2	2	28.23	7.79	28.78	77.5	5.64	6.5	7.5
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	CS2(A)	6:53	6.4	Bottom	3	1	28.14	7.81	29.53	76.2	5.53	6.7	6.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	CS2(A)	6:53	6.4	Bottom	3	2	28.26	7.79	29.46	78.9	5.52	6.6	6.2
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	CS(Mf)5	5:16	1.0	Surface	1	1	28.79	8.05	23.16	77.7	5.36	4.3	3.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	CS(Mf)5	5:17	1.0	Surface	1	2	28.81	8.07	22.79	76.9	5.32	4.2	2.9
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	CS(Mf)5	5:16	6.1	Middle	2	1	28.29	8.07	28.14	75.9	5.08	4.1	6.4
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	CS(Mf)5	5:17	6.1	Middle	2	2	28.38	8.06	27.40	75.4	5.07	4.1	4.8
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	CS(Mf)5	5:17	11.1	Bottom	3	1	28.14	8.02	30.79	74.0	5.04	4.2	6.3
HKLR	HY/2011/03	2017-09-13	Mid-Ebb	Fine	CS(Mf)5	5:16	11.1	Bottom	3	2	27.89	8.03	32.28	73.8	5.02	4.3	5.0
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	ISS	11:52	1.0	Surface	1	1	29.62	8.13	18.85	77.5	5.31	5.3	6.4
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	ISS	11:51	1.0	Surface	1	2	29.49	8.16	18.99	77.5	5.24	5.2	5.9
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	ISS	11:51	4.2	Middle	2	1	29.18	8.16	20.79	75.6	5.20	7.8	6.1
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	ISS	11:52	4.2	Middle	2	2	29.14	8.11	20.85	77.1	5.18	7.5	5.2

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS5	11:51	7.3	Bottom	3	1	29.27	8.11	23.60	74.5	5.10	7.6	5.7
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS5	11:51	7.3	Bottom	3	2	28.89	8.15	23.67	73.8	5.05	7.7	4.9
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS(Mf)6	12:00	1.0	Surface	1	1	29.84	8.15	18.70	89.5	6.11	8.5	3.0
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS(Mf)6	12:00	1.0	Surface	1	2	29.81	8.12	18.66	88.2	6.00	8.9	2.2
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS(Mf)6	12:00	2.1	Bottom	3	1	29.76	8.15	19.19	89.3	6.11	8.5	4.5
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS(Mf)6	12:00	2.1	Bottom	3	2	29.74	8.12	20.00	85.5	5.85	8.5	3.6
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS7	12:11	1.0	Surface	1	1	29.72	8.13	19.24	84.5	5.73	2.5	5.4
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS7	12:10	1.0	Surface	1	2	29.68	8.15	19.24	88.5	6.01	2.6	5.0
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS7	12:11	2.2	Bottom	3	1	29.68	8.13	20.65	83.6	5.71	2.6	5.7
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS7	12:10	2.2	Bottom	3	2	29.47	8.15	21.13	84.4	5.77	2.5	6.2
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS8	12:41	1.0	Surface	1	1	29.34	8.13	21.52	77.3	5.23	6.1	6.2
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS8	12:40	1.0	Surface	1	2	29.34	8.14	21.45	81.9	5.55	6.5	5.4
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS8	12:41	3.3	Bottom	3	1	29.26	8.12	22.42	76.3	5.18	6.8	5.3
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS8	12:40	3.3	Bottom	3	2	29.04	8.13	22.89	78.0	5.30	6.8	6.6
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS(Mf)9	12:21	1.0	Surface	1	1	29.31	8.13	21.20	79.1	5.38	9.7	8.5
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS(Mf)9	12:21	1.0	Surface	1	2	29.32	8.10	21.13	82.5	5.60	9.4	8.6
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS(Mf)9	12:21	2.7	Bottom	3	1	29.19	8.14	22.03	76.8	5.20	9.5	7.7
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS(Mf)9	12:21	2.7	Bottom	3	2	29.24	8.10	22.48	74.2	5.05	9.7	8.2
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS10(N)	12:45	1.0	Surface	1	1	29.19	7.68	22.38	77.5	5.54	4.8	6.0
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS10(N)	12:44	1.0	Surface	1	2	29.17	7.69	22.47	78.8	5.63	4.3	4.5
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS10(N)	12:44	5.3	Middle	2	1	28.55	7.70	24.67	74.2	5.28	5.2	7.4
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS10(N)	12:44	5.3	Middle	2	2	28.41	7.66	25.25	74.0	5.26	5.4	7.1
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS10(N)	12:43	9.5	Bottom	3	1	28.44	7.70	26.03	72.9	5.22	6.5	8.6
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	IS10(N)	12:44	9.5	Bottom	3	2	28.37	7.65	26.60	72.7	5.20	6.8	9.5
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR3(N)	11:40	1.0	Surface	1	1	29.49	8.15	17.49	83.8	5.81	11.5	36.2
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR3(N)	11:40	1.0	Surface	1	2	29.48	8.15	17.36	85.4	5.93	11.5	39.0
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR3(N)	11:40	2.3	Bottom	3	1	29.48	8.16	17.44	83.4	5.78	11.6	40.4
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR3(N)	11:40	2.3	Bottom	3	2	29.48	8.15	17.16	84.3	5.84	11.4	39.1
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR4(N)	12:33	1.0	Surface	1	1	29.37	8.15	21.27	82.7	5.62	3.0	8.1
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR4(N)	12:34	1.0	Surface	1	2	29.39	8.13	21.33	86.4	5.87	3.1	9.5
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR4(N)	12:33	2.8	Bottom	3	1	29.38	8.14	21.31	79.6	5.41	3.2	8.8
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR4(N)	12:33	2.8	Bottom	3	2	29.33	8.17	21.36	80.8	5.49	3.1	8.5
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR5(N)	12:34	1.0	Surface	1	1	29.05	7.82	22.61	80.6	5.75	4.5	3.9
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR5(N)	12:33	1.0	Surface	1	2	29.06	7.83	22.67	81.2	5.79	4.8	4.7
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR5(N)	12:33	4.2	Middle	2	1	28.66	7.84	24.06	78.4	5.58	6.2	3.7
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR5(N)	12:33	4.2	Middle	2	2	28.64	7.83	23.92	78.1	5.58	6.3	3.8
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR5(N)	12:33	7.3	Bottom	3	1	28.62	7.84	24.64	75.9	5.41	6.1	7.5
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR5(N)	12:33	7.3	Bottom	3	2	28.60	7.85	24.73	76.2	5.44	6.6	7.2
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR10A(N)	13:38	1.0	Surface	1	1	28.24	7.80	28.09	77.1	5.44	2.7	6.8
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR10A(N)	13:39	1.0	Surface	1	2	28.21	7.79	28.13	79.2	5.56	2.8	5.1
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR10A(N)	13:38	6.7	Middle	2	1	27.97	7.80	29.73	75.4	5.30	3.7	10.2
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR10A(N)	13:38	6.7	Middle	2	2	27.97	7.83	29.66	74.2	5.24	3.8	8.7
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR10A(N)	13:38	12.4	Bottom	3	1	28.04	7.82	29.68	73.7	5.19	3.3	11.8
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR10A(N)	13:38	12.4	Bottom	3	2	27.98	7.85	29.71	74.3	5.23	3.5	10.3
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR10B(N2)	13:47	1.0	Surface	1	1	28.26	7.74	28.11	73.9	5.22	2.5	5.5
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR10B(N2)	13:48	1.0	Surface	1	2	28.24	7.72	28.20	73.5	5.20	2.5	6.9
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR10B(N2)	13:47	3.8	Middle	2	1	28.09	7.75	28.70	72.8	5.15	3.1	5.0
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR10B(N2)	13:48	3.8	Middle	2	2	28.01	7.72	29.31	72.2	5.10	3.4	6.1
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR10B(N2)	13:47	6.6	Bottom	3	1	27.99	7.77	29.76	73.3	5.17	3.7	9.8
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	SR10B(N2)	13:48	6.6	Bottom	3	2	28.01	7.72	29.93	73.0	5.14	3.3	8.8
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	CS2(A)	11:36	1.0	Surface	1	1	28.97	7.88	20.67	78.2	5.55	6.3	5.8
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	CS2(A)	11:35	1.0	Surface	1	2	29.17	7.86	18.99	78.7	5.71	5.9	4.8

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	CS2(A)	11:35	3.8	Middle	2	1	28.31	7.88	27.78	76.3	5.52	7.1	4.0
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	CS2(A)	11:35	3.8	Middle	2	2	28.35	7.85	26.47	75.3	5.45	6.0	4.5
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	CS2(A)	11:35	6.5	Bottom	3	1	28.21	7.87	28.89	74.6	5.25	7.0	8.2
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	CS2(A)	11:35	6.5	Bottom	3	2	28.20	7.87	28.85	73.3	5.19	6.8	7.2
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	CS(Mf)5	13:16	1.0	Surface	1	1	28.93	8.19	24.45	77.5	5.31	2.1	3.8
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	CS(Mf)5	13:15	1.0	Surface	1	2	28.63	8.23	24.75	81.5	5.49	2.1	2.6
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	CS(Mf)5	13:16	6.4	Middle	2	1	28.20	8.18	27.68	77.0	5.20	2.2	3.6
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	CS(Mf)5	13:15	6.4	Middle	2	2	28.05	8.22	28.83	77.9	5.33	2.2	2.4
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	CS(Mf)5	13:15	11.8	Bottom	3	1	28.01	8.22	30.59	77.5	5.26	2.2	7.1
HKLR	HY/2011/03	2017-09-13	Mid-Flood	Fine	CS(Mf)5	13:16	11.8	Bottom	3	2	28.30	8.17	29.33	75.2	5.13	2.2	6.1
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS5	8:51	1.0	Surface	1	1	28.54	8.19	22.66	83.5	5.68	4.7	6.2
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS5	8:51	1.0	Surface	1	2	28.54	8.20	22.64	87.4	5.95	4.7	5.3
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS5	8:51	4.3	Middle	2	1	28.55	8.19	22.73	82.8	5.66	4.8	7.3
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS5	8:51	4.3	Middle	2	2	28.55	8.21	22.88	84.8	5.79	4.8	6.0
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS5	8:50	7.5	Bottom	3	1	28.56	8.21	23.45	84.2	5.76	4.8	4.8
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS5	8:51	7.5	Bottom	3	2	28.55	8.19	23.44	82.7	5.65	4.9	6.7
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS(Mf)6	8:42	1.0	Surface	1	1	28.67	8.24	22.55	94.7	6.47	6.1	4.1
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS(Mf)6	8:42	1.0	Surface	1	2	28.65	8.24	22.61	93.4	6.37	6.2	3.0
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS(Mf)6	8:42	2.4	Bottom	3	1	28.56	8.22	22.79	97.1	6.63	6.0	3.6
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS(Mf)6	8:42	2.4	Bottom	3	2	28.61	8.24	22.87	91.7	6.26	6.2	4.8
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS7	8:34	1.0	Surface	1	1	28.64	8.23	22.52	91.9	6.26	3.2	4.8
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS7	8:34	1.0	Surface	1	2	28.64	8.23	22.64	91.2	6.22	3.2	5.5
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS7	8:33	2.4	Bottom	3	1	28.65	8.22	23.09	90.7	6.20	3.2	5.3
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS7	8:34	2.4	Bottom	3	2	28.64	8.23	22.64	91.1	6.22	3.2	4.9
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS8	8:07	1.0	Surface	1	1	28.79	8.21	22.84	87.4	5.92	2.9	2.8
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS8	8:08	1.0	Surface	1	2	28.73	8.21	22.72	87.7	5.95	2.8	2.5
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS8	8:08	3.0	Bottom	3	1	28.82	8.21	23.25	87.0	5.93	3.3	3.1
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS8	8:07	3.0	Bottom	3	2	28.91	8.20	23.25	86.1	5.86	3.4	4.5
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS(Mf)9	8:26	1.0	Surface	1	1	28.76	8.21	22.84	94.5	6.42	2.5	4.1
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS(Mf)9	8:26	1.0	Surface	1	2	28.75	8.22	22.85	93.5	6.35	2.5	6.3
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS(Mf)9	8:25	2.7	Bottom	3	1	28.79	8.20	23.10	93.5	6.36	3.5	5.2
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS(Mf)9	8:26	2.7	Bottom	3	2	28.80	8.21	23.14	92.1	6.27	3.5	6.3
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS10(N)	8:29	1.0	Surface	1	1	28.49	7.68	21.11	86.3	5.94	2.5	3.7
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS10(N)	8:28	1.0	Surface	1	2	28.50	7.69	20.99	85.8	5.91	2.4	3.4
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS10(N)	8:28	5.5	Middle	2	1	28.44	7.68	21.81	83.8	5.79	2.6	2.4
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS10(N)	8:28	5.5	Middle	2	2	28.45	7.71	21.56	82.6	5.67	2.6	3.9
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS10(N)	8:28	9.9	Bottom	3	1	28.47	7.68	22.10	82.2	5.67	2.8	3.3
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	IS10(N)	8:28	9.9	Bottom	3	2	28.42	7.76	21.98	82.0	5.64	2.9	5.0
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR3(N)	9:00	1.0	Surface	1	1	28.77	8.23	22.39	90.4	6.15	5.4	3.0
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR3(N)	9:00	1.0	Surface	1	2	28.84	8.22	22.60	95.4	6.48	5.5	3.7
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR3(N)	9:00	2.6	Bottom	3	1	28.84	8.22	22.67	89.6	6.11	5.2	3.6
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR3(N)	9:00	2.6	Bottom	3	2	28.89	8.22	22.81	91.1	6.20	5.5	3.8
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR4(N)	8:14	1.0	Surface	1	1	28.68	8.19	21.76	91.1	6.19	6.0	4.1
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR4(N)	8:14	1.0	Surface	1	2	28.64	8.16	22.20	84.8	5.77	6.1	3.4
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR4(N)	8:14	2.7	Bottom	3	1	28.90	8.18	22.74	86.6	5.94	7.3	2.4
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR4(N)	8:14	2.7	Bottom	3	2	28.81	8.16	22.89	82.8	5.67	7.5	3.6
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR5(N)	8:39	1.0	Surface	1	1	28.56	7.69	21.54	79.9	5.45	3.6	3.9
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR5(N)	8:39	1.0	Surface	1	2	28.58	7.66	20.50	78.8	5.45	3.5	4.3
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR5(N)	8:39	4.3	Middle	2	1	28.54	7.68	22.94	78.4	5.39	3.8	2.8
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR5(N)	8:39	4.3	Middle	2	2	28.56	7.69	21.59	78.3	5.31	3.9	2.8
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR5(N)	8:39	7.6	Bottom	3	1	28.54	7.65	24.22	76.5	5.26	4.2	4.1
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR5(N)	8:38	7.6	Bottom	3	2	28.54	7.70	23.05	76.4	5.21	4.3	3.9

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR10A(N)	7:25	1.0	Surface	1	1	28.26	7.72	24.89	85.8	5.82	0.2	2.2
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR10A(N)	7:25	1.0	Surface	1	2	28.27	7.69	25.15	85.6	5.81	0.2	1.7
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR10A(N)	7:25	7.1	Middle	2	1	28.27	7.70	25.21	84.2	5.71	0.3	1.8
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR10A(N)	7:24	7.1	Middle	2	2	28.25	7.72	24.91	82.8	5.60	0.3	2.0
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR10A(N)	7:25	13.2	Bottom	3	1	28.27	7.71	25.28	82.6	5.59	0.4	2.4
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR10A(N)	7:24	13.2	Bottom	3	2	28.25	7.72	25.37	82.0	5.55	0.4	1.4
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR10B(N2)	7:15	1.0	Surface	1	1	28.21	7.74	25.28	81.6	5.53	0.6	4.3
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR10B(N2)	7:15	1.0	Surface	1	2	28.19	7.70	25.45	82.0	5.57	0.5	3.7
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR10B(N2)	7:15	4.0	Middle	2	1	28.14	7.70	25.71	81.0	5.49	0.8	4.8
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR10B(N2)	7:15	4.0	Middle	2	2	28.20	7.79	25.37	80.5	5.45	0.7	3.7
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR10B(N2)	7:15	7.0	Bottom	3	1	28.18	7.71	25.70	79.8	5.40	0.9	3.8
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	SR10B(N2)	7:15	7.0	Bottom	3	2	28.22	7.73	24.94	79.6	5.39	0.9	4.4
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	CS2(A)	9:33	1.0	Surface	1	1	28.36	7.72	19.58	82.1	5.73	5.1	6.2
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	CS2(A)	9:34	1.0	Surface	1	2	28.36	7.71	18.96	85.7	5.75	5.2	4.4
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	CS2(A)	9:34	4.0	Middle	2	1	28.43	7.70	20.71	82.5	5.54	5.5	5.2
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	CS2(A)	9:33	4.0	Middle	2	2	28.43	7.72	21.02	81.1	5.61	5.6	4.6
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	CS2(A)	9:33	7.0	Bottom	3	1	28.41	7.68	26.25	79.9	5.59	5.7	5.3
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	CS2(A)	9:33	7.0	Bottom	3	2	28.43	7.76	26.31	78.8	5.46	5.8	4.5
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	CS(Mf)5	7:40	1.0	Surface	1	1	28.51	8.13	24.15	75.5	5.12	1.1	2.0
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	CS(Mf)5	7:40	1.0	Surface	1	2	28.58	8.12	25.00	77.3	5.21	1.2	3.1
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	CS(Mf)5	7:40	6.2	Middle	2	1	28.51	8.11	25.55	77.3	5.05	1.2	3.2
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	CS(Mf)5	7:39	6.2	Middle	2	2	28.52	8.13	26.49	76.9	5.03	1.1	3.5
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	CS(Mf)5	7:39	11.4	Bottom	3	1	28.14	8.10	32.08	74.3	4.98	1.1	3.7
HKLR	HY/2011/03	2017-09-15	Mid-Ebb	Fine	CS(Mf)5	7:40	11.4	Bottom	3	2	28.44	8.08	30.05	73.0	4.91	1.2	4.6
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS5	15:17	1.0	Surface	1	1	29.23	8.29	22.04	88.7	6.00	6.5	3.5
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS5	15:17	1.0	Surface	1	2	29.35	8.29	22.06	94.9	6.42	6.5	4.4
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS5	15:17	4.6	Middle	2	1	29.00	8.26	22.57	93.6	6.31	6.4	3.7
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS5	15:16	4.6	Middle	2	2	28.87	8.27	22.45	88.3	5.99	6.6	4.4
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS5	15:17	8.2	Bottom	3	1	29.06	8.28	23.86	90.1	6.12	6.6	3.4
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS5	15:16	8.2	Bottom	3	2	28.74	8.29	23.93	83.9	5.71	6.5	3.9
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS(Mf)6	15:30	1.0	Surface	1	1	29.48	8.34	22.59	99.6	6.71	3.8	6.3
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS(Mf)6	15:30	1.0	Surface	1	2	29.36	8.32	22.77	101.1	6.82	3.7	5.6
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS(Mf)6	15:30	2.0	Bottom	3	1	29.31	8.33	22.92	99.4	6.70	3.8	4.6
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS(Mf)6	15:30	2.0	Bottom	3	2	29.22	8.35	22.99	99.4	6.71	3.7	3.9
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS7	15:39	1.0	Surface	1	1	29.63	8.35	22.69	104.8	7.05	11.3	4.3
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS7	15:40	1.0	Surface	1	2	29.62	8.36	22.84	111.1	7.46	11.2	4.6
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS7	15:40	2.1	Bottom	3	1	29.31	8.33	23.42	103.4	6.94	11.4	3.2
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS7	15:39	2.1	Bottom	3	2	29.20	8.31	23.38	94.9	6.40	11.2	3.9
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS8	16:09	1.0	Surface	1	1	29.25	8.22	21.80	91.9	6.23	10.5	10.4
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS8	16:09	1.0	Surface	1	2	29.26	8.23	21.77	93.8	6.36	10.1	8.5
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS8	16:09	3.4	Bottom	3	1	29.23	8.22	22.12	91.3	6.20	10.4	14.1
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS8	16:08	3.4	Bottom	3	2	29.15	8.23	22.40	92.1	6.26	10.2	15.8
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS(Mf)9	15:50	1.0	Surface	1	1	29.23	8.27	22.69	91.7	6.19	9.8	13.1
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS(Mf)9	15:50	1.0	Surface	1	2	29.31	8.26	22.85	93.7	6.32	9.9	12.7
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS(Mf)9	15:50	2.7	Bottom	3	1	29.24	8.26	23.05	93.0	6.27	9.7	14.6
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS(Mf)9	15:49	2.7	Bottom	3	2	29.11	8.28	23.46	91.0	6.14	9.6	14.3
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS10(N)	15:34	1.0	Surface	1	1	29.21	7.82	20.10	89.1	6.04	2.9	5.0
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS10(N)	15:34	1.0	Surface	1	2	29.19	7.83	20.18	87.9	6.03	2.8	3.9
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS10(N)	15:34	5.6	Middle	2	1	29.09	7.84	21.92	87.0	5.97	3.1	4.2
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS10(N)	15:34	5.6	Middle	2	2	28.96	7.82	22.13	87.6	5.96	3.2	5.6
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS10(N)	15:34	10.1	Bottom	3	1	28.84	7.86	23.28	85.6	5.83	3.3	5.6
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	IS10(N)	15:34	10.1	Bottom	3	2	28.95	7.81	23.39	87.4	5.91	3.3	3.7

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR3(N)	15:03	1.0	Surface	1	1	29.18	8.13	20.26	97.2	6.66	5.4	4.9
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR3(N)	15:03	1.0	Surface	1	2	29.19	8.12	19.95	97.3	6.68	5.3	4.2
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR3(N)	15:03	2.1	Bottom	3	1	29.16	8.11	19.63	96.4	6.63	10.2	4.7
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR3(N)	15:03	2.1	Bottom	3	2	29.14	8.15	20.16	97.2	6.68	10.2	5.7
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR4(N)	16:01	1.0	Surface	1	1	29.46	8.26	21.27	96.0	6.52	3.1	8.1
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR4(N)	16:02	1.0	Surface	1	2	29.47	8.24	21.32	95.0	6.44	3.1	8.4
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR4(N)	16:02	2.8	Bottom	3	1	29.49	8.25	21.29	94.8	6.43	2.9	7.3
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR4(N)	16:01	2.8	Bottom	3	2	29.43	8.27	21.30	95.0	6.45	3.1	6.0
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR5(N)	15:25	1.0	Surface	1	1	29.38	7.88	19.52	88.9	6.06	2.2	5.9
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR5(N)	15:24	1.0	Surface	1	2	29.53	7.93	19.46	88.2	6.04	2.1	5.9
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR5(N)	15:25	4.4	Middle	2	1	28.98	7.89	21.37	88.1	6.03	2.3	3.7
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR5(N)	15:24	4.4	Middle	2	2	29.31	7.97	20.16	86.5	5.93	2.3	3.8
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR5(N)	15:24	7.7	Bottom	3	1	29.03	7.89	23.11	86.3	5.84	2.4	6.7
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR5(N)	15:24	7.7	Bottom	3	2	28.95	7.89	21.88	85.8	5.87	2.4	7.4
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR10A(N)	16:28	1.0	Surface	1	1	28.35	7.85	27.47	80.1	5.35	2.3	3.7
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR10A(N)	16:29	1.0	Surface	1	2	28.36	7.80	27.61	79.8	5.33	2.2	3.7
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR10A(N)	16:28	7.2	Middle	2	1	28.38	7.92	27.75	78.1	5.21	2.6	4.0
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR10A(N)	16:29	7.2	Middle	2	2	28.38	7.81	27.74	78.5	5.24	2.5	4.1
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR10A(N)	16:28	13.3	Bottom	3	1	28.36	7.82	27.71	77.6	5.18	2.8	5.2
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR10A(N)	16:28	13.3	Bottom	3	2	28.36	7.88	27.87	77.7	5.19	2.8	6.2
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR10B(N2)	16:35	1.0	Surface	1	1	28.18	7.76	29.13	77.8	5.15	2.2	2.4
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR10B(N2)	16:36	1.0	Surface	1	2	28.35	7.76	29.03	77.9	5.19	2.2	4.4
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR10B(N2)	16:36	4.1	Middle	2	1	27.99	7.74	30.20	76.6	5.07	2.5	4.1
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR10B(N2)	16:35	4.1	Middle	2	2	27.94	7.75	30.40	76.8	5.09	2.4	3.5
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR10B(N2)	16:35	7.1	Bottom	3	1	27.75	7.77	31.75	75.0	4.92	2.6	4.0
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	SR10B(N2)	16:35	7.1	Bottom	3	2	28.10	7.74	31.53	74.7	4.96	2.7	5.6
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	CS2(A)	14:33	1.0	Surface	1	1	29.19	7.99	18.09	86.2	5.83	5.4	6.2
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	CS2(A)	14:33	1.0	Surface	1	2	29.54	7.96	16.11	85.7	5.85	5.5	4.3
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	CS2(A)	14:33	4.1	Middle	2	1	28.98	7.98	19.34	84.4	5.86	5.8	6.6
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	CS2(A)	14:33	4.1	Middle	2	2	28.78	7.95	22.14	83.4	5.76	5.7	6.1
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	CS2(A)	14:32	7.2	Bottom	3	1	28.69	7.98	24.31	82.8	5.65	6.2	6.4
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	CS2(A)	14:33	7.2	Bottom	3	2	28.76	7.98	22.40	82.4	5.75	6.1	5.2
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	CS(Mf)5	16:39	1.0	Surface	1	1	29.38	8.21	22.73	80.8	5.45	3.2	3.8
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	CS(Mf)5	16:40	1.0	Surface	1	2	29.27	8.21	22.85	80.5	5.44	3.2	2.8
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	CS(Mf)5	16:39	6.4	Middle	2	1	28.40	8.20	27.17	81.8	5.39	3.7	3.5
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	CS(Mf)5	16:40	6.4	Middle	2	2	28.33	8.18	27.29	77.1	5.06	3.7	4.7
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	CS(Mf)5	16:39	11.8	Bottom	3	1	27.99	8.19	30.88	73.9	4.94	3.6	4.0
HKLR	HY/2011/03	2017-09-15	Mid-Flood	Fine	CS(Mf)5	16:39	11.8	Bottom	3	2	28.17	8.15	31.06	72.0	4.81	3.6	5.6
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS5	12:16	1.0	Surface	1	1	29.71	8.28	23.43	84.4	5.63	5.9	5.8
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS5	12:17	1.0	Surface	1	2	29.67	8.28	23.52	84.1	5.62	5.7	6.3
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS5	12:16	4.6	Middle	2	1	29.00	8.24	25.88	79.3	5.27	5.8	8.3
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS5	12:16	4.6	Middle	2	2	28.95	8.24	26.07	78.0	5.19	5.8	9.2
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS5	12:15	8.1	Bottom	3	1	28.88	8.25	26.57	73.5	4.90	5.9	9.5
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS5	12:16	8.1	Bottom	3	2	28.92	8.24	26.53	74.5	4.96	5.9	9.7
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS(Mf)6	12:06	1.0	Surface	1	1	29.81	8.32	22.50	94.4	6.29	5.6	9.3
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS(Mf)6	12:06	1.0	Surface	1	2	29.83	8.33	22.58	96.5	6.46	5.6	10.8
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS(Mf)6	12:06	2.2	Bottom	3	1	29.29	8.30	24.96	93.0	6.23	5.5	9.4
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS(Mf)6	12:06	2.2	Bottom	3	2	29.15	8.27	25.03	92.5	6.20	5.6	11.0
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS7	11:55	1.0	Surface	1	1	29.70	8.32	22.29	100.3	6.73	4.6	5.8
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS7	11:56	1.0	Surface	1	2	29.65	8.32	22.39	104.3	7.01	4.7	4.3
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS7	11:56	2.3	Bottom	3	1	29.56	8.31	22.98	99.0	6.65	4.8	6.5
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS7	11:55	2.3	Bottom	3	2	29.22	8.27	23.26	93.5	6.30	4.8	6.3

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS8	11:22	1.0	Surface	1	1	29.83	8.32	21.36	88.2	5.95	6.5	5.9
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS8	11:22	1.0	Surface	1	2	29.85	8.30	21.47	88.0	5.93	6.7	6.5
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS8	11:22	3.6	Bottom	3	1	29.11	8.25	25.07	83.6	5.59	6.6	5.9
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS8	11:21	3.6	Bottom	3	2	29.12	8.27	24.96	84.2	5.63	6.5	6.8
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS(Mf)9	11:45	1.0	Surface	1	1	29.67	8.27	21.62	80.7	5.35	4.1	3.9
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS(Mf)9	11:45	1.0	Surface	1	2	29.40	8.21	22.64	80.1	5.33	4.4	5.0
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS(Mf)9	11:45	2.8	Bottom	3	1	29.01	8.19	25.10	75.5	5.05	6.8	5.5
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS(Mf)9	11:45	2.8	Bottom	3	2	29.35	8.21	25.01	75.1	5.06	6.7	3.9
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS10(N)	11:15	1.0	Surface	1	1	29.56	7.87	22.44	79.0	5.32	3.3	5.6
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS10(N)	11:16	1.0	Surface	1	2	29.55	7.88	22.49	78.7	5.30	3.4	6.1
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS10(N)	11:15	5.2	Middle	2	1	28.93	7.86	24.92	77.2	5.18	5.2	5.5
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS10(N)	11:16	5.2	Middle	2	2	28.89	7.88	24.92	76.6	5.14	5.4	7.0
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS10(N)	11:15	9.4	Bottom	3	1	28.59	7.88	27.98	72.6	4.81	5.7	5.7
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	IS10(N)	11:14	9.4	Bottom	3	2	28.62	7.85	27.80	72.6	4.82	5.9	5.1
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR3(N)	12:29	1.0	Surface	1	1	29.83	8.31	22.69	91.4	6.12	3.6	5.6
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR3(N)	12:28	1.0	Surface	1	2	29.90	8.32	22.59	91.5	6.12	3.5	7.0
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR3(N)	12:28	2.3	Bottom	3	1	29.55	8.30	23.88	91.3	6.10	3.7	6.5
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR3(N)	12:28	2.3	Bottom	3	2	29.43	8.30	23.67	90.1	6.04	3.5	6.6
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR4(N)	11:31	1.0	Surface	1	1	29.96	8.32	19.82	102.9	6.92	3.9	4.8
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR4(N)	11:31	1.0	Surface	1	2	29.91	8.31	20.08	101.7	6.90	3.8	7.1
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR4(N)	11:31	3.1	Bottom	3	1	29.67	8.29	21.73	97.3	6.56	4.6	6.1
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR4(N)	11:31	3.1	Bottom	3	2	29.79	8.30	21.79	99.5	6.75	4.8	5.5
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR5(N)	11:26	1.0	Surface	1	1	29.50	7.78	23.09	80.7	5.42	3.3	5.7
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR5(N)	11:25	1.0	Surface	1	2	29.52	7.78	23.04	80.9	5.43	3.3	5.7
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR5(N)	11:26	4.0	Middle	2	1	29.08	7.77	24.20	77.0	5.17	5.6	6.4
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR5(N)	11:25	4.0	Middle	2	2	29.08	7.79	24.36	78.2	5.25	5.4	4.1
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR5(N)	11:25	7.0	Bottom	3	1	28.72	7.77	26.25	74.0	4.94	6.0	5.6
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR5(N)	11:24	7.0	Bottom	3	2	28.69	7.78	26.25	73.6	4.91	6.0	5.0
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR10A(N)	10:00	1.0	Surface	1	1	28.61	7.51	27.08	78.5	5.23	2.7	6.5
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR10A(N)	10:01	1.0	Surface	1	2	28.62	7.51	27.05	78.0	5.20	2.7	6.2
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR10A(N)	10:00	6.7	Middle	2	1	28.58	7.46	27.19	77.8	5.19	3.1	8.4
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR10A(N)	10:01	6.7	Middle	2	2	28.61	7.49	27.22	77.5	5.17	2.9	6.5
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR10A(N)	9:59	12.4	Bottom	3	1	28.19	7.45	27.81	76.7	5.06	3.5	10.7
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR10A(N)	10:00	12.4	Bottom	3	2	28.22	7.47	27.80	75.9	5.05	3.6	9.3
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR10B(N2)	10:07	1.0	Surface	1	1	28.48	7.54	28.27	77.8	5.15	3.3	7.2
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR10B(N2)	10:08	1.0	Surface	1	2	28.51	7.57	28.30	77.3	5.12	3.1	8.0
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR10B(N2)	10:07	3.7	Middle	2	1	28.45	7.53	28.54	77.3	5.12	3.4	7.8
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR10B(N2)	10:08	3.7	Middle	2	2	28.46	7.56	28.47	76.8	5.09	3.3	8.0
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR10B(N2)	10:06	6.4	Bottom	3	1	28.40	7.52	28.84	76.4	5.06	3.7	6.1
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	SR10B(N2)	10:08	6.4	Bottom	3	2	28.43	7.55	28.79	76.4	5.06	3.7	6.5
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	CS2(A)	12:20	1.0	Surface	1	1	29.24	7.81	24.18	80.5	5.38	4.7	5.2
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	CS2(A)	12:21	1.0	Surface	1	2	29.22	7.83	24.14	80.3	5.37	4.3	4.2
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	CS2(A)	12:21	3.8	Middle	2	1	28.86	7.86	28.28	77.8	5.12	5.5	4.4
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	CS2(A)	12:19	3.8	Middle	2	2	28.90	7.86	27.15	77.0	5.11	5.6	6.1
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	CS2(A)	12:19	6.6	Bottom	3	1	28.49	7.88	30.08	75.3	4.94	6.6	7.6
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	CS2(A)	12:20	6.6	Bottom	3	2	28.49	7.87	30.10	74.8	4.91	6.3	8.9
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	CS(Mf)5	10:45	1.0	Surface	1	1	29.66	8.24	22.63	83.8	5.66	4.6	5.5
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	CS(Mf)5	10:47	1.0	Surface	1	2	29.63	8.25	21.97	83.2	5.61	4.6	6.8
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	CS(Mf)5	10:46	6.5	Middle	2	1	28.18	8.18	30.34	77.3	5.06	4.7	7.6
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	CS(Mf)5	10:44	6.5	Middle	2	2	28.17	8.16	31.66	79.2	5.13	4.9	8.1
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	CS(Mf)5	10:44	11.9	Bottom	3	1	27.95	8.13	34.24	74.3	4.86	4.8	7.5
HKLR	HY/2011/03	2017-09-18	Mid-Ebb	Fine	CS(Mf)5	10:46	11.9	Bottom	3	2	27.92	8.16	32.31	72.3	4.76	4.7	6.6

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS5	17:26	1.0	Surface	1	1	29.90	8.46	21.85	109.2	7.29	10.0	12.1
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS5	17:27	1.0	Surface	1	2	29.97	8.47	21.60	111.3	7.48	10.6	12.1
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS5	17:26	4.6	Middle	2	1	29.69	8.41	22.32	104.7	7.03	10.1	12.3
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS5	17:26	4.6	Middle	2	2	29.59	8.42	22.46	103.9	6.99	10.4	10.5
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS5	17:26	8.1	Bottom	3	1	29.67	8.44	23.66	92.9	6.24	10.5	10.9
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS5	17:26	8.1	Bottom	3	2	29.22	8.39	23.77	89.8	6.04	10.2	9.4
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS(MF)6	17:37	1.0	Surface	1	1	30.12	8.59	21.79	136.7	9.15	8.5	13.1
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS(MF)6	17:36	1.0	Surface	1	2	30.11	8.58	21.74	134.6	9.01	8.7	13.1
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS(MF)6	17:36	2.1	Bottom	3	1	30.12	8.59	21.77	132.1	8.85	8.4	22.2
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS(MF)6	17:36	2.1	Bottom	3	2	30.08	8.56	21.68	131.4	8.80	8.4	24.3
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS7	17:46	1.0	Surface	1	1	30.04	8.56	21.67	131.5	8.82	5.7	6.3
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS7	17:46	1.0	Surface	1	2	30.03	8.56	21.48	128.7	8.62	6.0	6.7
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS7	17:46	2.1	Bottom	3	1	30.03	8.56	21.88	126.5	8.50	5.9	5.2
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS7	17:46	2.1	Bottom	3	2	30.02	8.56	21.98	121.8	8.16	5.9	6.2
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS8	18:15	1.0	Surface	1	1	29.48	8.36	23.03	98.2	6.60	13.2	19.2
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS8	18:15	1.0	Surface	1	2	29.50	8.35	23.05	97.9	6.57	13.7	19.6
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS8	18:15	3.1	Bottom	3	1	29.49	8.35	23.12	96.9	6.51	13.8	18.9
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS8	18:15	3.1	Bottom	3	2	29.48	8.35	23.09	96.9	6.51	13.5	20.2
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS(MF)9	17:56	1.0	Surface	1	1	29.77	8.47	22.46	110.2	7.38	7.1	12.1
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS(MF)9	17:56	1.0	Surface	1	2	29.76	8.46	22.58	111.0	7.44	7.3	10.0
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS(MF)9	17:56	2.7	Bottom	3	1	29.71	8.46	22.84	108.1	7.25	7.3	10.6
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS(MF)9	17:55	2.7	Bottom	3	2	29.66	8.48	22.79	106.3	7.13	7.3	12.3
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS10(N)	18:11	1.0	Surface	1	1	29.50	7.85	23.94	92.7	6.20	9.3	11.3
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS10(N)	18:12	1.0	Surface	1	2	29.51	7.87	23.82	92.2	6.17	9.5	10.4
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS10(N)	18:12	5.3	Middle	2	1	28.93	7.80	26.16	77.7	5.18	10.1	12.5
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS10(N)	18:10	5.3	Middle	2	2	28.90	7.79	26.29	77.9	5.19	10.3	11.0
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS10(N)	18:11	9.6	Bottom	3	1	28.75	7.80	27.02	74.9	4.98	10.2	11.6
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	IS10(N)	18:10	9.6	Bottom	3	2	28.71	7.79	27.09	74.8	4.97	10.4	11.5
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR3(N)	17:16	1.0	Surface	1	1	30.00	8.57	20.17	123.7	8.37	6.4	10.5
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR3(N)	17:16	1.0	Surface	1	2	30.00	8.55	19.89	120.8	8.19	6.5	8.7
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR3(N)	17:15	2.1	Bottom	3	1	29.98	8.55	19.61	120.1	8.15	6.5	10.0
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR3(N)	17:16	2.1	Bottom	3	2	29.97	8.56	20.17	122.6	8.30	6.5	11.1
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR4(N)	18:09	1.0	Surface	1	1	29.40	8.38	23.01	98.4	6.62	11.5	20.2
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR4(N)	18:09	1.0	Surface	1	2	29.40	8.35	23.10	95.3	6.40	11.8	20.3
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR4(N)	18:09	2.9	Bottom	3	1	29.36	8.39	23.14	96.7	6.51	11.5	24.2
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR4(N)	18:09	2.9	Bottom	3	2	29.35	8.35	23.41	93.8	6.30	11.4	22.2
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR5(N)	18:01	1.0	Surface	1	1	29.28	7.85	24.90	91.0	6.07	8.6	8.1
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR5(N)	18:00	1.0	Surface	1	2	29.30	7.84	24.82	91.6	6.11	8.5	7.8
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR5(N)	17:59	4.1	Middle	2	1	29.26	7.83	25.00	86.7	5.78	9.2	7.4
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR5(N)	18:00	4.1	Middle	2	2	29.26	7.85	24.99	86.0	5.74	9.2	8.7
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR5(N)	18:00	7.2	Bottom	3	1	29.14	7.84	25.47	84.3	5.61	10.2	8.2
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR5(N)	17:59	7.2	Bottom	3	2	29.14	7.83	25.39	83.8	5.59	9.7	10.1
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR10A(N)	19:18	1.0	Surface	1	1	28.42	7.85	28.99	80.0	5.29	6.2	7.2
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR10A(N)	19:17	1.0	Surface	1	2	28.43	7.86	28.95	79.7	5.27	5.9	7.5
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR10A(N)	19:17	7.6	Middle	2	1	28.27	7.86	29.76	78.5	5.18	7.8	8.0
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR10A(N)	19:16	7.6	Middle	2	2	28.30	7.85	29.69	77.8	5.14	7.7	7.0
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR10A(N)	19:16	14.2	Bottom	3	1	28.09	7.84	30.72	75.0	4.95	8.0	11.0
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR10A(N)	19:17	14.2	Bottom	3	2	28.10	7.87	30.78	75.3	4.94	8.1	9.1
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR10B(N2)	19:28	1.0	Surface	1	1	28.04	7.84	32.12	80.9	5.29	7.7	16.5
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR10B(N2)	19:30	1.0	Surface	1	2	28.06	7.84	32.10	81.3	5.32	7.8	17.1
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR10B(N2)	19:29	3.9	Middle	2	1	28.05	7.88	32.24	78.7	5.15	8.5	17.3
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR10B(N2)	19:28	3.9	Middle	2	2	28.04	7.86	32.16	78.3	5.13	8.3	15.0

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR10B(N2)	19:29	6.8	Bottom	3	1	28.05	7.87	32.27	76.7	5.02	9.1	21.8
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	SR10B(N2)	19:27	6.8	Bottom	3	2	28.04	7.86	32.23	76.7	5.02	8.8	24.3
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	CS2(A)	17:00	1.0	Surface	1	1	29.73	7.84	21.52	79.0	5.33	10.1	8.6
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	CS2(A)	17:01	1.0	Surface	1	2	29.70	7.81	21.54	78.8	5.31	9.9	8.2
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	CS2(A)	17:01	3.9	Middle	2	1	29.67	7.83	22.27	77.2	5.20	11.5	12.0
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	CS2(A)	16:59	3.9	Middle	2	2	29.64	7.81	22.31	78.0	5.25	11.8	10.3
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	CS2(A)	16:59	6.8	Bottom	3	1	29.17	7.83	24.87	75.4	5.04	13.7	15.3
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	CS2(A)	17:00	6.8	Bottom	3	2	29.15	7.83	24.78	75.6	5.03	14.0	13.5
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	CS(Mf)5	18:45	1.0	Surface	1	1	29.11	8.28	24.52	79.6	5.28	4.1	7.9
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	CS(Mf)5	18:44	1.0	Surface	1	2	28.96	8.28	25.56	79.0	5.24	4.1	5.8
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	CS(Mf)5	18:45	6.6	Middle	2	1	28.32	8.26	28.70	75.7	5.07	4.8	7.8
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	CS(Mf)5	18:44	6.6	Middle	2	2	28.34	8.28	28.65	76.1	5.08	4.8	6.8
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	CS(Mf)5	18:45	12.2	Bottom	3	1	28.28	8.26	28.87	71.9	4.77	4.7	8.2
HKLR	HY/2011/03	2017-09-18	Mid-Flood	Fine	CS(Mf)5	18:43	12.2	Bottom	3	2	28.25	8.29	28.87	73.0	4.84	4.8	8.0
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS5	11:51	1.0	Surface	1	1	29.38	8.24	21.95	80.1	5.42	12.2	20.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS5	11:51	1.0	Surface	1	2	29.38	8.25	21.86	80.3	5.44	12.4	18.7
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS5	11:50	4.3	Middle	2	1	29.38	8.25	21.89	80.3	5.44	12.2	20.7
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS5	11:51	4.3	Middle	2	2	29.37	8.24	22.03	79.9	5.41	12.1	19.6
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS5	11:51	7.6	Bottom	3	1	29.37	8.24	21.97	80.1	5.42	12.6	24.9
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS5	11:50	7.6	Bottom	3	2	29.38	8.26	21.93	80.6	5.46	12.0	24.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)6	12:00	1.0	Surface	1	1	29.35	8.26	22.55	88.8	5.99	8.5	15.4
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)6	12:00	1.0	Surface	1	2	29.35	8.25	22.59	90.2	6.09	8.5	16.9
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)6	12:00	2.2	Bottom	3	1	29.35	8.27	22.54	86.2	5.82	8.5	18.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)6	12:00	2.2	Bottom	3	2	29.35	8.26	22.58	87.3	5.89	8.5	18.0
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS7	12:10	1.0	Surface	1	1	29.36	8.24	22.69	84.3	5.69	7.5	14.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS7	12:10	1.0	Surface	1	2	29.37	8.24	22.65	84.5	5.70	7.8	14.4
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS7	12:10	2.5	Bottom	3	1	29.35	8.25	22.67	84.7	5.71	8.2	19.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS7	12:10	2.5	Bottom	3	2	29.36	8.24	22.69	84.2	5.68	8.4	18.0
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS8	12:39	1.0	Surface	1	1	29.48	8.25	22.61	78.1	5.26	6.3	11.1
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS8	12:38	1.0	Surface	1	2	29.45	8.26	22.61	78.3	5.27	6.6	12.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS8	12:38	3.1	Bottom	3	1	29.35	8.25	23.06	78.3	5.27	7.3	15.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS8	12:38	3.1	Bottom	3	2	29.36	8.24	23.39	78.1	5.24	7.2	15.4
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)9	12:19	1.0	Surface	1	1	29.35	8.24	22.73	84.0	5.67	10.4	16.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)9	12:20	1.0	Surface	1	2	29.35	8.24	22.75	84.1	5.67	9.9	17.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)9	12:19	2.6	Bottom	3	1	29.35	8.24	22.74	84.1	5.67	10.0	18.0
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)9	12:19	2.6	Bottom	3	2	29.35	8.24	22.77	83.9	5.66	9.9	18.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS10(N)	12:38	1.0	Surface	1	1	29.60	7.75	23.28	75.8	5.07	5.4	7.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS10(N)	12:38	1.0	Surface	1	2	29.62	7.74	23.25	75.7	5.07	5.3	7.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS10(N)	12:38	5.5	Middle	2	1	29.50	7.79	23.53	75.3	5.05	5.5	8.4
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS10(N)	12:38	5.5	Middle	2	2	29.53	7.74	23.50	75.6	5.06	5.5	8.6
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS10(N)	12:38	9.9	Bottom	3	1	29.60	7.74	24.13	75.6	5.04	5.6	8.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS10(N)	12:37	9.9	Bottom	3	2	29.43	7.83	24.87	75.2	5.01	5.5	8.6
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR3(N)	11:42	1.0	Surface	1	1	29.40	8.46	20.61	87.5	5.97	12.4	19.5
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR3(N)	11:42	1.0	Surface	1	2	29.38	8.36	20.97	87.7	5.98	12.4	18.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR3(N)	11:41	3.2	Bottom	3	1	29.46	8.65	20.34	84.0	5.71	12.6	19.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR3(N)	11:42	3.2	Bottom	3	2	29.39	8.40	20.79	85.7	5.84	12.7	18.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR4(N)	12:28	1.0	Surface	1	1	29.42	8.32	22.17	83.5	5.64	5.9	8.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR4(N)	12:29	1.0	Surface	1	2	29.42	8.29	22.37	86.8	5.86	5.6	7.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR4(N)	12:29	2.8	Bottom	3	1	29.44	8.30	22.34	82.2	5.55	6.5	10.6
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR4(N)	12:28	2.8	Bottom	3	2	29.30	8.35	22.60	81.0	5.47	6.4	9.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR5(N)	12:32	1.0	Surface	1	1	29.57	7.90	23.38	80.9	5.40	5.4	9.5
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR5(N)	12:32	1.0	Surface	1	2	29.59	7.79	23.29	79.5	5.32	5.4	8.5

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR5(N)	12:32	4.2	Middle	2	1	29.52	7.82	23.52	78.4	5.25	5.6	10.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR5(N)	12:32	4.2	Middle	2	2	29.50	7.98	23.61	77.6	5.17	5.5	9.4
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR5(N)	12:31	7.4	Bottom	3	1	29.44	7.98	24.40	76.5	5.12	5.7	9.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR5(N)	12:32	7.4	Bottom	3	2	29.52	7.84	24.42	76.5	5.12	5.8	10.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10A(N)	13:19	1.0	Surface	1	1	28.99	7.99	26.34	79.7	5.28	4.1	7.1
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10A(N)	13:19	1.0	Surface	1	2	29.10	7.89	26.61	81.7	5.41	4.2	6.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10A(N)	13:19	6.9	Middle	2	1	29.07	7.91	26.72	78.9	5.24	4.3	10.1
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10A(N)	13:19	6.9	Middle	2	2	28.92	8.05	27.41	78.7	5.22	4.4	8.9
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10A(N)	13:19	12.8	Bottom	3	1	29.03	7.94	26.91	77.7	5.15	4.5	9.1
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10A(N)	13:19	12.8	Bottom	3	2	28.90	7.99	27.52	78.1	5.17	4.5	9.7
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10B(N2)	13:25	1.0	Surface	1	1	29.07	7.80	26.85	76.8	5.09	4.3	7.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10B(N2)	13:25	1.0	Surface	1	2	29.03	7.81	26.87	76.7	5.08	4.2	8.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10B(N2)	13:25	3.8	Middle	2	1	29.08	7.80	26.80	76.4	5.06	4.3	10.0
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10B(N2)	13:25	3.8	Middle	2	2	29.01	7.82	27.00	76.4	5.06	4.4	9.1
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10B(N2)	13:25	6.6	Bottom	3	1	29.00	7.86	27.03	76.2	5.05	4.6	12.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10B(N2)	13:25	6.6	Bottom	3	2	29.08	7.80	26.78	76.1	5.04	4.5	13.0
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS2(A)	11:38	1.0	Surface	1	1	28.94	7.91	27.68	79.1	5.22	9.5	13.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS2(A)	11:38	1.0	Surface	1	2	28.98	7.98	27.67	79.3	5.24	9.4	13.6
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS2(A)	11:38	4.0	Middle	2	1	28.93	8.04	27.80	76.0	5.02	9.6	12.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS2(A)	11:38	4.0	Middle	2	2	28.90	7.94	27.82	77.0	5.08	9.6	13.6
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS2(A)	11:38	6.9	Bottom	3	1	28.96	7.96	27.77	73.9	4.88	9.8	15.9
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS2(A)	11:38	6.9	Bottom	3	2	28.87	7.99	28.20	74.6	4.93	9.9	15.1
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS(Mf)5	13:08	1.0	Surface	1	1	29.50	8.23	22.85	79.8	5.41	6.6	9.0
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS(Mf)5	13:07	1.0	Surface	1	2	29.44	8.23	22.91	80.2	5.43	6.7	10.9
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS(Mf)5	13:08	6.2	Middle	2	1	29.05	8.22	24.65	76.0	5.11	8.7	11.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS(Mf)5	13:07	6.2	Middle	2	2	29.03	8.22	24.65	75.5	5.08	8.9	12.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS(Mf)5	13:08	11.4	Bottom	3	1	29.04	8.22	24.75	75.1	5.04	8.9	12.7
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS(Mf)5	13:07	11.4	Bottom	3	2	29.03	8.22	24.66	74.6	5.01	9.2	12.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS5	6:58	1.0	Surface	1	1	29.21	8.26	23.64	90.4	6.08	6.5	13.7
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS5	6:59	1.0	Surface	1	2	29.17	8.26	23.58	92.0	6.19	6.3	13.7
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS5	6:58	4.4	Middle	2	1	29.22	8.26	23.65	88.3	5.94	7.0	12.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS5	6:58	4.4	Middle	2	2	29.22	8.26	23.71	89.8	6.03	6.7	11.9
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS5	6:58	7.7	Bottom	3	1	29.21	8.27	23.62	88.8	5.97	7.2	14.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS5	6:58	7.7	Bottom	3	2	29.21	8.26	23.69	89.4	6.01	6.8	16.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)6	6:51	1.0	Surface	1	1	29.18	8.26	23.62	90.6	6.10	5.3	6.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)6	6:52	1.0	Surface	1	2	29.18	8.26	23.63	90.5	6.09	5.5	6.1
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)6	6:51	2.4	Bottom	3	1	29.18	8.26	23.64	90.5	6.09	5.4	8.7
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)6	6:51	2.4	Bottom	3	2	29.19	8.26	23.65	90.6	6.10	5.0	8.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS7	6:42	1.0	Surface	1	1	29.15	8.24	23.48	93.8	6.32	5.0	5.0
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS7	6:42	1.0	Surface	1	2	29.17	8.25	23.55	96.6	6.52	5.3	6.3
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS7	6:42	2.3	Bottom	3	1	29.11	8.23	23.40	91.7	6.17	4.9	6.7
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS7	6:42	2.3	Bottom	3	2	29.18	8.24	23.57	92.5	6.23	5.2	7.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS8	6:16	1.0	Surface	1	1	29.23	8.19	22.75	84.8	5.73	7.7	8.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS8	6:16	1.0	Surface	1	2	29.22	8.18	22.90	87.5	5.90	7.5	7.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS8	6:16	2.8	Bottom	3	1	29.20	8.19	23.13	82.1	5.54	7.8	7.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS8	6:16	2.8	Bottom	3	2	29.21	8.18	23.12	82.8	5.58	7.8	8.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)9	6:35	1.0	Surface	1	1	29.12	8.21	23.30	89.6	6.05	5.6	7.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)9	6:35	1.0	Surface	1	2	29.12	8.20	23.31	88.2	5.90	5.6	7.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)9	6:35	2.6	Bottom	3	1	29.13	8.20	23.50	87.0	5.86	5.3	10.3
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)9	6:35	2.6	Bottom	3	2	29.11	8.21	23.46	85.5	5.77	5.5	11.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS10(N)	6:28	1.0	Surface	1	1	29.07	7.60	24.18	80.2	5.39	6.3	8.3
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS10(N)	6:29	1.0	Surface	1	2	29.05	7.62	24.09	83.4	5.57	6.3	8.8

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS10(N)	6:29	5.5	Middle	2	1	29.06	7.61	24.37	79.3	5.33	6.4	8.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS10(N)	6:28	5.5	Middle	2	2	29.06	7.60	24.29	78.1	5.22	6.6	8.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS10(N)	6:28	9.9	Bottom	3	1	29.04	7.67	25.39	77.1	5.18	6.8	12.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS10(N)	6:28	9.9	Bottom	3	2	29.02	7.60	25.26	77.5	5.22	6.7	12.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR3(N)	7:07	1.0	Surface	1	1	29.18	8.26	23.61	87.8	5.91	5.3	9.7
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR3(N)	7:07	1.0	Surface	1	2	29.20	8.26	23.66	87.5	5.89	5.6	10.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR3(N)	7:07	3.1	Bottom	3	1	29.20	8.26	23.68	87.6	5.89	5.8	13.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR3(N)	7:07	3.1	Bottom	3	2	29.22	8.26	23.69	87.8	5.90	5.8	13.1
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR4(N)	6:25	1.0	Surface	1	1	29.23	8.17	22.78	79.8	5.39	7.1	9.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR4(N)	6:24	1.0	Surface	1	2	29.22	8.18	22.95	80.1	5.41	7.2	11.0
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR4(N)	6:25	2.8	Bottom	3	1	29.23	8.17	22.98	79.9	5.39	7.4	13.0
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR4(N)	6:24	2.8	Bottom	3	2	29.20	8.17	23.29	80.3	5.41	7.6	13.3
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR5(N)	6:37	1.0	Surface	1	1	29.07	7.62	24.82	79.4	5.31	6.1	10.9
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR5(N)	6:37	1.0	Surface	1	2	29.08	7.63	24.65	79.6	5.35	6.1	9.9
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR5(N)	6:37	4.3	Middle	2	1	29.00	7.61	25.31	75.4	5.02	6.3	9.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR5(N)	6:37	4.3	Middle	2	2	29.02	7.62	25.24	76.7	5.14	6.2	9.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR5(N)	6:36	7.6	Bottom	3	1	28.95	7.61	25.83	74.4	4.98	6.5	13.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR5(N)	6:37	7.6	Bottom	3	2	29.06	7.61	25.84	74.4	4.99	6.6	14.3
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10A(N)	5:37	1.0	Surface	1	1	29.08	7.63	25.27	76.0	5.07	4.3	5.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10A(N)	5:37	1.0	Surface	1	2	29.07	7.61	24.95	75.9	5.08	4.2	5.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10A(N)	5:37	7	Middle	2	1	28.95	7.62	25.51	75.4	5.04	4.4	8.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10A(N)	5:36	7	Middle	2	2	29.03	7.60	25.40	75.8	5.03	4.4	7.1
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10A(N)	5:37	12.9	Bottom	3	1	28.97	7.61	26.87	75.3	5.03	4.6	8.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10A(N)	5:36	12.9	Bottom	3	2	28.80	7.57	27.28	74.8	4.97	4.7	9.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10B(N2)	5:24	1.0	Surface	1	1	29.06	7.56	25.30	76.1	5.08	4.2	5.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10B(N2)	5:23	1.0	Surface	1	2	29.07	7.53	25.26	75.8	5.07	4.1	6.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10B(N2)	5:23	3.9	Middle	2	1	28.92	7.57	25.50	75.5	5.05	4.3	6.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10B(N2)	5:23	3.9	Middle	2	2	28.93	7.55	25.52	76.1	5.04	4.3	7.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10B(N2)	5:23	6.7	Bottom	3	1	28.73	7.57	27.75	73.9	4.90	4.4	9.9
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10B(N2)	5:23	6.7	Bottom	3	2	29.03	7.53	27.10	74.3	4.97	4.5	10.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS2(A)	7:28	1.0	Surface	1	1	29.07	7.68	24.66	75.6	5.07	6.3	11.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS2(A)	7:29	1.0	Surface	1	2	29.02	7.69	24.49	75.7	5.01	6.4	11.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS2(A)	7:28	4.0	Middle	2	1	29.06	7.72	25.34	75.1	5.04	6.7	11.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS2(A)	7:28	4.0	Middle	2	2	29.06	7.67	25.18	75.6	5.06	6.6	10.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS2(A)	7:28	6.9	Bottom	3	1	28.98	7.66	27.17	75.1	4.99	6.9	12.9
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS2(A)	7:28	6.9	Bottom	3	2	29.07	7.69	26.45	75.1	5.01	6.8	14.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS(Mf)5	5:46	1.0	Surface	1	1	29.28	8.12	24.38	81.9	5.43	4.6	6.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS(Mf)5	5:47	1.0	Surface	1	2	29.30	8.13	23.51	85.4	5.60	4.4	6.9
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS(Mf)5	5:46	6.2	Middle	2	1	29.19	8.12	25.14	78.2	5.26	5.0	6.3
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS(Mf)5	5:46	6.2	Middle	2	2	29.17	8.10	26.38	80.5	5.39	5.1	7.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS(Mf)5	5:46	11.4	Bottom	3	1	28.96	8.10	28.88	78.2	5.22	6.0	6.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS(Mf)5	5:46	11.4	Bottom	3	2	29.14	8.11	26.34	78.5	5.21	5.8	7.4
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS5	11:51	1.0	Surface	1	1	29.38	8.24	21.95	80.1	5.42	12.2	20.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS5	11:51	1.0	Surface	1	2	29.38	8.25	21.86	80.3	5.44	12.4	18.7
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS5	11:50	4.3	Middle	2	1	29.38	8.25	21.89	80.3	5.44	12.2	20.7
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS5	11:51	4.3	Middle	2	2	29.37	8.24	22.03	79.9	5.41	12.1	19.6
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS5	11:51	7.6	Bottom	3	1	29.37	8.24	21.97	80.1	5.42	12.6	24.9
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS5	11:50	7.6	Bottom	3	2	29.38	8.26	21.93	80.6	5.46	12.0	24.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)6	12:00	1.0	Surface	1	1	29.35	8.26	22.55	88.8	5.99	8.5	15.4
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)6	12:00	1.0	Surface	1	2	29.35	8.25	22.59	90.2	6.09	8.5	16.9
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)6	12:00	2.2	Bottom	3	1	29.35	8.27	22.54	86.2	5.82	8.5	18.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)6	12:00	2.2	Bottom	3	2	29.35	8.26	22.58	87.3	5.89	8.5	18.0

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS7	12:10	1.0	Surface	1	1	29.36	8.24	22.69	84.3	5.69	7.5	14.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS7	12:10	1.0	Surface	1	2	29.37	8.24	22.65	84.5	5.70	7.8	14.4
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS7	12:10	2.5	Bottom	3	1	29.35	8.25	22.67	84.7	5.71	8.2	19.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS7	12:10	2.5	Bottom	3	2	29.36	8.24	22.69	84.2	5.68	8.4	18.0
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS8	12:39	1.0	Surface	1	1	29.48	8.25	22.61	78.1	5.26	6.3	11.1
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS8	12:38	1.0	Surface	1	2	29.45	8.26	22.61	78.3	5.27	6.6	12.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS8	12:38	3.1	Bottom	3	1	29.35	8.25	23.06	78.3	5.27	7.3	15.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS8	12:38	3.1	Bottom	3	2	29.36	8.24	23.39	78.1	5.24	7.2	15.4
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)9	12:19	1.0	Surface	1	1	29.35	8.24	22.73	84.0	5.67	10.4	16.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)9	12:20	1.0	Surface	1	2	29.35	8.24	22.75	84.1	5.67	9.9	17.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)9	12:19	2.6	Bottom	3	1	29.35	8.24	22.74	84.1	5.67	10.0	18.0
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS(Mf)9	12:19	2.6	Bottom	3	2	29.35	8.24	22.77	83.9	5.66	9.9	18.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS10(N)	12:38	1.0	Surface	1	1	29.60	7.75	23.28	75.8	5.07	5.4	7.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS10(N)	12:38	1.0	Surface	1	2	29.62	7.74	23.25	75.7	5.07	5.3	7.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS10(N)	12:38	5.5	Middle	2	1	29.50	7.79	23.53	75.3	5.05	5.5	8.4
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS10(N)	12:38	5.5	Middle	2	2	29.53	7.74	23.50	75.6	5.06	5.5	8.6
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS10(N)	12:38	9.9	Bottom	3	1	29.60	7.74	24.13	75.6	5.04	5.6	8.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	IS10(N)	12:37	9.9	Bottom	3	2	29.43	7.83	24.87	75.2	5.01	5.5	8.6
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR3(N)	11:42	1.0	Surface	1	1	29.40	8.46	20.61	87.5	5.97	12.4	19.5
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR3(N)	11:42	1.0	Surface	1	2	29.38	8.36	20.97	87.7	5.98	12.4	18.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR3(N)	11:41	3.2	Bottom	3	1	29.46	8.65	20.34	84.0	5.71	12.6	19.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR3(N)	11:42	3.2	Bottom	3	2	29.39	8.40	20.79	85.7	5.84	12.7	18.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR4(N)	12:28	1.0	Surface	1	1	29.42	8.32	22.17	83.5	5.64	5.9	8.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR4(N)	12:29	1.0	Surface	1	2	29.42	8.29	22.37	86.8	5.86	5.6	7.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR4(N)	12:29	2.8	Bottom	3	1	29.44	8.30	22.34	82.2	5.55	6.5	10.6
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR4(N)	12:28	2.8	Bottom	3	2	29.30	8.35	22.60	81.0	5.47	6.4	9.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR5(N)	12:32	1.0	Surface	1	1	29.57	7.90	23.38	80.9	5.40	5.4	9.5
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR5(N)	12:32	1.0	Surface	1	2	29.59	7.79	23.29	79.5	5.32	5.4	8.5
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR5(N)	12:32	4.2	Middle	2	1	29.52	7.82	23.52	78.4	5.25	5.6	10.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR5(N)	12:32	4.2	Middle	2	2	29.50	7.98	23.61	77.6	5.17	5.5	9.4
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR5(N)	12:31	7.4	Bottom	3	1	29.44	7.98	24.40	76.5	5.12	5.7	9.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR5(N)	12:32	7.4	Bottom	3	2	29.52	7.84	24.42	76.5	5.12	5.8	10.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10A(N)	13:19	1.0	Surface	1	1	28.99	7.99	26.34	79.7	5.28	4.1	7.1
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10A(N)	13:19	1.0	Surface	1	2	29.10	7.89	26.61	81.7	5.41	4.2	6.3
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10A(N)	13:19	6.9	Middle	2	1	29.07	7.91	26.72	78.9	5.24	4.3	10.1
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10A(N)	13:19	6.9	Middle	2	2	28.92	8.05	27.41	78.7	5.22	4.4	8.9
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10A(N)	13:19	12.8	Bottom	3	1	29.03	7.94	26.91	77.7	5.15	4.5	9.1
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10A(N)	13:19	12.8	Bottom	3	2	28.90	7.99	27.52	78.1	5.17	4.5	9.7
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10B(N2)	13:25	1.0	Surface	1	1	29.07	7.80	26.85	76.8	5.09	4.3	7.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10B(N2)	13:25	1.0	Surface	1	2	29.03	7.81	26.87	76.7	5.08	4.2	8.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10B(N2)	13:25	3.8	Middle	2	1	29.08	7.80	26.80	76.4	5.06	4.3	10.0
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10B(N2)	13:25	3.8	Middle	2	2	29.01	7.82	27.00	76.4	5.06	4.4	9.1
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10B(N2)	13:25	6.6	Bottom	3	1	29.00	7.86	27.03	76.2	5.05	4.6	12.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	SR10B(N2)	13:25	6.6	Bottom	3	2	29.08	7.80	26.78	76.1	5.04	4.5	13.0
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS2(A)	11:38	1.0	Surface	1	1	28.94	7.91	27.68	79.1	5.22	9.5	13.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS2(A)	11:38	1.0	Surface	1	2	28.98	7.98	27.67	79.3	5.24	9.4	13.6
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS2(A)	11:38	4.0	Middle	2	1	28.93	8.04	27.80	76.0	5.02	9.6	12.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS2(A)	11:38	4.0	Middle	2	2	28.90	7.94	27.82	77.0	5.08	9.6	13.6
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS2(A)	11:38	6.9	Bottom	3	1	28.96	7.96	27.77	73.9	4.88	9.8	15.9
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS2(A)	11:38	6.9	Bottom	3	2	28.87	7.99	28.20	74.6	4.93	9.9	15.1
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS(Mf)5	13:08	1.0	Surface	1	1	29.50	8.23	22.85	79.8	5.41	6.6	9.0
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS(Mf)5	13:07	1.0	Surface	1	2	29.44	8.23	22.91	80.2	5.43	6.7	10.9

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS(Mf)5	13:08	6.2	Middle	2	1	29.05	8.22	24.65	76.0	5.11	8.7	11.8
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS(Mf)5	13:07	6.2	Middle	2	2	29.03	8.22	24.65	75.5	5.08	8.9	12.2
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS(Mf)5	13:08	11.4	Bottom	3	1	29.04	8.22	24.75	75.1	5.04	8.9	12.7
HKLR	HY/2011/03	2017-09-20	Mid-Ebb	Fine	CS(Mf)5	13:07	11.4	Bottom	3	2	29.03	8.22	24.66	74.6	5.01	9.2	12.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS5	6:58	1.0	Surface	1	1	29.21	8.26	23.64	90.4	6.08	6.5	13.7
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS5	6:59	1.0	Surface	1	2	29.17	8.26	23.58	92.0	6.19	6.3	13.7
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS5	6:58	4.4	Middle	2	1	29.22	8.26	23.65	88.3	5.94	7.0	12.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS5	6:58	4.4	Middle	2	2	29.22	8.26	23.71	89.8	6.03	6.7	11.9
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS5	6:58	7.7	Bottom	3	1	29.21	8.27	23.62	88.8	5.97	7.2	14.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS5	6:58	7.7	Bottom	3	2	29.21	8.26	23.69	89.4	6.01	6.8	16.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)6	6:51	1.0	Surface	1	1	29.18	8.26	23.62	90.6	6.10	5.3	6.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)6	6:52	1.0	Surface	1	2	29.18	8.26	23.63	90.5	6.09	5.5	6.1
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)6	6:51	2.4	Bottom	3	1	29.18	8.26	23.64	90.5	6.09	5.4	8.7
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)6	6:51	2.4	Bottom	3	2	29.19	8.26	23.65	90.6	6.10	5.0	8.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS7	6:42	1.0	Surface	1	1	29.15	8.24	23.48	93.8	6.32	5.0	5.0
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS7	6:42	1.0	Surface	1	2	29.17	8.25	23.55	96.6	6.52	5.3	6.3
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS7	6:42	2.3	Bottom	3	1	29.11	8.23	23.40	91.7	6.17	4.9	6.7
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS7	6:42	2.3	Bottom	3	2	29.18	8.24	23.57	92.5	6.23	5.2	7.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS8	6:16	1.0	Surface	1	1	29.23	8.19	22.75	84.8	5.73	7.7	8.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS8	6:16	1.0	Surface	1	2	29.22	8.18	22.90	87.5	5.90	7.5	7.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS8	6:16	2.8	Bottom	3	1	29.20	8.19	23.13	82.1	5.54	7.8	7.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS8	6:16	2.8	Bottom	3	2	29.21	8.18	23.12	82.8	5.58	7.8	8.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)9	6:35	1.0	Surface	1	1	29.12	8.21	23.30	89.6	6.05	5.6	7.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)9	6:35	1.0	Surface	1	2	29.12	8.20	23.31	88.2	5.90	5.6	7.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)9	6:35	2.6	Bottom	3	1	29.13	8.20	23.50	87.0	5.86	5.3	10.3
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS(Mf)9	6:35	2.6	Bottom	3	2	29.11	8.21	23.46	85.5	5.77	5.5	11.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS10(N)	6:28	1.0	Surface	1	1	29.07	7.60	24.18	80.2	5.39	6.3	8.3
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS10(N)	6:29	1.0	Surface	1	2	29.05	7.62	24.09	83.4	5.57	6.3	8.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS10(N)	6:29	5.5	Middle	2	1	29.06	7.61	24.37	79.3	5.33	6.4	8.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS10(N)	6:28	5.5	Middle	2	2	29.06	7.60	24.29	78.1	5.22	6.6	8.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS10(N)	6:28	9.9	Bottom	3	1	29.04	7.67	25.39	77.1	5.18	6.8	12.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	IS10(N)	6:28	9.9	Bottom	3	2	29.02	7.60	25.26	77.5	5.22	6.7	12.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR3(N)	7:07	1.0	Surface	1	1	29.18	8.26	23.61	87.8	5.91	5.3	9.7
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR3(N)	7:07	1.0	Surface	1	2	29.20	8.26	23.66	87.5	5.89	5.6	10.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR3(N)	7:07	3.1	Bottom	3	1	29.20	8.26	23.68	87.6	5.89	5.8	13.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR3(N)	7:07	3.1	Bottom	3	2	29.22	8.26	23.69	87.8	5.90	5.8	13.1
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR4(N)	6:25	1.0	Surface	1	1	29.23	8.17	22.78	79.8	5.39	7.1	9.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR4(N)	6:24	1.0	Surface	1	2	29.22	8.18	22.95	80.1	5.41	7.2	11.0
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR4(N)	6:25	2.8	Bottom	3	1	29.23	8.17	22.98	79.9	5.39	7.4	13.0
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR4(N)	6:24	2.8	Bottom	3	2	29.20	8.17	23.29	80.3	5.41	7.6	13.3
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR5(N)	6:37	1.0	Surface	1	1	29.07	7.62	24.82	79.4	5.31	6.1	10.9
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR5(N)	6:37	1.0	Surface	1	2	29.08	7.63	24.65	79.6	5.35	6.1	9.9
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR5(N)	6:37	4.3	Middle	2	1	29.00	7.61	25.31	75.4	5.02	6.3	9.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR5(N)	6:37	4.3	Middle	2	2	29.02	7.62	25.24	76.7	5.14	6.2	9.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR5(N)	6:36	7.6	Bottom	3	1	28.95	7.61	25.83	74.4	4.98	6.5	13.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR5(N)	6:37	7.6	Bottom	3	2	29.06	7.61	25.84	74.4	4.99	6.6	14.3
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10A(N)	5:37	1.0	Surface	1	1	29.08	7.63	25.27	76.0	5.07	4.3	5.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10A(N)	5:37	1.0	Surface	1	2	29.07	7.61	24.95	75.9	5.08	4.2	5.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10A(N)	5:37	7	Middle	2	1	28.95	7.62	25.51	75.4	5.04	4.4	8.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10A(N)	5:36	7	Middle	2	2	29.03	7.60	25.40	75.8	5.03	4.4	7.1
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10A(N)	5:37	12.9	Bottom	3	1	28.97	7.61	26.87	75.3	5.03	4.6	8.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10A(N)	5:36	12.9	Bottom	3	2	28.80	7.57	27.28	74.8	4.97	4.7	9.2

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10B(N2)	5:24	1.0	Surface	1	1	29.06	7.56	25.30	76.1	5.08	4.2	5.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10B(N2)	5:23	1.0	Surface	1	2	29.07	7.53	25.26	75.8	5.07	4.1	6.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10B(N2)	5:23	3.9	Middle	2	1	28.92	7.57	25.50	75.5	5.05	4.3	6.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10B(N2)	5:23	3.9	Middle	2	2	28.93	7.55	25.52	76.1	5.04	4.3	7.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10B(N2)	5:23	6.7	Bottom	3	1	28.73	7.57	27.75	73.9	4.90	4.4	9.9
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	SR10B(N2)	5:23	6.7	Bottom	3	2	29.03	7.53	27.10	74.3	4.97	4.5	10.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS2(A)	7:28	1.0	Surface	1	1	29.07	7.68	24.66	75.6	5.07	6.3	11.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS2(A)	7:29	1.0	Surface	1	2	29.02	7.69	24.49	75.7	5.01	6.4	11.8
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS2(A)	7:28	4.0	Middle	2	1	29.06	7.72	25.34	75.1	5.04	6.7	11.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS2(A)	7:28	4.0	Middle	2	2	29.06	7.67	25.18	75.6	5.06	6.6	10.4
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS2(A)	7:28	6.9	Bottom	3	1	28.98	7.66	27.17	75.1	4.99	6.9	12.9
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS2(A)	7:28	6.9	Bottom	3	2	29.07	7.69	26.45	75.1	5.01	6.8	14.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS(Mf)5	5:46	1.0	Surface	1	1	29.28	8.12	24.38	81.9	5.43	4.6	6.5
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS(Mf)5	5:47	1.0	Surface	1	2	29.30	8.13	23.51	85.4	5.60	4.4	6.9
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS(Mf)5	5:46	6.2	Middle	2	1	29.19	8.12	25.14	78.2	5.26	5.0	6.3
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS(Mf)5	5:46	6.2	Middle	2	2	29.17	8.10	26.38	80.5	5.39	5.1	7.2
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS(Mf)5	5:46	11.4	Bottom	3	1	28.96	8.10	28.88	78.2	5.22	6.0	6.6
HKLR	HY/2011/03	2017-09-20	Mid-Flood	Fine	CS(Mf)5	5:46	11.4	Bottom	3	2	29.14	8.11	26.34	78.5	5.21	5.8	7.4
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS5	13:02	1.0	Surface	1	1	29.51	8.21	23.02	78.1	5.27	9.4	10.4
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS5	13:03	1.0	Surface	1	2	29.57	8.21	23.13	78.0	5.25	9.7	10.6
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS5	13:02	4.3	Middle	2	1	29.50	8.22	23.01	78.1	5.27	9.7	10.7
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS5	13:03	4.3	Middle	2	2	29.51	8.21	23.17	77.8	5.24	9.8	11.9
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS5	13:02	7.5	Bottom	3	1	29.49	8.22	22.98	78.2	5.28	10.6	11.2
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS5	13:03	7.5	Bottom	3	2	29.50	8.21	23.13	77.8	5.25	10.2	10.3
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS(Mf)6	13:15	1.0	Surface	1	1	29.70	8.20	23.00	83.8	5.64	7.7	4.1
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS(Mf)6	13:16	1.0	Surface	1	2	29.62	8.19	23.12	88.4	5.95	7.5	5.4
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS(Mf)6	13:16	2.5	Bottom	3	1	29.58	8.19	23.20	81.5	5.48	8.4	11.0
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS(Mf)6	13:15	2.5	Bottom	3	2	29.66	8.22	23.00	80.0	5.38	8.5	11.8
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS7	13:29	1.0	Surface	1	1	29.87	8.19	22.87	83.0	5.57	5.4	7.3
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS7	13:28	1.0	Surface	1	2	29.74	8.20	22.91	82.8	5.57	5.8	7.6
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS7	13:28	2.7	Bottom	3	1	29.62	8.20	23.16	82.0	5.52	5.8	6.0
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS7	13:28	2.7	Bottom	3	2	29.53	8.21	23.17	83.5	5.62	6.0	6.3
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS8	14:05	1.0	Surface	1	1	30.00	8.18	22.71	80.4	5.39	5.3	6.6
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS8	14:05	1.0	Surface	1	2	29.92	8.18	22.76	79.9	5.36	5.1	5.8
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS8	14:05	3.0	Bottom	3	1	29.48	8.18	23.38	79.1	5.32	6.2	5.7
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS8	14:05	3.0	Bottom	3	2	29.80	8.18	23.11	79.8	5.35	5.9	5.8
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS(Mf)9	13:40	1.0	Surface	1	1	29.86	8.21	22.62	83.8	5.65	5.7	6.3
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS(Mf)9	13:40	1.0	Surface	1	2	29.75	8.22	22.65	83.0	5.58	6.3	4.5
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS(Mf)9	13:40	2.8	Bottom	3	1	29.49	8.23	23.07	81.9	5.51	7.2	7.3
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS(Mf)9	13:40	2.8	Bottom	3	2	29.74	8.21	22.90	82.1	5.52	6.7	6.9
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS10(N)	14:00	1.0	Surface	1	1	29.97	7.72	23.90	78.4	5.18	11.9	7.3
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS10(N)	14:01	1.0	Surface	1	2	30.02	7.73	23.78	77.3	5.11	11.5	8.6
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS10(N)	13:59	6.3	Middle	2	1	29.26	7.70	25.64	76.4	5.07	15.8	7.4
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS10(N)	14:00	6.3	Middle	2	2	29.24	7.72	25.75	76.4	5.07	15.6	7.9
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS10(N)	13:59	11.6	Bottom	3	1	29.09	7.68	27.24	74.6	4.96	15.6	9.9
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	IS10(N)	14:00	11.6	Bottom	3	2	29.12	7.70	27.14	72.4	4.78	15.4	9.1
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR3(N)	12:55	1.0	Surface	1	1	29.50	8.24	22.58	87.9	5.95	9.0	10.9
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR3(N)	12:54	1.0	Surface	1	2	29.51	8.24	22.30	83.4	5.64	8.9	11.2
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR3(N)	12:54	3.0	Bottom	3	1	29.50	8.25	22.50	81.1	5.49	9.8	13.3
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR3(N)	12:54	3.0	Bottom	3	2	29.50	8.24	22.08	80.3	5.43	9.3	12.9
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR4(N)	13:55	1.0	Surface	1	1	29.90	8.18	22.71	87.3	5.88	5.9	5.2
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR4(N)	13:54	1.0	Surface	1	2	29.76	8.19	22.80	85.6	5.76	6.3	4.1

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR4(N)	13:54	2.9	Bottom	3	1	29.52	8.19	23.19	82.5	5.54	7.7	8.8
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR4(N)	13:55	2.9	Bottom	3	2	29.70	8.18	23.10	83.1	5.59	7.4	8.8
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR5(N)	13:48	1.0	Surface	1	1	30.03	7.76	22.82	76.0	5.06	7.7	5.2
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR5(N)	13:48	1.0	Surface	1	2	30.09	7.76	22.70	76.8	5.12	7.9	4.9
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR5(N)	13:48	5.1	Middle	2	1	29.54	7.81	23.90	75.7	5.01	15.5	6.3
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR5(N)	13:47	5.1	Middle	2	2	29.53	7.83	23.92	76.4	5.07	15.5	6.3
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR5(N)	13:48	9.1	Bottom	3	1	29.53	7.77	25.73	74.7	4.99	19.9	5.3
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR5(N)	13:47	9.1	Bottom	3	2	29.28	7.80	25.89	76.0	5.04	20.2	5.9
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR10A(N)	14:52	1.0	Surface	1	1	29.23	7.76	27.09	78.1	5.11	6.1	6.6
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR10A(N)	14:53	1.0	Surface	1	2	29.32	7.75	26.64	78.6	5.18	6.2	6.7
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR10A(N)	14:53	7.0	Middle	2	1	29.33	7.73	26.68	76.7	5.04	6.2	7.3
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR10A(N)	14:51	7.0	Middle	2	2	29.24	7.76	27.03	77.2	5.08	6.0	8.9
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR10A(N)	14:51	12.9	Bottom	3	1	29.21	7.78	27.36	77.0	5.07	6.1	8.1
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR10A(N)	14:52	12.9	Bottom	3	2	29.25	7.74	27.00	75.0	4.95	6.2	9.0
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR10B(N2)	15:02	1.0	Surface	1	1	29.32	7.70	26.88	79.6	5.24	6.2	8.7
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR10B(N2)	15:03	1.0	Surface	1	2	29.31	7.72	26.95	80.0	5.27	6.1	8.4
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR10B(N2)	15:01	4.4	Middle	2	1	29.32	7.69	26.87	76.1	5.03	6.0	8.4
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR10B(N2)	15:03	4.4	Middle	2	2	29.30	7.72	26.96	76.6	5.04	6.1	9.0
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR10B(N2)	15:01	7.7	Bottom	3	1	29.28	7.69	27.25	75.5	4.98	6.2	8.8
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	SR10B(N2)	15:02	7.7	Bottom	3	2	29.28	7.73	27.12	75.7	4.99	6.2	8.4
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	CS2(A)	12:47	1.0	Surface	1	1	29.38	7.69	26.71	77.3	5.09	4.5	3.5
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	CS2(A)	12:48	1.0	Surface	1	2	29.33	7.71	26.78	76.8	5.05	4.3	4.1
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	CS2(A)	12:47	4.0	Middle	2	1	28.89	7.73	28.83	77.6	5.02	8.3	5.6
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	CS2(A)	12:46	4.0	Middle	2	2	28.89	7.70	28.86	76.5	5.01	8.4	4.2
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	CS2(A)	12:45	7.0	Bottom	3	1	28.89	7.66	28.97	74.9	4.92	10.6	6.3
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	CS2(A)	12:47	7.0	Bottom	3	2	28.92	7.72	28.91	75.1	4.93	10.4	4.7
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	CS(Mf)5	14:29	1.0	Surface	1	1	29.88	8.21	22.37	80.6	5.43	6.3	6.6
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	CS(Mf)5	14:29	1.0	Surface	1	2	29.66	8.22	23.07	77.7	5.23	6.0	6.4
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	CS(Mf)5	14:28	6.3	Middle	2	1	29.37	8.24	23.78	74.4	5.01	8.2	5.7
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	CS(Mf)5	14:29	6.3	Middle	2	2	29.36	8.20	24.10	76.2	5.13	7.8	6.2
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	CS(Mf)5	14:28	11.6	Bottom	3	1	29.37	8.25	23.69	73.4	4.93	8.3	10.0
HKLR	HY/2011/03	2017-09-22	Mid-Ebb	Fine	CS(Mf)5	14:29	11.6	Bottom	3	2	29.42	8.21	23.92	74.6	5.02	7.8	11.2
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS5	8:51	1.0	Surface	1	1	29.34	8.16	23.05	82.4	5.57	8.2	10.7
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS5	8:52	1.0	Surface	1	2	29.34	8.15	23.06	84.6	5.71	8.0	11.5
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS5	8:51	4.2	Middle	2	1	29.37	8.16	23.16	81.1	5.48	8.5	13.0
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS5	8:52	4.2	Middle	2	2	29.38	8.15	23.18	79.7	5.38	8.5	12.2
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS5	8:52	7.4	Bottom	3	1	29.38	8.15	23.19	80.0	5.40	8.7	15.5
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS5	8:51	7.4	Bottom	3	2	29.37	8.16	23.16	79.5	5.37	8.7	14.9
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS(Mf)6	8:42	1.0	Surface	1	1	29.33	8.15	23.03	78.9	5.33	11.0	20.8
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS(Mf)6	8:42	1.0	Surface	1	2	29.31	8.15	22.95	79.6	5.39	10.6	21.3
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS(Mf)6	8:41	2.3	Bottom	3	1	29.34	8.15	23.06	80.1	5.41	12.5	20.3
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS(Mf)6	8:42	2.3	Bottom	3	2	29.32	8.15	23.04	79.1	5.35	12.6	20.8
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS7	8:32	1.0	Surface	1	1	29.33	8.15	22.95	84.4	5.71	12.8	16.7
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS7	8:32	1.0	Surface	1	2	29.33	8.15	23.01	86.2	5.83	13.0	15.4
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS7	8:32	2.5	Bottom	3	1	29.32	8.16	22.98	81.6	5.52	12.5	19.2
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS7	8:32	2.5	Bottom	3	2	29.33	8.15	23.01	82.8	5.60	12.9	18.1
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS8	7:48	1.0	Surface	1	1	29.36	8.08	22.78	75.3	5.07	7.7	9.8
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS8	7:47	1.0	Surface	1	2	29.36	8.08	22.98	74.9	5.07	7.5	9.8
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS8	7:47	2.9	Bottom	3	1	29.37	8.07	23.72	74.4	5.04	8.1	9.9
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS8	7:47	2.9	Bottom	3	2	29.35	8.08	23.69	75.0	5.05	7.8	9.5
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS(Mf)9	8:17	1.0	Surface	1	1	29.35	8.15	23.09	76.2	5.15	6.8	9.1
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS(Mf)9	8:18	1.0	Surface	1	2	29.34	8.15	23.04	76.2	5.15	7.1	8.9

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS(Mf)9	8:17	2.6	Bottom	3	1	29.35	8.14	23.27	76.3	5.15	7.7	10.5
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS(Mf)9	8:17	2.6	Bottom	3	2	29.38	8.14	23.52	76.7	5.17	7.9	10.0
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS10(N)	7:35	1.0	Surface	1	1	29.19	7.60	24.21	78.7	5.31	14.2	15.5
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS10(N)	7:34	1.0	Surface	1	2	29.21	7.56	24.39	79.7	5.33	13.6	15.3
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS10(N)	7:35	5.6	Middle	2	1	29.19	7.57	25.86	76.9	5.14	14.6	15.4
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS10(N)	7:34	5.6	Middle	2	2	29.19	7.53	25.91	79.1	5.32	14.8	14.5
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS10(N)	7:34	10.1	Bottom	3	1	29.17	7.51	26.14	77.7	5.20	14.4	15.2
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	IS10(N)	7:35	10.1	Bottom	3	2	29.18	7.56	26.13	76.7	5.13	15.1	16.2
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR3(N)	9:03	1.0	Surface	1	1	29.34	8.15	23.05	78.9	5.33	7.5	12.1
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR3(N)	9:03	1.0	Surface	1	2	29.33	8.15	23.05	79.0	5.34	7.3	12.2
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR3(N)	9:03	2.7	Bottom	3	1	29.34	8.15	23.09	79.0	5.34	7.5	11.9
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR3(N)	9:02	2.7	Bottom	3	2	29.35	8.15	23.12	79.0	5.34	7.8	11.4
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR4(N)	8:04	1.0	Surface	1	1	29.35	8.15	23.07	84.5	5.69	8.8	10.6
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR4(N)	8:04	1.0	Surface	1	2	29.35	8.16	23.14	81.3	5.50	8.7	11.1
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR4(N)	8:04	2.9	Bottom	3	1	29.37	8.15	23.46	80.0	5.39	9.2	10.6
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR4(N)	8:04	2.9	Bottom	3	2	29.37	8.17	23.55	78.3	5.29	9.0	9.5
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR5(N)	7:44	1.0	Surface	1	1	29.26	7.58	24.96	81.7	5.48	17.6	23.3
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR5(N)	7:45	1.0	Surface	1	2	29.26	7.59	24.98	78.9	5.30	17.9	23.2
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR5(N)	7:44	4.1	Middle	2	1	29.26	7.56	24.98	80.2	5.38	18.8	24.5
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR5(N)	7:44	4.1	Middle	2	2	29.26	7.58	25.00	78.8	5.29	18.6	23.5
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR5(N)	7:44	7.2	Bottom	3	1	29.26	7.58	25.10	78.6	5.28	18.6	24.0
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR5(N)	7:44	7.2	Bottom	3	2	29.25	7.56	25.17	79.4	5.33	18.8	22.6
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR10A(N)	6:40	1.0	Surface	1	1	29.25	7.59	25.52	79.1	5.27	6.1	5.9
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR10A(N)	6:41	1.0	Surface	1	2	29.25	7.59	25.51	78.1	5.23	6.4	6.9
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR10A(N)	6:41	7.4	Middle	2	1	29.21	7.59	25.93	77.9	5.19	6.6	8.7
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR10A(N)	6:40	7.4	Middle	2	2	29.17	7.56	26.14	78.6	5.26	6.8	8.3
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR10A(N)	6:41	13.7	Bottom	3	1	29.12	7.58	27.08	77.1	5.16	6.7	8.7
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR10A(N)	6:40	13.7	Bottom	3	2	29.10	7.55	26.99	78.1	5.22	6.8	8.5
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR10B(N2)	6:33	1.0	Surface	1	1	28.80	7.46	29.17	78.4	5.17	13.1	18.0
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR10B(N2)	6:33	1.0	Surface	1	2	28.80	7.52	29.19	75.7	5.00	12.7	17.8
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR10B(N2)	6:32	4	Middle	2	1	28.76	7.45	29.70	76.8	5.07	13.4	18.0
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR10B(N2)	6:33	4	Middle	2	2	28.76	7.49	29.66	75.6	5.00	13.5	18.3
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR10B(N2)	6:32	7.0	Bottom	3	1	28.74	7.44	29.89	76.1	5.04	13.5	19.1
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	SR10B(N2)	6:33	7.0	Bottom	3	2	28.76	7.46	29.77	75.5	4.99	13.5	19.3
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	CS2(A)	8:38	1.0	Surface	1	1	29.16	7.64	25.01	80.6	5.37	13.8	8.3
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	CS2(A)	8:38	1.0	Surface	1	2	29.16	7.62	24.99	80.6	5.42	13.3	8.2
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	CS2(A)	8:38	4.1	Middle	2	1	29.18	7.62	26.88	83.6	5.56	15.5	7.5
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	CS2(A)	8:38	4.1	Middle	2	2	29.18	7.63	26.26	79.9	5.36	15.8	7.5
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	CS2(A)	8:38	7.1	Bottom	3	1	29.17	7.62	27.01	79.4	5.30	17.1	8.5
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	CS2(A)	8:37	7.1	Bottom	3	2	29.15	7.61	27.04	79.1	5.27	16.8	7.9
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	CS(Mf)5	6:58	1.0	Surface	1	1	29.36	8.05	23.84	81.4	5.46	6.8	7.2
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	CS(Mf)5	6:59	1.0	Surface	1	2	29.31	8.07	23.00	80.5	5.38	7.0	8.0
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	CS(Mf)5	6:58	6.3	Middle	2	1	29.37	8.06	23.64	76.6	5.19	7.1	9.0
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	CS(Mf)5	6:58	6.3	Middle	2	2	29.36	8.04	25.03	78.1	5.26	7.4	7.7
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	CS(Mf)5	6:58	11.5	Bottom	3	1	29.36	8.05	24.52	76.3	5.12	8.8	10.4
HKLR	HY/2011/03	2017-09-22	Mid-Flood	Fine	CS(Mf)5	6:57	11.5	Bottom	3	2	29.35	8.04	26.23	75.1	5.06	8.6	11.0
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	ISS	14:56	1.0	Surface	1	1	29.69	8.18	22.29	86.2	5.79	5.5	4.0
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	ISS	14:55	1.0	Surface	1	2	29.68	8.21	21.88	86.4	5.82	5.7	4.5
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	ISS	14:55	4.6	Middle	2	1	29.32	8.21	21.97	85.3	5.78	6.0	8.0
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	ISS	14:55	4.6	Middle	2	2	29.32	8.20	22.46	85.3	5.76	6.2	8.7
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	ISS	14:55	8.1	Bottom	3	1	29.36	8.20	22.35	85.9	5.81	6.5	11.1
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	ISS	14:55	8.1	Bottom	3	2	29.26	8.20	21.84	85.9	5.83	6.3	12.2

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS(Mf)6	15:08	1.0	Surface	1	1	29.81	8.18	23.74	87.6	5.83	5.1	6.3
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS(Mf)6	15:08	1.0	Surface	1	2	29.82	8.20	23.68	88.1	5.86	5.0	7.4
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS(Mf)6	15:08	2.3	Bottom	3	1	29.64	8.19	23.90	87.6	5.84	6.0	6.5
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS(Mf)6	15:08	2.3	Bottom	3	2	29.42	8.21	23.94	87.9	5.88	6.2	7.2
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS7	15:19	1.0	Surface	1	1	29.76	8.20	23.88	93.3	6.21	3.8	7.0
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS7	15:19	1.0	Surface	1	2	29.76	8.18	23.95	94.6	6.30	3.7	6.9
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS7	15:19	2.4	Bottom	3	1	29.79	8.19	24.00	92.4	6.14	3.8	8.0
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS7	15:19	2.4	Bottom	3	2	29.77	8.21	23.86	91.6	6.10	3.5	8.7
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS8	15:58	1.0	Surface	1	1	29.81	8.16	24.94	84.4	5.58	5.9	10.1
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS8	15:58	1.0	Surface	1	2	29.82	8.17	24.87	84.4	5.58	5.6	10.7
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS8	15:58	2.9	Bottom	3	1	29.75	8.16	25.01	84.1	5.57	6.1	9.3
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS8	15:58	2.9	Bottom	3	2	29.80	8.17	24.97	84.4	5.58	5.8	9.6
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS(Mf)9	15:31	1.0	Surface	1	1	29.86	8.16	24.84	90.7	6.00	4.5	7.9
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS(Mf)9	15:31	1.0	Surface	1	2	29.86	8.17	24.79	89.5	5.91	4.4	8.9
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS(Mf)9	15:31	2.7	Bottom	3	1	29.86	8.16	24.83	88.3	5.84	4.3	10.0
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS(Mf)9	15:31	2.7	Bottom	3	2	29.86	8.17	24.78	87.8	5.80	4.3	9.9
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS10(N)	15:17	1.0	Surface	1	1	29.78	7.78	23.77	83.1	5.53	5.2	5.4
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS10(N)	15:17	1.0	Surface	1	2	29.76	7.77	23.80	83.2	5.51	5.3	4.5
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS10(N)	15:16	5.5	Middle	2	1	29.21	7.80	25.82	81.9	5.42	5.4	4.5
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS10(N)	15:17	5.5	Middle	2	2	29.21	7.77	25.97	81.7	5.44	5.5	5.2
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS10(N)	15:16	10.0	Bottom	3	1	29.16	7.84	26.55	80.8	5.37	5.7	4.6
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	IS10(N)	15:17	10.0	Bottom	3	2	29.26	7.76	26.50	78.8	5.23	5.8	5.9
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR3(N)	14:44	1.0	Surface	1	1	29.85	8.15	24.96	86.3	5.70	4.9	8.2
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR3(N)	14:44	1.0	Surface	1	2	29.87	8.16	24.94	86.6	5.72	5.1	7.0
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR3(N)	14:44	2.8	Bottom	3	1	29.87	8.15	24.96	86.4	5.71	4.9	7.7
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR3(N)	14:44	2.8	Bottom	3	2	29.87	8.16	24.95	86.6	5.72	5.0	8.3
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR4(N)	15:46	1.0	Surface	1	1	29.77	8.18	24.66	85.9	5.70	8.5	8.7
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR4(N)	15:46	1.0	Surface	1	2	29.76	8.17	24.78	87.4	5.80	8.0	7.9
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR4(N)	15:46	2.8	Bottom	3	1	29.76	8.17	24.81	85.1	5.64	8.5	11.8
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR4(N)	15:46	2.8	Bottom	3	2	29.71	8.19	24.71	84.2	5.58	8.3	13.4
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR5(N)	15:09	1.0	Surface	1	1	29.55	7.82	23.11	85.1	5.63	5.3	10.2
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR5(N)	15:10	1.0	Surface	1	2	29.75	7.81	22.92	85.6	5.69	5.2	10.6
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR5(N)	15:09	4.2	Middle	2	1	29.31	7.84	25.54	81.0	5.42	5.4	10.7
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR5(N)	15:09	4.2	Middle	2	2	29.35	7.78	23.60	82.9	5.56	5.6	11.0
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR5(N)	15:09	7.4	Bottom	3	1	29.44	7.78	26.24	81.0	5.35	5.7	10.5
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR5(N)	15:09	7.4	Bottom	3	2	29.28	7.85	26.36	80.0	5.37	5.9	9.9
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR10A(N)	16:59	1.0	Surface	1	1	29.81	7.83	26.64	88.5	5.78	2.9	8.5
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR10A(N)	16:59	1.0	Surface	1	2	29.76	7.82	27.24	88.1	5.73	3.0	8.5
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR10A(N)	16:58	7.1	Middle	2	1	29.72	7.84	27.44	86.0	5.61	3.1	8.7
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR10A(N)	16:59	7.1	Middle	2	2	29.72	7.82	27.45	86.3	5.65	3.2	8.9
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR10A(N)	16:58	13.1	Bottom	3	1	29.70	7.85	27.34	84.7	5.53	3.3	11.0
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR10A(N)	16:59	13.1	Bottom	3	2	29.73	7.82	27.50	85.1	5.56	3.3	12.0
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR10B(N2)	17:07	1.0	Surface	1	1	29.60	7.79	27.71	83.1	5.43	3.2	2.9
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR10B(N2)	17:08	1.0	Surface	1	2	29.57	7.78	27.80	82.5	5.39	3.2	3.0
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR10B(N2)	17:07	3.9	Middle	2	1	29.59	7.80	27.79	82.0	5.35	3.3	3.9
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR10B(N2)	17:08	3.9	Middle	2	2	29.51	7.78	27.94	81.9	5.35	3.2	4.4
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR10B(N2)	17:07	6.7	Bottom	3	1	29.62	7.78	27.77	81.0	5.30	3.3	8.1
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	SR10B(N2)	17:07	6.7	Bottom	3	2	29.61	7.82	27.77	81.6	5.33	3.3	7.2
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	CS2(A)	14:24	1.0	Surface	1	1	29.61	7.85	26.57	88.4	5.82	3.2	3.1
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	CS2(A)	14:23	1.0	Surface	1	2	29.51	7.91	26.73	88.8	5.84	3.1	2.8
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	CS2(A)	14:24	4.0	Middle	2	1	29.47	7.87	26.75	88.2	5.81	3.5	7.5
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	CS2(A)	14:23	4.0	Middle	2	2	29.36	7.98	26.77	88.0	5.80	3.4	6.4

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	CS2(A)	14:23	7.0	Bottom	3	1	29.47	7.89	26.72	87.6	5.78	3.7	8.9
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	CS2(A)	14:23	7.0	Bottom	3	2	29.17	7.88	28.17	87.3	5.74	3.8	8.1
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	CS(Mf)5	16:28	1.0	Surface	1	1	29.61	8.21	25.04	79.0	5.24	2.8	3.4
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	CS(Mf)5	16:29	1.0	Surface	1	2	29.66	8.19	25.22	83.0	5.47	2.6	3.9
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	CS(Mf)5	16:28	6.5	Middle	2	1	29.19	8.19	27.38	80.0	5.29	3.5	5.0
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	CS(Mf)5	16:28	6.5	Middle	2	2	29.18	8.21	27.18	78.5	5.18	3.2	5.1
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	CS(Mf)5	16:28	11.9	Bottom	3	1	29.20	8.18	27.79	77.3	5.08	3.5	4.0
HKLR	HY/2011/03	2017-09-25	Mid-Ebb	Sunny	CS(Mf)5	16:27	11.9	Bottom	3	2	29.16	8.22	27.52	74.7	4.92	3.2	4.6
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS5	10:44	1.0	Surface	1	1	29.27	8.19	24.19	86.7	5.80	4.6	6.5
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS5	10:44	1.0	Surface	1	2	29.27	8.18	24.21	85.6	5.73	4.4	5.1
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS5	10:44	4.6	Middle	2	1	29.21	8.20	24.37	87.4	5.85	4.3	8.8
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS5	10:44	4.6	Middle	2	2	29.19	8.18	24.37	85.4	5.72	4.5	8.8
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS5	10:44	8.2	Bottom	3	1	29.20	8.19	24.38	89.1	5.97	4.7	8.9
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS5	10:43	8.2	Bottom	3	2	29.22	8.22	24.41	85.7	5.74	4.3	8.7
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS(Mf)6	10:32	1.0	Surface	1	1	29.26	8.17	23.96	89.1	5.98	8.1	12.9
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS(Mf)6	10:31	1.0	Surface	1	2	29.26	8.18	23.94	85.9	5.76	7.8	12.0
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS(Mf)6	10:31	2.2	Bottom	3	1	29.26	8.17	23.98	84.8	5.69	8.0	12.6
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS(Mf)6	10:31	2.2	Bottom	3	2	29.24	8.20	23.95	83.9	5.63	8.4	11.7
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS7	10:18	1.0	Surface	1	1	29.32	8.20	23.80	86.8	5.82	5.8	9.5
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS7	10:19	1.0	Surface	1	2	29.34	8.18	23.83	87.8	5.89	6.0	10.5
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS7	10:18	2.4	Bottom	3	1	29.32	8.18	23.84	83.7	5.61	6.3	9.7
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS7	10:18	2.4	Bottom	3	2	29.31	8.21	23.79	84.4	5.66	6.0	9.9
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS8	9:40	1.0	Surface	1	1	29.29	8.17	24.31	84.8	5.67	6.6	6.7
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS8	9:39	1.0	Surface	1	2	29.28	8.18	24.19	81.2	5.44	6.4	6.5
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS8	9:39	3.1	Bottom	3	1	29.30	8.18	24.44	78.7	5.27	6.7	7.5
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS8	9:39	3.1	Bottom	3	2	29.30	8.17	24.50	79.8	5.33	7.0	8.8
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS(Mf)9	10:05	1.0	Surface	1	1	29.27	8.18	23.98	83.7	5.61	6.4	6.8
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS(Mf)9	10:06	1.0	Surface	1	2	29.25	8.17	24.13	83.3	5.59	6.7	7.1
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS(Mf)9	10:06	2.8	Bottom	3	1	29.24	8.17	24.27	83.7	5.60	6.9	7.3
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS(Mf)9	10:05	2.8	Bottom	3	2	29.23	8.18	24.29	83.9	5.62	7.0	7.0
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS10(N)	9:34	1.0	Surface	1	1	29.23	7.63	23.80	90.5	6.04	3.3	4.4
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS10(N)	9:34	1.0	Surface	1	2	29.19	7.65	24.24	89.8	6.02	3.4	5.4
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS10(N)	9:34	5.6	Middle	2	1	29.20	7.64	24.09	87.8	5.89	3.6	5.2
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS10(N)	9:34	5.6	Middle	2	2	29.18	7.67	24.39	86.6	5.81	3.5	5.8
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS10(N)	9:34	10.1	Bottom	3	1	29.20	7.65	24.23	85.7	5.75	3.8	9.9
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	IS10(N)	9:34	10.1	Bottom	3	2	29.20	7.63	24.54	85.1	5.72	3.7	10.5
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR3(N)	10:58	1.0	Surface	1	1	29.27	8.20	24.19	89.1	5.98	5.3	8.0
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR3(N)	10:58	1.0	Surface	1	2	29.23	8.22	24.18	87.9	5.89	5.8	8.6
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR3(N)	10:58	3.2	Bottom	3	1	29.18	8.21	24.26	86.5	5.80	5.9	7.3
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR3(N)	10:58	3.2	Bottom	3	2	29.16	8.23	24.21	86.0	5.76	6.3	7.0
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR4(N)	9:50	1.0	Surface	1	1	29.37	8.16	24.36	76.8	5.13	10.4	15.0
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR4(N)	9:50	1.0	Surface	1	2	29.38	8.15	24.40	78.5	5.24	10.5	15.7
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR4(N)	9:50	2.9	Bottom	3	1	29.38	8.16	24.37	75.9	5.07	9.8	14.9
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR4(N)	9:50	2.9	Bottom	3	2	29.37	8.17	24.33	75.4	5.04	10.0	16.1
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR5(N)	9:44	1.0	Surface	1	1	29.28	7.61	23.95	86.3	5.76	5.2	6.8
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR5(N)	9:44	1.0	Surface	1	2	29.28	7.62	23.76	86.7	5.81	5.2	7.7
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR5(N)	9:44	4.3	Middle	2	1	29.13	7.63	24.92	82.6	5.50	5.3	8.6
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR5(N)	9:44	4.3	Middle	2	2	29.16	7.62	24.46	84.4	5.66	5.4	8.6
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR5(N)	9:43	7.6	Bottom	3	1	29.13	7.63	25.61	81.9	5.50	5.6	10.0
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR5(N)	9:44	7.6	Bottom	3	2	29.16	7.61	25.54	82.0	5.48	5.5	8.6
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR10A(N)	8:48	1.0	Surface	1	1	29.06	7.58	26.38	84.9	5.63	5.2	10.8
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR10A(N)	8:48	1.0	Surface	1	2	29.06	7.57	26.36	83.6	5.55	5.1	9.3

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR10A(N)	8:48	7.2	Middle	2	1	29.03	7.58	26.48	82.5	5.48	5.3	11.5
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR10A(N)	8:48	7.2	Middle	2	2	29.03	7.57	26.47	81.5	5.41	5.3	11.5
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR10A(N)	8:48	13.3	Bottom	3	1	29.04	7.57	26.53	80.6	5.35	5.6	16.8
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR10A(N)	8:47	13.3	Bottom	3	2	29.02	7.60	26.57	80.5	5.35	5.4	16.2
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR10B(N2)	8:35	1.0	Surface	1	1	28.90	7.53	29.42	80.5	5.27	7.2	7.3
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR10B(N2)	8:36	1.0	Surface	1	2	28.90	7.58	29.48	79.8	5.24	7.3	8.7
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR10B(N2)	8:36	4	Middle	2	1	28.90	7.56	29.44	77.8	5.11	7.4	8.6
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR10B(N2)	8:35	4	Middle	2	2	28.89	7.51	29.53	77.0	5.04	7.5	8.2
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR10B(N2)	8:35	6.9	Bottom	3	1	28.91	7.49	29.65	74.8	4.90	7.8	12.8
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	SR10B(N2)	8:35	6.9	Bottom	3	2	28.90	7.54	29.43	76.0	4.97	7.6	13.7
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	CS2(A)	10:30	1.0	Surface	1	1	29.35	7.67	23.46	87.3	5.82	5.3	7.7
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	CS2(A)	10:30	1.0	Surface	1	2	29.40	7.66	23.20	87.8	5.86	5.1	6.8
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	CS2(A)	10:30	4.1	Middle	2	1	29.08	7.68	25.90	84.3	5.66	5.5	9.6
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	CS2(A)	10:29	4.1	Middle	2	2	29.18	7.71	25.47	82.2	5.42	5.4	8.1
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	CS2(A)	10:29	7.1	Bottom	3	1	29.14	7.62	25.81	81.7	5.44	5.8	8.4
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	CS2(A)	10:30	7.1	Bottom	3	2	29.15	7.66	27.24	81.5	5.48	5.7	9.5
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	CS(Mf)5	9:02	1.0	Surface	1	1	29.28	8.12	24.78	81.2	5.42	3.5	7.6
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	CS(Mf)5	9:03	1.0	Surface	1	2	29.29	8.14	24.05	81.5	5.44	3.4	8.5
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	CS(Mf)5	9:02	6.3	Middle	2	1	29.26	8.12	26.77	80.5	5.39	5.3	8.7
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	CS(Mf)5	9:03	6.3	Middle	2	2	29.25	8.13	25.71	80.2	5.38	5.2	8.0
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	CS(Mf)5	9:03	11.6	Bottom	3	1	29.24	8.13	26.22	77.0	5.11	4.7	10.5
HKLR	HY/2011/03	2017-09-25	Mid-Flood	Sunny	CS(Mf)5	9:01	11.6	Bottom	3	2	29.25	8.11	28.27	78.0	5.17	4.9	9.1
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS5	16:47	1.0	Surface	1	1	30.89	8.21	22.43	92.1	6.07	4.0	7.7
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS5	16:47	1.0	Surface	1	2	30.90	8.22	22.20	91.4	6.02	3.9	7.3
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS5	16:47	4.2	Middle	2	1	30.46	8.21	22.95	87.6	5.80	4.7	9.4
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS5	16:47	4.2	Middle	2	2	30.60	8.20	22.98	90.0	5.94	4.5	9.0
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS5	16:46	7.4	Bottom	3	1	30.19	8.22	23.44	88.0	5.83	5.5	11.9
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS5	16:47	7.4	Bottom	3	2	30.53	8.20	23.09	91.2	6.02	5.2	13.5
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS(Mf)6	17:02	1.0	Surface	1	1	31.02	8.22	21.77	100.1	6.60	3.4	7.4
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS(Mf)6	17:01	1.0	Surface	1	2	31.08	8.22	21.80	100.0	6.59	3.3	7.8
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS(Mf)6	17:01	2.2	Bottom	3	1	30.66	8.21	22.89	98.5	6.49	5.2	8.0
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS(Mf)6	17:01	2.2	Bottom	3	2	30.78	8.19	23.02	98.3	6.47	5.0	7.7
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS7	17:15	1.0	Surface	1	1	31.23	8.24	20.70	101.2	6.69	3.4	7.8
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS7	17:14	1.0	Surface	1	2	31.10	8.24	20.70	100.9	6.69	3.6	6.2
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS7	17:14	2.2	Bottom	3	1	30.80	8.24	21.37	100.4	6.66	3.7	7.1
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS7	17:14	2.2	Bottom	3	2	30.95	8.23	21.35	100.8	6.67	3.5	6.3
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS8	17:49	1.0	Surface	1	1	30.67	8.19	21.43	90.9	6.04	8.9	7.7
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS8	17:48	1.0	Surface	1	2	30.37	8.17	21.80	88.0	5.86	8.2	7.7
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS8	17:48	2.9	Bottom	3	1	30.55	8.17	23.16	88.7	5.85	9.0	11.1
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS8	17:48	2.9	Bottom	3	2	30.10	8.16	23.77	89.3	5.91	9.2	10.4
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS(Mf)9	17:27	1.0	Surface	1	1	31.12	8.22	20.97	100.1	6.62	4.0	6.0
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS(Mf)9	17:26	1.0	Surface	1	2	31.14	8.22	20.90	99.8	6.60	4.0	4.9
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS(Mf)9	17:26	2.5	Bottom	3	1	30.90	8.21	22.08	99.4	6.56	4.4	5.2
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS(Mf)9	17:26	2.5	Bottom	3	2	30.95	8.21	22.72	99.8	6.56	4.7	6.4
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS10(N)	17:18	1.0	Surface	1	1	30.89	7.73	14.63	79.7	5.48	5.3	4.8
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS10(N)	17:19	1.0	Surface	1	2	31.01	7.74	14.30	80.4	5.52	5.5	4.5
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS10(N)	17:18	6.1	Middle	2	1	29.74	7.64	24.24	79.2	5.14	6.6	4.4
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS10(N)	17:17	6.1	Middle	2	2	29.58	7.63	26.31	78.7	5.10	6.8	4.9
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS10(N)	17:18	11.1	Bottom	3	1	29.57	7.62	28.93	74.4	4.95	6.8	5.7
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	IS10(N)	17:17	11.1	Bottom	3	2	29.22	7.61	29.17	73.8	4.81	6.8	7.0
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR3(N)	16:34	1.0	Surface	1	1	31.17	8.23	19.45	98.9	6.59	5.7	7.4
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR3(N)	16:34	1.0	Surface	1	2	31.16	8.24	19.80	99.5	6.62	5.4	7.3

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR3(N)	16:34	2.9	Bottom	3	1	31.17	8.24	20.48	99.1	6.57	6.3	8.3
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR3(N)	16:34	2.9	Bottom	3	2	31.11	8.23	20.10	98.4	6.54	6.0	9.8
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR4(N)	17:37	1.0	Surface	1	1	30.60	8.21	21.28	91.2	6.07	7.0	7.7
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR4(N)	17:38	1.0	Surface	1	2	30.67	8.20	21.30	91.8	6.10	6.7	7.4
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR4(N)	17:38	2.7	Bottom	3	1	30.59	8.20	22.88	91.5	6.04	7.5	7.3
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR4(N)	17:37	2.7	Bottom	3	2	30.12	8.21	23.26	92.6	6.14	7.1	6.3
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR5(N)	17:11	1.0	Surface	1	1	30.65	7.69	15.81	83.7	5.74	3.5	5.5
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR5(N)	17:10	1.0	Surface	1	2	30.50	7.69	16.11	84.2	5.78	3.4	6.4
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR5(N)	17:10	4.1	Middle	2	1	30.11	7.68	20.30	78.9	5.28	5.8	6.6
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR5(N)	17:10	4.1	Middle	2	2	30.16	7.67	20.69	81.7	5.50	5.6	5.6
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR5(N)	17:10	7.2	Bottom	3	1	29.47	7.63	27.15	77.8	5.11	5.8	5.8
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR5(N)	17:09	7.2	Bottom	3	2	29.37	7.63	27.37	80.1	5.26	5.6	5.9
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR10A(N)	18:08	1.0	Surface	1	1	30.40	7.70	24.46	83.4	5.47	2.3	3.3
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR10A(N)	18:07	1.0	Surface	1	2	30.38	7.70	24.52	83.4	5.48	2.3	3.2
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR10A(N)	18:07	6.6	Middle	2	1	29.81	7.71	25.01	80.3	5.18	3.3	2.3
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR10A(N)	18:07	6.6	Middle	2	2	30.22	7.71	24.74	80.2	5.28	3.1	3.3
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR10A(N)	18:07	12.1	Bottom	3	1	29.24	7.74	31.06	79.2	5.17	3.3	4.0
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR10A(N)	18:07	12.1	Bottom	3	2	29.49	7.69	31.31	78.3	5.16	3.3	3.4
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR10B(N2)	18:16	1.0	Surface	1	1	30.14	7.72	24.90	78.8	5.19	2.5	5.3
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR10B(N2)	18:15	1.0	Surface	1	2	30.21	7.71	25.19	82.5	5.36	2.4	4.1
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR10B(N2)	18:15	3.3	Middle	2	1	29.77	7.70	26.71	81.7	5.34	3.5	5.9
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR10B(N2)	18:16	3.3	Middle	2	2	29.73	7.71	28.16	78.1	5.04	3.6	5.9
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR10B(N2)	18:15	5.6	Bottom	3	1	29.34	7.71	30.37	79.0	5.18	3.6	5.6
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	SR10B(N2)	18:16	5.6	Bottom	3	2	29.42	7.70	30.46	76.0	4.94	3.8	5.2
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	CS2(A)	16:21	1.0	Surface	1	1	30.06	7.86	18.47	85.2	5.81	5.8	4.5
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	CS2(A)	16:21	1.0	Surface	1	2	29.96	7.87	19.09	85.0	5.73	5.9	4.1
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	CS2(A)	16:21	3.6	Middle	2	1	29.37	7.85	27.37	84.1	5.49	8.4	5.2
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	CS2(A)	16:21	3.6	Middle	2	2	29.46	7.84	28.66	83.8	5.42	8.6	5.3
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	CS2(A)	16:21	6.1	Bottom	3	1	29.21	7.85	31.01	82.3	5.41	8.5	7.2
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	CS2(A)	16:21	6.1	Bottom	3	2	29.43	7.82	30.85	83.1	5.40	8.4	6.1
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	CS(Mf)5	18:12	1.0	Surface	1	1	30.68	8.21	20.27	84.5	5.65	1.3	5.4
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	CS(Mf)5	18:11	1.0	Surface	1	2	30.86	8.22	20.02	87.9	5.87	1.4	4.0
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	CS(Mf)5	18:12	6.3	Middle	2	1	30.03	8.17	25.59	80.9	5.31	1.4	4.7
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	CS(Mf)5	18:11	6.3	Middle	2	2	29.76	8.22	26.22	80.6	5.30	1.4	6.0
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	CS(Mf)5	18:11	11.6	Bottom	3	1	29.89	8.16	26.65	83.0	5.43	1.9	7.9
HKLR	HY/2011/03	2017-09-27	Mid-Ebb	Sunny	CS(Mf)5	18:11	11.6	Bottom	3	2	29.55	8.21	27.63	83.0	5.43	1.7	7.3
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS5	12:42	1.0	Surface	1	1	30.52	8.17	21.74	86.7	5.76	2.7	6.1
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS5	12:41	1.0	Surface	1	2	30.56	8.20	21.32	87.3	5.81	2.8	4.7
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS5	12:41	4.3	Middle	2	1	30.12	8.20	22.30	85.0	5.68	4.6	5.1
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS5	12:42	4.3	Middle	2	2	30.14	8.17	22.84	84.7	5.63	4.4	4.6
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS5	12:41	7.5	Bottom	3	1	30.04	8.22	22.49	86.9	5.80	4.7	4.0
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS5	12:42	7.5	Bottom	3	2	30.12	8.17	23.14	86.3	5.74	4.3	5.2
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS(Mf)6	12:29	1.0	Surface	1	1	30.39	8.16	22.91	88.9	5.88	2.0	9.5
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS(Mf)6	12:29	1.0	Surface	1	2	30.46	8.16	22.89	90.0	5.95	2.1	9.5
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS(Mf)6	12:28	2.2	Bottom	3	1	30.31	8.15	23.91	88.2	5.82	3.2	9.6
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS(Mf)6	12:29	2.2	Bottom	3	2	30.36	8.16	23.91	89.2	5.88	2.8	8.8
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS7	12:19	1.0	Surface	1	1	30.37	8.19	23.00	90.8	6.01	4.4	4.8
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS7	12:19	1.0	Surface	1	2	30.46	8.17	22.92	93.0	6.14	4.0	5.9
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS7	12:18	2.6	Bottom	3	1	30.22	8.20	24.12	89.1	5.90	6.2	7.2
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS7	12:19	2.6	Bottom	3	2	30.30	8.17	24.35	89.9	5.92	5.8	8.2
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS8	11:48	1.0	Surface	1	1	30.31	8.14	19.86	85.0	5.73	14.1	9.0
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS8	11:47	1.0	Surface	1	2	30.34	8.18	19.53	86.4	5.83	13.7	8.1

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS8	11:47	2.9	Bottom	3	1	30.27	8.16	20.09	85.7	5.77	16.2	8.4
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS8	11:47	2.9	Bottom	3	2	30.22	8.20	20.09	88.2	5.95	15.5	9.0
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS(Mf)9	12:09	1.0	Surface	1	1	30.48	8.17	23.03	89.2	5.89	10.3	6.6
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS(Mf)9	12:09	1.0	Surface	1	2	30.41	8.16	22.81	90.8	5.99	10.5	7.2
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS(Mf)9	12:09	2.8	Bottom	3	1	30.24	8.14	24.79	88.1	5.79	13.1	7.5
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS(Mf)9	12:08	2.8	Bottom	3	2	30.48	8.18	23.22	87.5	5.80	12.2	6.1
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS10(N)	11:59	1.0	Surface	1	1	30.27	7.65	17.84	81.1	5.53	4.6	6.8
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS10(N)	11:58	1.0	Surface	1	2	30.28	7.65	17.88	82.1	5.60	4.5	6.8
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS10(N)	11:59	6.3	Middle	2	1	29.48	7.62	26.35	78.1	5.13	4.8	6.8
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS10(N)	11:58	6.3	Middle	2	2	29.51	7.63	26.28	76.1	5.01	4.8	7.5
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS10(N)	11:58	11.6	Bottom	3	1	29.48	7.60	27.00	73.8	4.87	4.7	7.4
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	IS10(N)	11:57	11.6	Bottom	3	2	29.36	7.63	27.05	73.9	4.87	4.8	7.9
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR3(N)	12:55	1.0	Surface	1	1	30.54	8.17	22.12	90.0	5.97	2.0	5.7
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR3(N)	12:55	1.0	Surface	1	2	30.48	8.16	22.26	90.0	5.97	1.9	6.0
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR3(N)	12:54	3.1	Bottom	3	1	30.44	8.17	22.24	89.6	5.95	2.1	5.9
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR3(N)	12:55	3.1	Bottom	3	2	30.47	8.16	22.34	89.9	5.96	2.2	5.2
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR4(N)	11:57	1.0	Surface	1	1	30.25	8.11	20.39	83.4	5.61	14.3	5.6
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR4(N)	11:58	1.0	Surface	1	2	30.25	8.11	20.40	82.8	5.57	14.2	5.8
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR4(N)	11:57	2.7	Bottom	3	1	30.19	8.10	21.01	82.8	5.56	17.1	13.7
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR4(N)	11:57	2.7	Bottom	3	2	30.21	8.11	21.13	83.8	5.62	16.6	14.9
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR5(N)	12:12	1.0	Surface	1	1	30.34	7.66	17.72	80.9	5.46	5.5	4.1
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR5(N)	12:11	1.0	Surface	1	2	30.32	7.66	17.94	80.6	5.45	5.7	4.2
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR5(N)	12:11	4.5	Middle	2	1	29.66	7.64	24.24	80.0	5.35	8.9	3.3
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR5(N)	12:12	4.5	Middle	2	2	29.66	7.64	24.09	78.6	5.19	8.6	2.9
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR5(N)	12:11	8.0	Bottom	3	1	29.62	7.62	25.85	75.3	5.02	8.7	4.4
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR5(N)	12:10	8.0	Bottom	3	2	29.48	7.63	26.04	75.6	5.03	8.9	3.7
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR10A(N)	11:07	1.0	Surface	1	1	30.02	7.66	21.62	78.7	5.17	2.4	3.2
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR10A(N)	11:07	1.0	Surface	1	2	30.13	7.65	21.82	81.8	5.40	2.4	2.5
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR10A(N)	11:07	6.4	Middle	2	1	29.38	7.66	26.94	77.7	5.04	3.1	2.6
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR10A(N)	11:06	6.4	Middle	2	2	29.33	7.65	27.27	80.7	5.33	3.1	3.5
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR10A(N)	11:07	11.8	Bottom	3	1	29.39	7.64	29.71	74.6	4.91	3.2	4.0
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR10A(N)	11:06	11.8	Bottom	3	2	29.34	7.63	28.96	78.3	5.15	3.1	4.0
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR10B(N2)	10:56	1.0	Surface	1	1	29.81	7.61	23.91	80.8	5.30	3.5	4.6
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR10B(N2)	10:55	1.0	Surface	1	2	29.91	7.58	24.08	86.4	5.54	3.5	5.4
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR10B(N2)	10:55	3.3	Middle	2	1	29.30	7.58	27.95	82.3	5.46	4.5	4.6
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR10B(N2)	10:56	3.3	Middle	2	2	29.43	7.60	28.01	79.7	5.27	4.6	6.5
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR10B(N2)	10:55	5.5	Bottom	3	1	29.44	7.58	31.68	81.0	5.31	4.5	4.7
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	SR10B(N2)	10:55	5.5	Bottom	3	2	29.50	7.57	30.68	78.4	5.13	4.4	4.9
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	CS2(A)	13:08	1.0	Surface	1	1	30.29	7.75	18.76	80.3	5.45	7.6	5.8
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	CS2(A)	13:08	1.0	Surface	1	2	30.65	7.76	18.43	82.6	5.41	7.3	5.5
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	CS2(A)	13:08	3.6	Middle	2	1	29.66	7.73	24.68	78.5	5.14	10.9	5.0
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	CS2(A)	13:07	3.6	Middle	2	2	29.54	7.72	25.78	80.1	5.31	11.3	6.7
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	CS2(A)	13:08	6.2	Bottom	3	1	29.40	7.72	27.90	77.0	5.11	11.8	6.2
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	CS2(A)	13:07	6.2	Bottom	3	2	29.43	7.71	27.89	78.2	5.17	11.8	7.1
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	CS(Mf)5	11:19	1.0	Surface	1	1	30.48	8.11	22.09	81.4	5.41	2.3	4.2
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	CS(Mf)5	11:20	1.0	Surface	1	2	30.47	8.11	21.46	82.6	5.51	2.4	3.0
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	CS(Mf)5	11:20	6.4	Middle	2	1	29.41	8.10	28.43	79.8	5.32	3.7	4.5
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	CS(Mf)5	11:19	6.4	Middle	2	2	29.37	8.11	29.32	80.7	5.22	3.9	3.5
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	CS(Mf)5	11:20	11.8	Bottom	3	1	29.48	8.12	29.65	77.6	5.03	5.0	5.4
HKLR	HY/2011/03	2017-09-27	Mid-Flood	Sunny	CS(Mf)5	11:19	11.8	Bottom	3	2	29.39	8.10	31.41	79.1	5.08	4.6	4.4
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	ISS	7:54	1.0	Surface	1	1	30.48	8.30	20.49	85.3	5.72	3.6	5.2
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	ISS	7:55	1.0	Surface	1	2	30.44	8.31	20.44	84.7	5.68	3.5	6.2

Water Quality Monitoring Data

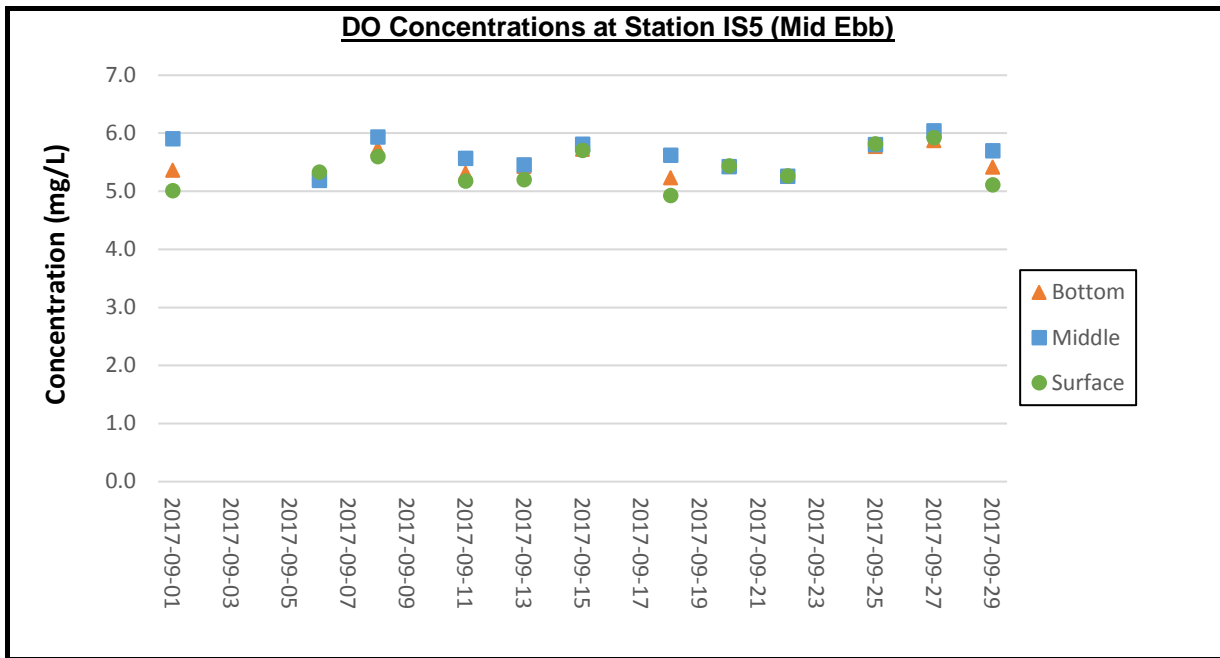
Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS5	7:55	4.1	Middle	2	1	29.70	8.25	27.51	83.6	5.43	5.5	7.8
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS5	7:54	4.1	Middle	2	2	29.69	8.25	27.68	83.0	5.40	5.7	6.5
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS5	7:54	7.1	Bottom	3	1	29.48	8.25	28.81	78.1	5.10	5.6	7.5
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS5	7:55	7.1	Bottom	3	2	29.59	8.24	28.71	78.6	5.13	5.5	7.4
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS(MF)6	7:45	1.0	Surface	1	1	30.65	8.22	21.77	89.3	5.92	3.3	5.0
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS(MF)6	7:45	1.0	Surface	1	2	30.65	8.23	22.07	93.5	6.17	3.2	4.4
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS(MF)6	7:45	2.0	Bottom	3	1	30.29	8.21	23.81	92.3	6.11	3.3	4.8
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS(MF)6	7:45	2.0	Bottom	3	2	30.39	8.19	23.92	88.8	5.85	3.2	4.7
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS7	7:36	1.0	Surface	1	1	30.26	8.23	19.27	90.2	6.11	1.8	4.6
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS7	7:36	1.0	Surface	1	2	30.24	8.22	19.25	90.7	6.07	1.8	6.3
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS7	7:36	2.1	Bottom	3	1	30.26	8.19	21.96	89.3	6.05	1.9	6.7
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS7	7:35	2.1	Bottom	3	2	30.18	8.17	21.34	88.9	5.96	1.8	8.3
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS8	7:05	1.0	Surface	1	1	30.50	8.17	19.97	83.6	5.62	4.6	6.5
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS8	7:05	1.0	Surface	1	2	30.46	8.15	20.01	79.0	5.31	4.4	4.9
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS8	7:05	3.2	Bottom	3	1	30.38	8.13	23.75	82.9	5.47	4.5	6.7
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS8	7:04	3.2	Bottom	3	2	30.18	8.10	23.09	78.4	5.20	4.4	4.8
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS(MF)9	7:28	1.0	Surface	1	1	30.20	8.23	19.58	92.5	6.26	2.9	6.9
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS(MF)9	7:27	1.0	Surface	1	2	30.21	8.21	19.56	89.6	6.06	3.0	6.8
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS(MF)9	7:27	2.7	Bottom	3	1	30.23	8.13	22.88	89.3	5.93	3.6	5.7
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS(MF)9	7:27	2.7	Bottom	3	2	30.24	8.18	22.92	92.0	6.14	3.6	5.5
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS10(N)	7:18	1.0	Surface	1	1	29.88	7.79	22.55	82.1	5.38	2.7	3.3
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS10(N)	7:19	1.0	Surface	1	2	29.89	7.82	22.58	83.1	5.49	2.9	3.7
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS10(N)	7:18	5.5	Middle	2	1	29.61	7.80	26.06	80.7	5.25	4.1	4.5
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS10(N)	7:18	5.5	Middle	2	2	29.61	7.76	25.97	80.2	5.20	4.3	5.3
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS10(N)	7:18	9.9	Bottom	3	1	29.53	7.75	26.96	78.4	5.15	4.5	4.5
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	IS10(N)	7:18	9.9	Bottom	3	2	29.68	7.79	26.75	75.2	5.04	4.2	6.0
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR3(N)	8:04	1.0	Surface	1	1	30.54	8.22	20.81	91.1	5.99	4.2	7.4
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR3(N)	8:04	1.0	Surface	1	2	30.53	8.23	20.75	87.9	5.83	4.2	6.5
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR3(N)	8:04	2.6	Bottom	3	1	30.53	8.19	23.30	87.1	5.76	4.5	8.5
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR3(N)	8:04	2.6	Bottom	3	2	30.57	8.20	23.66	87.9	5.88	4.3	9.5
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR4(N)	7:11	1.0	Surface	1	1	30.24	8.16	19.30	88.4	5.89	6.4	3.2
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR4(N)	7:12	1.0	Surface	1	2	30.23	8.16	19.32	86.6	5.82	6.3	4.7
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR4(N)	7:11	2.6	Bottom	3	1	30.34	8.13	21.79	85.9	5.77	6.4	6.3
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR4(N)	7:11	2.6	Bottom	3	2	30.45	8.13	21.42	86.4	5.85	6.5	7.3
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR5(N)	7:29	1.0	Surface	1	1	29.74	7.84	21.25	89.0	5.84	2.2	2.6
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR5(N)	7:29	1.0	Surface	1	2	29.74	7.81	21.26	88.4	5.79	2.0	2.3
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR5(N)	7:29	4.3	Middle	2	1	29.67	7.80	26.17	83.1	5.63	3.3	2.9
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR5(N)	7:28	4.3	Middle	2	2	29.59	7.80	26.95	82.9	5.60	3.5	3.9
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR5(N)	7:28	7.5	Bottom	3	1	29.59	7.80	27.04	81.0	5.31	3.7	2.6
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR5(N)	7:29	7.5	Bottom	3	2	29.60	7.79	27.01	77.3	5.07	3.5	2.4
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR10A(N)	6:19	1.0	Surface	1	1	30.05	7.86	24.01	83.8	5.55	2.1	3.6
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR10A(N)	6:19	1.0	Surface	1	2	29.99	7.88	24.01	82.5	5.47	2.0	2.3
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR10A(N)	6:19	7.0	Middle	2	1	29.67	7.85	29.58	80.1	5.18	2.2	2.4
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR10A(N)	6:19	7.0	Middle	2	2	29.71	7.87	29.67	81.2	5.24	2.0	2.5
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR10A(N)	6:18	12.9	Bottom	3	1	29.58	7.81	30.46	84.0	5.41	2.8	2.9
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR10A(N)	6:19	12.9	Bottom	3	2	29.98	7.84	29.67	84.8	5.45	3.0	2.4
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR10B(N2)	6:05	1.0	Surface	1	1	30.07	7.79	23.94	87.2	5.77	1.5	2.7
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR10B(N2)	6:06	1.0	Surface	1	2	30.07	7.78	23.99	87.6	5.80	1.6	2.5
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR10B(N2)	6:05	3.7	Middle	2	1	30.05	7.78	24.41	85.1	5.62	1.7	4.6
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR10B(N2)	6:05	3.7	Middle	2	2	30.00	7.77	24.53	87.4	5.63	1.8	5.0
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR10B(N2)	6:04	6.4	Bottom	3	1	29.66	7.78	30.28	83.6	5.52	2.0	5.5
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	SR10B(N2)	6:05	6.4	Bottom	3	2	29.81	7.77	30.26	85.4	5.48	1.9	5.1

Water Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	CS2(A)	8:35	1.0	Surface	1	1	29.91	7.79	20.65	82.1	5.55	2.7	3.1
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	CS2(A)	8:36	1.0	Surface	1	2	29.87	7.80	20.87	86.5	5.59	2.6	4.5
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	CS2(A)	8:36	3.8	Middle	2	1	29.60	7.81	24.59	82.5	5.43	2.5	3.0
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	CS2(A)	8:35	3.8	Middle	2	2	29.53	7.79	26.66	80.4	5.43	2.7	3.3
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	CS2(A)	8:36	6.6	Bottom	3	1	29.42	7.78	30.34	80.1	5.18	2.9	2.8
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	CS2(A)	8:35	6.6	Bottom	3	2	29.34	7.76	30.51	79.5	5.28	3.2	2.8
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	CS(Mf)5	6:31	1.0	Surface	1	1	30.29	8.14	22.68	81.4	5.40	1.6	2.7
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	CS(Mf)5	6:32	1.0	Surface	1	2	30.27	8.15	21.79	79.8	5.33	1.6	3.7
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	CS(Mf)5	6:31	6.3	Middle	2	1	29.95	8.15	27.93	78.7	5.03	1.8	2.4
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	CS(Mf)5	6:32	6.3	Middle	2	2	29.95	8.14	26.63	78.9	5.05	1.7	3.4
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	CS(Mf)5	6:32	11.5	Bottom	3	1	29.70	8.10	31.29	75.1	4.83	1.8	2.3
HKLR	HY/2011/03	2017-09-29	Mid-Ebb	Fine	CS(Mf)5	6:31	11.5	Bottom	3	2	29.41	8.13	33.55	74.7	4.81	1.8	2.4
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS5	15:15	1.0	Surface	1	1	31.60	8.42	19.73	136.7	9.03	5.3	6.9
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS5	15:14	1.0	Surface	1	2	31.47	8.41	19.68	135.8	8.94	5.4	7.2
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS5	15:14	4.6	Middle	2	1	30.03	8.27	25.16	88.6	5.83	6.2	7.8
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS5	15:14	4.6	Middle	2	2	29.86	8.27	25.41	87.3	5.78	6.4	6.4
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS5	15:14	8.1	Bottom	3	1	29.61	8.32	28.22	78.8	5.14	6.5	7.4
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS5	15:14	8.1	Bottom	3	2	29.53	8.28	28.20	75.4	4.97	6.5	7.0
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS(Mf)6	15:28	1.0	Surface	1	1	31.54	8.55	19.52	156.2	10.31	2.4	5.6
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS(Mf)6	15:28	1.0	Surface	1	2	31.54	8.54	19.68	155.3	10.25	2.3	5.8
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS(Mf)6	15:28	2.1	Bottom	3	1	31.57	8.56	19.95	148.4	9.91	2.3	5.3
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS(Mf)6	15:28	2.1	Bottom	3	2	31.55	8.55	20.07	147.8	9.89	2.3	6.9
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS7	15:43	1.0	Surface	1	1	31.66	8.47	20.13	152.1	10.07	4.5	8.4
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS7	15:43	1.0	Surface	1	2	31.65	8.48	19.94	152.5	10.11	4.6	7.7
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS7	15:43	2.1	Bottom	3	1	31.64	8.46	19.82	145.2	9.58	4.6	7.3
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS7	15:43	2.1	Bottom	3	2	31.65	8.44	20.04	144.1	9.47	4.5	7.6
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS8	16:12	1.0	Surface	1	1	30.87	8.27	22.57	96.8	6.38	9.7	10.8
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS8	16:12	1.0	Surface	1	2	30.76	8.26	22.58	96.0	6.31	9.8	12.1
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS8	16:12	3.4	Bottom	3	1	30.56	8.25	23.50	93.2	6.14	10.6	12.8
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS8	16:12	3.4	Bottom	3	2	30.64	8.25	23.46	93.2	6.15	10.5	11.9
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS(Mf)9	15:53	1.0	Surface	1	1	31.28	8.51	21.04	131.8	8.63	6.0	7.5
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS(Mf)9	15:53	1.0	Surface	1	2	31.28	8.51	21.13	133.5	8.80	6.2	7.4
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS(Mf)9	15:53	2.8	Bottom	3	1	31.20	8.49	22.23	114.4	7.50	8.2	8.4
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS(Mf)9	15:53	2.8	Bottom	3	2	31.24	8.49	22.36	122.3	8.06	8.2	8.3
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS10(N)	15:45	1.0	Surface	1	1	30.69	7.84	21.15	87.2	5.66	2.8	4.1
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS10(N)	15:45	1.0	Surface	1	2	30.82	7.86	21.02	86.8	5.77	2.7	3.2
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS10(N)	15:45	5.3	Middle	2	1	29.83	7.76	25.88	84.9	5.55	3.8	4.2
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS10(N)	15:45	5.3	Middle	2	2	29.79	7.75	26.22	82.6	5.50	3.6	4.2
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS10(N)	15:45	9.6	Bottom	3	1	30.30	7.79	26.84	76.4	5.03	3.2	3.9
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	IS10(N)	15:44	9.6	Bottom	3	2	29.70	7.74	27.21	77.5	5.13	3.4	3.5
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR3(N)	15:01	1.0	Surface	1	1	31.48	8.57	18.54	125.2	8.35	5.5	8.4
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR3(N)	15:01	1.0	Surface	1	2	31.34	8.54	18.33	124.6	8.33	5.6	9.2
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR3(N)	15:01	2.2	Bottom	3	1	31.22	8.54	18.93	115.3	7.75	5.5	8.8
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR3(N)	15:01	2.2	Bottom	3	2	30.86	8.55	18.85	114.9	7.72	5.5	10.4
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR4(N)	16:05	1.0	Surface	1	1	31.04	8.32	22.28	102.7	6.74	9.7	10.7
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR4(N)	16:06	1.0	Surface	1	2	30.86	8.26	22.76	101.1	6.65	9.7	10.5
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR4(N)	16:05	2.7	Bottom	3	1	30.79	8.32	23.32	97.1	6.38	9.8	10.4
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR4(N)	16:05	2.7	Bottom	3	2	30.63	8.26	23.64	94.6	6.22	9.9	11.5
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR5(N)	15:34	1.0	Surface	1	1	30.51	7.81	21.42	85.4	5.59	2.7	3.4
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR5(N)	15:34	1.0	Surface	1	2	30.81	7.85	21.12	88.8	5.90	2.8	3.7
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR5(N)	15:34	4.4	Middle	2	1	29.93	7.75	25.16	82.4	5.49	3.5	3.9
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR5(N)	15:34	4.4	Middle	2	2	29.90	7.76	25.41	83.5	5.49	3.2	3.1

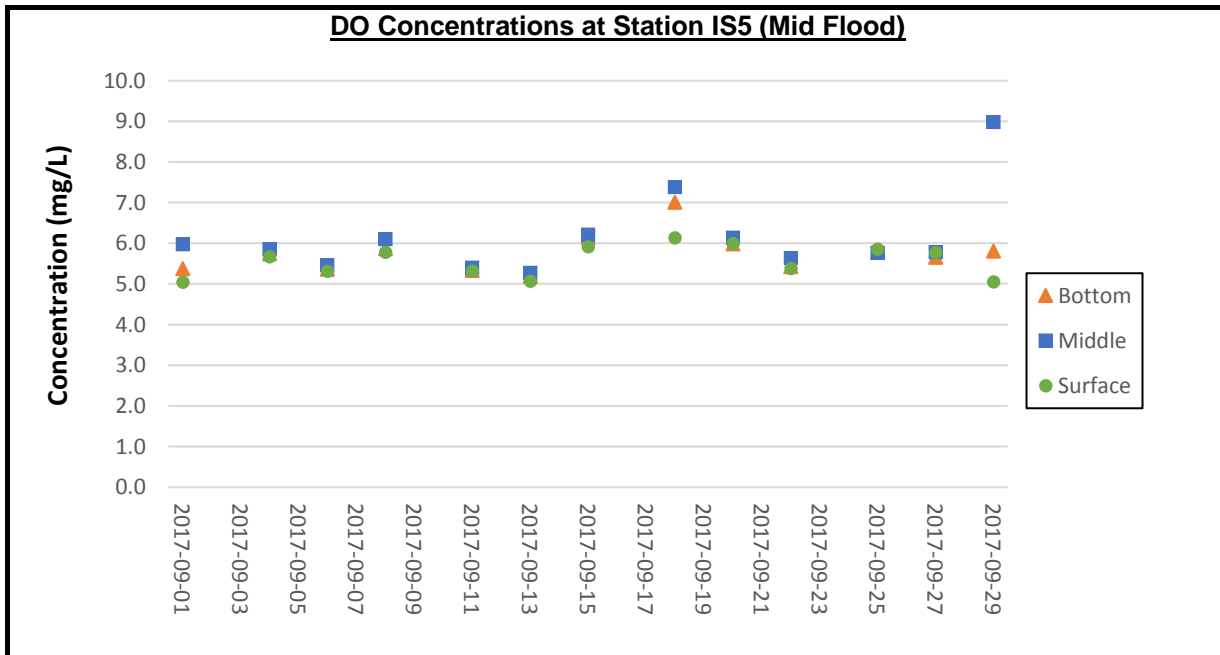
Water Quality Monitoring Data

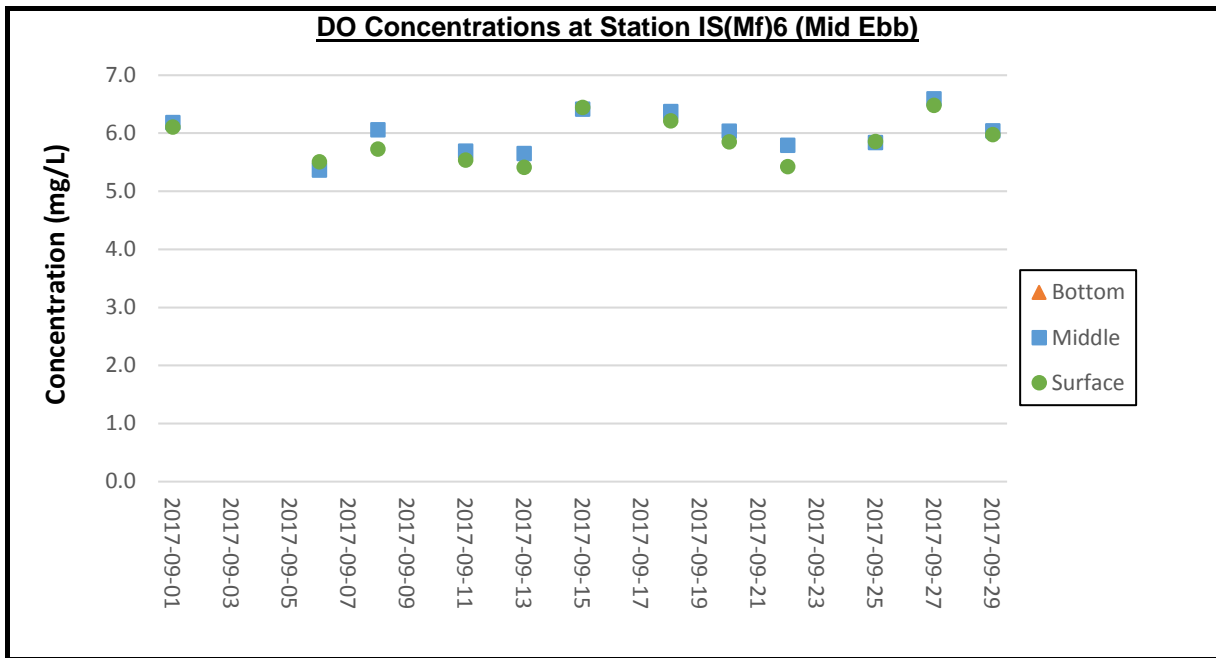
Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR5(N)	15:33	7.7	Bottom	3	1	29.86	7.76	25.80	79.3	5.22	3.4	2.3
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR5(N)	15:34	7.7	Bottom	3	2	30.02	7.77	26.05	77.5	5.10	3.3	3.4
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR10A(N)	16:46	1.0	Surface	1	1	29.89	7.82	28.32	85.1	5.51	1.6	2.1
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR10A(N)	16:47	1.0	Surface	1	2	29.93	7.83	27.61	84.6	5.46	1.5	3.5
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR10A(N)	16:47	7	Middle	2	1	29.66	7.82	29.80	81.6	5.31	1.7	3.5
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR10A(N)	16:46	7	Middle	2	2	29.71	7.79	29.68	82.7	5.33	1.6	2.9
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR10A(N)	16:46	12.9	Bottom	3	1	29.68	7.77	29.80	78.9	5.09	1.6	3.2
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR10A(N)	16:47	12.9	Bottom	3	2	29.67	7.82	29.79	81.5	5.26	1.6	3.3
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR10B(N2)	16:59	1.0	Surface	1	1	29.96	7.85	27.67	87.5	5.68	1.5	1.1
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR10B(N2)	16:59	1.0	Surface	1	2	30.12	7.84	27.46	86.5	5.61	1.5	1.1
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR10B(N2)	16:59	3.8	Middle	2	1	29.96	7.86	29.13	87.8	5.66	1.6	1.2
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR10B(N2)	16:59	3.8	Middle	2	2	29.95	7.87	29.16	88.1	5.68	1.5	1.2
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR10B(N2)	16:59	6.6	Bottom	3	1	29.95	7.86	29.16	87.2	5.62	2.1	1.5
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	SR10B(N2)	16:59	6.6	Bottom	3	2	29.93	7.84	29.19	86.1	5.55	2.0	1.3
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	CS2(A)	14:37	1.0	Surface	1	1	30.00	7.92	27.76	82.0	5.31	3.5	2.3
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	CS2(A)	14:36	1.0	Surface	1	2	30.01	7.90	26.66	82.5	5.39	3.4	3.9
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	CS2(A)	14:37	3.9	Middle	2	1	29.44	7.90	29.67	79.4	5.16	3.9	2.8
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	CS2(A)	14:36	3.9	Middle	2	2	29.43	7.90	29.80	79.3	5.14	3.9	4.0
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	CS2(A)	14:37	6.8	Bottom	3	1	29.44	7.91	29.99	79.1	5.12	3.8	3.5
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	CS2(A)	14:36	6.8	Bottom	3	2	29.45	7.89	29.96	77.2	5.02	3.9	2.9
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	CS(Mf)5	16:49	1.0	Surface	1	1	30.40	8.31	25.87	86.3	5.62	1.9	1.9
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	CS(Mf)5	16:48	1.0	Surface	1	2	30.36	8.32	25.76	85.9	5.55	1.9	1.9
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	CS(Mf)5	16:48	6.5	Middle	2	1	29.69	8.29	29.82	80.5	5.16	2.0	1.9
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	CS(Mf)5	16:48	6.5	Middle	2	2	29.76	8.29	29.67	85.1	5.47	2.0	1.6
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	CS(Mf)5	16:48	11.9	Bottom	3	1	29.49	8.28	31.76	77.1	4.97	3.1	2.4
HKLR	HY/2011/03	2017-09-29	Mid-Flood	Fine	CS(Mf)5	16:47	11.9	Bottom	3	2	29.49	8.29	31.70	79.7	5.14	3.0	2.7



Remark:

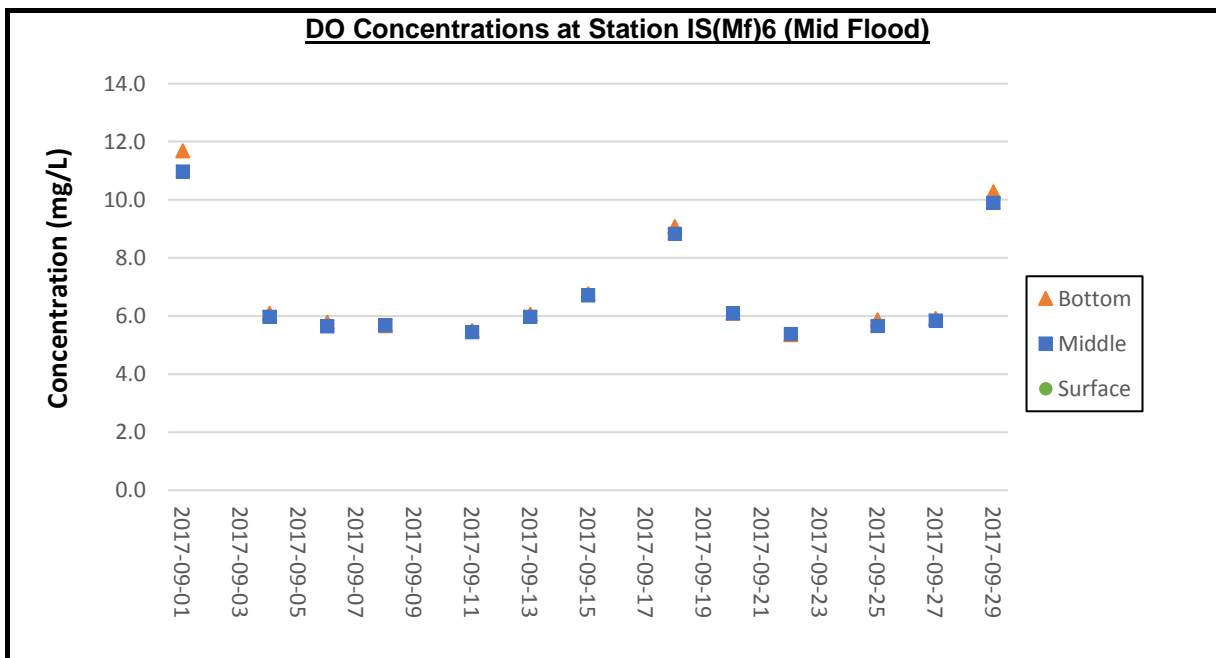
1) Due to the hoisting of Strong Wind Signal and Typhoon Signal No. 3 by the Hong Kong Observatory, the water quality monitoring at mid-ebb tide was cancelled on 4 September 2017. No substitute monitoring was conducted due to boat unavailability.

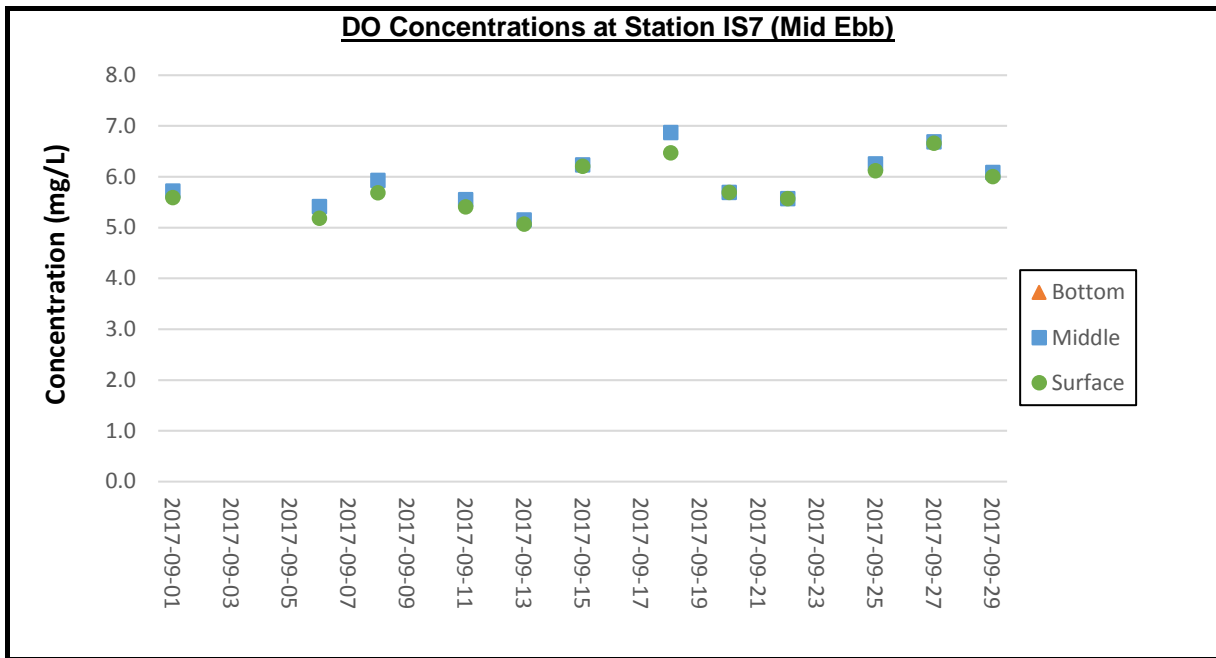




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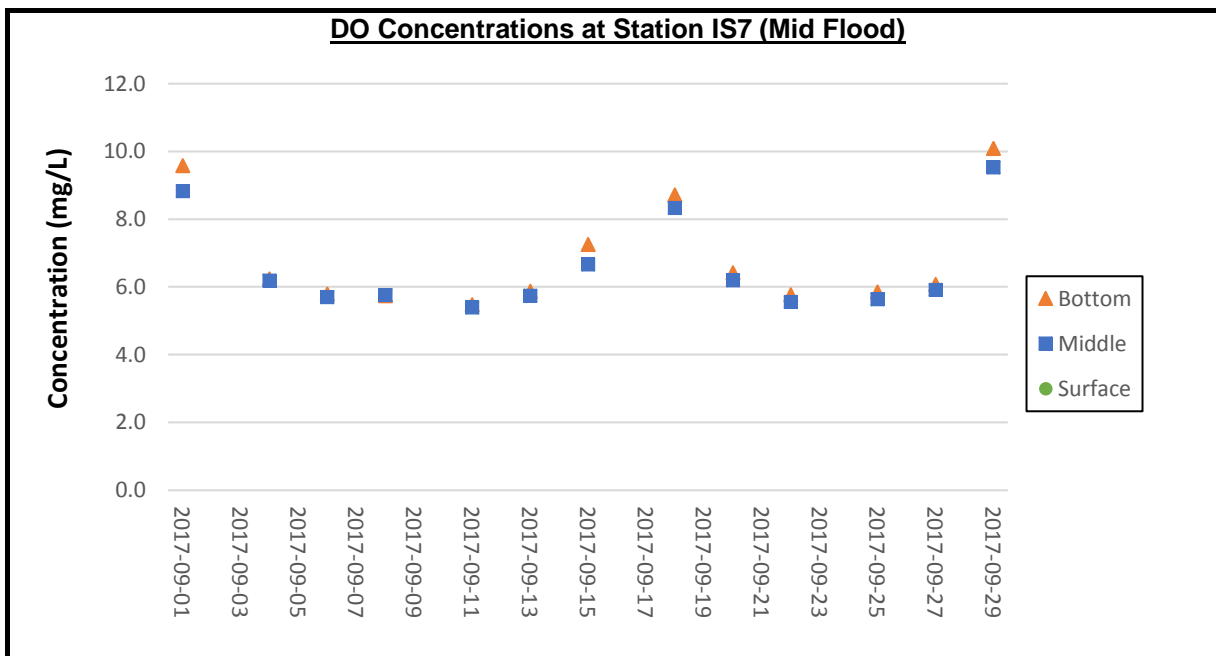
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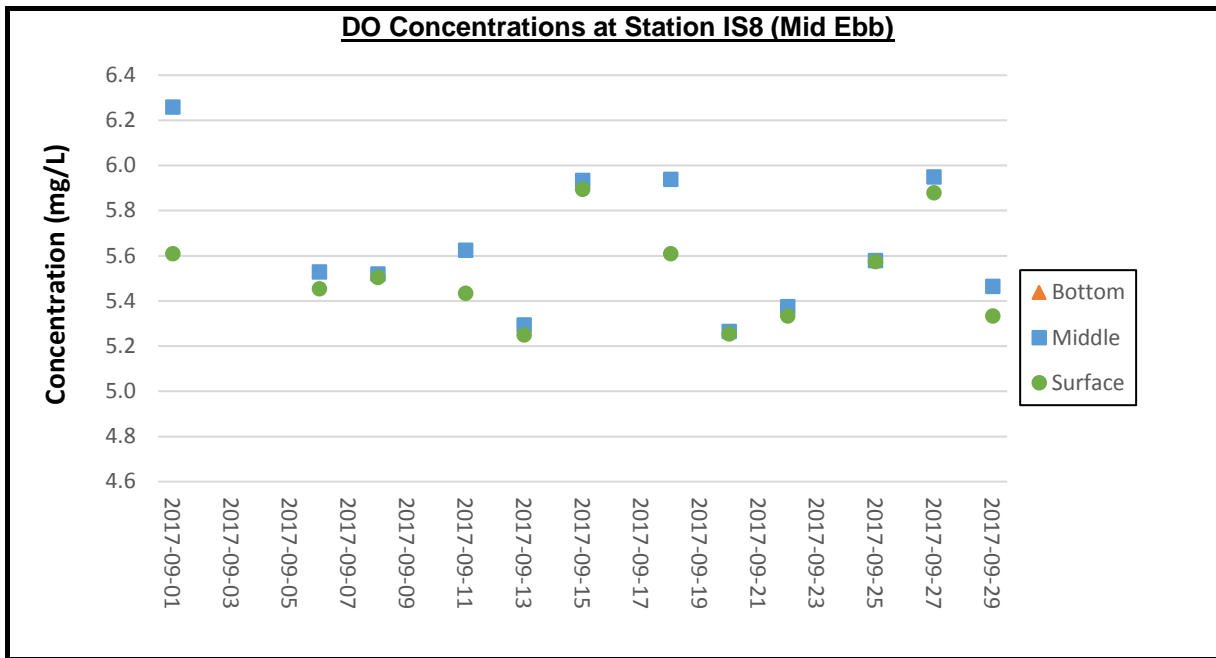




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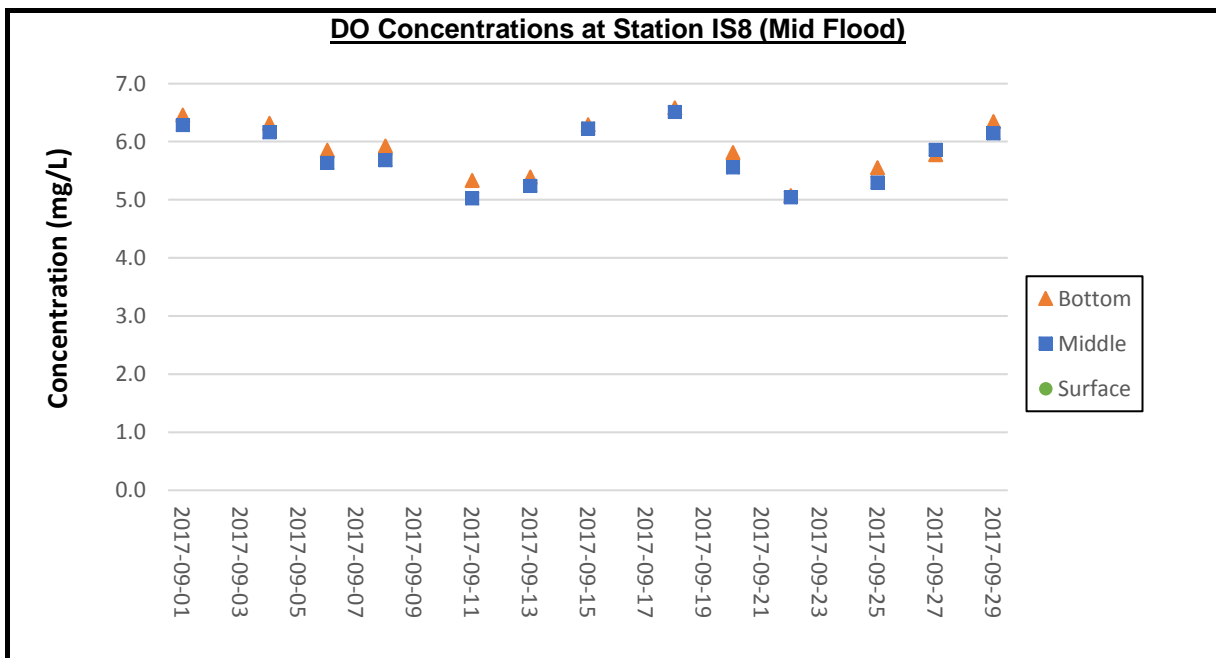
1) Due to the hoisting of Strong Wind Signal and Typhoon Signal No. 3 by the Hong Kong Observatory, the water quality monitoring at mid-ebb tide was cancelled on 4 September 2017. No substitute monitoring was conducted due to boat unavailability.

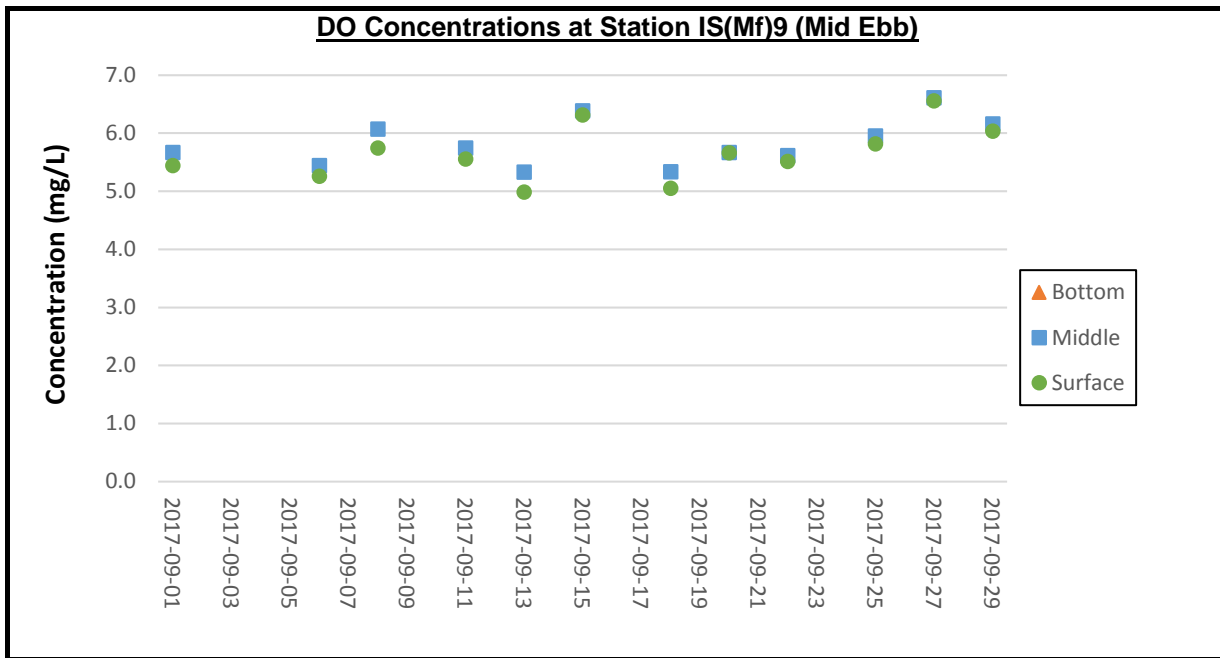




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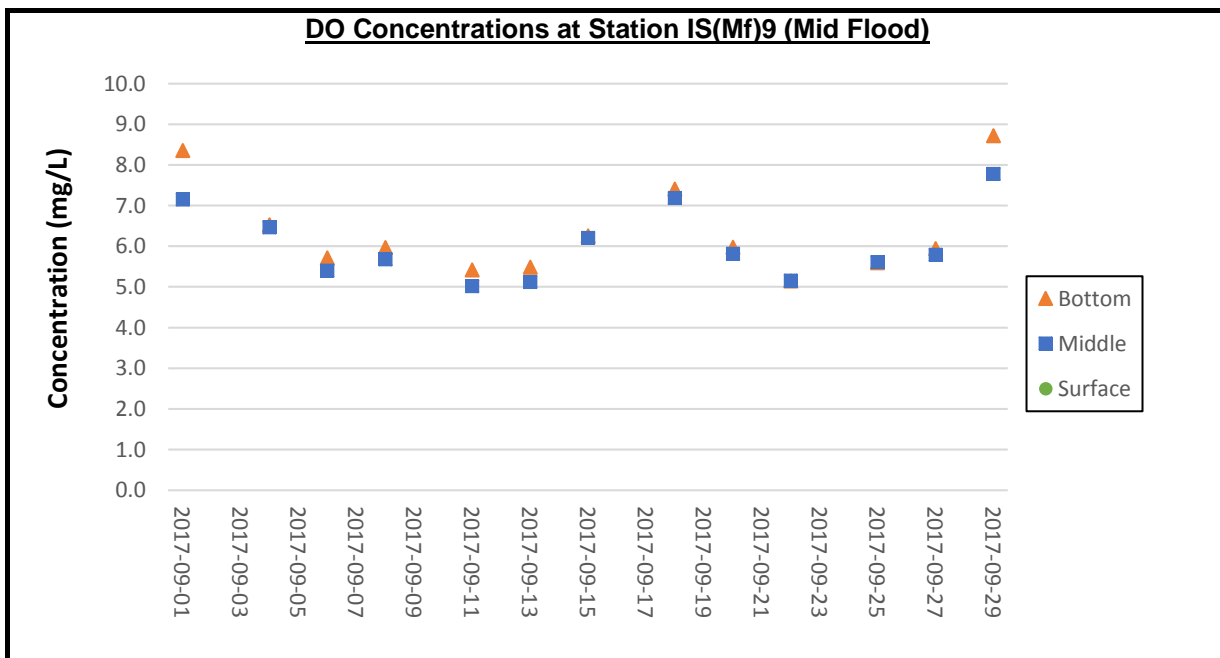
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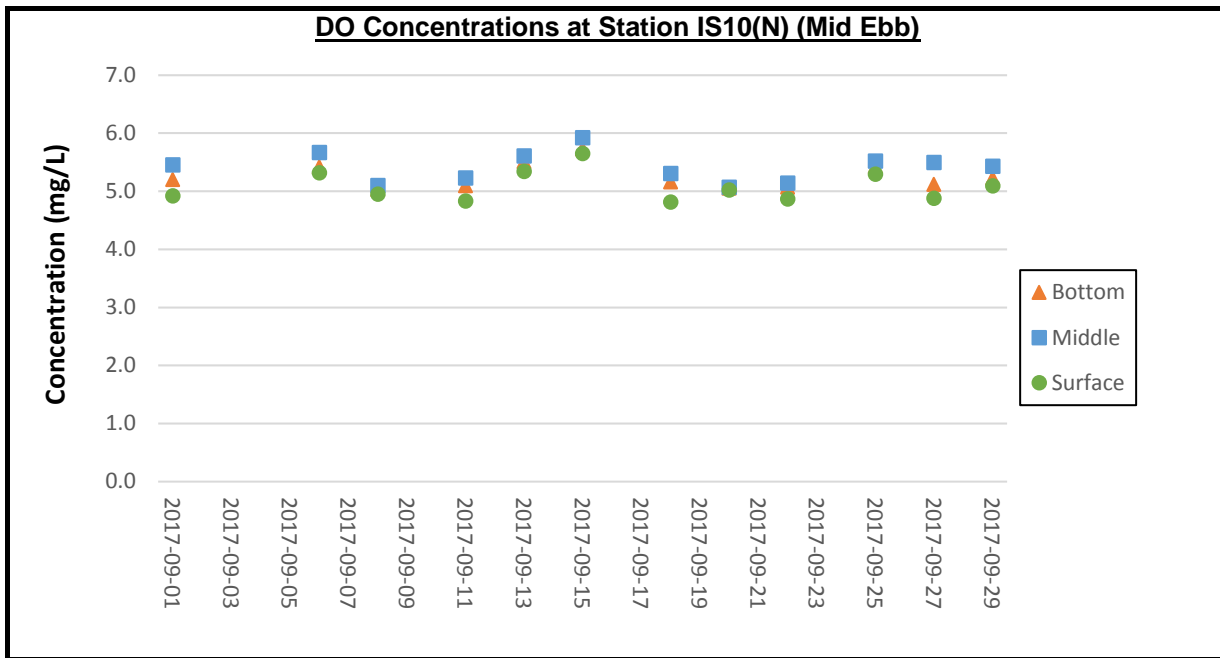




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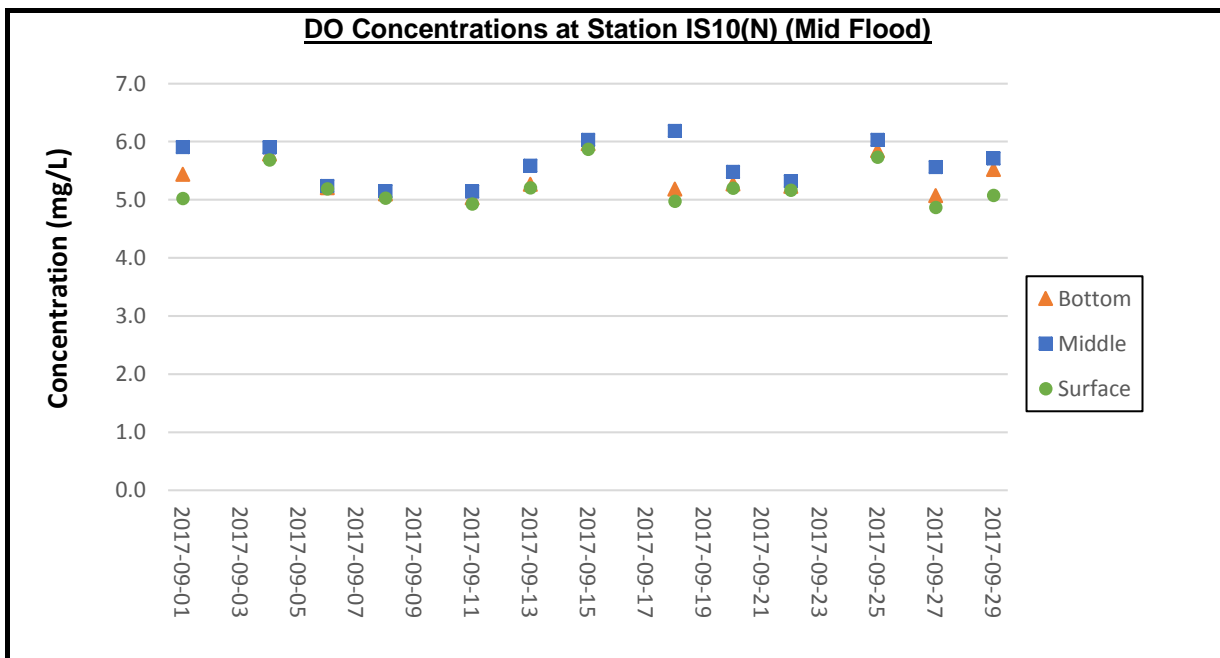
1) Due to the hoisting of Strong Wind Signal and Typhoon Signal No. 3 by the Hong Kong Observatory, the water quality monitoring at mid-ebb tide was cancelled on 4 September 2017. No substitute monitoring was conducted due to boat unavailability.

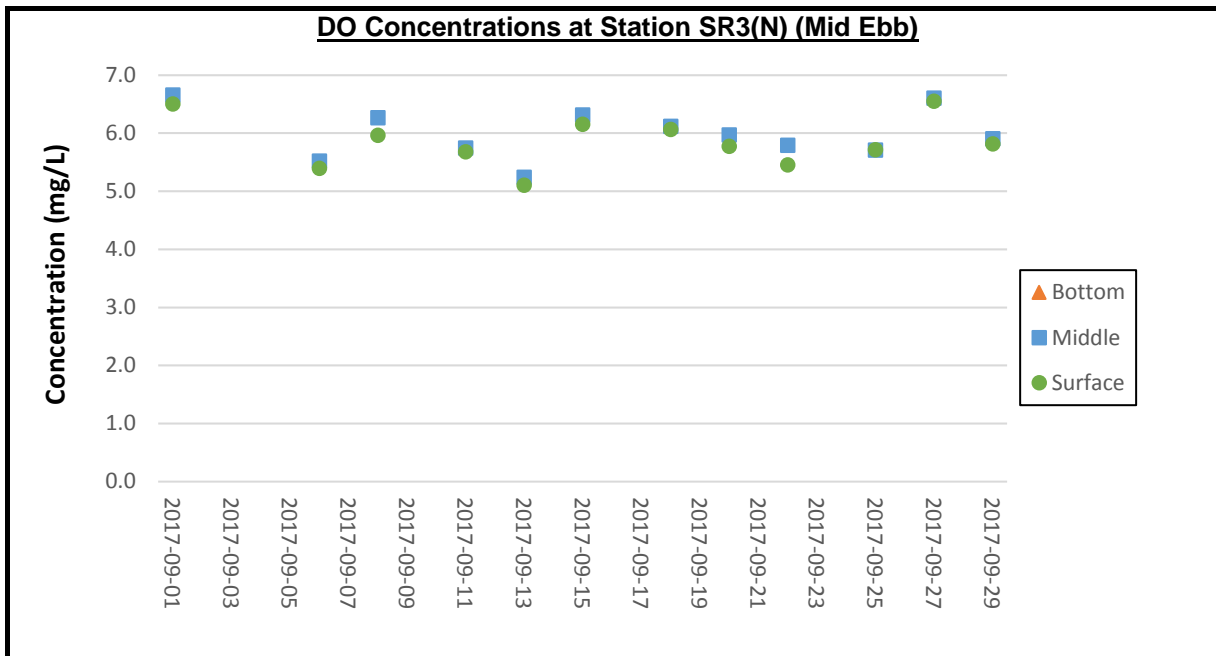




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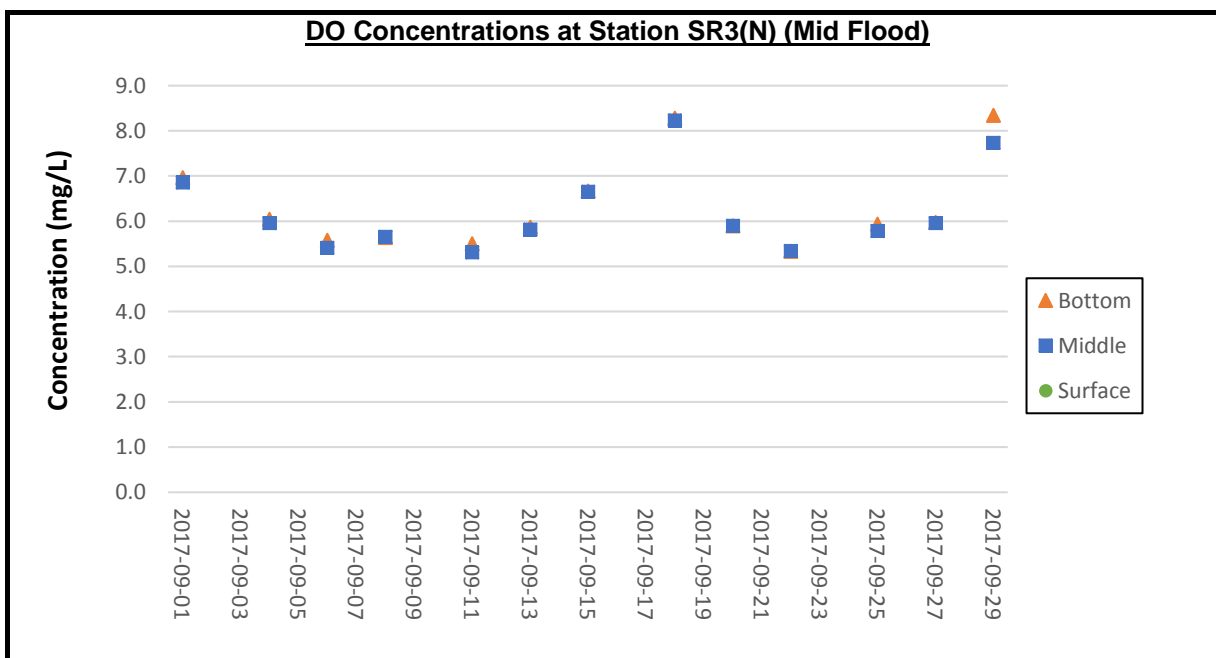
1) Due to the hoisting of Strong Wind Signal and Typhoon Signal No. 3 by the Hong Kong Observatory, the water quality monitoring at mid-ebb tide was cancelled on 4 September 2017. No substitute monitoring was conducted due to boat unavailability.

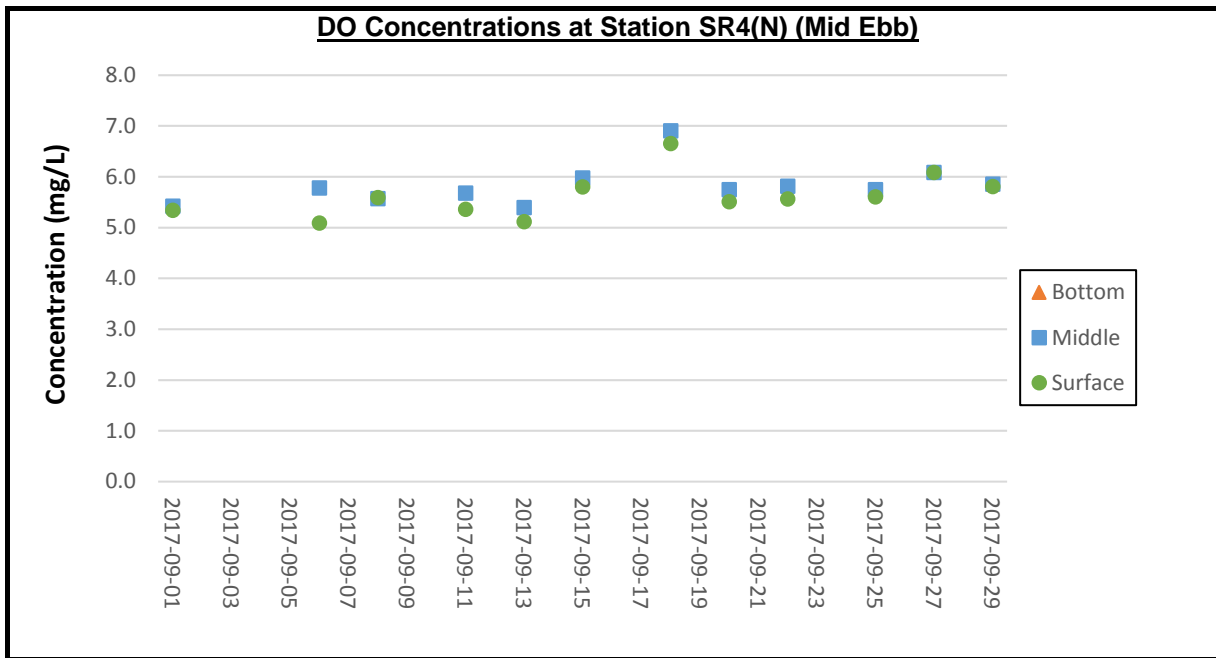




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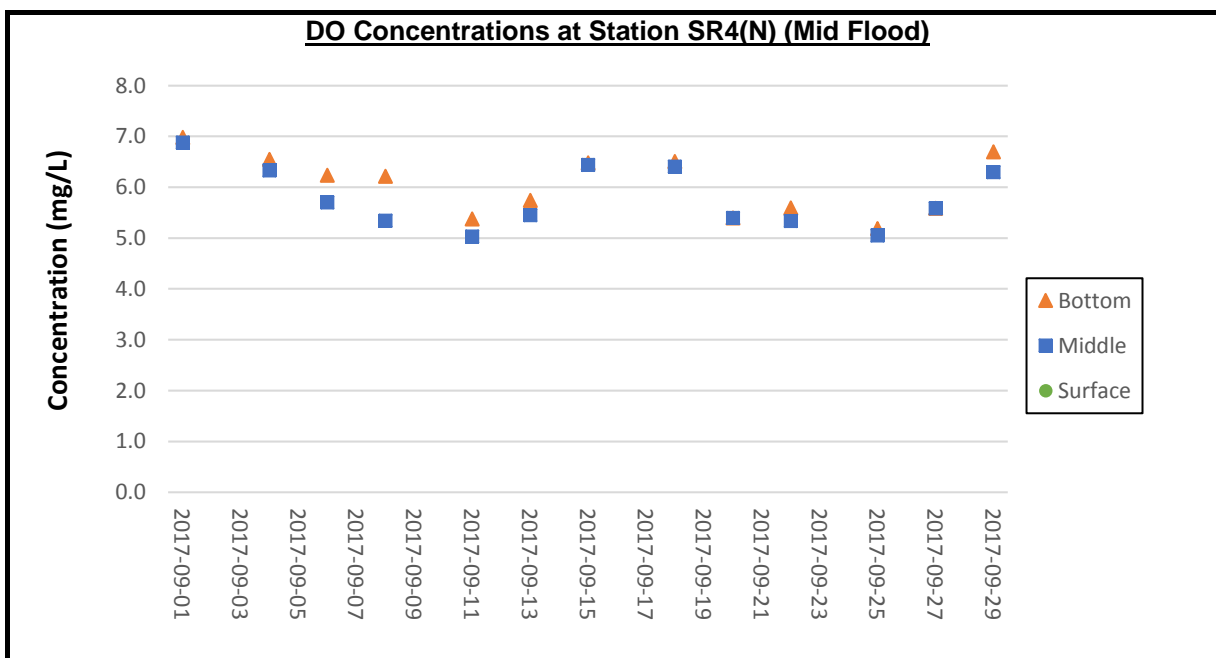
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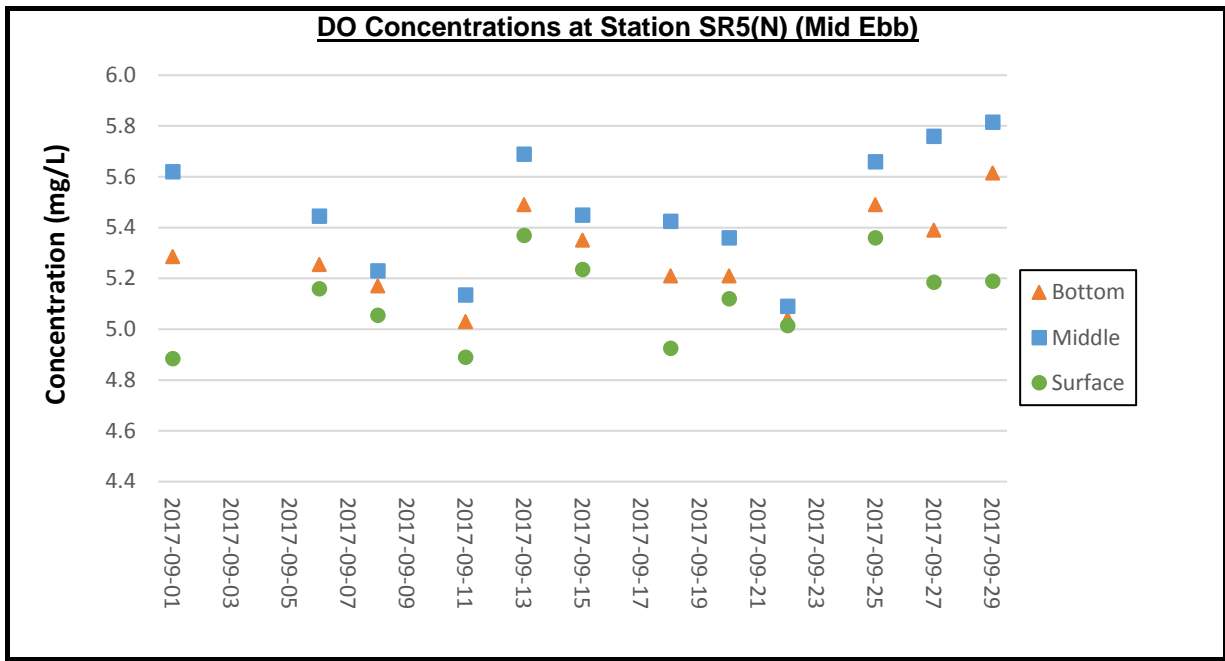




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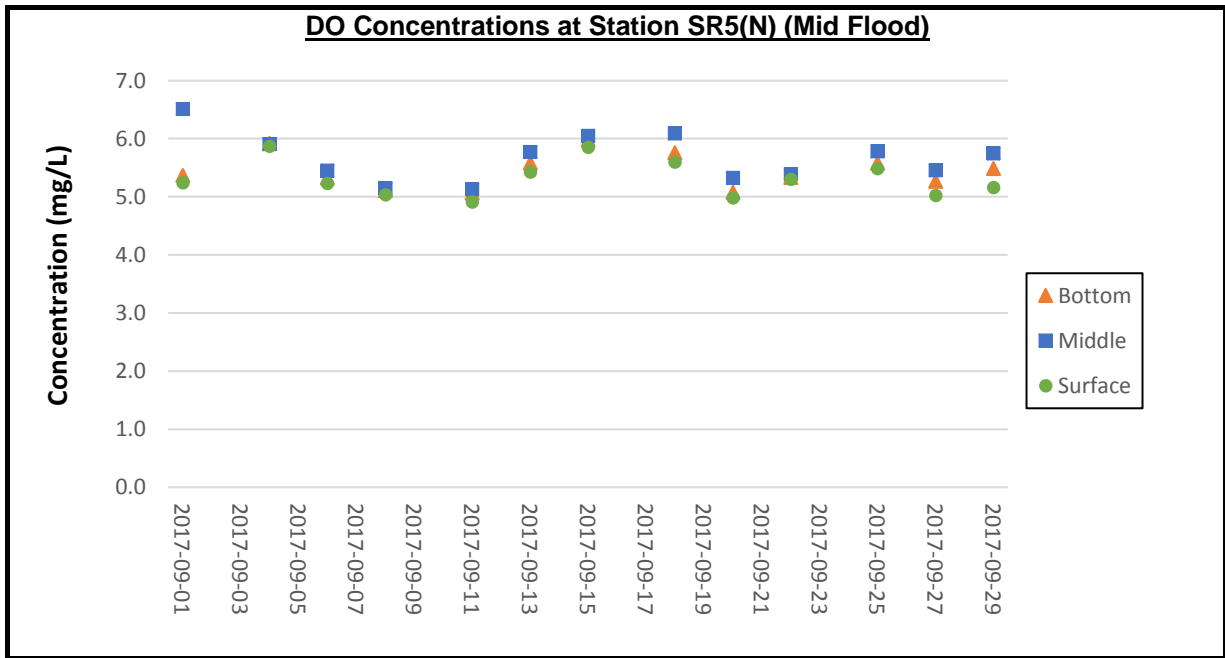
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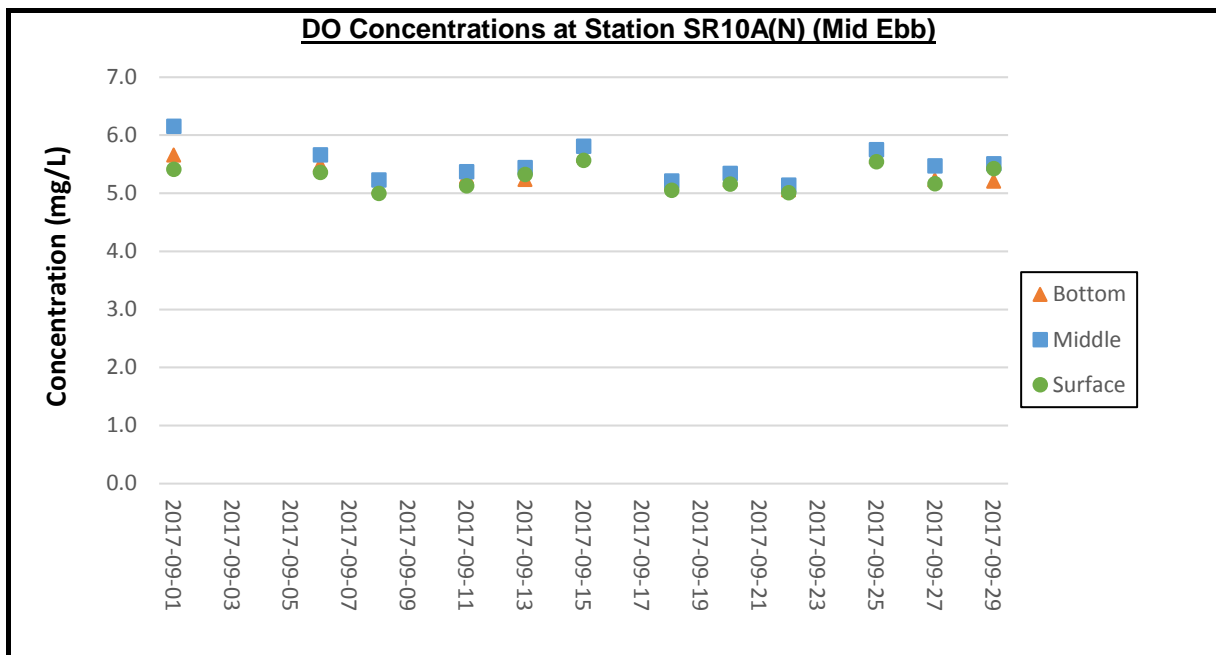




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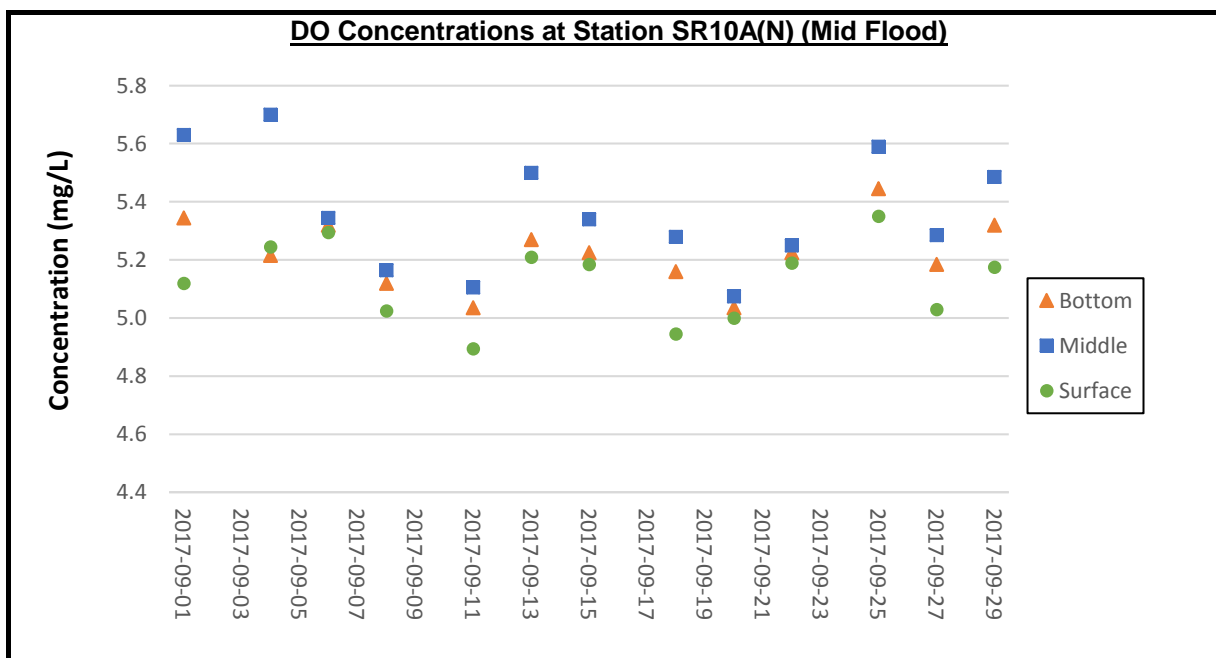
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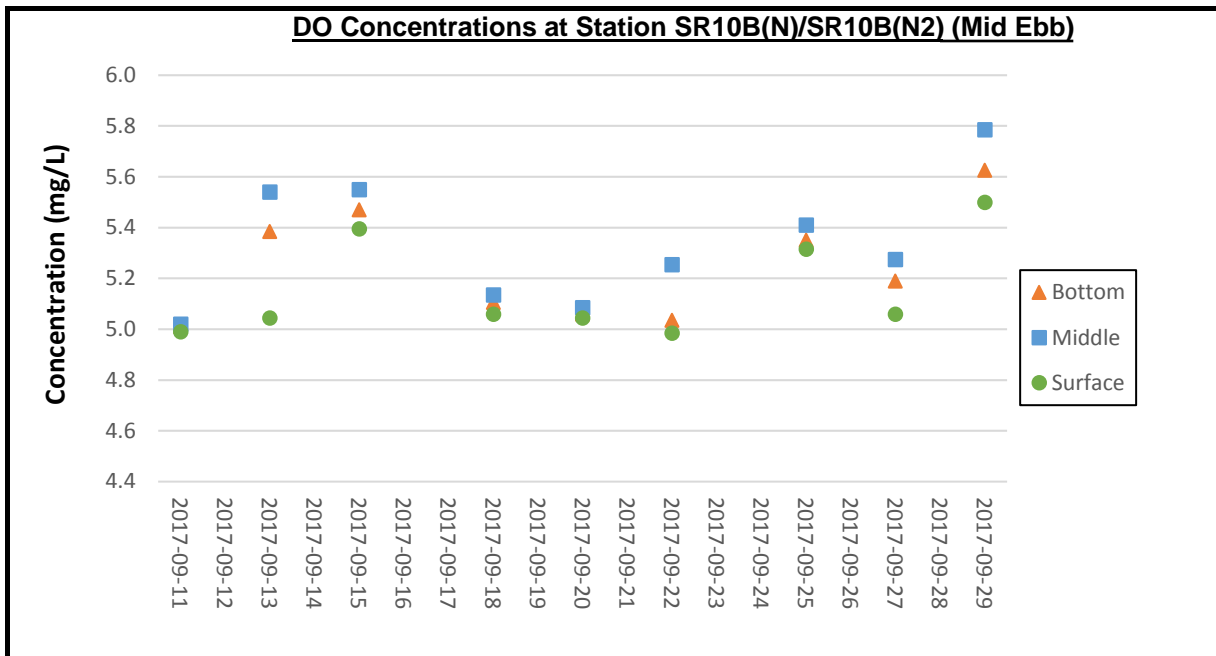




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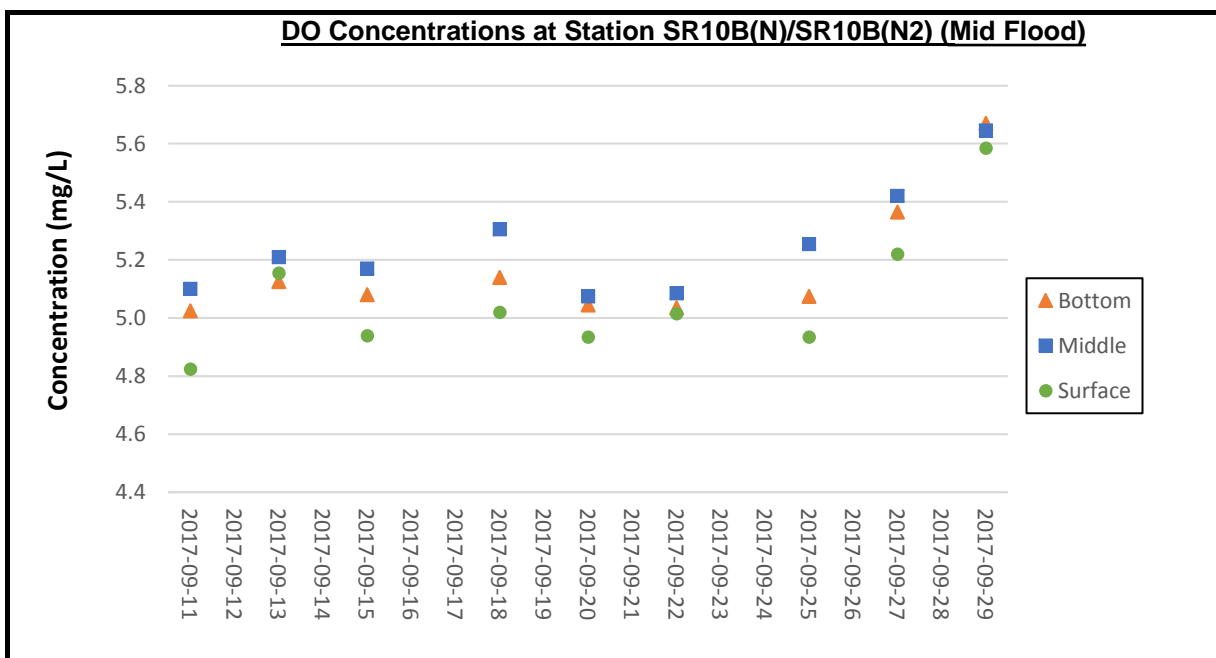
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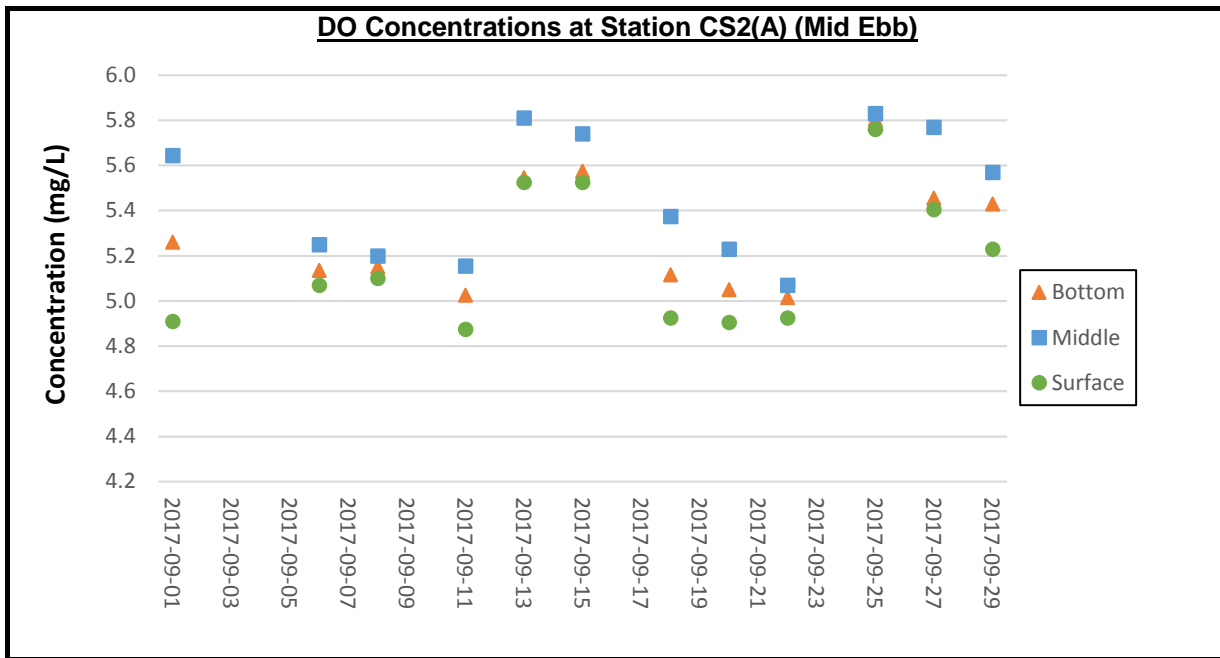




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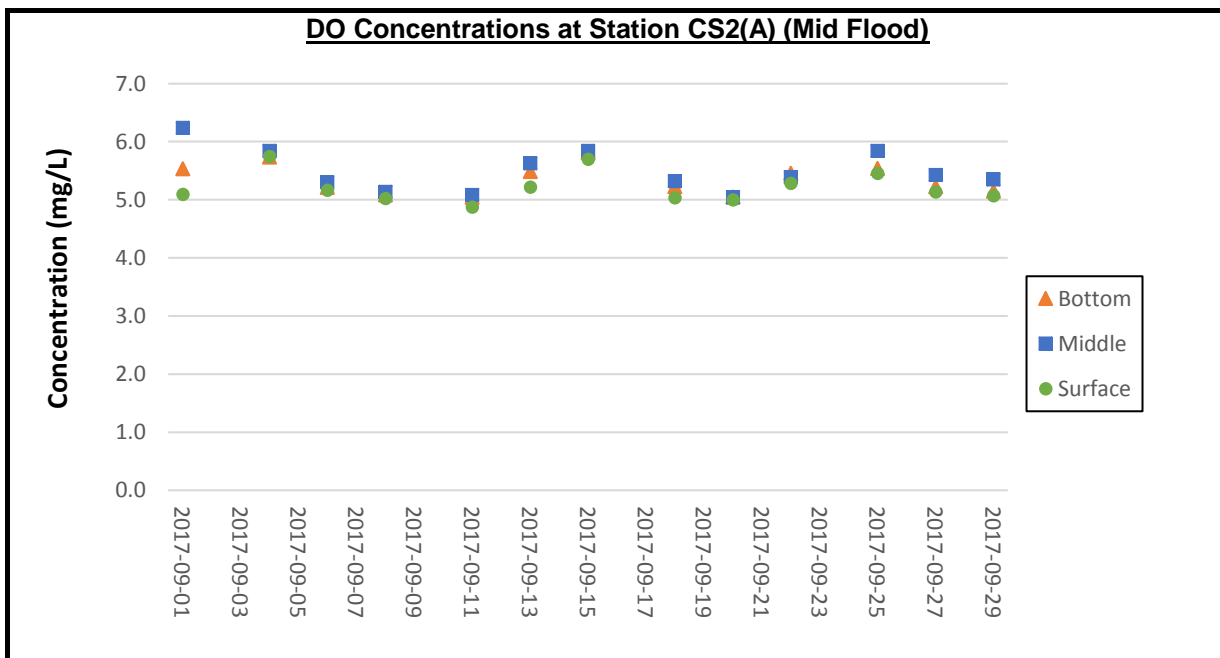
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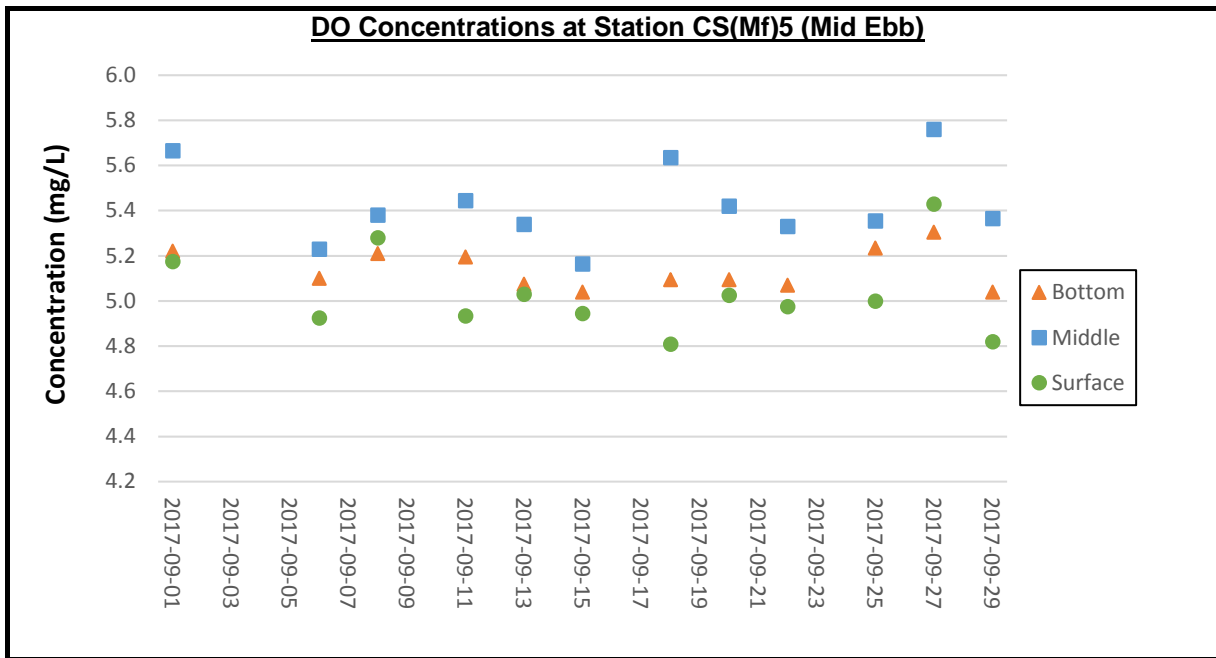




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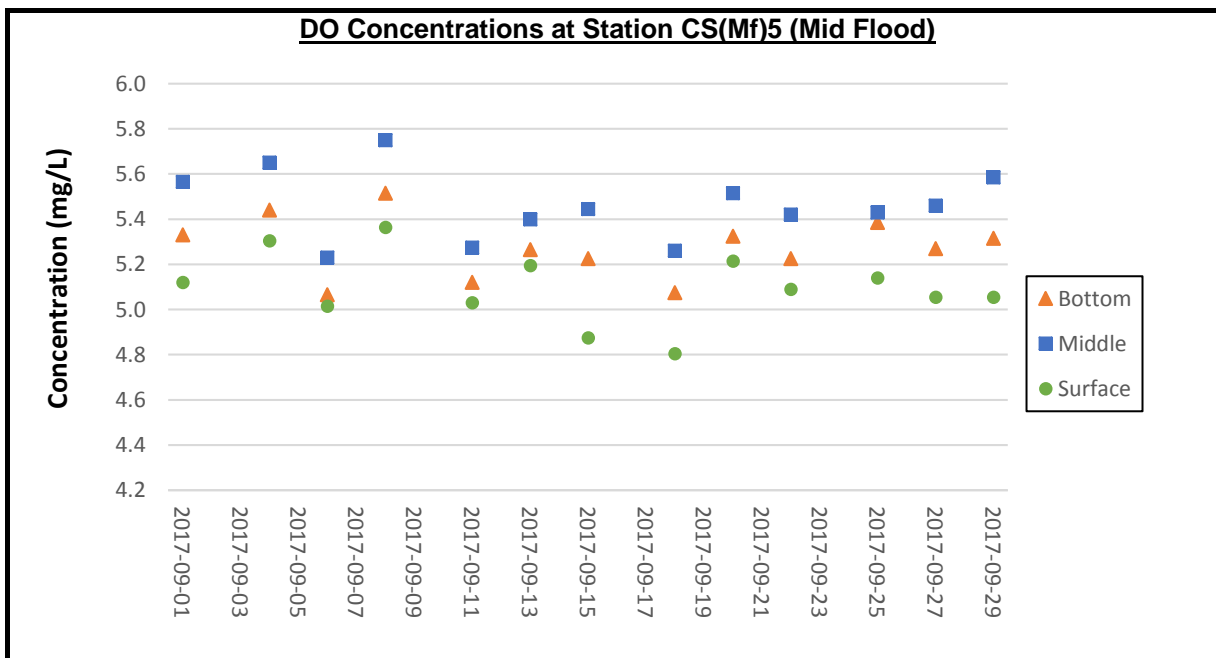
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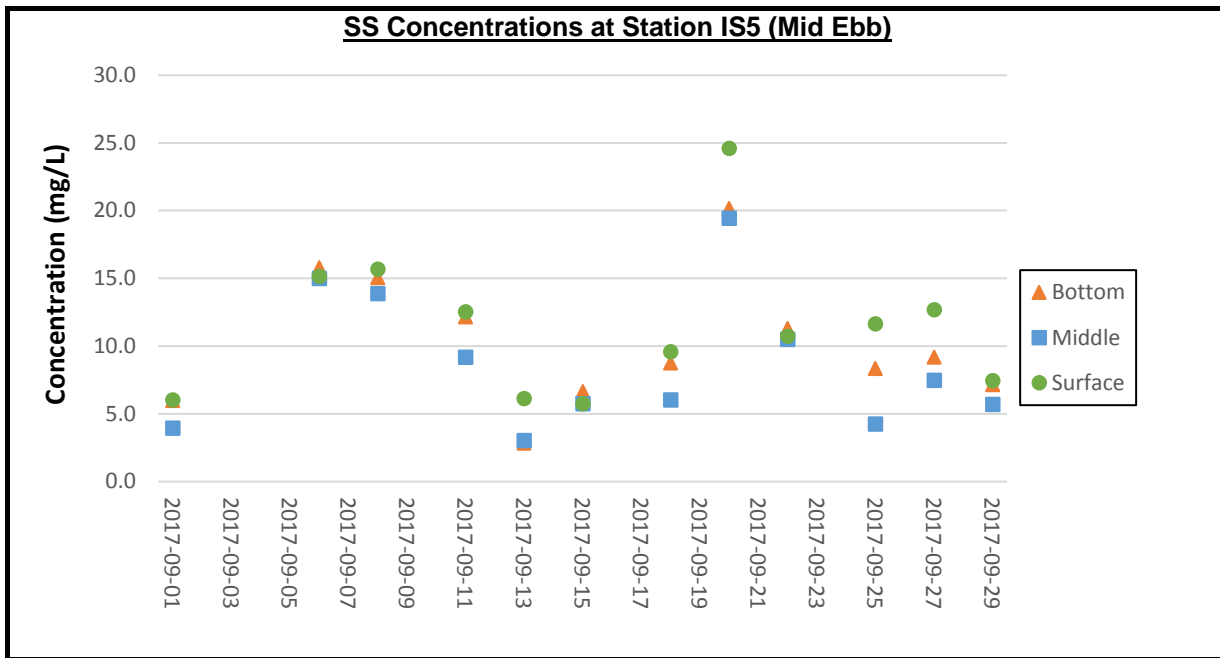




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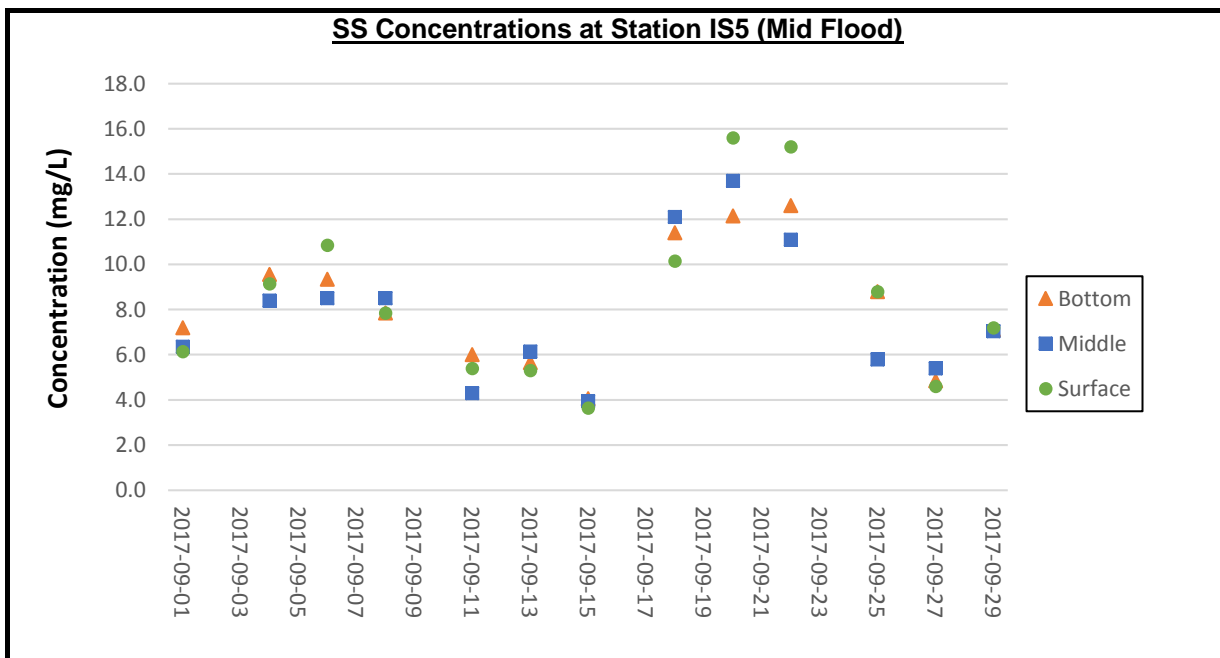
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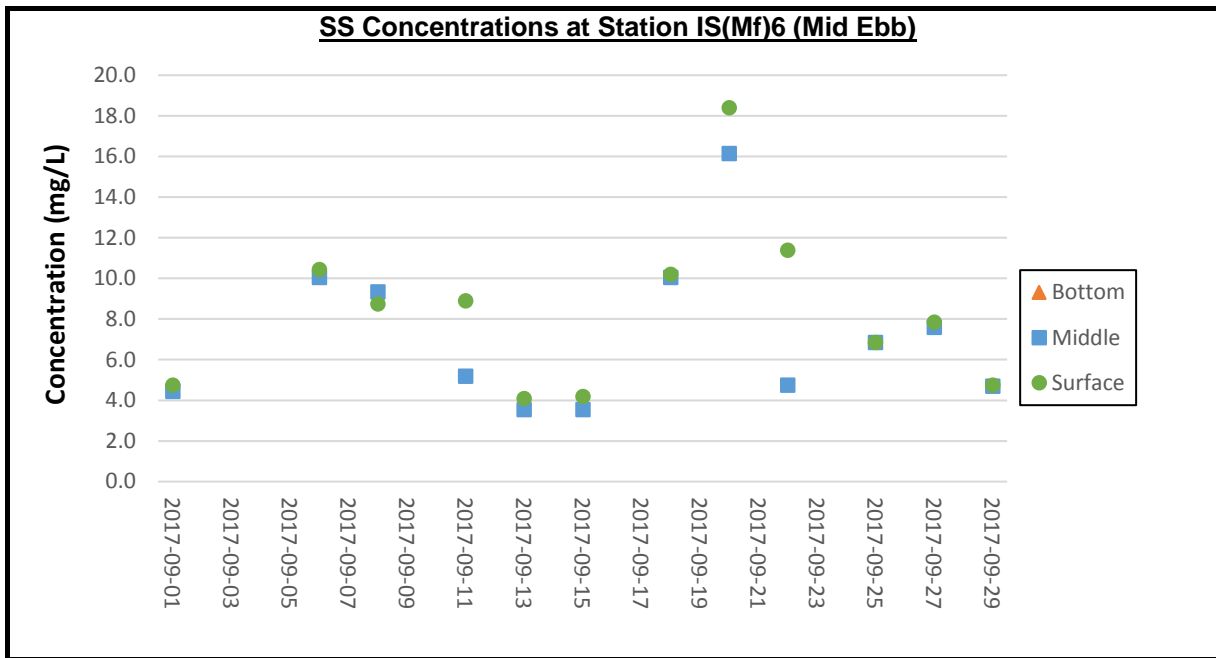




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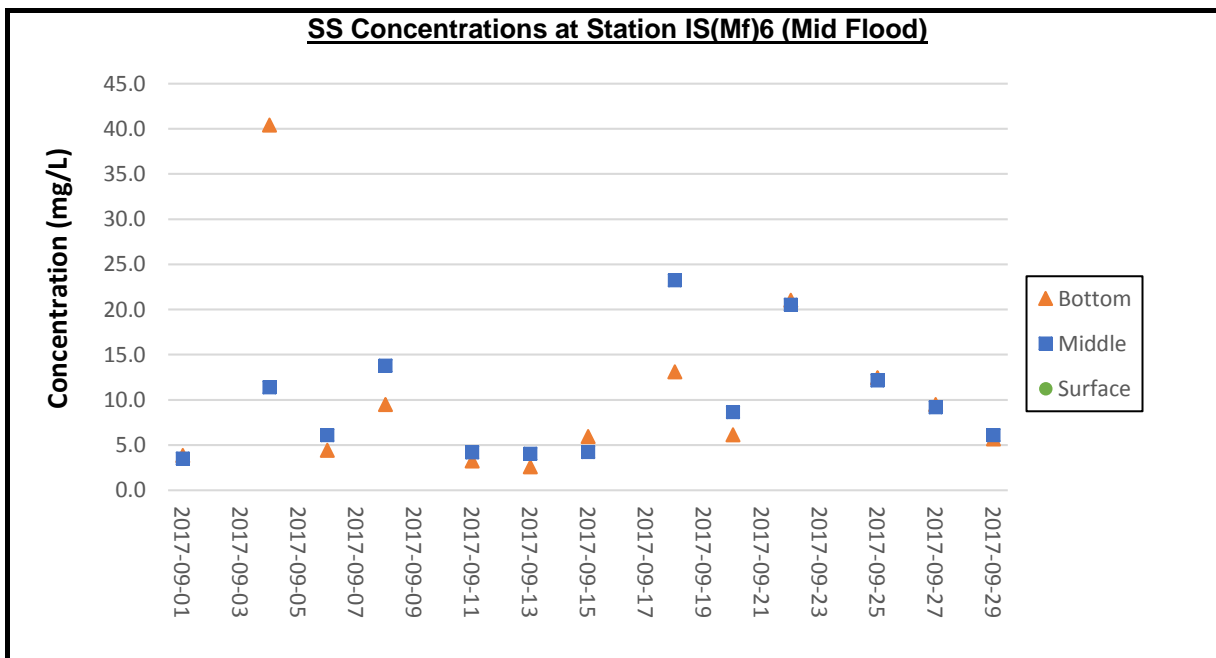
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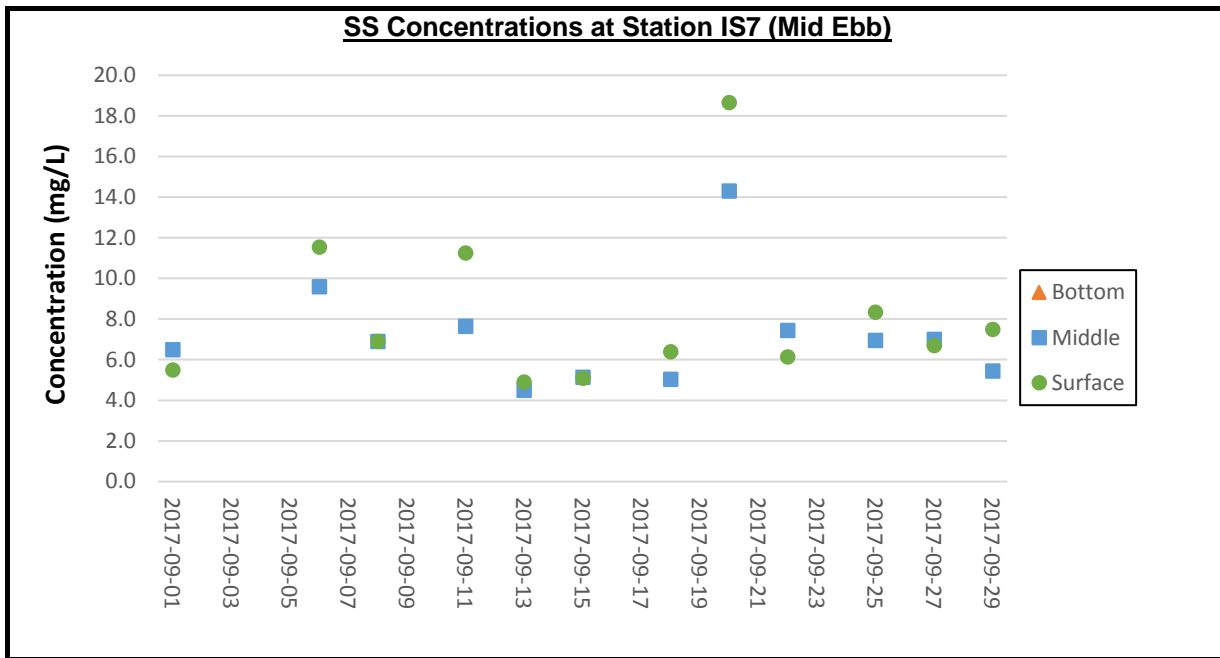




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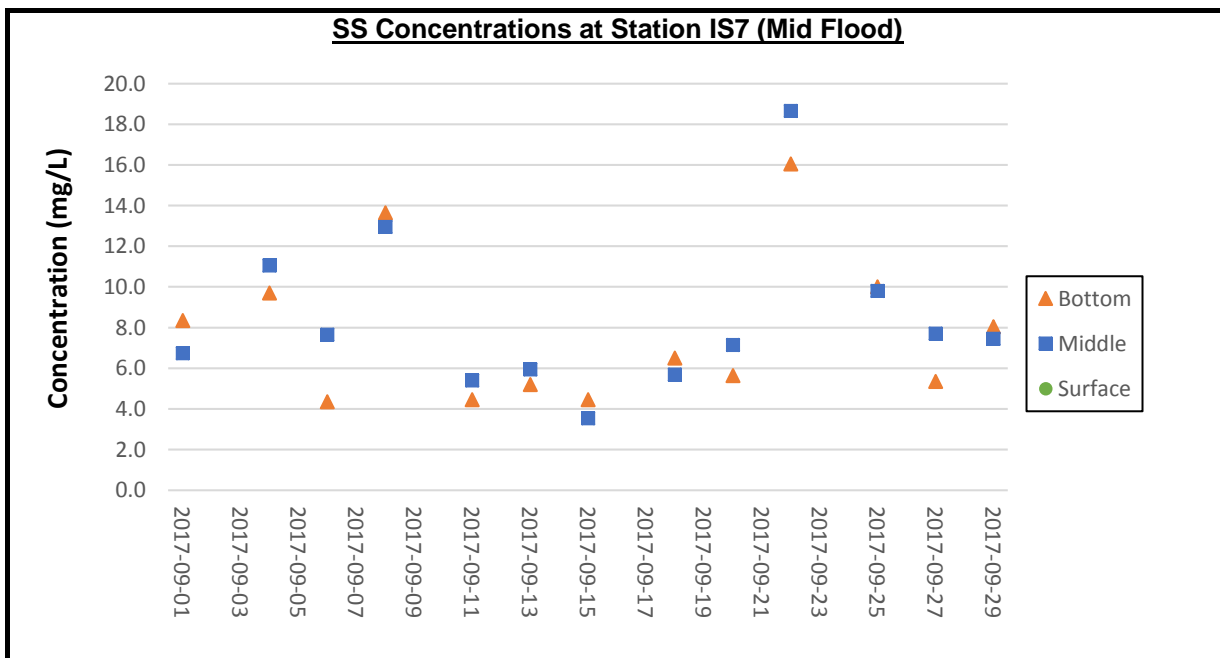
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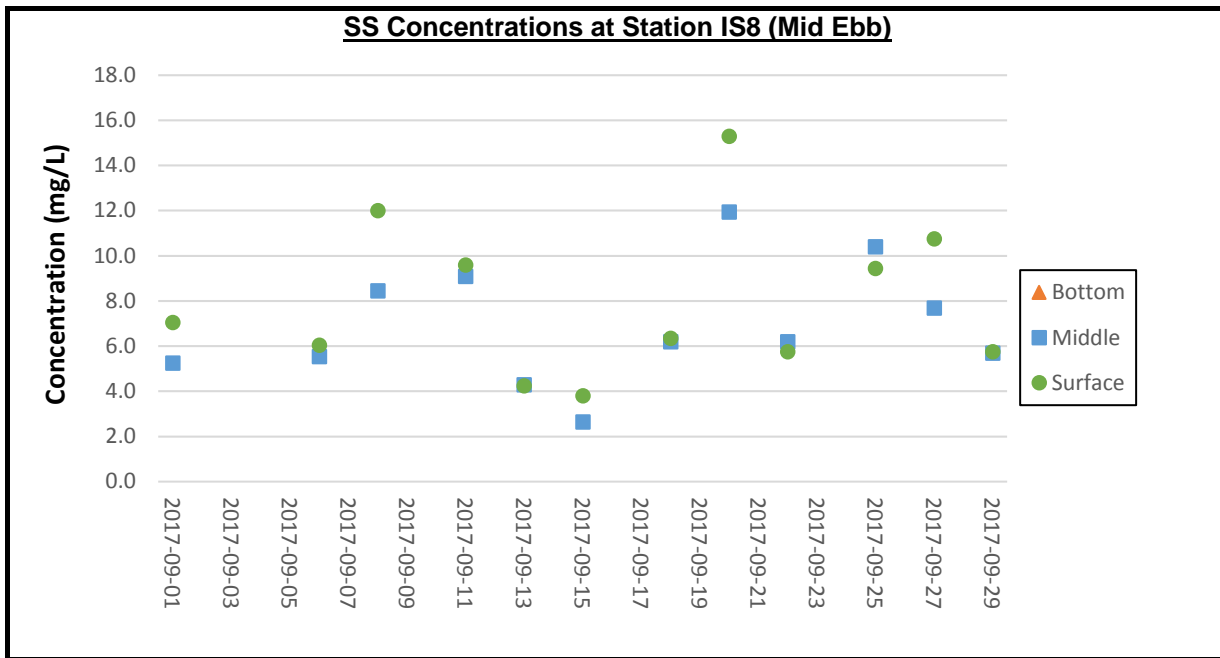




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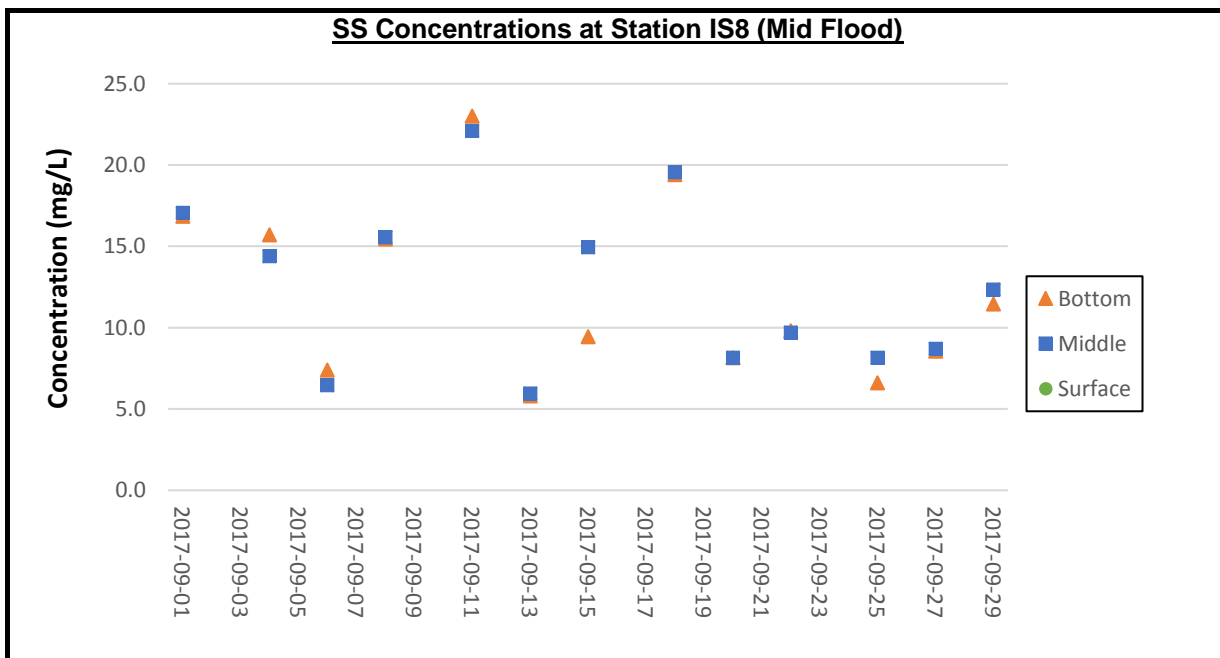
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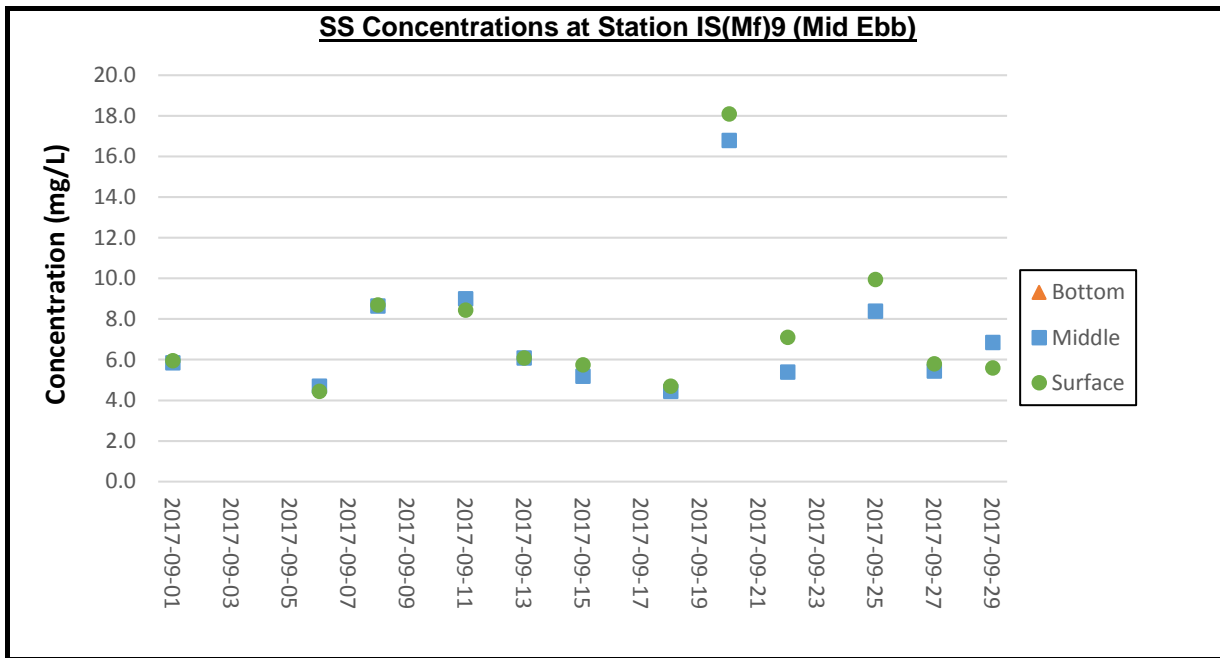




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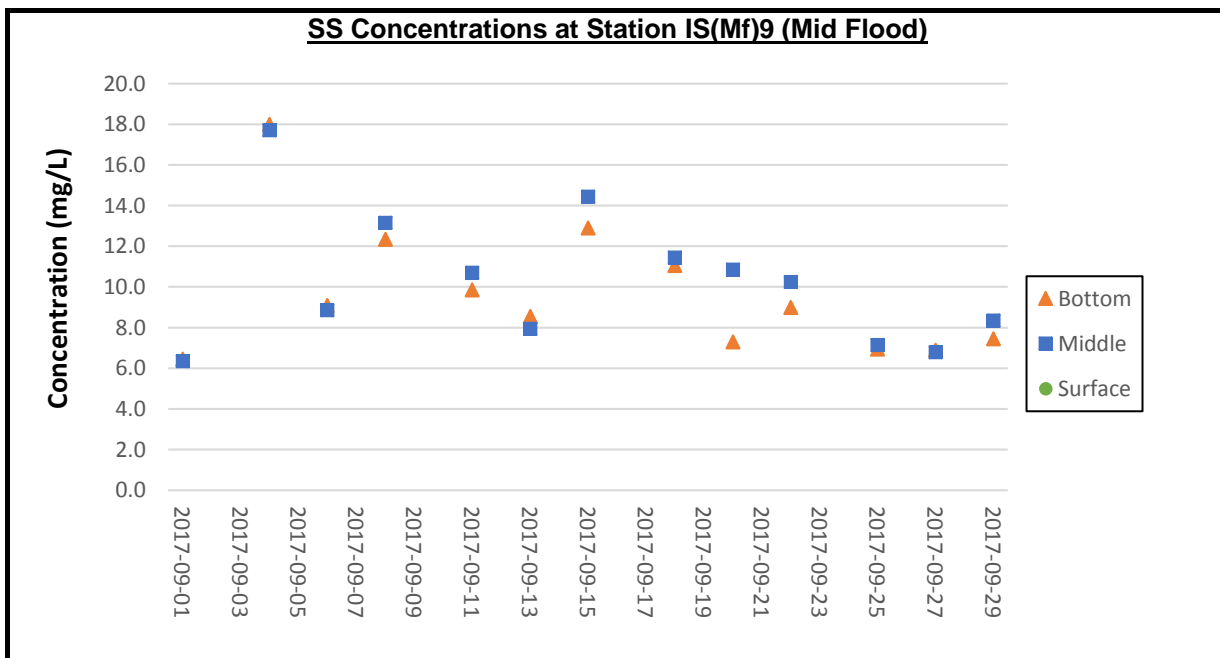
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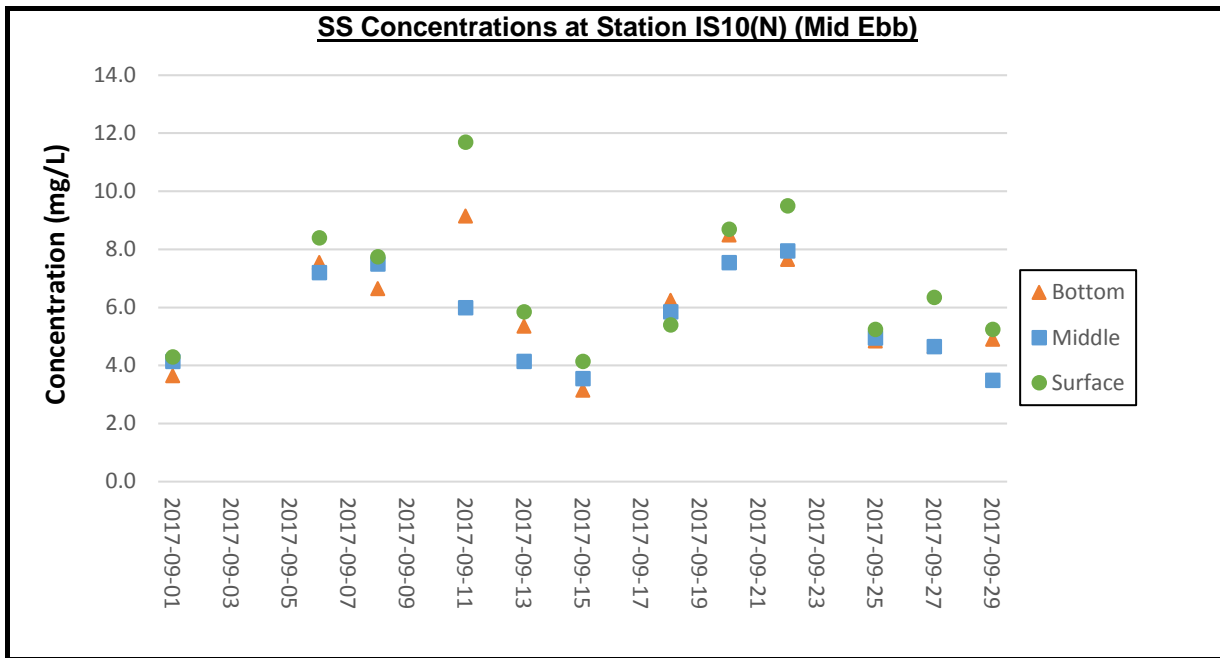




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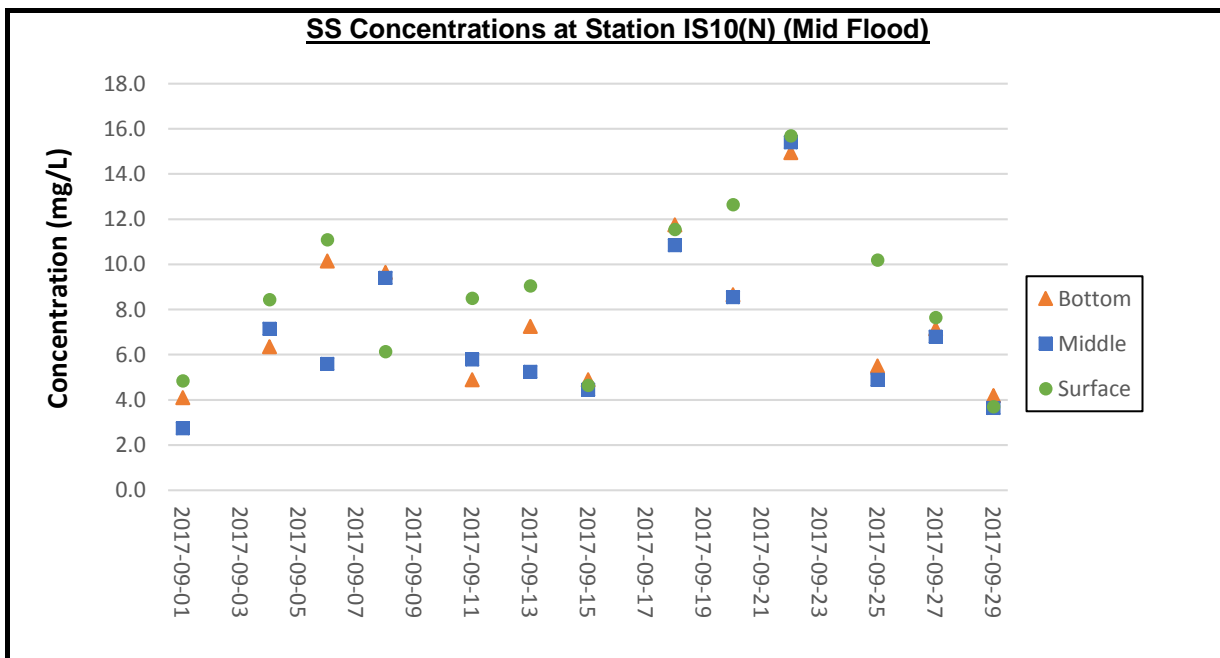
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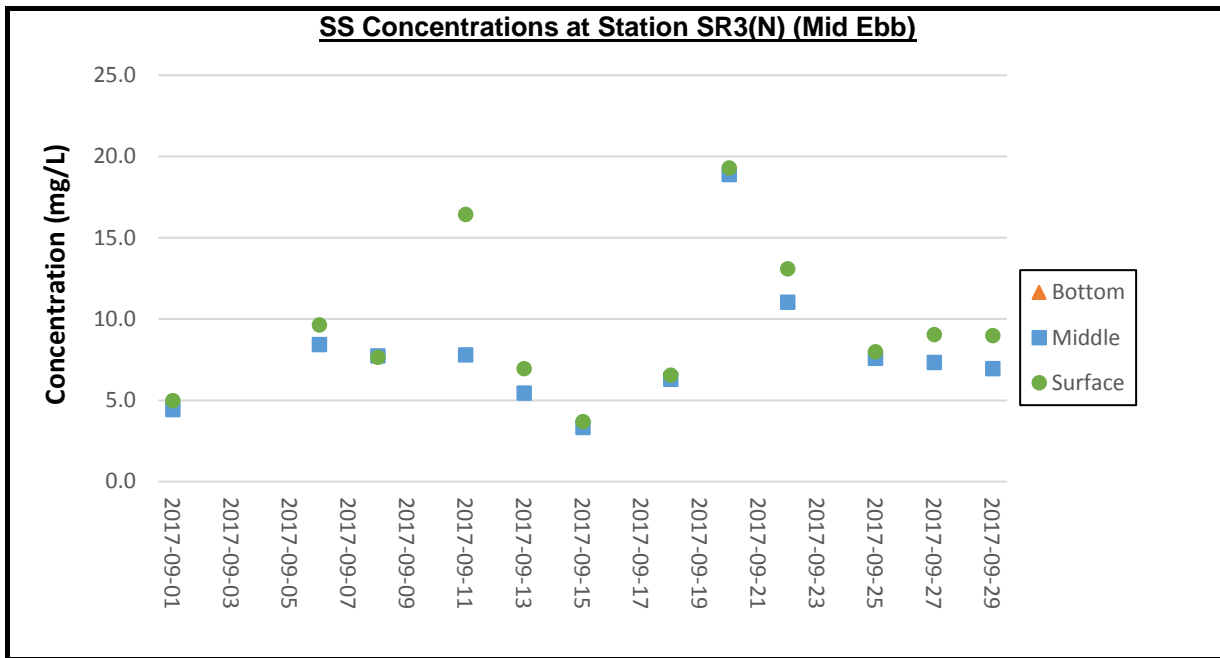




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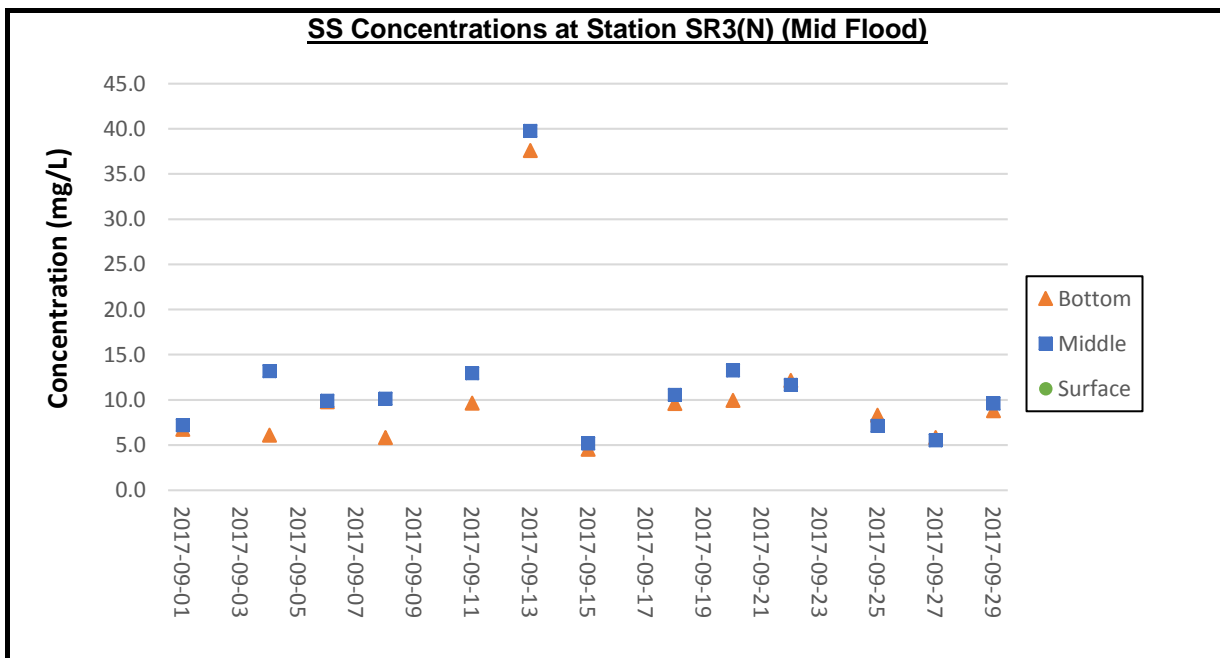
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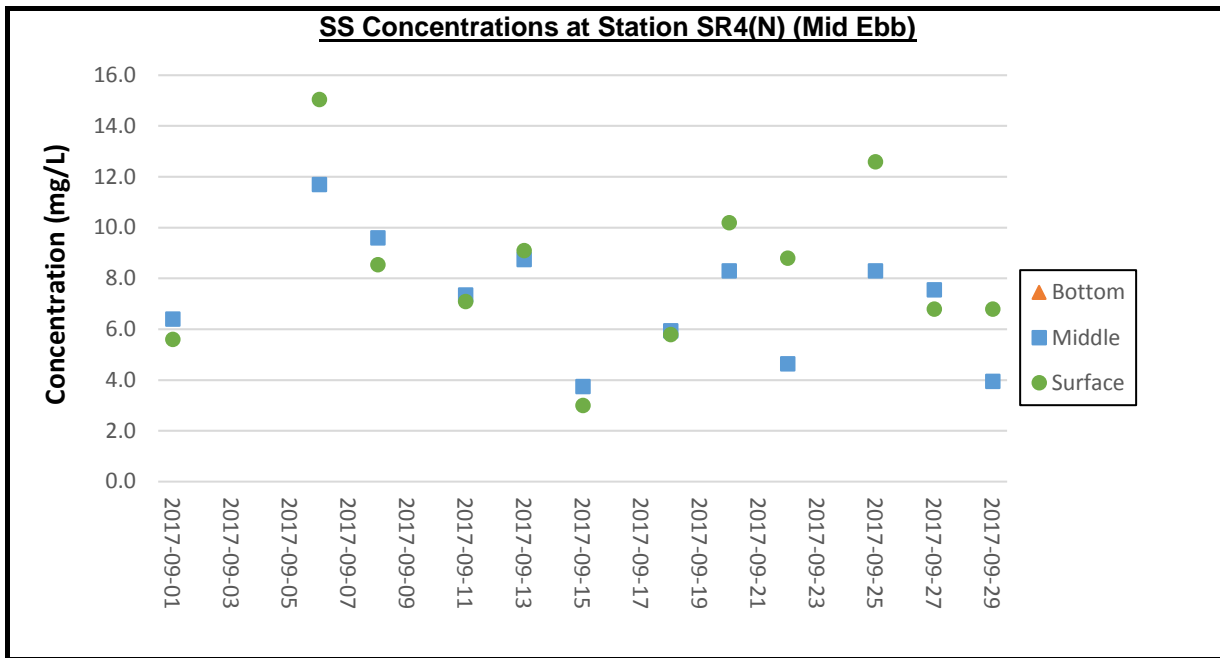




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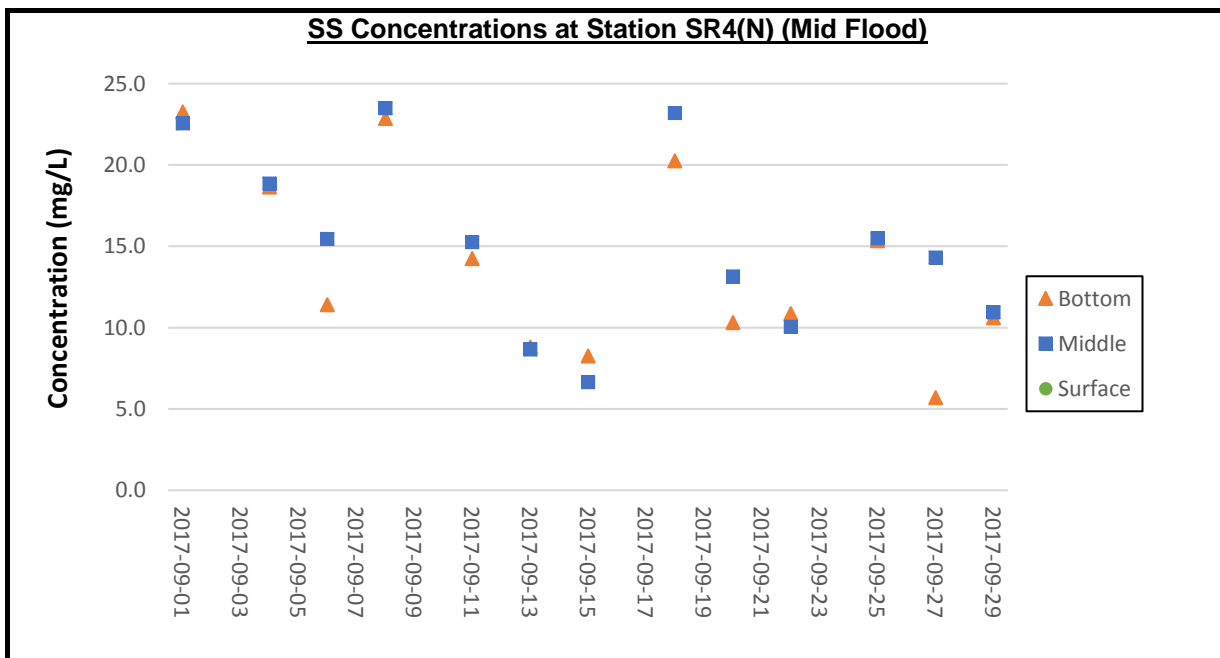
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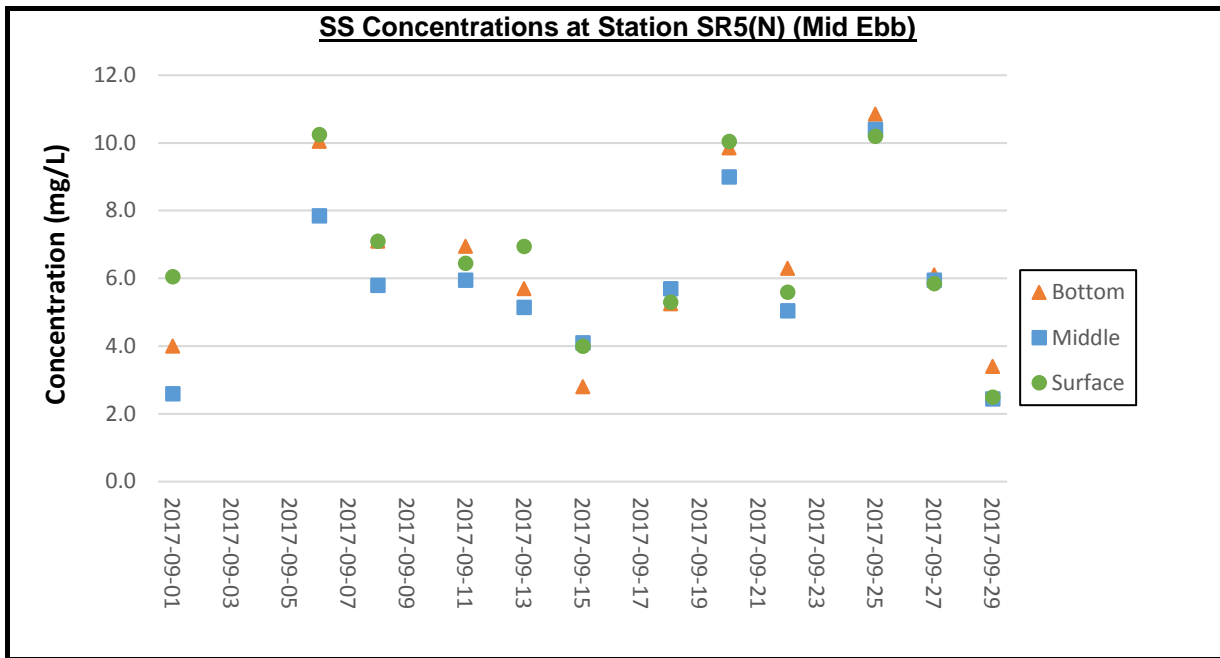




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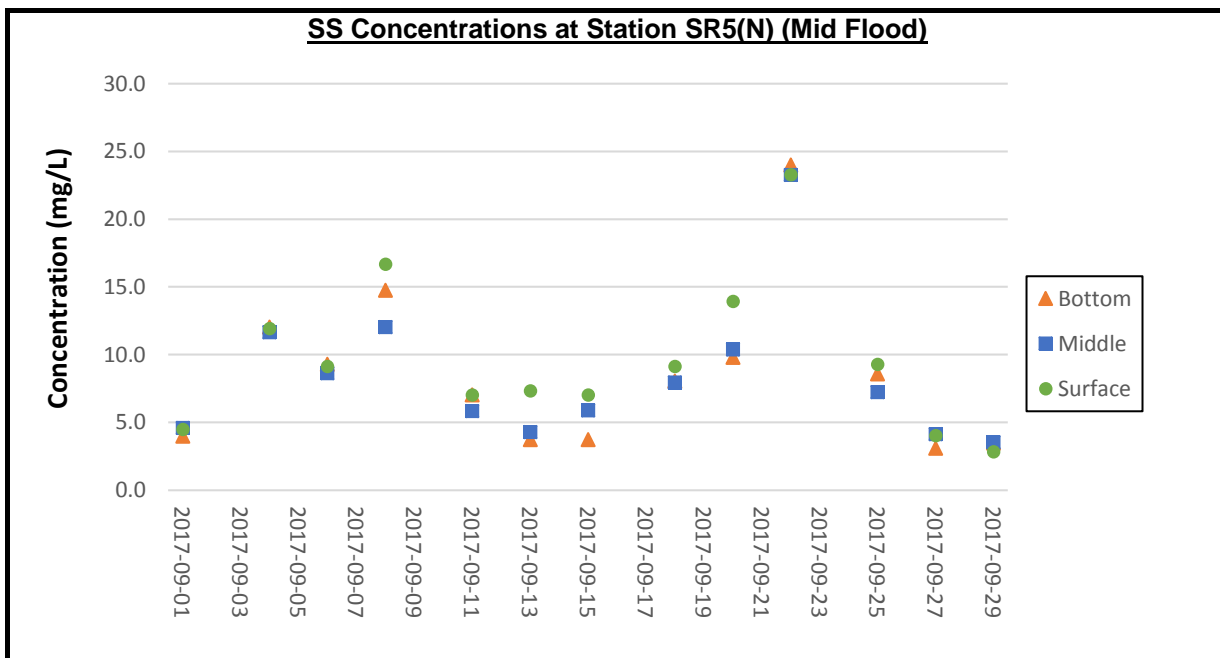
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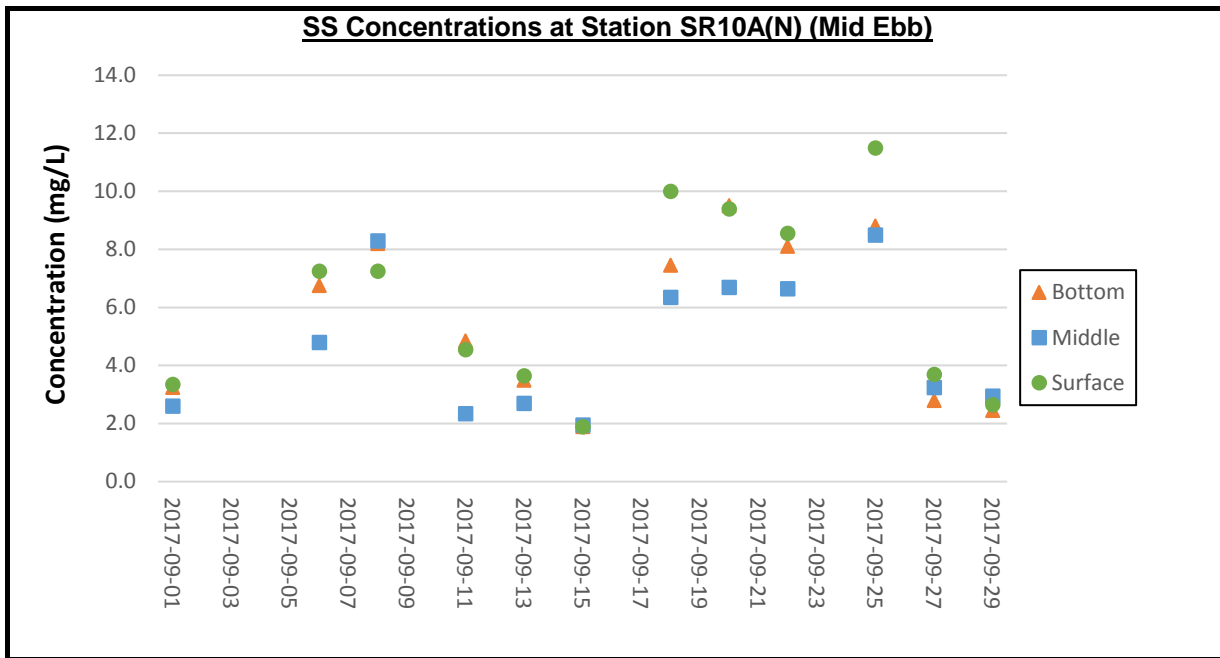




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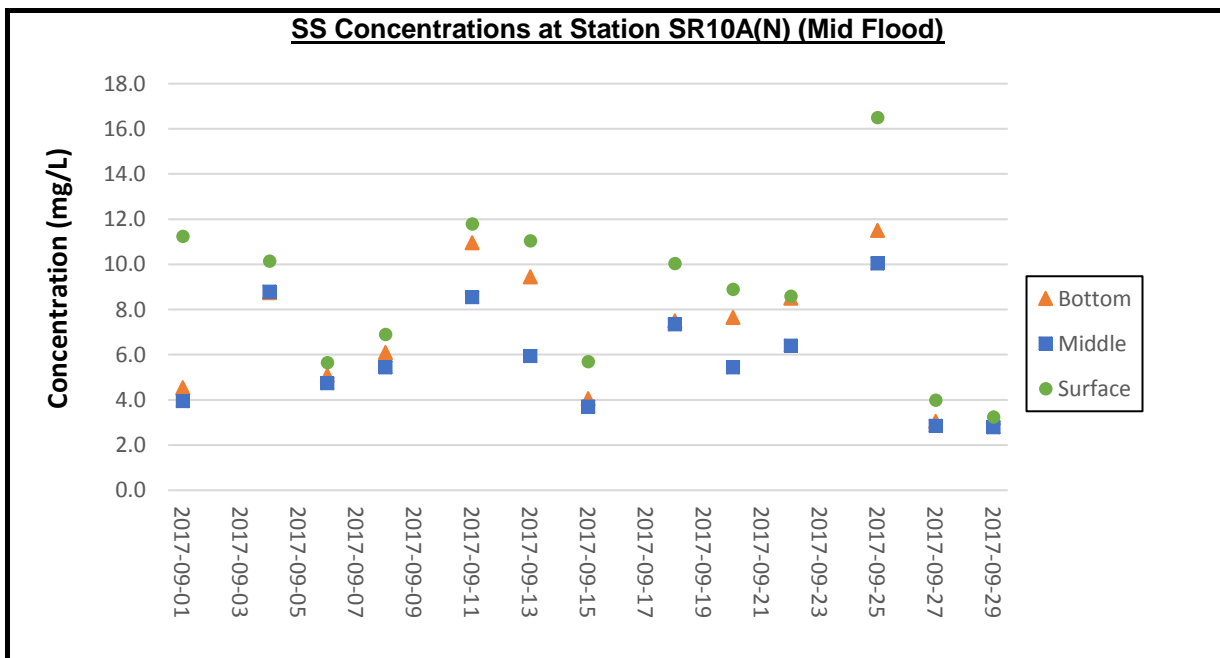
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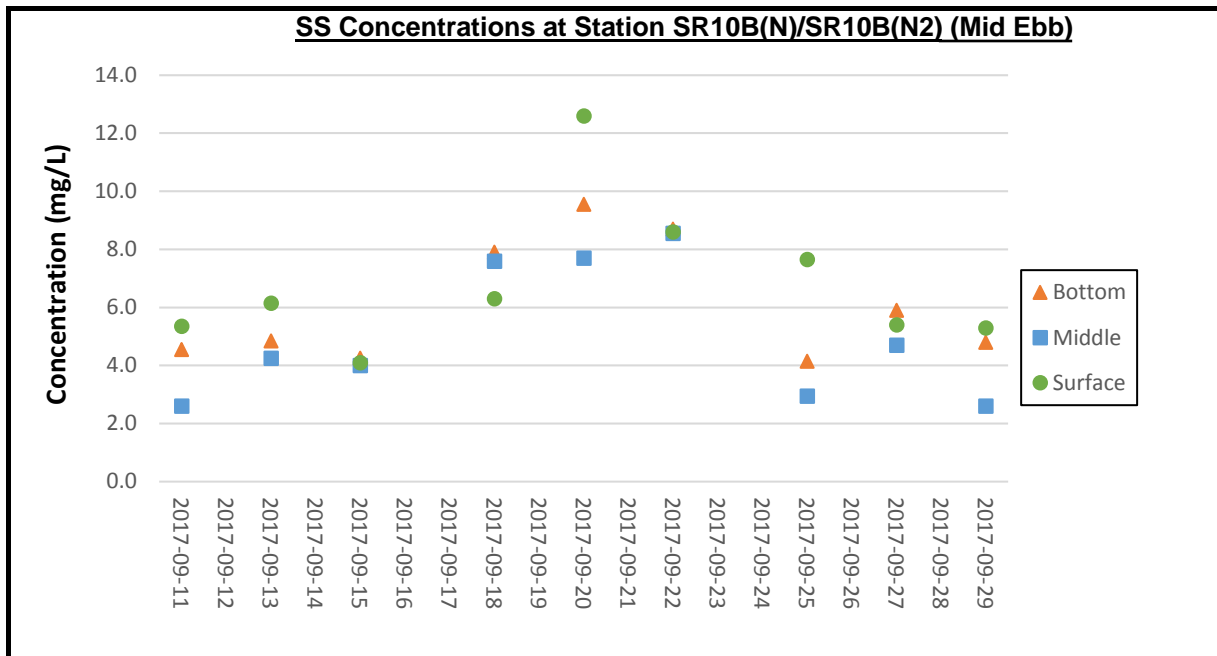




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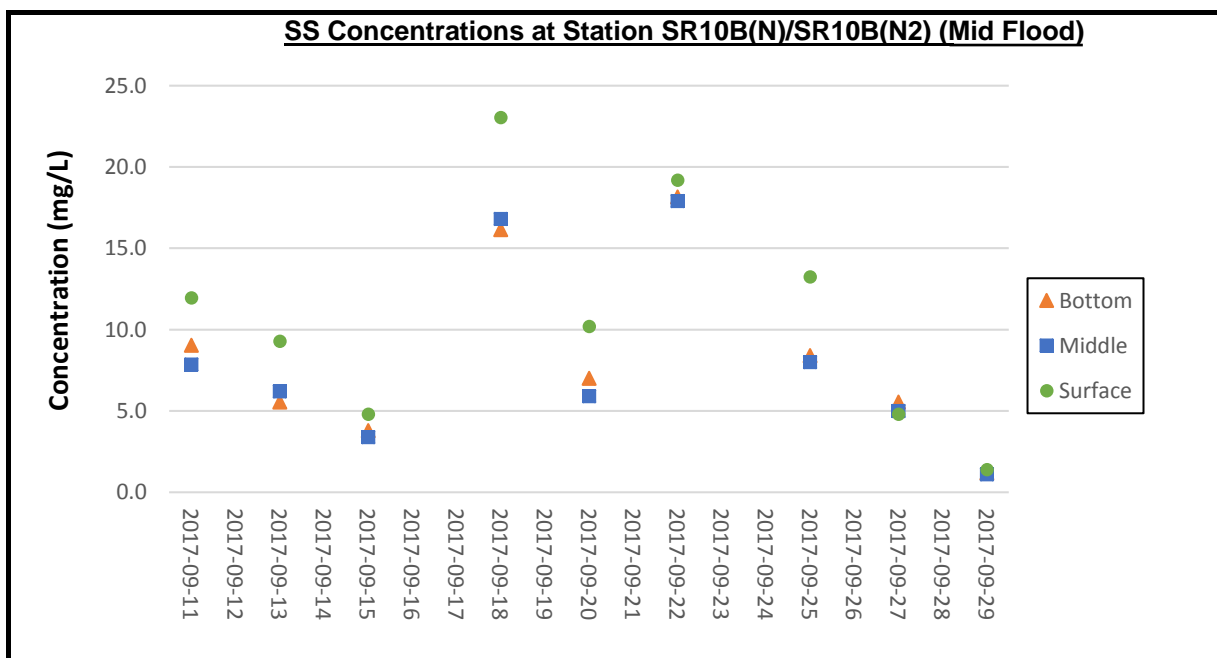
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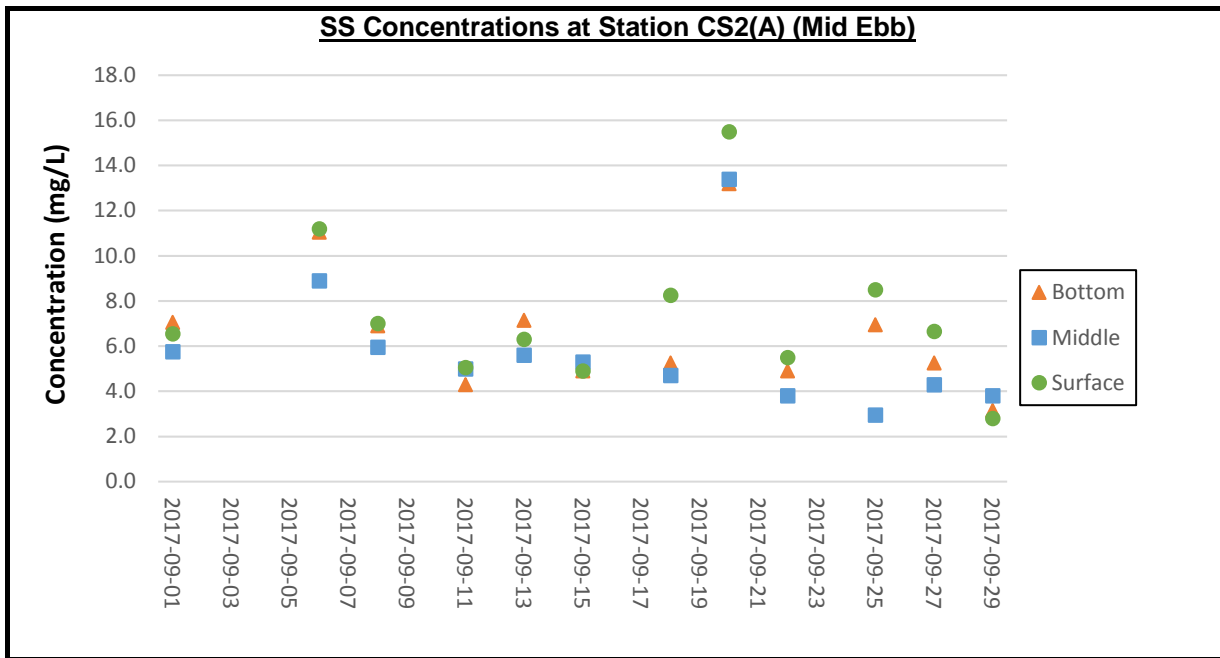




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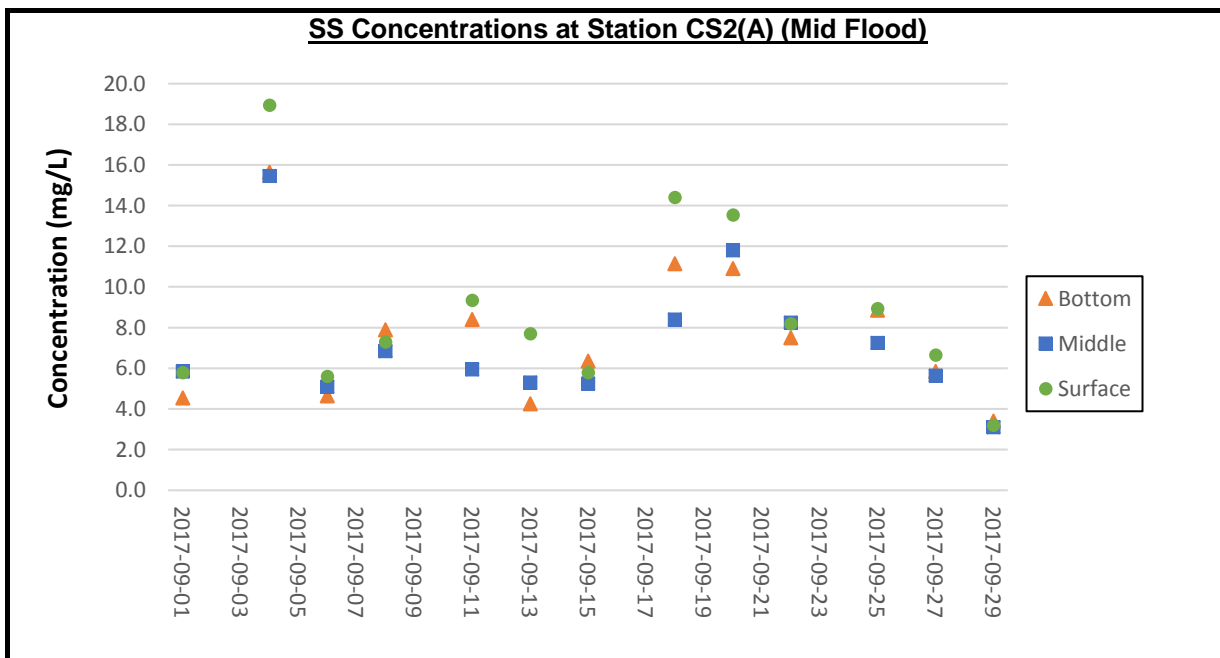
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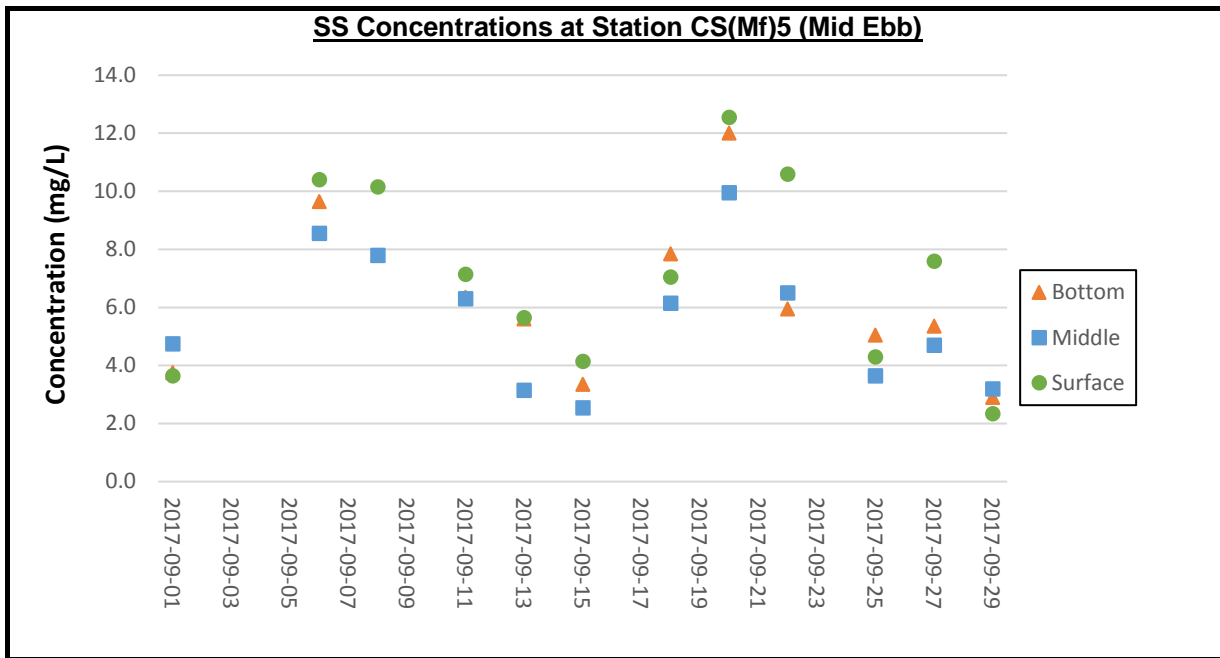




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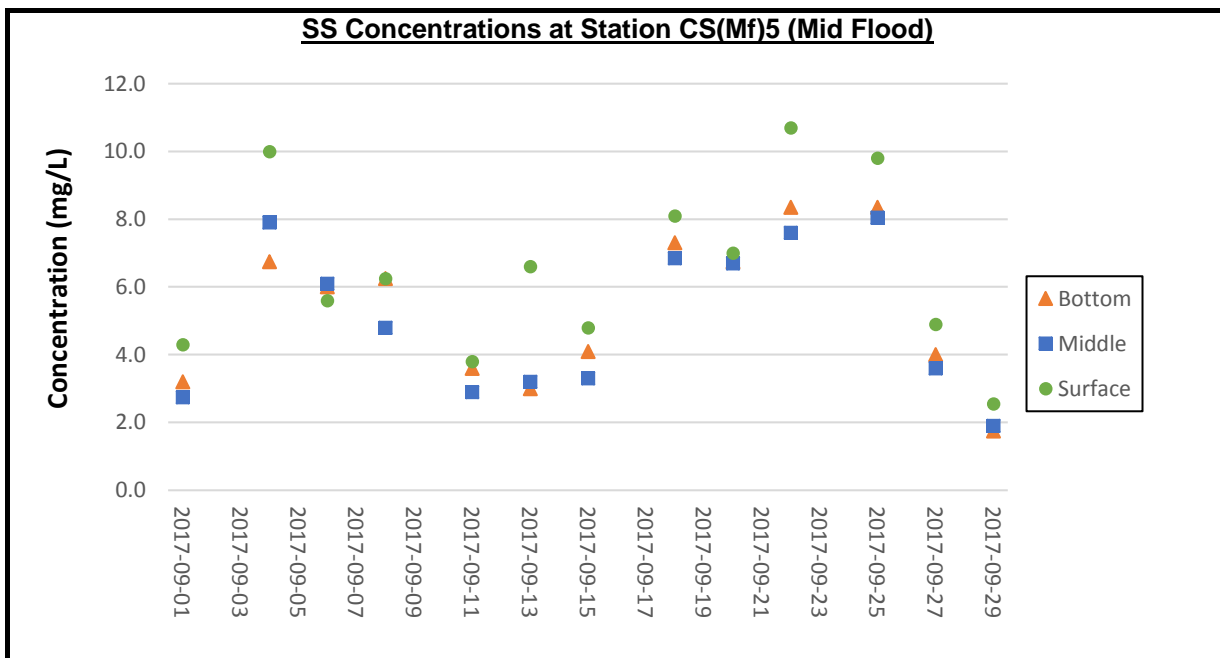
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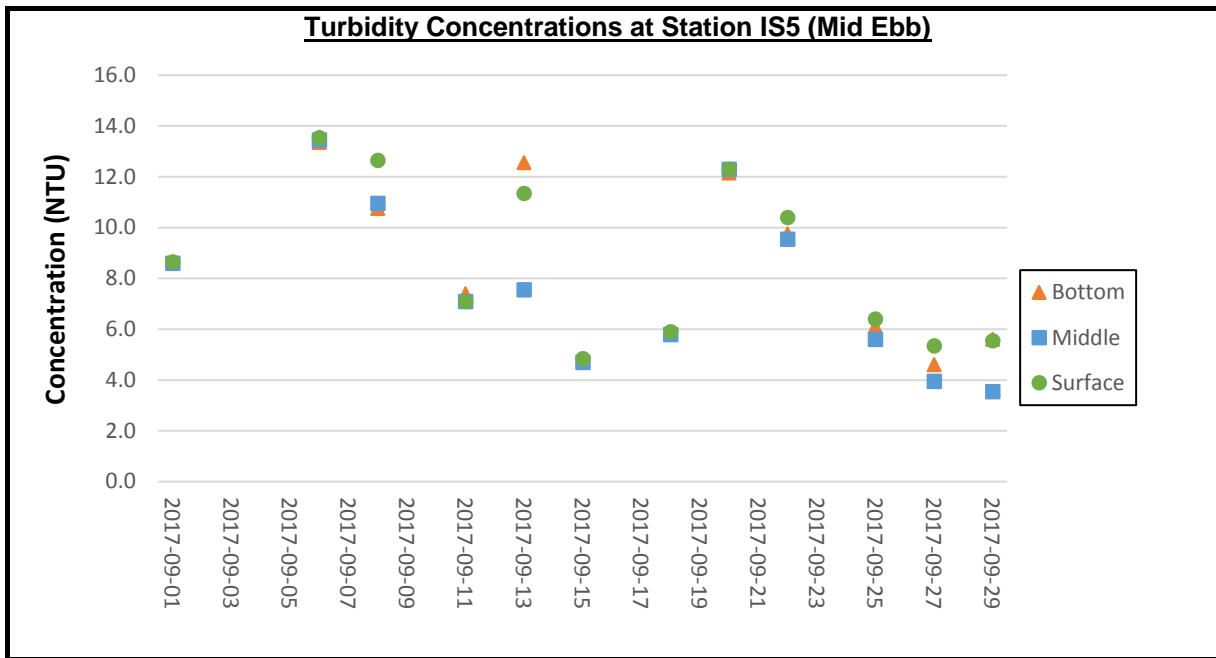




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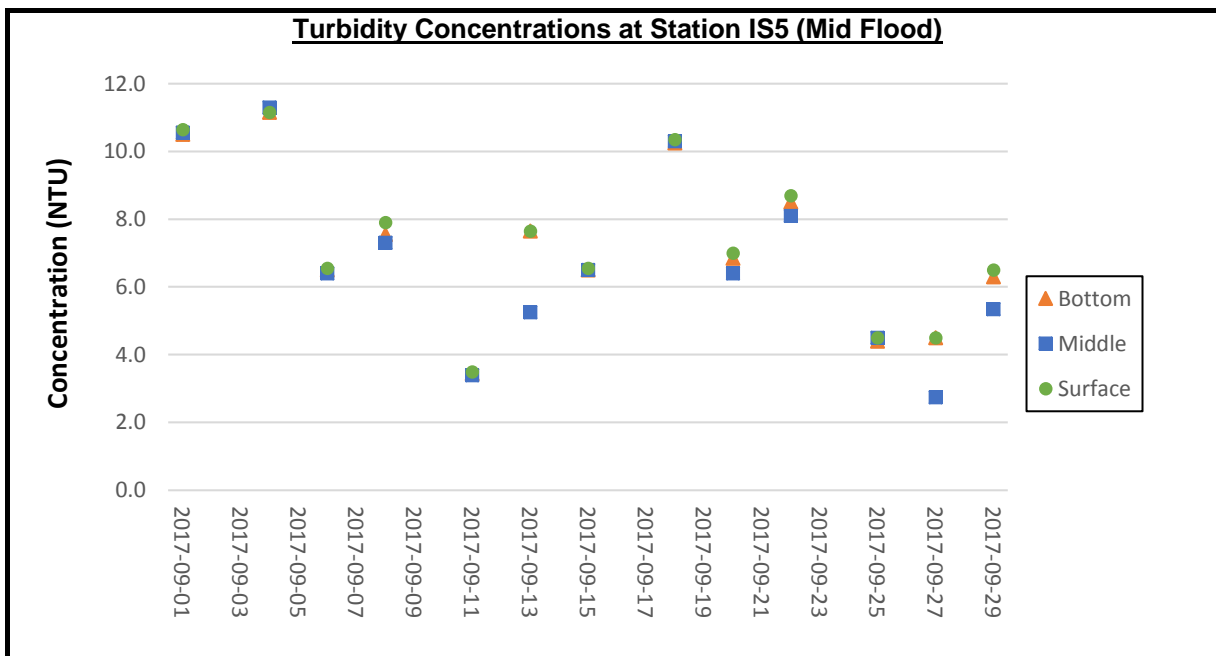
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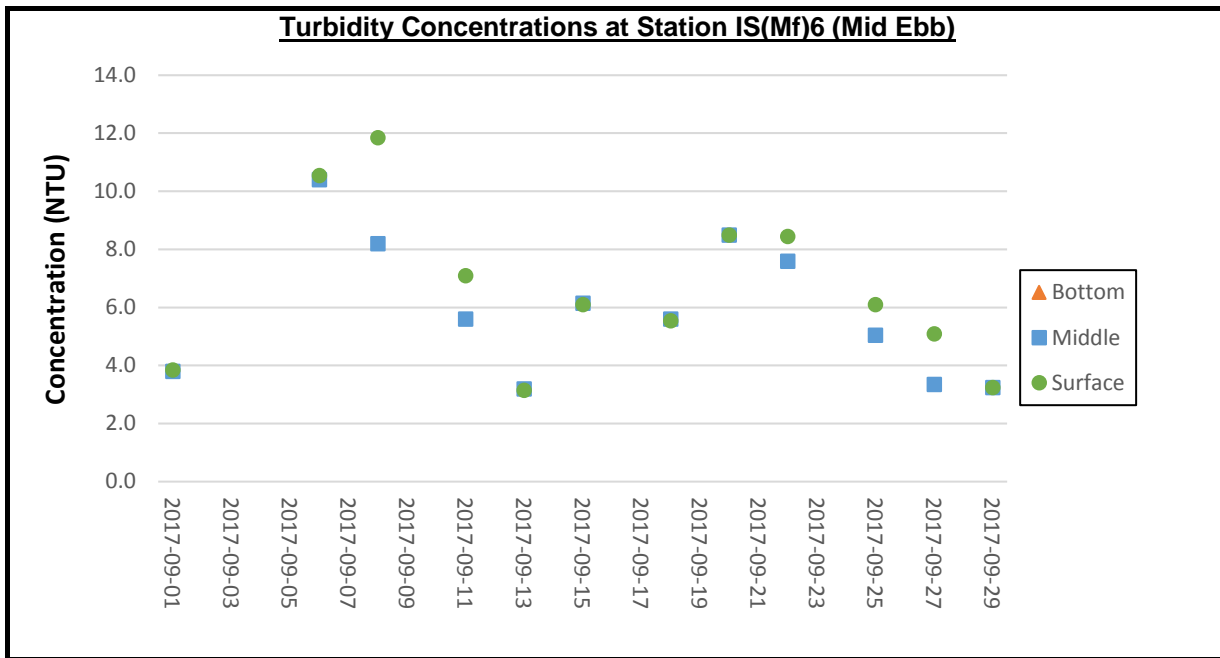




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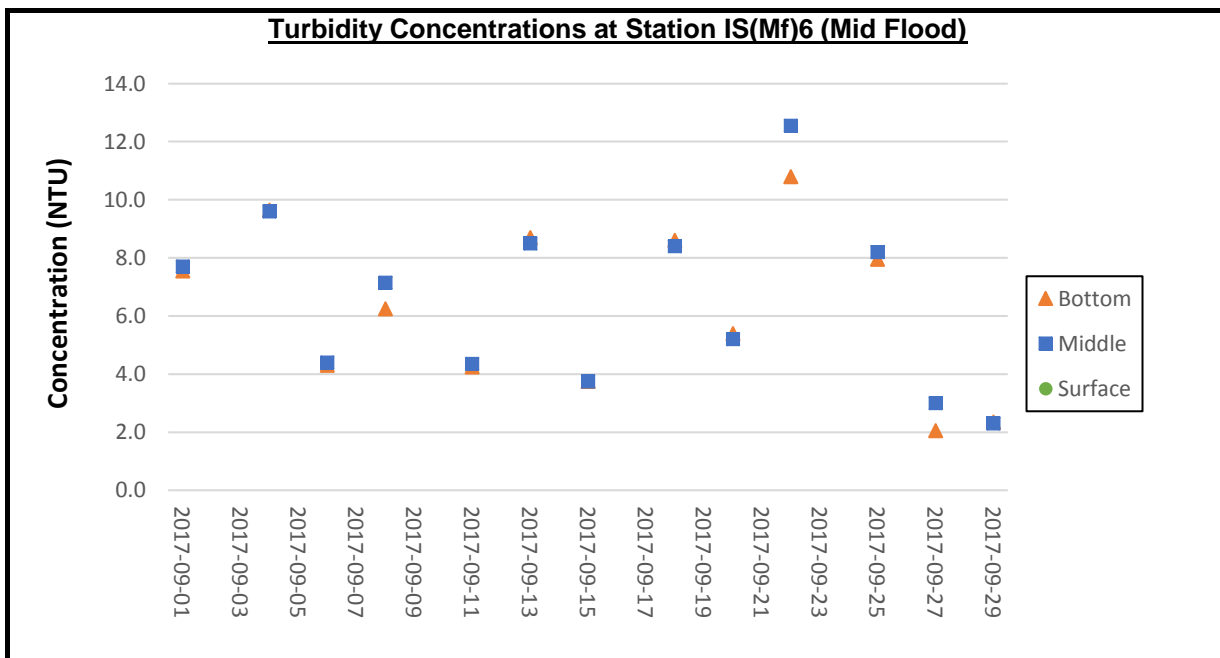
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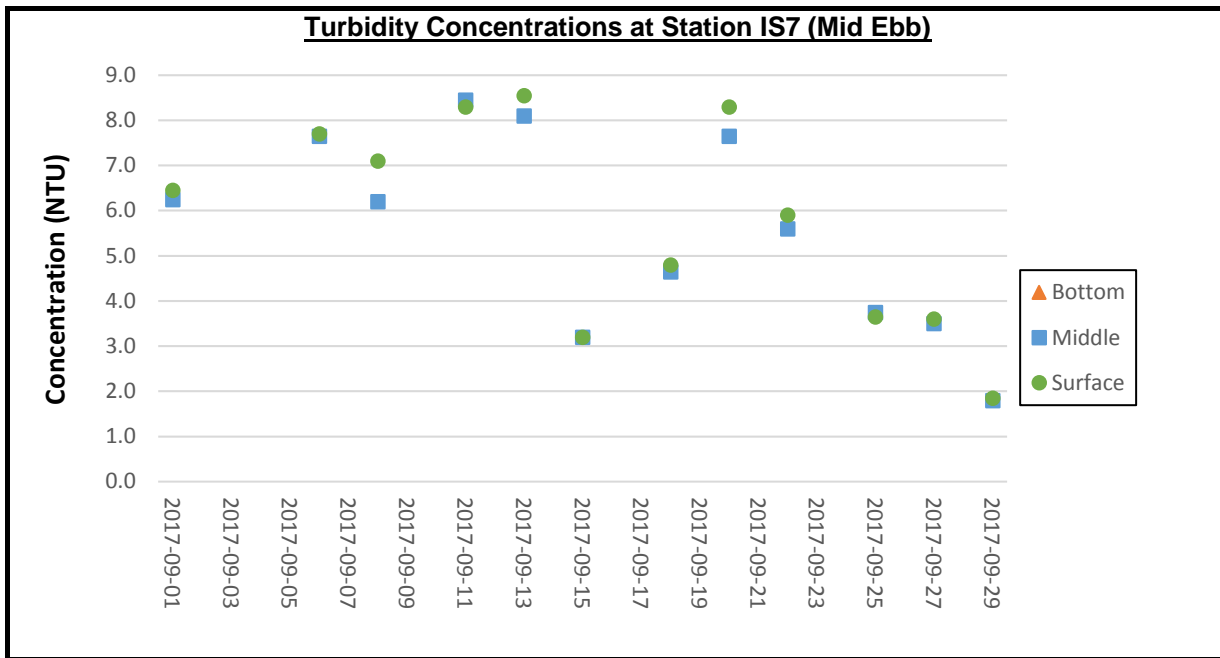




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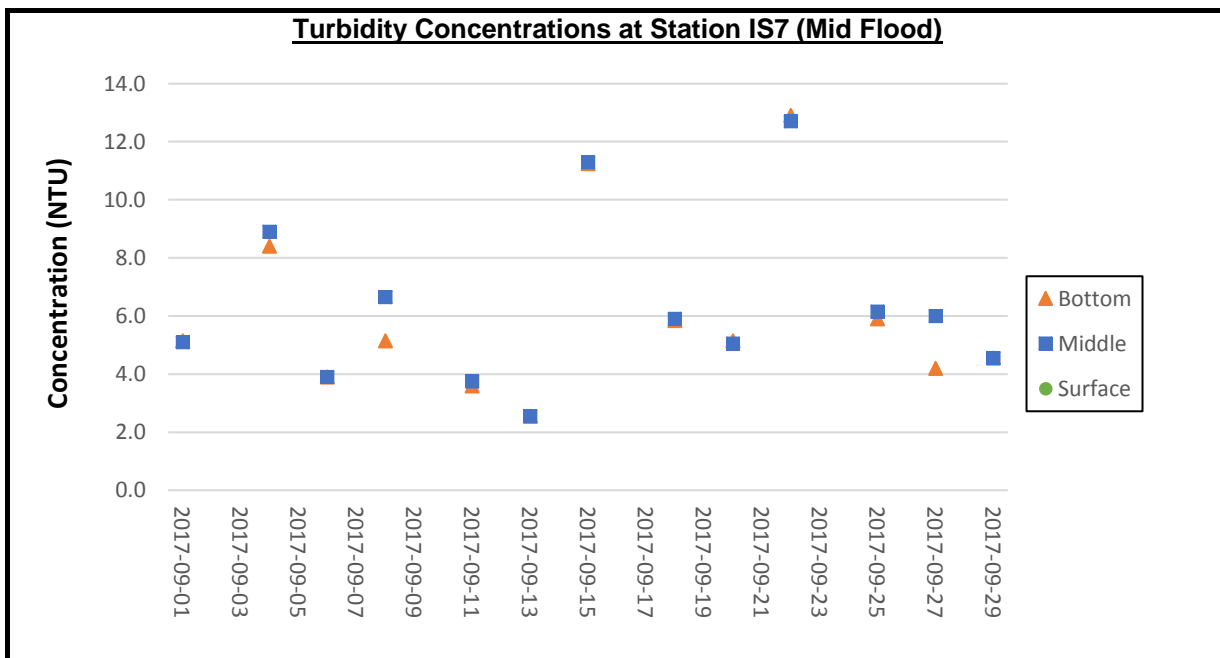
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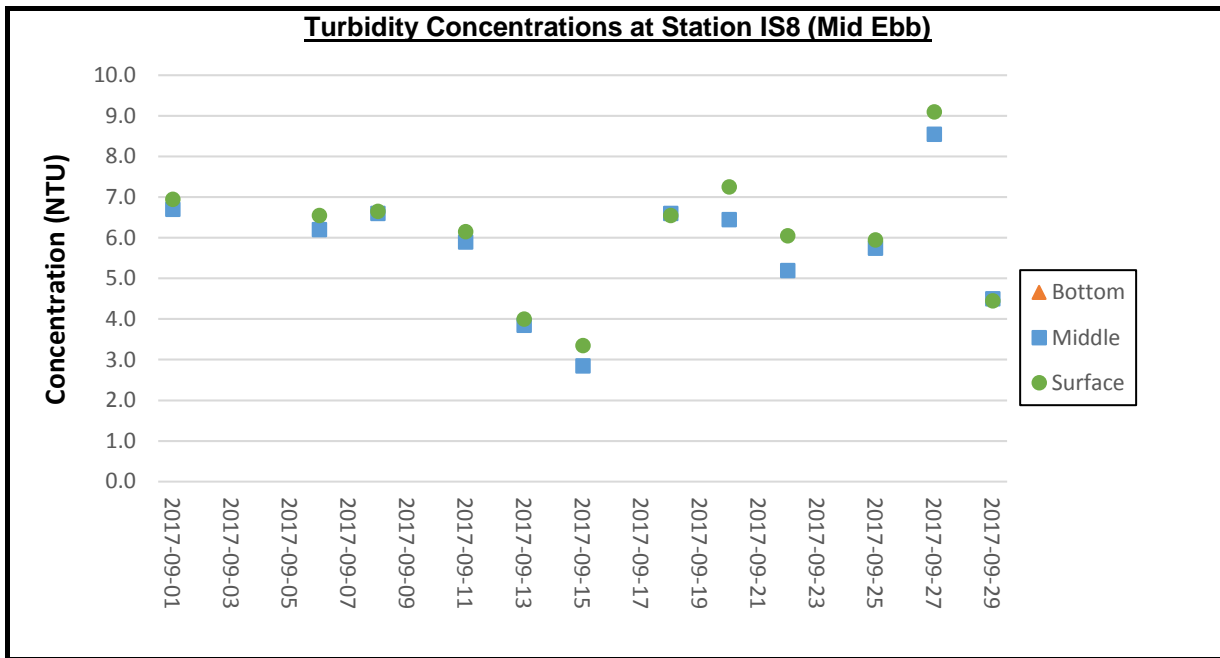




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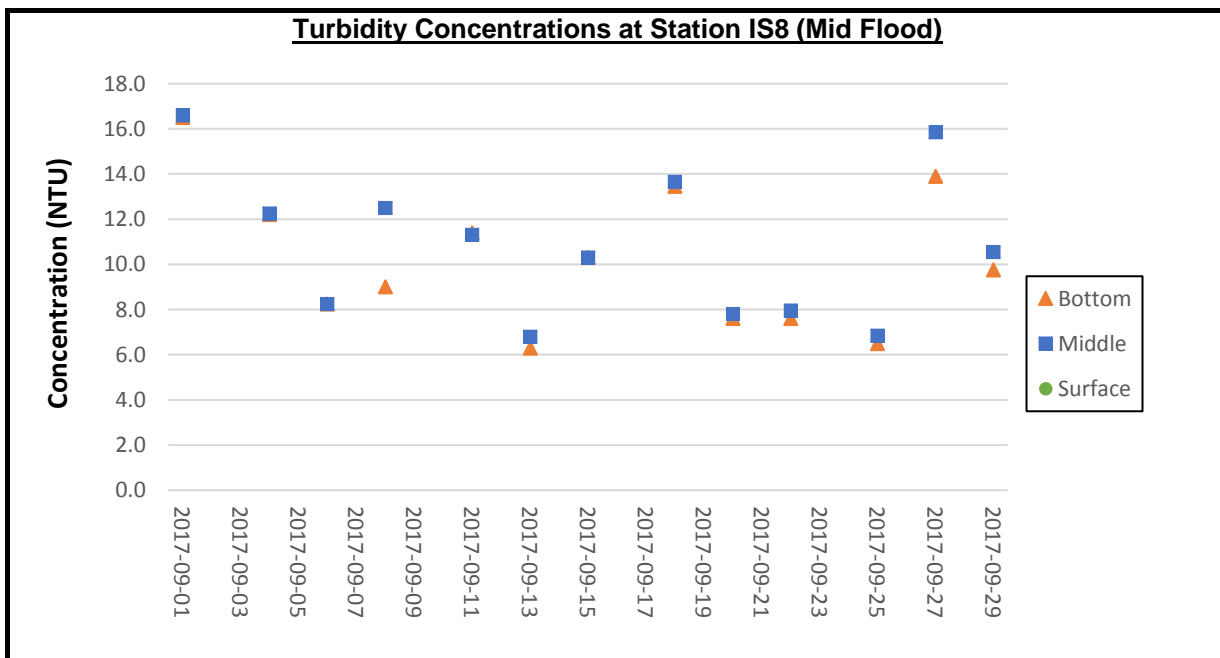
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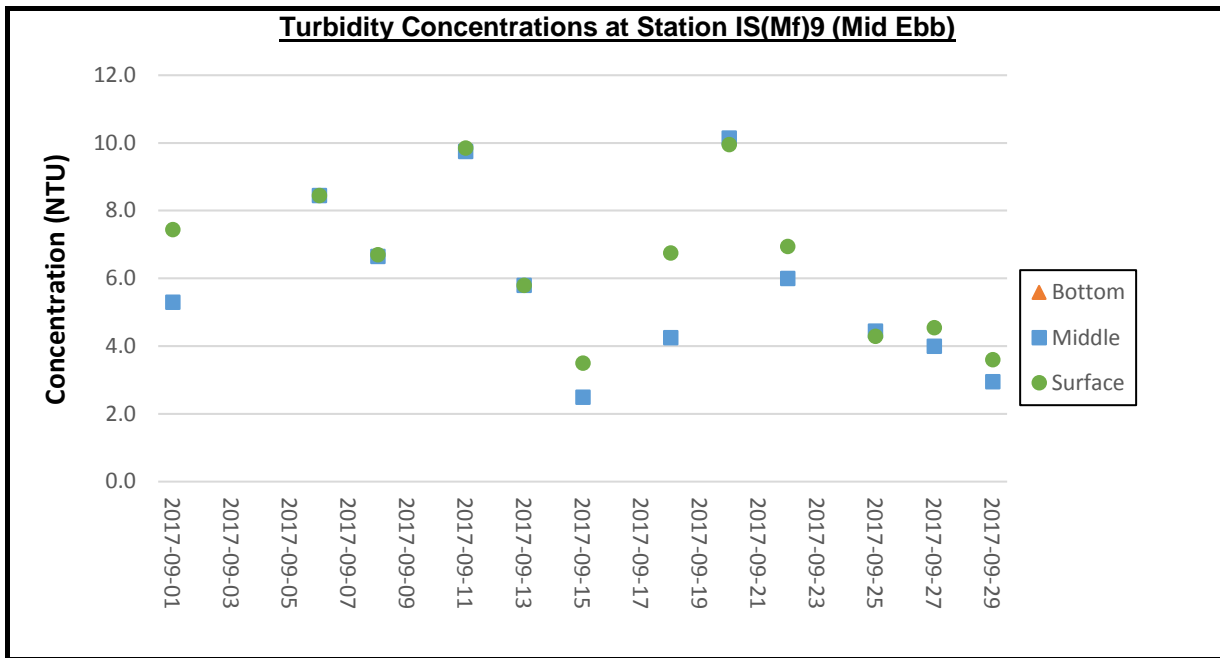




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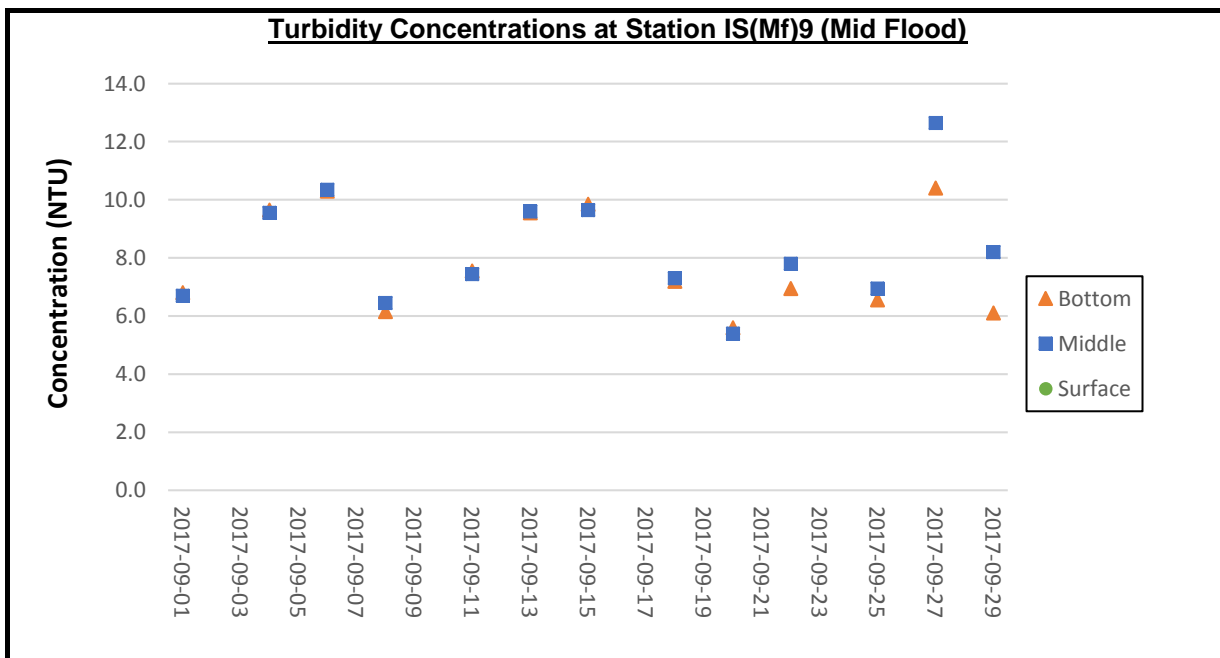
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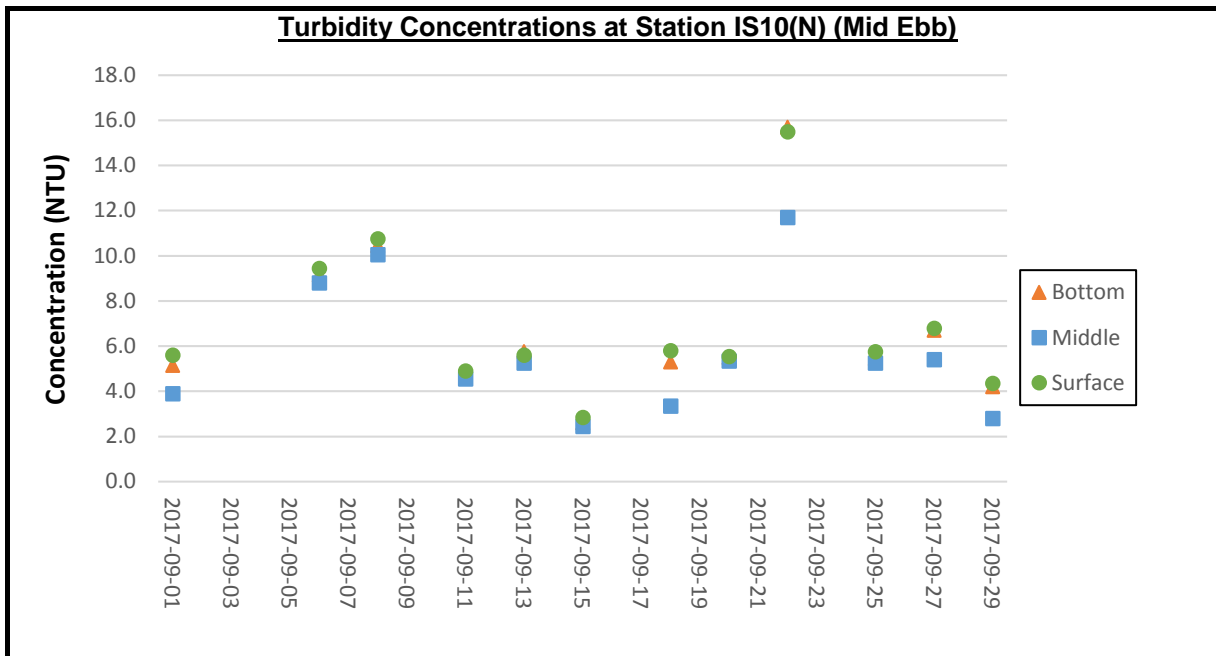




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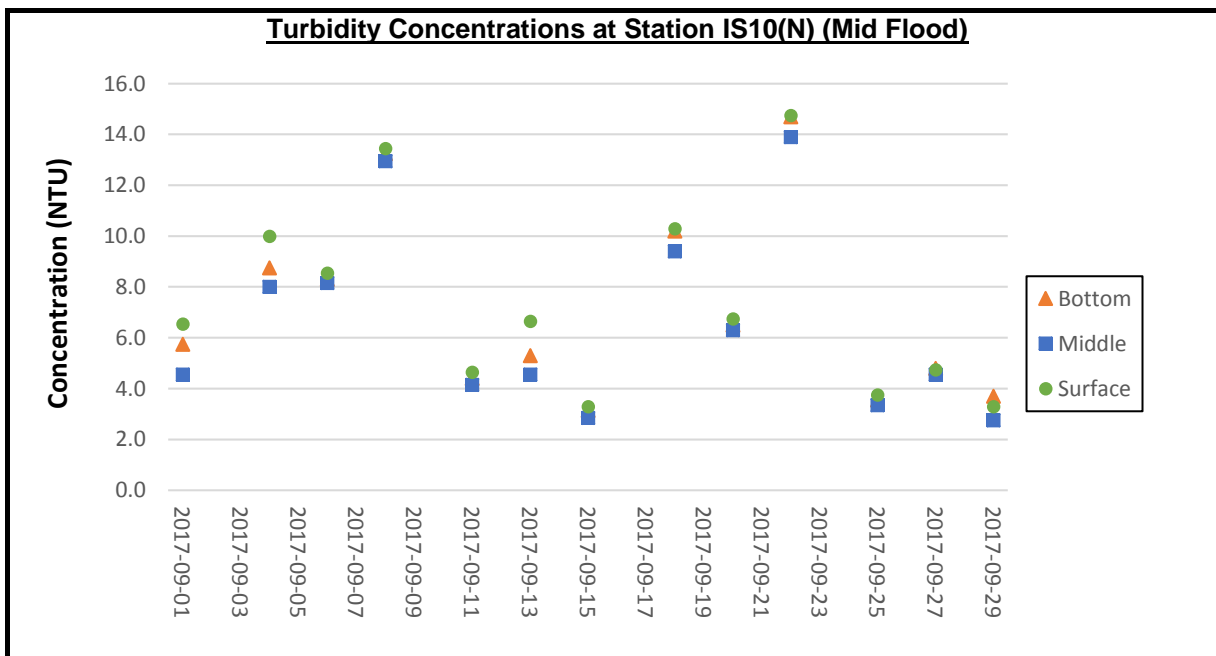
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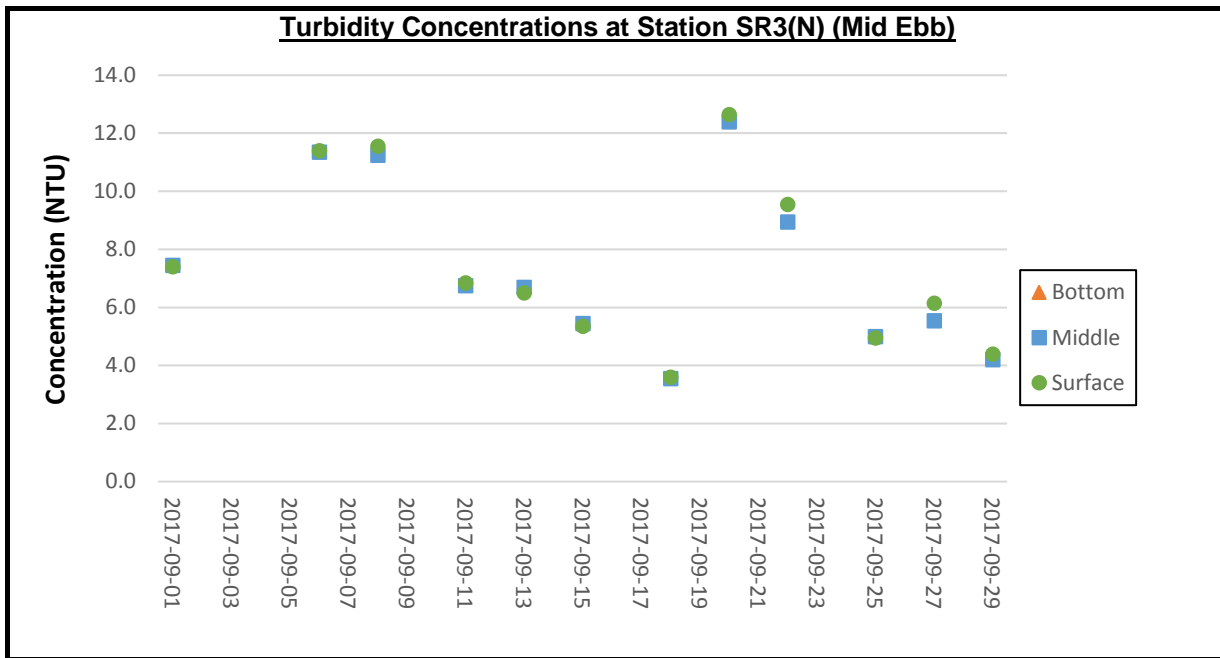




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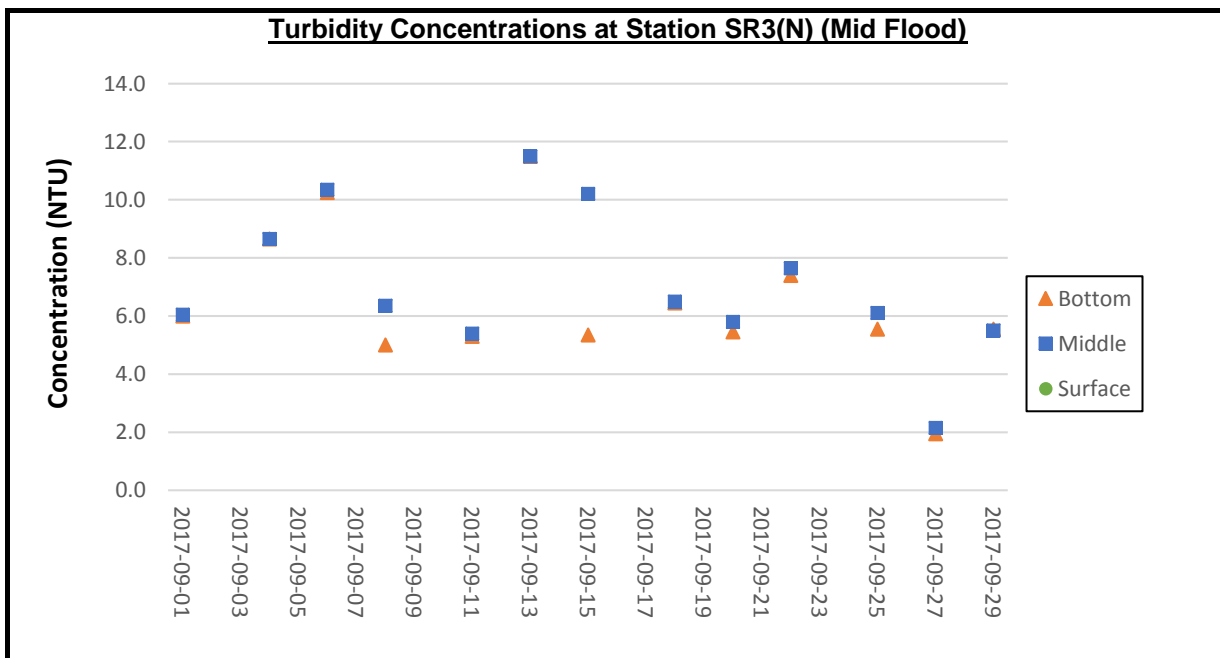
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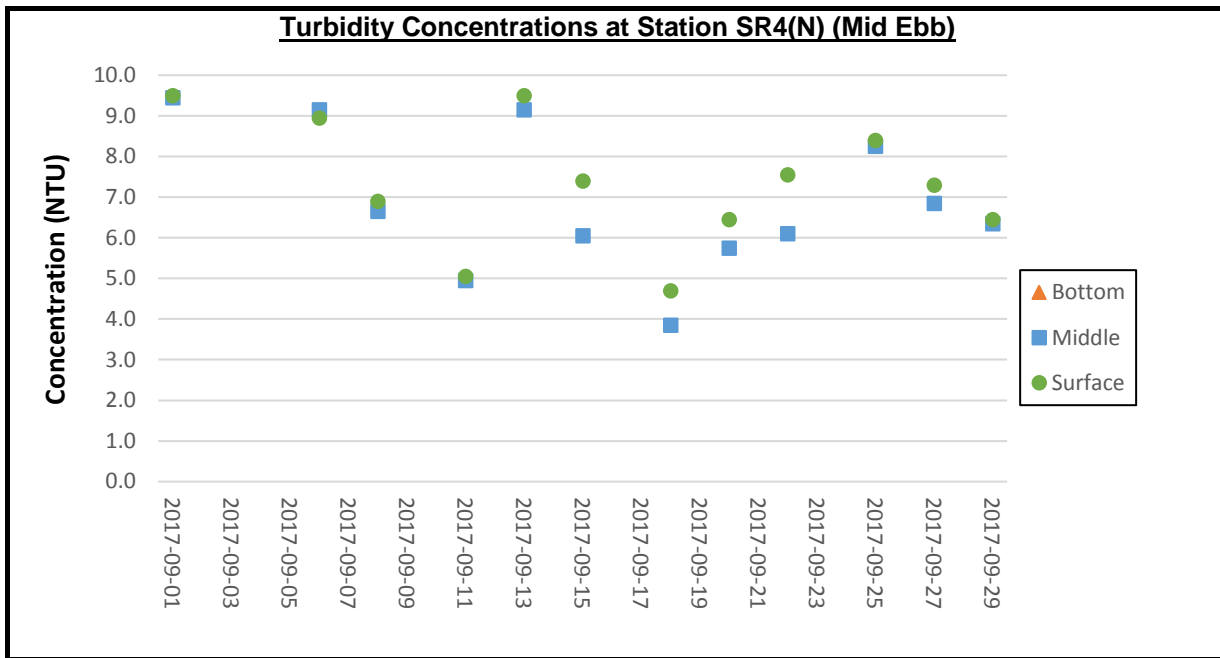




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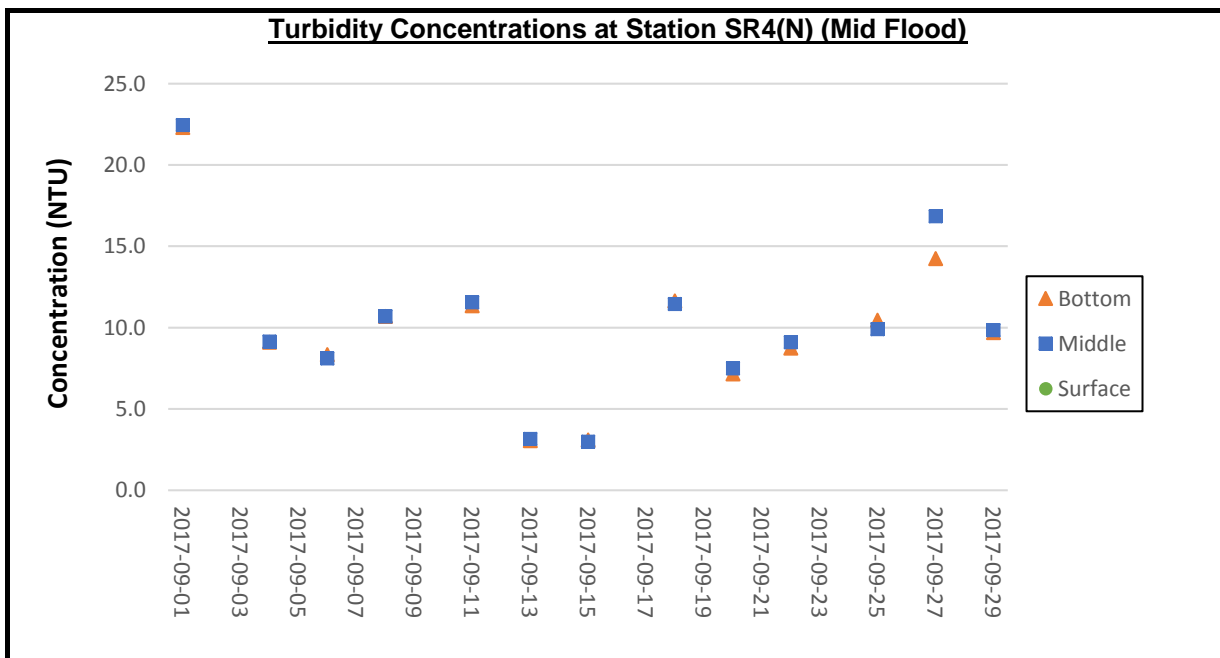
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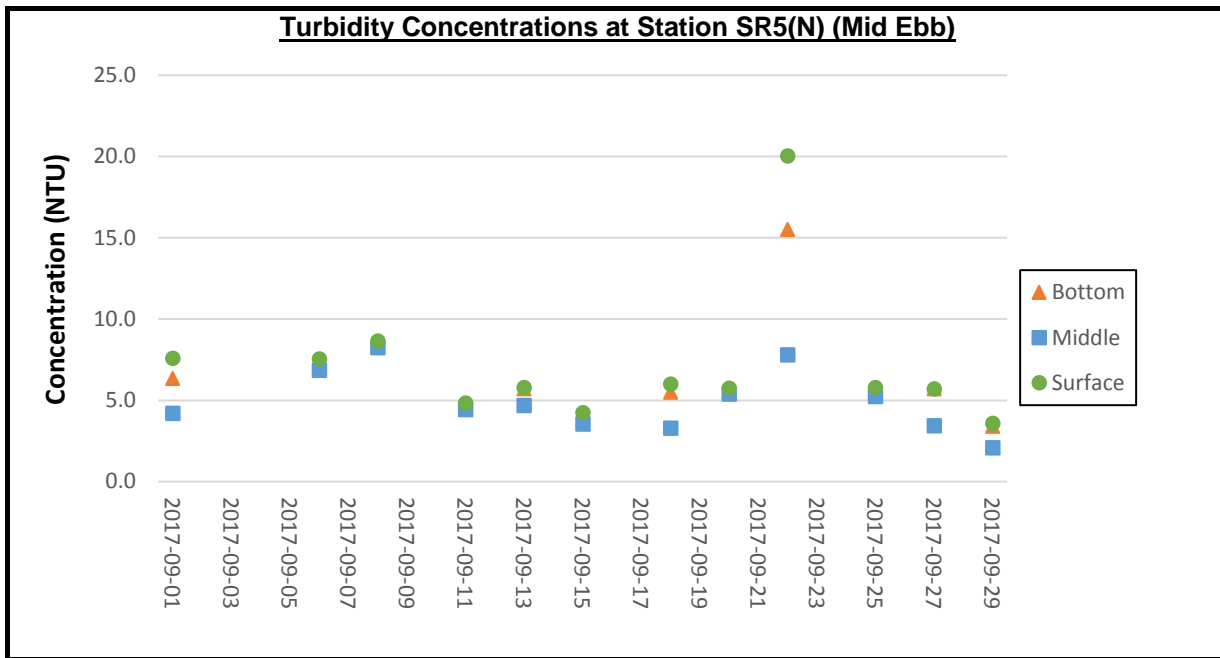




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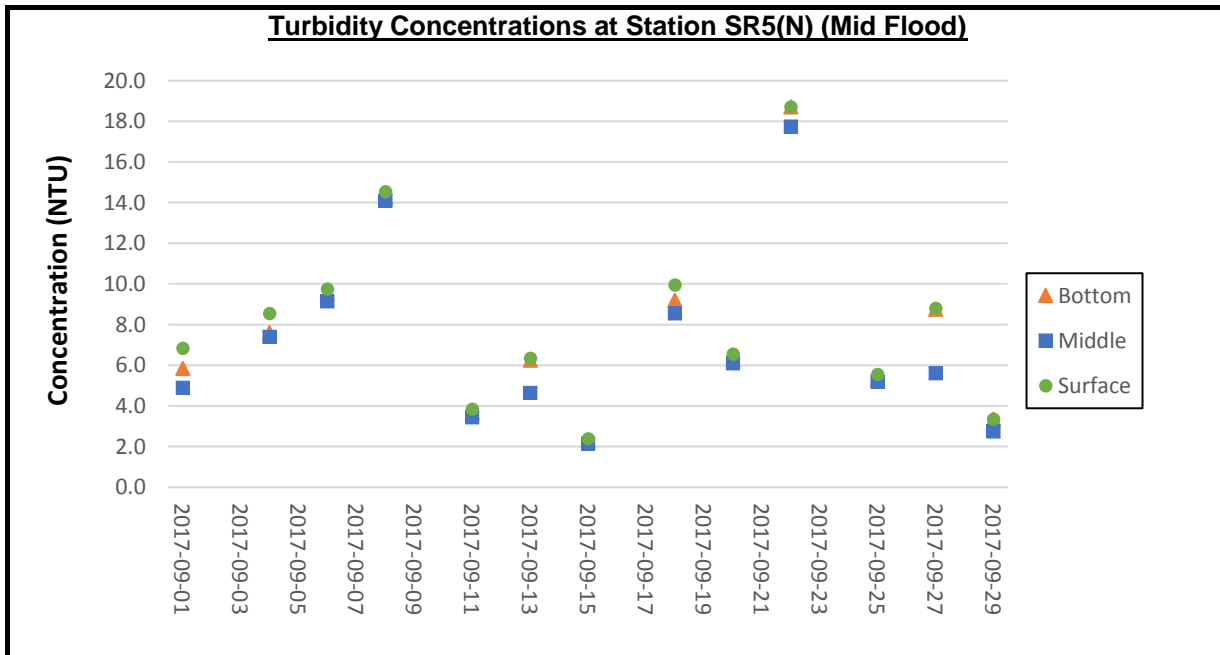
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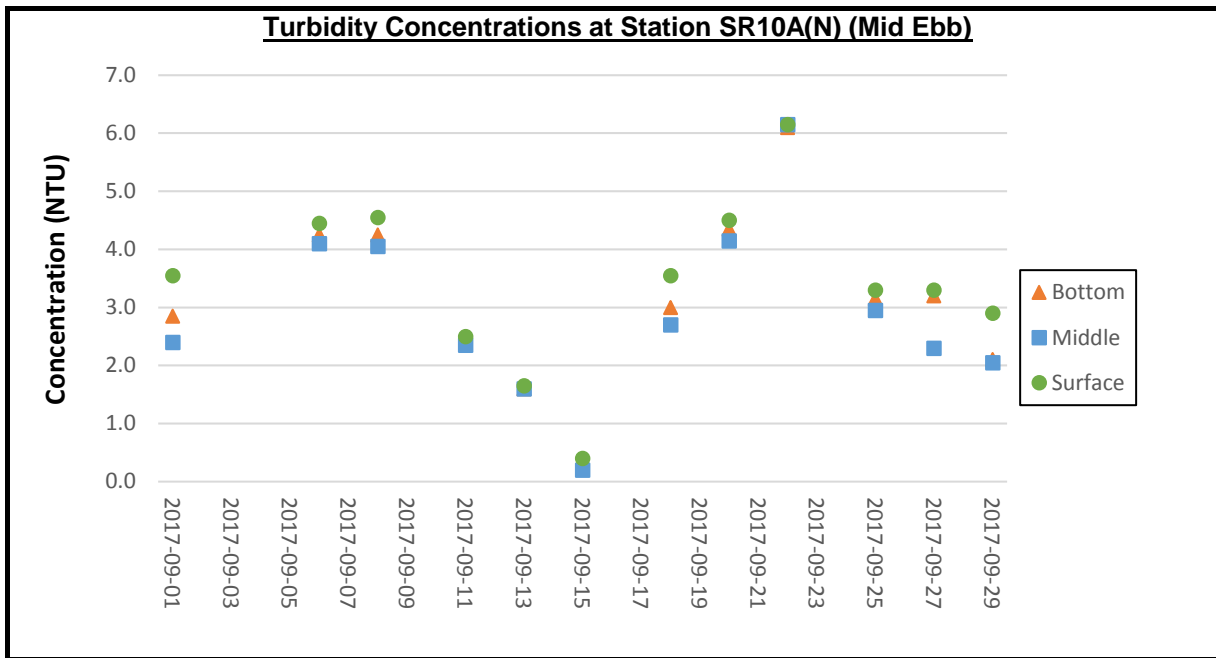




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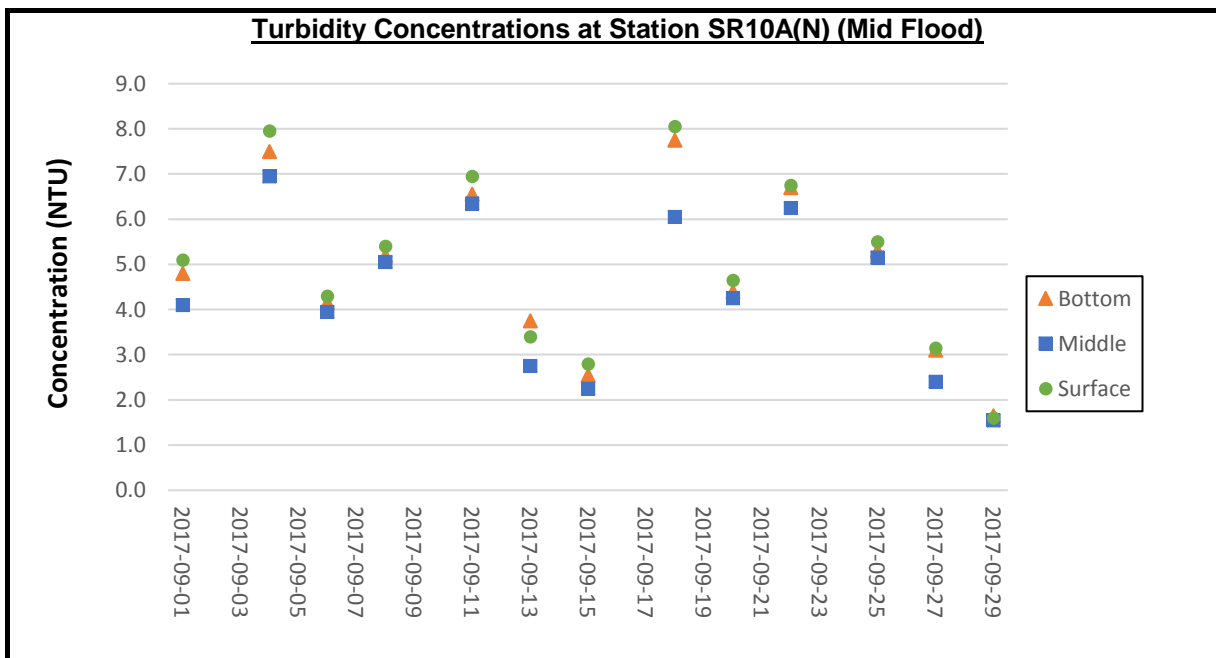
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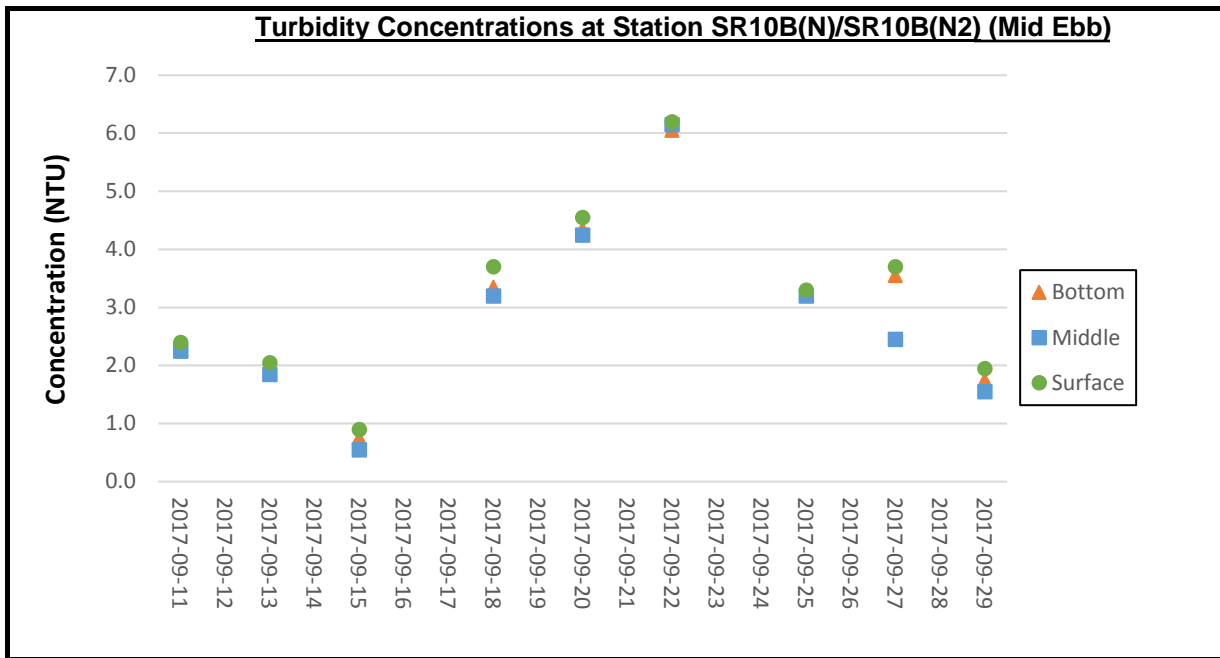




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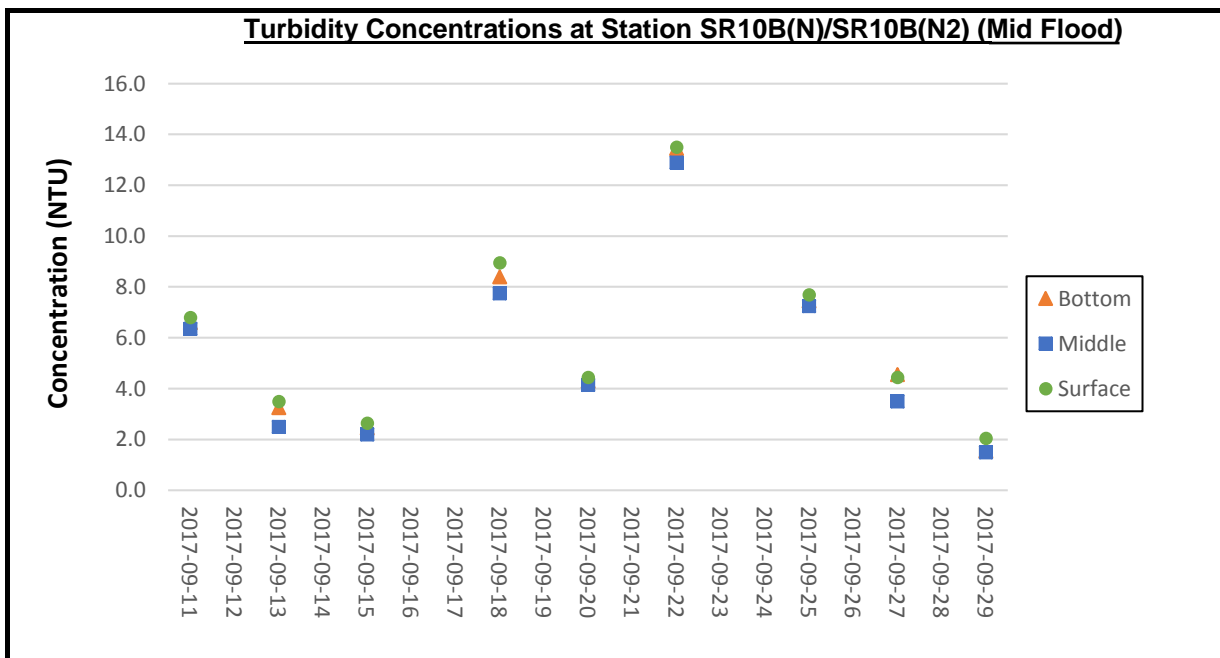
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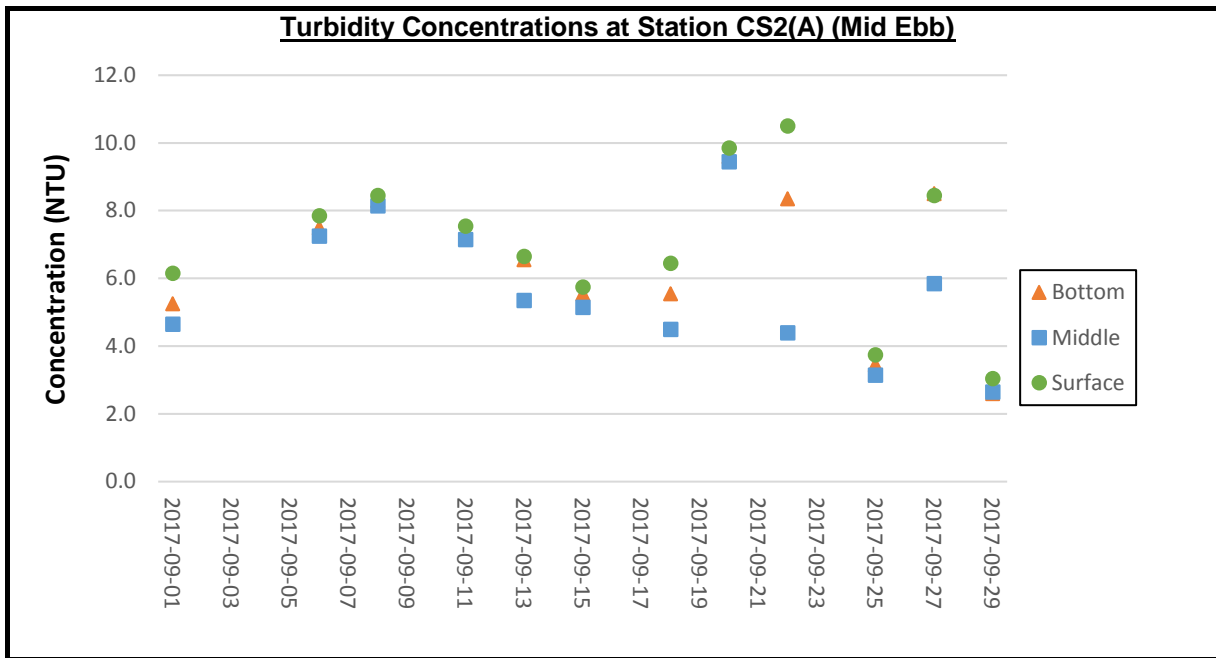




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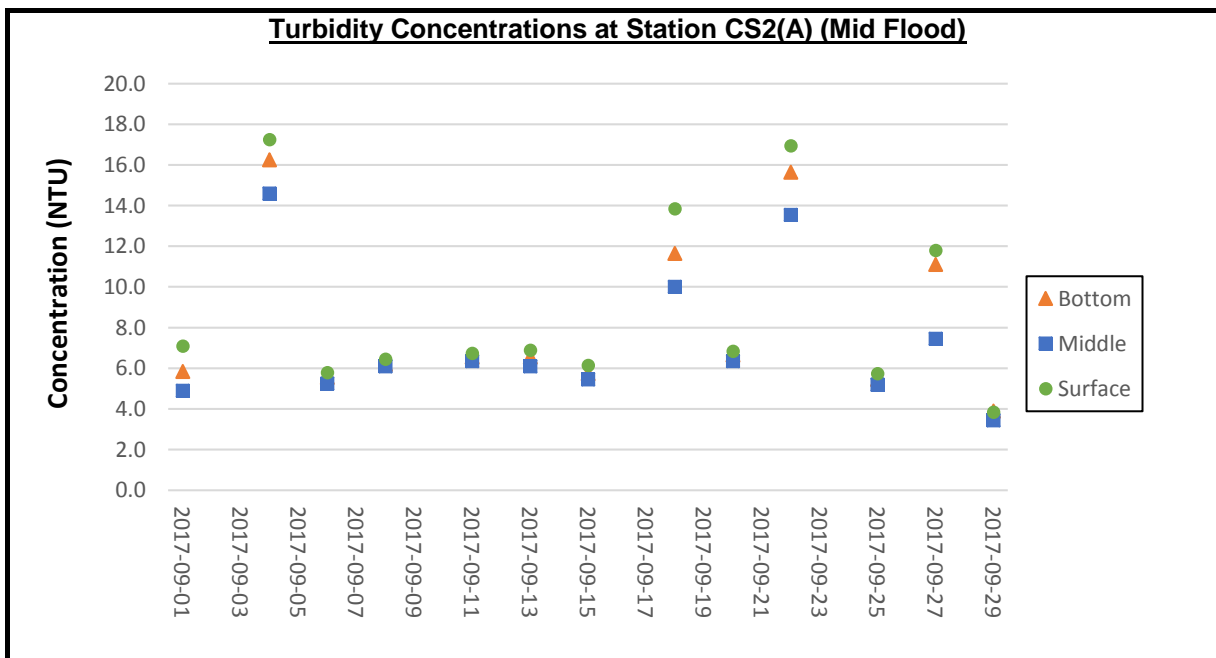
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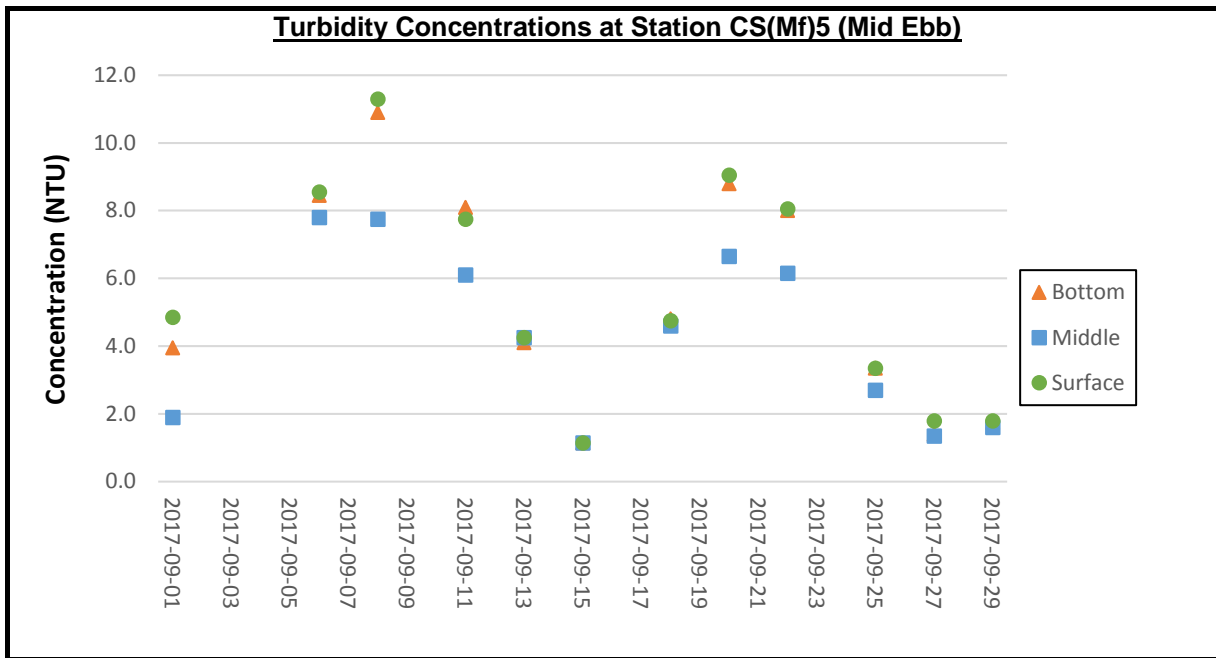




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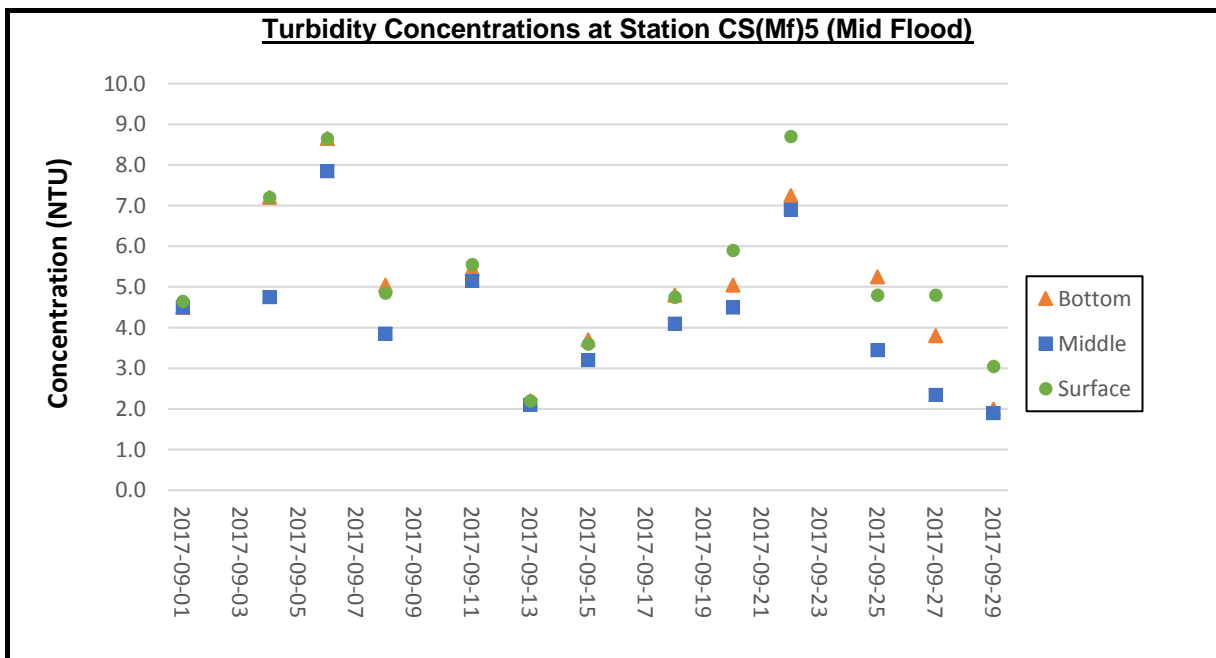
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APPENDIX F

Event and Action Plan



Event and Action Plan for Air Quality

Event	Action			
	ET	IEC	SO	Contractor
Exceedance of Action Level for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and SO; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method. 	<ol style="list-style-type: none"> 1. Notify Contractor. 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
Exceedance of Action Level for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and SO; 3. Advise the SO on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and SO; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 	<ol style="list-style-type: none"> 1. Submit proposals for remedial to SO within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Event	Action			
	ET	IEC	SO	Contractor
Exceedance of Limit Level for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform SO, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the SO on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Exceedance of Limit Level for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify IEC, SO, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and SO to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst SO, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the SO until the exceedance is abated.

Event and Action Plan for Noise

Event	Action			
	ET	IEC	SO	Contractor
Exceedance of Action Level	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Notify IEC and Contractor; 3. Report the results of investigation to the IEC, SO and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the SO accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Exceedance of Limit Level	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC, SO, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, SO and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst SO, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the SO until the exceedance is abated.

Event and Action Plan for Water Quality

Event	Action			
	ET Leader	IEC	SO	Contractor
Action level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in situ measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor and SO; 4. Check monitoring data, all plant, equipment and Contractor's working methods. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working methods. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of non-compliance in writing; 2. Notify Contractor. 	<ol style="list-style-type: none"> 1. Inform the SO and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SO and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Ensure mitigation measures are implemented; 6. Increase the monitoring frequency to daily until no exceedance of Action level. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the SO accordingly; 4. Supervise the implementation of mitigation measures. 	<ol style="list-style-type: none"> 1. Discuss with IEC on the proposed mitigation measures; 2. Ensure mitigation measures are properly implemented; 3. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Inform the Engineer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of additional mitigation measures to SO within 3 working days of notification and discuss with ET, IEC and SO; 5. Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SO and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, SO and Contractor; 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the SO accordingly. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to review the working methods. 	<ol style="list-style-type: none"> 1. Inform the SO and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of mitigation measures to SO within 3 working days of notification and discuss with ET, IEC and SO.

Event	Action			
	ET Leader	IEC	SO	Contractor
Limit level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SO and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, SO and Contractor; 6. Ensure mitigation measures are implemented; 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the SO accordingly; 4. Supervise the implementation of mitigation measures. 	<ol style="list-style-type: none"> 1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Ensure mitigation measures are properly implemented; 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposal of mitigation measures to SO within 3 working days of notification and discuss with ET, IEC and SO; 3. Implement the agreed mitigation measures; 4. Resubmit proposals of mitigation measures if problem still not under control; 5. As directed by the Engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.

Event and Action Plan for Dolphin Monitoring

Event	ET Leader	IEC	ER / SOR	Contractor
Action Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor; 5. Check monitoring data. 6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor. 	<ol style="list-style-type: none"> 1. Discuss monitoring with the IEC and any other measures proposed by the ET; 2. If ER/SOR is satisfied with the proposal of any other measures, ER/SOR to signify the agreement in writing on the measures to be implemented. 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR; 3. Implement the agreed measures.
Limit Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary; 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly; 5. Supervise / Audit the 	<ol style="list-style-type: none"> 1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures; 3. Supervise the implementation of additional monitoring 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures; 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary; 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

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

Event and Action Plan for Mudflat Monitoring

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



APPENDIX G

Wind Data



Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-01	00:00	0.9	ESE	2017-09-01	07:10	0.9	ESE	2017-09-01	14:20	1.8	NNE
2017-09-01	00:05	2.2	ENE	2017-09-01	07:15	0.9	NW	2017-09-01	14:25	0.4	ESE
2017-09-01	00:10	0.9	NW	2017-09-01	07:20	0.4	NE	2017-09-01	14:30	2.2	ENE
2017-09-01	00:15	1.3	NNE	2017-09-01	07:25	0.4	SW	2017-09-01	14:35	0.9	W
2017-09-01	00:20	3.1	NNE	2017-09-01	07:30	0.4	ESE	2017-09-01	14:40	0.4	ESE
2017-09-01	00:25	0.4	ESE	2017-09-01	07:35	0.9	ESE	2017-09-01	14:45	1.3	E
2017-09-01	00:30	0.4	ESE	2017-09-01	07:40	0.9	W	2017-09-01	14:50	2.2	ENE
2017-09-01	00:35	0.4	ESE	2017-09-01	07:45	0.9	ESE	2017-09-01	14:55	1.3	N
2017-09-01	00:40	1.8	NE	2017-09-01	07:50	0.9	W	2017-09-01	15:00	0.9	SSW
2017-09-01	00:45	0.9	NW	2017-09-01	07:55	0.4	ESE	2017-09-01	15:05	4.9	NE
2017-09-01	00:50	3.6	NE	2017-09-01	08:00	0.4	ESE	2017-09-01	15:10	1.8	NE
2017-09-01	00:55	1.3	NE	2017-09-01	08:05	1.8	NE	2017-09-01	15:15	4	NE
2017-09-01	01:00	1.3	NNE	2017-09-01	08:10	0.4	ESE	2017-09-01	15:20	5.4	NE
2017-09-01	01:05	0.4	ESE	2017-09-01	08:15	0.9	W	2017-09-01	15:25	0.4	ESE
2017-09-01	01:10	1.3	N	2017-09-01	08:20	0.9	W	2017-09-01	15:30	0.9	NW
2017-09-01	01:15	0.9	NNW	2017-09-01	08:25	1.3	SW	2017-09-01	15:35	1.8	NE
2017-09-01	01:20	0.9	W	2017-09-01	08:30	0.4	ESE	2017-09-01	15:40	1.3	ENE
2017-09-01	01:25	4.5	NE	2017-09-01	08:35	0.4	ENE	2017-09-01	15:45	0.4	ESE
2017-09-01	01:30	1.3	NE	2017-09-01	08:40	0.4	ESE	2017-09-01	15:50	1.8	NNE
2017-09-01	01:35	0.4	ESE	2017-09-01	08:45	0.4	SW	2017-09-01	15:55	0.4	NW
2017-09-01	01:40	1.8	NNE	2017-09-01	08:50	1.3	NE	2017-09-01	16:00	3.1	NNE
2017-09-01	01:45	0.4	ESE	2017-09-01	08:55	0.4	ESE	2017-09-01	16:05	4.5	E
2017-09-01	01:50	0.4	ESE	2017-09-01	09:00	0.4	ESE	2017-09-01	16:10	0.4	ESE
2017-09-01	01:55	0.9	ESE	2017-09-01	09:05	2.7	ENE	2017-09-01	16:15	3.1	NE
2017-09-01	02:00	1.8	NNE	2017-09-01	09:10	1.3	ENE	2017-09-01	16:20	1.8	ENE
2017-09-01	02:05	3.1	ENE	2017-09-01	09:15	0.4	ESE	2017-09-01	16:25	2.7	ENE
2017-09-01	02:10	0.9	NW	2017-09-01	09:20	1.8	E	2017-09-01	16:30	0.9	W
2017-09-01	02:15	1.3	ENE	2017-09-01	09:25	2.7	SSE	2017-09-01	16:35	0.4	ESE
2017-09-01	02:20	0.9	WNV	2017-09-01	09:30	2.2	ENE	2017-09-01	16:40	0.4	ESE
2017-09-01	02:25	3.1	ESE	2017-09-01	09:35	0.4	ESE	2017-09-01	16:45	3.1	ESE
2017-09-01	02:30	1.3	WSW	2017-09-01	09:40	0.4	ESE	2017-09-01	16:50	1.3	ENE
2017-09-01	02:35	2.2	ENE	2017-09-01	09:45	1.8	ENE	2017-09-01	16:55	2.2	ENE
2017-09-01	02:40	2.7	ENE	2017-09-01	09:50	1.3	SW	2017-09-01	17:00	0.4	ESE
2017-09-01	02:45	0.4	ENE	2017-09-01	09:55	0.4	NE	2017-09-01	17:05	1.8	NNE
2017-09-01	02:50	1.8	E	2017-09-01	10:00	0.4	ESE	2017-09-01	17:10	0.4	ESE
2017-09-01	02:55	1.3	NNE	2017-09-01	10:05	0.4	ESE	2017-09-01	17:15	1.8	ENE
2017-09-01	03:00	1.8	NNE	2017-09-01	10:10	4	ENE	2017-09-01	17:20	0.4	ESE
2017-09-01	03:05	3.1	NE	2017-09-01	10:15	0.4	WNV	2017-09-01	17:25	0.4	ESE
2017-09-01	03:10	1.3	NNE	2017-09-01	10:20	4.9	E	2017-09-01	17:30	0.9	SSW
2017-09-01	03:15	0.9	W	2017-09-01	10:25	0.4	ESE	2017-09-01	17:35	0.4	ENE
2017-09-01	03:20	1.8	NE	2017-09-01	10:30	0.4	NNW	2017-09-01	17:40	0.9	W
2017-09-01	03:25	0.9	NW	2017-09-01	10:35	0.9	W	2017-09-01	17:45	0.4	ESE
2017-09-01	03:30	0.4	ESE	2017-09-01	10:40	0.4	ESE	2017-09-01	17:50	2.2	ENE
2017-09-01	03:35	0.9	ESE	2017-09-01	10:45	1.3	ENE	2017-09-01	17:55	0.4	ESE
2017-09-01	03:40	0.4	ENE	2017-09-01	10:50	1.8	ENE	2017-09-01	18:00	3.1	ENE
2017-09-01	03:45	2.2	ENE	2017-09-01	10:55	0.4	SW	2017-09-01	18:05	0.4	ESE
2017-09-01	03:50	1.8	NNE	2017-09-01	11:00	0.9	ESE	2017-09-01	18:10	1.3	E
2017-09-01	03:55	3.6	ENE	2017-09-01	11:05	2.7	E	2017-09-01	18:15	1.3	NNE
2017-09-01	04:00	2.2	NE	2017-09-01	11:10	2.7	ENE	2017-09-01	18:20	1.8	NE
2017-09-01	04:05	0.4	ESE	2017-09-01	11:15	1.3	ENE	2017-09-01	18:25	1.3	ENE
2017-09-01	04:10	0.4	N	2017-09-01	11:20	2.2	E	2017-09-01	18:30	0.4	N
2017-09-01	04:15	2.2	ENE	2017-09-01	11:25	0.9	NW	2017-09-01	18:35	0.9	ESE
2017-09-01	04:20	1.3	NNE	2017-09-01	11:30	0.4	ESE	2017-09-01	18:40	1.3	E
2017-09-01	04:25	0.4	NNE	2017-09-01	11:35	2.7	ENE	2017-09-01	18:45	0.4	NNE
2017-09-01	04:30	0.4	N	2017-09-01	11:40	0.4	ESE	2017-09-01	18:50	1.8	N
2017-09-01	04:35	0.9	SW	2017-09-01	11:45	0.9	NNW	2017-09-01	18:55	0.9	ESE
2017-09-01	04:40	1.8	NE	2017-09-01	11:50	0.4	ESE	2017-09-01	19:00	1.3	W
2017-09-01	04:45	3.1	E	2017-09-01	11:55	0.4	ESE	2017-09-01	19:05	2.2	NE
2017-09-01	04:50	0.9	W	2017-09-01	12:00	1.3	ENE	2017-09-01	19:10	2.2	ENE
2017-09-01	04:55	2.7	ENE	2017-09-01	12:05	0.4	ESE	2017-09-01	19:15	1.8	ENE
2017-09-01	05:00	2.2	NE	2017-09-01	12:10	0.4	ESE	2017-09-01	19:20	3.1	E
2017-09-01	05:05	0.4	ESE	2017-09-01	12:15	2.2	ENE	2017-09-01	19:25	1.8	NE
2017-09-01	05:10	0.4	ESE	2017-09-01	12:20	2.2	E	2017-09-01	19:30	0.4	ESE
2017-09-01	05:15	0.4	ESE	2017-09-01	12:25	0.4	ENE	2017-09-01	19:35	0.9	ENE
2017-09-01	05:20	0.4	ESE	2017-09-01	12:30	4.9	NE	2017-09-01	19:40	0.4	ESE
2017-09-01	05:25	0.4	ESE	2017-09-01	12:35	0.4	ESE	2017-09-01	19:45	0.4	ESE
2017-09-01	05:30	0.9	NW	2017-09-01	12:40	0.4	ESE	2017-09-01	19:50	0.9	NNW
2017-09-01	05:35	0.4	ESE	2017-09-01	12:45	1.3	WNV	2017-09-01	19:55	0.4	ESE
2017-09-01	05:40	1.3	NE	2017-09-01	12:50	1.3	NNE	2017-09-01	20:00	2.2	NE
2017-09-01	05:45	0.9	ENE	2017-09-01	12:55	0.4	ESE	2017-09-01	20:05	1.8	NNE
2017-09-01	05:50	0.9	ESE	2017-09-01	13:00	1.3	N	2017-09-01	20:10	0.9	W
2017-09-01	05:55	0.9	NW	2017-09-01	13:05	0.4	ESE	2017-09-01	20:15	0.4	ESE
2017-09-01	06:00	1.3	NNW	2017-09-01	13:10	0.4	ENE	2017-09-01	20:20	0.9	ESE
2017-09-01	06:05	0.4	ESE	2017-09-01	13:15	1.8	NNE	2017-09-01	20:25	1.3	NNE
2017-09-01	06:10	2.2	ENE	2017-09-01	13:20	1.8	ENE	2017-09-01	20:30	2.7	ENE
2017-09-01	06:15	1.8	NNE	2017-09-01	13:25	0.9	W	2017-09-01	20:35	1.3	ENE
2017-09-01	06:20	3.6	NE	2017-09-01	13:30	1.3	NNE	2017-09-01	20:40	0.9	NW
2017-09-01	06:25	0.9	SW	2017-09-01	13:35	1.8	NNE	2017-09-01	20:45	1.3	ENE
2017-09-01	06:30	1.8	NE	2017-09-01	13:40	0.9	ESE	2017-09-01	20:50	0.4	ESE
2017-09-01	06:35	1.3	ENE	2017-09-01	13:45	4	NE	2017-09-01	20:55	2.7	ENE
2017-09-01	06:40	1.3	W	2017-09-01	13:50	0.9	W	2017-09-01	21:00	0.9	W
2017-09-01	06:45	1.3	NNE	2017-09-01	13:55	0.9	NNE	2017-09-01	21:05	0.4	ESE
2017-09-01	06:50	0.4	W	2017-09-01	14:00	1.8	NE	2017-09-01	21:10	0.9	W
2017-09-01	06:55	0.4	ENE	2017-09-01	14:05	2.7	NE	2017-09-01	21:15	1.3	SW
2017-09-01	07:00	0.4	ESE	2017-09-01	14:10	1.8	E	2017-09-01	21:20	1.3	ENE
2017-09-01	07:05	0.4	SW	2017-09-01	14:15	1.8	N	2017-09-01	21:25	1.8	NNE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-01	21:30	1.3	NE	2017-09-02	04:40	4.5	E	2017-09-02	11:50	6.7	NE
2017-09-01	21:35	0.4	SW	2017-09-02	04:45	4.9	E	2017-09-02	11:55	4.5	ENE
2017-09-01	21:40	0.9	NW	2017-09-02	04:50	5.8	E	2017-09-02	12:00	4.5	ENE
2017-09-01	21:45	1.8	NE	2017-09-02	04:55	5.8	ENE	2017-09-02	12:05	4.5	ENE
2017-09-01	21:50	0.9	SW	2017-09-02	05:00	3.6	NE	2017-09-02	12:10	1.3	WNW
2017-09-01	21:55	0.4	ENE	2017-09-02	05:05	1.8	WNW	2017-09-02	12:15	1.3	NNE
2017-09-01	22:00	5.4	NE	2017-09-02	05:10	5.4	ENE	2017-09-02	12:20	0.4	NE
2017-09-01	22:05	0.4	ESE	2017-09-02	05:15	4.5	ENE	2017-09-02	12:25	4.5	E
2017-09-01	22:10	0.4	NNE	2017-09-02	05:20	1.8	N	2017-09-02	12:30	1.8	NE
2017-09-01	22:15	0.9	SSW	2017-09-02	05:25	1.3	WNW	2017-09-02	12:35	4.5	ENE
2017-09-01	22:20	1.3	ENE	2017-09-02	05:30	4.9	ENE	2017-09-02	12:40	4.5	E
2017-09-01	22:25	0.4	ESE	2017-09-02	05:35	2.2	ENE	2017-09-02	12:45	1.3	WNW
2017-09-01	22:30	1.8	ENE	2017-09-02	05:40	4.9	ENE	2017-09-02	12:50	4.5	NE
2017-09-01	22:35	0.4	SW	2017-09-02	05:45	3.6	ENE	2017-09-02	12:55	3.1	ENE
2017-09-01	22:40	0.4	ESE	2017-09-02	05:50	1.8	NE	2017-09-02	13:00	4.9	E
2017-09-01	22:45	0.9	W	2017-09-02	05:55	3.6	ENE	2017-09-02	13:05	4.5	ENE
2017-09-01	22:50	1.3	WNW	2017-09-02	06:00	7.2	ENE	2017-09-02	13:10	3.1	ENE
2017-09-01	22:55	4	NE	2017-09-02	06:05	2.2	NW	2017-09-02	13:15	4.5	NE
2017-09-01	23:00	0.9	W	2017-09-02	06:10	1.8	W	2017-09-02	13:20	1.3	W
2017-09-01	23:05	2.7	NE	2017-09-02	06:15	2.7	E	2017-09-02	13:25	1.8	N
2017-09-01	23:10	1.3	NNE	2017-09-02	06:20	5.4	E	2017-09-02	13:30	8.5	ENE
2017-09-01	23:15	2.2	ENE	2017-09-02	06:25	6.3	NE	2017-09-02	13:35	1.8	N
2017-09-01	23:20	0.9	SSW	2017-09-02	06:30	1.8	N	2017-09-02	13:40	5.8	ENE
2017-09-01	23:25	0.4	ESE	2017-09-02	06:35	1.3	WNW	2017-09-02	13:45	0.9	NE
2017-09-01	23:30	0.9	NW	2017-09-02	06:40	5.8	ENE	2017-09-02	13:50	2.7	WNW
2017-09-01	23:35	0.9	ESE	2017-09-02	06:45	4.9	E	2017-09-02	13:55	1.3	WNW
2017-09-01	23:40	1.8	ENE	2017-09-02	06:50	5.4	ENE	2017-09-02	14:00	3.6	NE
2017-09-01	23:45	2.2	ENE	2017-09-02	06:55	3.1	NNE	2017-09-02	14:05	4.9	NE
2017-09-01	23:50	0.9	SW	2017-09-02	07:00	2.2	ENE	2017-09-02	14:10	4.5	E
2017-09-01	23:55	1.3	E	2017-09-02	07:05	2.7	E	2017-09-02	14:15	4	E
2017-09-02	00:00	1.8	NE	2017-09-02	07:10	4	ENE	2017-09-02	14:20	4.9	NE
2017-09-02	00:05	6.7	ENE	2017-09-02	07:15	4.5	E	2017-09-02	14:25	4.9	E
2017-09-02	00:10	0.9	NE	2017-09-02	07:20	1.3	NNE	2017-09-02	14:30	4.5	E
2017-09-02	00:15	4	ENE	2017-09-02	07:25	4.9	E	2017-09-02	14:35	1.3	NNE
2017-09-02	00:20	3.1	NNE	2017-09-02	07:30	0.9	NE	2017-09-02	14:40	3.1	ENE
2017-09-02	00:25	4.5	E	2017-09-02	07:35	1.3	WNW	2017-09-02	14:45	4.5	E
2017-09-02	00:30	5.8	ENE	2017-09-02	07:40	1.3	WNW	2017-09-02	14:50	4.9	ENE
2017-09-02	00:35	0.9	NE	2017-09-02	07:45	4.9	ENE	2017-09-02	14:55	5.8	ENE
2017-09-02	00:40	6.7	ENE	2017-09-02	07:50	1.3	NNE	2017-09-02	15:00	4.5	NE
2017-09-02	00:45	4.5	E	2017-09-02	07:55	1.3	WNW	2017-09-02	15:05	4.5	NE
2017-09-02	00:50	2.7	E	2017-09-02	08:00	1.8	N	2017-09-02	15:10	4.9	E
2017-09-02	00:55	6.7	NE	2017-09-02	08:05	6.7	ENE	2017-09-02	15:15	5.8	ENE
2017-09-02	01:00	4.9	ENE	2017-09-02	08:10	3.1	NE	2017-09-02	15:20	1.3	W
2017-09-02	01:05	1.8	NE	2017-09-02	08:15	1.3	W	2017-09-02	15:25	3.6	NE
2017-09-02	01:10	8.5	ENE	2017-09-02	08:20	1.3	SSW	2017-09-02	15:30	1.8	N
2017-09-02	01:15	0.9	NE	2017-09-02	08:25	1.8	WNW	2017-09-02	15:35	1.3	NNE
2017-09-02	01:20	6.3	E	2017-09-02	08:30	2.2	NE	2017-09-02	15:40	6.3	ENE
2017-09-02	01:25	5.8	ENE	2017-09-02	08:35	1.3	NNE	2017-09-02	15:45	6.7	ENE
2017-09-02	01:30	5.4	ENE	2017-09-02	08:40	1.8	N	2017-09-02	15:50	6.3	ENE
2017-09-02	01:35	4.9	E	2017-09-02	08:45	1.8	WNW	2017-09-02	15:55	1.3	W
2017-09-02	01:40	4.9	E	2017-09-02	08:50	3.6	NE	2017-09-02	16:00	2.7	ENE
2017-09-02	01:45	4.9	NE	2017-09-02	08:55	5.8	E	2017-09-02	16:05	2.7	NNE
2017-09-02	01:50	3.6	ENE	2017-09-02	09:00	1.3	W	2017-09-02	16:10	2.2	NE
2017-09-02	01:55	1.8	N	2017-09-02	09:05	1.3	WNW	2017-09-02	16:15	2.2	NE
2017-09-02	02:00	4.9	E	2017-09-02	09:10	1.3	W	2017-09-02	16:20	5.8	ENE
2017-09-02	02:05	1.3	WNW	2017-09-02	09:15	1.3	NNE	2017-09-02	16:25	1.3	W
2017-09-02	02:10	4.9	E	2017-09-02	09:20	1.8	W	2017-09-02	16:30	1.3	NNE
2017-09-02	02:15	1.3	WNW	2017-09-02	09:25	8.5	ENE	2017-09-02	16:35	2.7	NNE
2017-09-02	02:20	4.5	ENE	2017-09-02	09:30	8	ENE	2017-09-02	16:40	7.2	E
2017-09-02	02:25	4.5	ENE	2017-09-02	09:35	1.8	N	2017-09-02	16:45	5.4	E
2017-09-02	02:30	2.2	ENE	2017-09-02	09:40	4.5	ENE	2017-09-02	16:50	3.1	E
2017-09-02	02:35	1.8	N	2017-09-02	09:45	4.5	ENE	2017-09-02	16:55	3.1	NE
2017-09-02	02:40	4.5	E	2017-09-02	09:50	1.3	NNE	2017-09-02	17:00	1.3	WNW
2017-09-02	02:45	1.3	WNW	2017-09-02	09:55	4.9	E	2017-09-02	17:05	2.7	E
2017-09-02	02:50	3.6	ENE	2017-09-02	10:00	7.2	ENE	2017-09-02	17:10	3.1	NNE
2017-09-02	02:55	5.4	E	2017-09-02	10:05	1.3	W	2017-09-02	17:15	2.2	ENE
2017-09-02	03:00	7.2	E	2017-09-02	10:10	0.9	NE	2017-09-02	17:20	8	ENE
2017-09-02	03:05	1.8	N	2017-09-02	10:15	1.8	E	2017-09-02	17:25	1.3	WNW
2017-09-02	03:10	3.1	ENE	2017-09-02	10:20	8	ENE	2017-09-02	17:30	1.8	NE
2017-09-02	03:15	1.8	N	2017-09-02	10:25	4.9	NE	2017-09-02	17:35	2.2	NE
2017-09-02	03:20	4.9	ENE	2017-09-02	10:30	6.3	ENE	2017-09-02	17:40	4.5	E
2017-09-02	03:25	5.4	E	2017-09-02	10:35	4.9	E	2017-09-02	17:45	4.9	E
2017-09-02	03:30	4.5	E	2017-09-02	10:40	7.6	ENE	2017-09-02	17:50	1.3	WNW
2017-09-02	03:35	4.5	E	2017-09-02	10:45	4.9	NE	2017-09-02	17:55	6.7	E
2017-09-02	03:40	5.4	ENE	2017-09-02	10:50	1.8	WNW	2017-09-02	18:00	7.6	ENE
2017-09-02	03:45	4.5	E	2017-09-02	10:55	4.5	E	2017-09-02	18:05	7.2	ENE
2017-09-02	03:50	4.5	NE	2017-09-02	11:00	1.3	NNE	2017-09-02	18:10	4.9	NE
2017-09-02	03:55	4.9	E	2017-09-02	11:05	2.2	ENE	2017-09-02	18:15	6.7	ENE
2017-09-02	04:00	8	E	2017-09-02	11:10	1.8	NE	2017-09-02	18:20	1.3	W
2017-09-02	04:05	5.8	E	2017-09-02	11:15	4.9	NE	2017-09-02	18:25	1.8	N
2017-09-02	04:10	1.3	W	2017-09-02	11:20	4.9	ENE	2017-09-02	18:30	1.3	WNW
2017-09-02	04:15	4.9	NE	2017-09-02	11:25	5.8	E	2017-09-02	18:35	4.5	E
2017-09-02	04:20	4.5	E	2017-09-02	11:30	2.2	NNE	2017-09-02	18:40	1.8	N
2017-09-02	04:25	1.3	W	2017-09-02	11:35	1.3	WNW	2017-09-02	18:45	1.3	NNE
2017-09-02	04:30	5.4	ENE	2017-09-02	11:40	3.1	NE	2017-09-02	18:50	1.8	WNW
2017-09-02	04:35	1.8	NE	2017-09-02	11:45	6.7	E	2017-09-02	18:55	4.9	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-02	19:00	1.8	WNW	2017-09-03	02:10	2.7	W	2017-09-03	09:20	2.2	E
2017-09-02	19:05	1.3	WNW	2017-09-03	02:15	1.3	WNW	2017-09-03	09:25	1.3	WNW
2017-09-02	19:10	4.9	ENE	2017-09-03	02:20	3.1	ENE	2017-09-03	09:30	2.2	NNE
2017-09-02	19:15	1.3	NNE	2017-09-03	02:25	0.9	WSW	2017-09-03	09:35	1.3	NNW
2017-09-02	19:20	1.8	NE	2017-09-03	02:30	3.6	E	2017-09-03	09:40	4.5	E
2017-09-02	19:25	5.4	E	2017-09-03	02:35	0.9	E	2017-09-03	09:45	2.2	NNE
2017-09-02	19:30	1.3	NNE	2017-09-03	02:40	3.6	ENE	2017-09-03	09:50	4	NE
2017-09-02	19:35	1.8	WNW	2017-09-03	02:45	1.8	ENE	2017-09-03	09:55	1.3	E
2017-09-02	19:40	7.2	ENE	2017-09-03	02:50	5.8	E	2017-09-03	10:00	3.6	E
2017-09-02	19:45	1.3	WNW	2017-09-03	02:55	2.7	W	2017-09-03	10:05	0.9	NNE
2017-09-02	19:50	7.6	ENE	2017-09-03	03:00	2.7	W	2017-09-03	10:10	4.9	NE
2017-09-02	19:55	4.9	NE	2017-09-03	03:05	1.8	W	2017-09-03	10:15	1.8	NW
2017-09-02	20:00	3.6	NE	2017-09-03	03:10	4.9	ENE	2017-09-03	10:20	5.4	NE
2017-09-02	20:05	2.2	NW	2017-09-03	03:15	1.8	E	2017-09-03	10:25	3.6	E
2017-09-02	20:10	5.8	E	2017-09-03	03:20	0.9	E	2017-09-03	10:30	1.3	W
2017-09-02	20:15	2.7	E	2017-09-03	03:25	2.2	E	2017-09-03	10:35	3.6	E
2017-09-02	20:20	2.7	E	2017-09-03	03:30	2.2	NW	2017-09-03	10:40	0.4	W
2017-09-02	20:25	0.4	NE	2017-09-03	03:35	3.6	E	2017-09-03	10:45	4.5	NE
2017-09-02	20:30	4.5	ENE	2017-09-03	03:40	4	NE	2017-09-03	10:50	1.8	E
2017-09-02	20:35	3.6	ENE	2017-09-03	03:45	0.9	WSW	2017-09-03	10:55	1.8	ENE
2017-09-02	20:40	2.2	ENE	2017-09-03	03:50	1.8	ENE	2017-09-03	11:00	4.9	ENE
2017-09-02	20:45	4.9	E	2017-09-03	03:55	4	ENE	2017-09-03	11:05	1.3	NE
2017-09-02	20:50	1.3	NNE	2017-09-03	04:00	4.9	ENE	2017-09-03	11:10	2.7	W
2017-09-02	20:55	2.7	E	2017-09-03	04:05	1.3	NW	2017-09-03	11:15	1.3	NW
2017-09-02	21:00	1.8	N	2017-09-03	04:10	1.3	ENE	2017-09-03	11:20	1.3	NNE
2017-09-02	21:05	1.3	WNW	2017-09-03	04:15	5.4	ENE	2017-09-03	11:25	2.7	NNE
2017-09-02	21:10	4.5	NE	2017-09-03	04:20	4.5	ENE	2017-09-03	11:30	4.9	ENE
2017-09-02	21:15	1.3	W	2017-09-03	04:25	1.3	NNW	2017-09-03	11:35	1.3	W
2017-09-02	21:20	1.3	NNE	2017-09-03	04:30	4	ENE	2017-09-03	11:40	5.4	NE
2017-09-02	21:25	4.9	E	2017-09-03	04:35	1.8	WNW	2017-09-03	11:45	2.2	NNE
2017-09-02	21:30	1.3	W	2017-09-03	04:40	1.8	WNW	2017-09-03	11:50	3.1	NE
2017-09-02	21:35	7.6	ENE	2017-09-03	04:45	0.9	NNE	2017-09-03	11:55	4.9	NE
2017-09-02	21:40	4.9	NE	2017-09-03	04:50	1.3	NNW	2017-09-03	12:00	4.5	NE
2017-09-02	21:45	1.3	W	2017-09-03	04:55	4.9	ENE	2017-09-03	12:05	2.2	NW
2017-09-02	21:50	4.9	ENE	2017-09-03	05:00	2.2	NE	2017-09-03	12:10	4	NE
2017-09-02	21:55	4.5	E	2017-09-03	05:05	1.8	NW	2017-09-03	12:15	1.3	N
2017-09-02	22:00	5.8	ENE	2017-09-03	05:10	2.2	NE	2017-09-03	12:20	4	E
2017-09-02	22:05	7.2	ENE	2017-09-03	05:15	1.8	E	2017-09-03	12:25	4.9	NE
2017-09-02	22:10	0.9	NE	2017-09-03	05:20	5.4	ENE	2017-09-03	12:30	1.3	ENE
2017-09-02	22:15	4.5	E	2017-09-03	05:25	2.2	E	2017-09-03	12:35	5.8	ENE
2017-09-02	22:20	1.3	NNE	2017-09-03	05:30	5.8	NE	2017-09-03	12:40	2.2	NNE
2017-09-02	22:25	2.2	ENE	2017-09-03	05:35	1.8	WNW	2017-09-03	12:45	0.4	WSW
2017-09-02	22:30	4.9	E	2017-09-03	05:40	2.7	ENE	2017-09-03	12:50	2.2	ENE
2017-09-02	22:35	7.2	ENE	2017-09-03	05:45	2.2	NNE	2017-09-03	12:55	3.6	E
2017-09-02	22:40	4.5	E	2017-09-03	05:50	1.3	ENE	2017-09-03	13:00	2.2	E
2017-09-02	22:45	1.3	WNW	2017-09-03	05:55	1.3	NE	2017-09-03	13:05	1.3	NE
2017-09-02	22:50	5.8	E	2017-09-03	06:00	4	ENE	2017-09-03	13:10	1.3	NNE
2017-09-02	22:55	4.9	E	2017-09-03	06:05	2.2	E	2017-09-03	13:15	0.9	NNE
2017-09-02	23:00	2.7	WNW	2017-09-03	06:10	2.7	W	2017-09-03	13:20	1.8	E
2017-09-02	23:05	1.3	WNW	2017-09-03	06:15	1.3	NE	2017-09-03	13:25	4	NE
2017-09-02	23:10	6.3	NE	2017-09-03	06:20	1.3	NW	2017-09-03	13:30	1.3	N
2017-09-02	23:15	5.4	E	2017-09-03	06:25	2.2	NE	2017-09-03	13:35	4	NE
2017-09-02	23:20	4.9	E	2017-09-03	06:30	1.3	W	2017-09-03	13:40	4	NE
2017-09-02	23:25	5.4	ENE	2017-09-03	06:35	3.6	E	2017-09-03	13:45	1.8	ENE
2017-09-02	23:30	4.5	ENE	2017-09-03	06:40	1.8	WNW	2017-09-03	13:50	3.6	E
2017-09-02	23:35	6.3	E	2017-09-03	06:45	3.6	E	2017-09-03	13:55	4.9	E
2017-09-02	23:40	1.3	WNW	2017-09-03	06:50	1.8	NW	2017-09-03	14:00	4.9	E
2017-09-02	23:45	8	ENE	2017-09-03	06:55	5.4	NE	2017-09-03	14:05	6.3	ENE
2017-09-02	23:50	4.5	NE	2017-09-03	07:00	3.1	NE	2017-09-03	14:10	2.2	NE
2017-09-02	23:55	4	ENE	2017-09-03	07:05	2.2	NNE	2017-09-03	14:15	2.2	NE
2017-09-03	00:00	3.6	ENE	2017-09-03	07:10	3.1	NE	2017-09-03	14:20	2.2	W
2017-09-03	00:05	1.3	NNE	2017-09-03	07:15	1.3	ENE	2017-09-03	14:25	1.3	NNE
2017-09-03	00:10	1.3	ENE	2017-09-03	07:20	1.3	WNW	2017-09-03	14:30	0.9	NNE
2017-09-03	00:15	1.3	NW	2017-09-03	07:25	1.3	NE	2017-09-03	14:35	6.3	ENE
2017-09-03	00:20	5.4	NE	2017-09-03	07:30	1.8	WNW	2017-09-03	14:40	2.2	E
2017-09-03	00:25	1.8	WNW	2017-09-03	07:35	1.8	W	2017-09-03	14:45	4.5	ENE
2017-09-03	00:30	4	ENE	2017-09-03	07:40	4.5	NE	2017-09-03	14:50	0.4	WNW
2017-09-03	00:35	5.4	NE	2017-09-03	07:45	4.5	E	2017-09-03	14:55	2.2	NNE
2017-09-03	00:40	4.5	ENE	2017-09-03	07:50	0.9	E	2017-09-03	15:00	3.6	E
2017-09-03	00:45	5.4	NE	2017-09-03	07:55	3.1	NNE	2017-09-03	15:05	1.3	ENE
2017-09-03	00:50	1.8	ENE	2017-09-03	08:00	2.2	NW	2017-09-03	15:10	4.9	ENE
2017-09-03	00:55	1.3	WNW	2017-09-03	08:05	4	ENE	2017-09-03	15:15	5.8	NE
2017-09-03	01:00	0.9	E	2017-09-03	08:10	1.3	NW	2017-09-03	15:20	4	E
2017-09-03	01:05	2.2	NE	2017-09-03	08:15	4	ENE	2017-09-03	15:25	0.9	E
2017-09-03	01:10	1.3	WSW	2017-09-03	08:20	4	E	2017-09-03	15:30	1.3	ENE
2017-09-03	01:15	6.3	ENE	2017-09-03	08:25	1.3	NW	2017-09-03	15:35	6.7	E
2017-09-03	01:20	3.1	NNE	2017-09-03	08:30	5.4	ENE	2017-09-03	15:40	2.2	ENE
2017-09-03	01:25	2.2	NW	2017-09-03	08:35	1.3	NW	2017-09-03	15:45	1.3	NW
2017-09-03	01:30	0.9	NNE	2017-09-03	08:40	1.3	NE	2017-09-03	15:50	1.3	ENE
2017-09-03	01:35	3.1	ENE	2017-09-03	08:45	5.4	ENE	2017-09-03	15:55	0.4	W
2017-09-03	01:40	4.9	NE	2017-09-03	08:50	4.9	E	2017-09-03	16:00	5.4	ENE
2017-09-03	01:45	0.9	W	2017-09-03	08:55	3.6	E	2017-09-03	16:05	1.8	NW
2017-09-03	01:50	1.3	NNW	2017-09-03	09:00	0.9	NNE	2017-09-03	16:10	1.8	E
2017-09-03	01:55	4.9	ENE	2017-09-03	09:05	1.3	NNW	2017-09-03	16:15	4	ENE
2017-09-03	02:00	0.9	E	2017-09-03	09:10	2.7	NNE	2017-09-03	16:20	4.9	E
2017-09-03	02:05	2.2	E	2017-09-03	09:15	1.3	ENE	2017-09-03	16:25	1.8	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-03	16:30	5.8	ENE	2017-09-03	23:40	2.7	NE	2017-09-04	06:50	0.4	SSW
2017-09-03	16:35	6.7	E	2017-09-03	23:45	3.1	NNE	2017-09-04	06:55	0.9	SSW
2017-09-03	16:40	5.4	E	2017-09-03	23:50	1.3	NNW	2017-09-04	07:00	1.8	NNE
2017-09-03	16:45	1.8	WNW	2017-09-03	23:55	1.8	W	2017-09-04	07:05	0.4	SW
2017-09-03	16:50	1.3	ENE	2017-09-04	00:00	2.2	E	2017-09-04	07:10	2.2	WNW
2017-09-03	16:55	2.2	WNW	2017-09-04	00:05	1.3	N	2017-09-04	07:15	2.7	WSW
2017-09-03	17:00	1.3	NNE	2017-09-04	00:10	0.4	SW	2017-09-04	07:20	2.2	E
2017-09-03	17:05	4.5	E	2017-09-04	00:15	2.2	NE	2017-09-04	07:25	4	NNE
2017-09-03	17:10	1.3	W	2017-09-04	00:20	4	NNE	2017-09-04	07:30	0.4	SSW
2017-09-03	17:15	1.3	ENE	2017-09-04	00:25	2.7	NE	2017-09-04	07:35	2.2	W
2017-09-03	17:20	2.7	WNW	2017-09-04	00:30	1.3	N	2017-09-04	07:40	3.6	NE
2017-09-03	17:25	1.8	NW	2017-09-04	00:35	0.4	SW	2017-09-04	07:45	2.7	NNE
2017-09-03	17:30	1.8	ENE	2017-09-04	00:40	1.8	SSW	2017-09-04	07:50	0.4	NNE
2017-09-03	17:35	4	ENE	2017-09-04	00:45	0.4	NNE	2017-09-04	07:55	1.3	NW
2017-09-03	17:40	2.2	NE	2017-09-04	00:50	2.2	W	2017-09-04	08:00	3.6	NE
2017-09-03	17:45	0.9	WNW	2017-09-04	00:55	1.3	SW	2017-09-04	08:05	0.9	WSW
2017-09-03	17:50	1.3	ENE	2017-09-04	01:00	0.4	SW	2017-09-04	08:10	0.4	SW
2017-09-03	17:55	4	ENE	2017-09-04	01:05	1.8	NE	2017-09-04	08:15	0.4	SW
2017-09-03	18:00	3.6	E	2017-09-04	01:10	2.7	NE	2017-09-04	08:20	0.4	NNW
2017-09-03	18:05	1.3	NNE	2017-09-04	01:15	1.3	NNE	2017-09-04	08:25	1.8	E
2017-09-03	18:10	4.5	ENE	2017-09-04	01:20	1.8	N	2017-09-04	08:30	1.3	WSW
2017-09-03	18:15	3.6	E	2017-09-04	01:25	1.8	ENE	2017-09-04	08:35	2.2	NNE
2017-09-03	18:20	5.4	ENE	2017-09-04	01:30	0.4	WSW	2017-09-04	08:40	1.8	WNW
2017-09-03	18:25	4.5	ENE	2017-09-04	01:35	1.3	WSW	2017-09-04	08:45	0.4	SSW
2017-09-03	18:30	0.9	E	2017-09-04	01:40	0.9	WNW	2017-09-04	08:50	0.4	WSW
2017-09-03	18:35	3.1	ENE	2017-09-04	01:45	0.4	WNW	2017-09-04	08:55	0.9	SSW
2017-09-03	18:40	1.8	NNW	2017-09-04	01:50	3.1	NE	2017-09-04	09:00	0.9	WSW
2017-09-03	18:45	3.6	ENE	2017-09-04	01:55	0.9	SSW	2017-09-04	09:05	3.6	NE
2017-09-03	18:50	0.9	NNE	2017-09-04	02:00	0.4	S	2017-09-04	09:10	1.3	SW
2017-09-03	18:55	2.2	NE	2017-09-04	02:05	2.2	W	2017-09-04	09:15	0.9	W
2017-09-03	19:00	3.6	E	2017-09-04	02:10	4.5	NE	2017-09-04	09:20	3.1	NE
2017-09-03	19:05	2.2	E	2017-09-04	02:15	3.1	NE	2017-09-04	09:25	0.4	SW
2017-09-03	19:10	3.6	W	2017-09-04	02:20	4.5	NE	2017-09-04	09:30	1.8	SSW
2017-09-03	19:15	5.4	NE	2017-09-04	02:25	2.2	WNW	2017-09-04	09:35	2.2	WNW
2017-09-03	19:20	1.3	NW	2017-09-04	02:30	2.2	ENE	2017-09-04	09:40	0.4	SW
2017-09-03	19:25	4.9	ENE	2017-09-04	02:35	4	NE	2017-09-04	09:45	0.4	SW
2017-09-03	19:30	2.2	ENE	2017-09-04	02:40	0.4	SW	2017-09-04	09:50	0.4	WSW
2017-09-03	19:35	4.9	ENE	2017-09-04	02:45	4	ENE	2017-09-04	09:55	1.3	WSW
2017-09-03	19:40	3.6	W	2017-09-04	02:50	1.3	ENE	2017-09-04	10:00	0.4	WSW
2017-09-03	19:45	5.4	ENE	2017-09-04	02:55	0.9	NE	2017-09-04	10:05	0.9	SW
2017-09-03	19:50	4	E	2017-09-04	03:00	2.7	ENE	2017-09-04	10:10	0.4	SSW
2017-09-03	19:55	4.5	E	2017-09-04	03:05	0.4	NW	2017-09-04	10:15	2.2	N
2017-09-03	20:00	1.8	ENE	2017-09-04	03:10	0.4	ENE	2017-09-04	10:20	0.4	WSW
2017-09-03	20:05	2.2	NE	2017-09-04	03:15	0.9	ESE	2017-09-04	10:25	1.3	ENE
2017-09-03	20:10	1.8	ENE	2017-09-04	03:20	0.4	NNW	2017-09-04	10:30	2.2	NE
2017-09-03	20:15	1.3	NNE	2017-09-04	03:25	1.3	SW	2017-09-04	10:35	0.9	SSW
2017-09-03	20:20	3.1	W	2017-09-04	03:30	2.7	NE	2017-09-04	10:40	1.3	NNE
2017-09-03	20:25	3.1	ENE	2017-09-04	03:35	0.4	SW	2017-09-04	10:45	0.4	NNW
2017-09-03	20:30	1.3	NE	2017-09-04	03:40	0.4	WNW	2017-09-04	10:50	0.4	WSW
2017-09-03	20:35	5.4	ENE	2017-09-04	03:45	0.9	ENE	2017-09-04	10:55	4	NE
2017-09-03	20:40	1.3	NNW	2017-09-04	03:50	0.4	SSW	2017-09-04	11:00	2.2	WNW
2017-09-03	20:45	1.8	WNW	2017-09-04	03:55	3.6	NE	2017-09-04	11:05	3.6	NE
2017-09-03	20:50	5.4	ENE	2017-09-04	04:00	3.1	NE	2017-09-04	11:10	0.4	SSW
2017-09-03	20:55	1.3	NNE	2017-09-04	04:05	0.9	WSW	2017-09-04	11:15	0.4	SSW
2017-09-03	21:00	3.1	E	2017-09-04	04:10	4	NE	2017-09-04	11:20	3.1	NE
2017-09-03	21:05	5.8	E	2017-09-04	04:15	2.7	NE	2017-09-04	11:25	2.7	NE
2017-09-03	21:10	4.5	ENE	2017-09-04	04:20	3.6	E	2017-09-04	11:30	1.3	SW
2017-09-03	21:15	3.6	E	2017-09-04	04:25	3.6	E	2017-09-04	11:35	2.2	NE
2017-09-03	21:20	1.3	NNE	2017-09-04	04:30	0.9	WSW	2017-09-04	11:40	0.9	NE
2017-09-03	21:25	4.5	NE	2017-09-04	04:35	0.9	SW	2017-09-04	11:45	1.8	WSW
2017-09-03	21:30	5.4	E	2017-09-04	04:40	5.4	NE	2017-09-04	11:50	4	NE
2017-09-03	21:35	0.9	NNE	2017-09-04	04:45	2.2	W	2017-09-04	11:55	0.4	WSW
2017-09-03	21:40	2.2	NNE	2017-09-04	04:50	0.9	NW	2017-09-04	12:00	3.6	NNE
2017-09-03	21:45	1.8	WNW	2017-09-04	04:55	4.9	NE	2017-09-04	12:05	2.7	NNE
2017-09-03	21:50	4.9	NE	2017-09-04	05:00	0.4	SW	2017-09-04	12:10	0.9	NNW
2017-09-03	21:55	1.8	NW	2017-09-04	05:05	1.3	NW	2017-09-04	12:15	1.8	NE
2017-09-03	22:00	3.6	E	2017-09-04	05:10	1.3	WNW	2017-09-04	12:20	0.4	NNE
2017-09-03	22:05	1.8	NW	2017-09-04	05:15	0.4	NW	2017-09-04	12:25	1.8	ENE
2017-09-03	22:10	4	NE	2017-09-04	05:20	1.3	SW	2017-09-04	12:30	1.3	ESE
2017-09-03	22:15	4	ENE	2017-09-04	05:25	0.9	SW	2017-09-04	12:35	0.4	SSW
2017-09-03	22:20	5.4	ENE	2017-09-04	05:30	2.2	E	2017-09-04	12:40	0.9	WNW
2017-09-03	22:25	2.2	NW	2017-09-04	05:35	0.9	NNW	2017-09-04	12:45	1.3	SW
2017-09-03	22:30	4.9	ENE	2017-09-04	05:40	1.8	NNE	2017-09-04	12:50	2.7	ENE
2017-09-03	22:35	4.5	E	2017-09-04	05:45	0.9	NE	2017-09-04	12:55	0.4	SSW
2017-09-03	22:40	1.8	E	2017-09-04	05:50	1.3	SSW	2017-09-04	13:00	0.9	NNE
2017-09-03	22:45	2.2	NW	2017-09-04	05:55	0.4	ENE	2017-09-04	13:05	0.4	SSW
2017-09-03	22:50	1.3	NE	2017-09-04	06:00	4.5	NE	2017-09-04	13:10	1.3	SW
2017-09-03	22:55	2.2	NW	2017-09-04	06:05	1.8	N	2017-09-04	13:15	3.1	NE
2017-09-03	23:00	3.6	E	2017-09-04	06:10	2.7	NE	2017-09-04	13:20	0.4	WSW
2017-09-03	23:05	5.8	ENE	2017-09-04	06:15	5.4	ENE	2017-09-04	13:25	1.8	W
2017-09-03	23:10	1.8	ENE	2017-09-04	06:20	0.9	WSW	2017-09-04	13:30	0.4	WSW
2017-09-03	23:15	1.8	W	2017-09-04	06:25	1.3	SW	2017-09-04	13:35	0.4	SSW
2017-09-03	23:20	0.4	ESE	2017-09-04	06:30	0.9	WSW	2017-09-04	13:40	2.2	NE
2017-09-03	23:25	1.3	NNE	2017-09-04	06:35	1.3	WNW	2017-09-04	13:45	1.3	WNW
2017-09-03	23:30	4.9	ENE	2017-09-04	06:40	0.4	N	2017-09-04	13:50	1.3	WNW
2017-09-03	23:35	1.8	ENE	2017-09-04	06:45	3.1	NE	2017-09-04	13:55	1.8	WNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-04	14:00	0.4	SSW	2017-09-04	21:10	3.1	NE	2017-09-05	04:20	0.9	N
2017-09-04	14:05	0.9	NW	2017-09-04	21:15	0.4	ENE	2017-09-05	04:25	0.4	N
2017-09-04	14:10	0.4	NNW	2017-09-04	21:20	1.3	NNE	2017-09-05	04:30	0.4	W
2017-09-04	14:15	4	ENE	2017-09-04	21:25	0.4	E	2017-09-05	04:35	3.6	ENE
2017-09-04	14:20	1.8	WNW	2017-09-04	21:30	4	NE	2017-09-05	04:40	0.4	ENE
2017-09-04	14:25	0.9	WSW	2017-09-04	21:35	1.8	N	2017-09-05	04:45	0.9	E
2017-09-04	14:30	0.4	NE	2017-09-04	21:40	3.6	NE	2017-09-05	04:50	3.6	NE
2017-09-04	14:35	0.9	NNW	2017-09-04	21:45	0.4	SSW	2017-09-05	04:55	3.6	NE
2017-09-04	14:40	4.9	NE	2017-09-04	21:50	1.3	NE	2017-09-05	05:00	1.8	ENE
2017-09-04	14:45	1.8	N	2017-09-04	21:55	0.4	SSW	2017-09-05	05:05	4	ENE
2017-09-04	14:50	4	NE	2017-09-04	22:00	0.4	SSW	2017-09-05	05:10	4.9	NE
2017-09-04	14:55	1.3	SW	2017-09-04	22:05	0.4	WSW	2017-09-05	05:15	0.4	WNW
2017-09-04	15:00	0.4	ENE	2017-09-04	22:10	2.2	NNE	2017-09-05	05:20	1.8	NE
2017-09-04	15:05	0.9	WSW	2017-09-04	22:15	1.3	WSW	2017-09-05	05:25	4	NE
2017-09-04	15:10	3.1	NNE	2017-09-04	22:20	3.1	NE	2017-09-05	05:30	0.4	NE
2017-09-04	15:15	1.8	WNW	2017-09-04	22:25	0.4	SW	2017-09-05	05:35	2.2	E
2017-09-04	15:20	2.7	NE	2017-09-04	22:30	4.5	NE	2017-09-05	05:40	1.3	ENE
2017-09-04	15:25	1.3	WNW	2017-09-04	22:35	0.9	SW	2017-09-05	05:45	4.5	ENE
2017-09-04	15:30	0.4	ENE	2017-09-04	22:40	2.7	ENE	2017-09-05	05:50	0.4	ENE
2017-09-04	15:35	1.8	E	2017-09-04	22:45	0.4	SSW	2017-09-05	05:55	3.6	NE
2017-09-04	15:40	0.4	NNW	2017-09-04	22:50	1.8	E	2017-09-05	06:00	0.4	NE
2017-09-04	15:45	0.4	N	2017-09-04	22:55	2.7	NNE	2017-09-05	06:05	2.2	E
2017-09-04	15:50	0.9	SW	2017-09-04	23:00	2.7	W	2017-09-05	06:10	4	ENE
2017-09-04	15:55	1.8	NW	2017-09-04	23:05	3.6	ENE	2017-09-05	06:15	3.6	E
2017-09-04	16:00	2.2	NNE	2017-09-04	23:10	0.9	SSW	2017-09-05	06:20	2.7	ENE
2017-09-04	16:05	1.3	WNW	2017-09-04	23:15	0.4	SSW	2017-09-05	06:25	1.8	E
2017-09-04	16:10	0.4	NNE	2017-09-04	23:20	2.2	WNW	2017-09-05	06:30	4.5	NE
2017-09-04	16:15	2.7	ENE	2017-09-04	23:25	1.8	E	2017-09-05	06:35	3.1	NE
2017-09-04	16:20	4	NE	2017-09-04	23:30	1.3	NNE	2017-09-05	06:40	4.5	NE
2017-09-04	16:25	0.9	WSW	2017-09-04	23:35	1.8	NE	2017-09-05	06:45	1.3	NNW
2017-09-04	16:30	2.2	NE	2017-09-04	23:40	0.4	SSW	2017-09-05	06:50	1.3	NNE
2017-09-04	16:35	1.8	NE	2017-09-04	23:45	2.7	NNE	2017-09-05	06:55	0.4	ENE
2017-09-04	16:40	0.9	E	2017-09-04	23:50	1.3	W	2017-09-05	07:00	0.9	ENE
2017-09-04	16:45	0.4	E	2017-09-04	23:55	1.8	E	2017-09-05	07:05	0.9	E
2017-09-04	16:50	1.3	SW	2017-09-05	00:00	1.8	W	2017-09-05	07:10	3.6	NNE
2017-09-04	16:55	2.2	ENE	2017-09-05	00:05	4.9	ENE	2017-09-05	07:15	0.4	WNW
2017-09-04	17:00	1.3	E	2017-09-05	00:10	0.4	ENE	2017-09-05	07:20	0.9	ENE
2017-09-04	17:05	3.6	ENE	2017-09-05	00:15	4.5	NE	2017-09-05	07:25	0.9	NE
2017-09-04	17:10	0.4	WSW	2017-09-05	00:20	0.9	E	2017-09-05	07:30	2.2	ENE
2017-09-04	17:15	0.4	WSW	2017-09-05	00:25	3.6	NE	2017-09-05	07:35	3.1	E
2017-09-04	17:20	2.7	NE	2017-09-05	00:30	3.6	E	2017-09-05	07:40	0.4	NE
2017-09-04	17:25	2.2	N	2017-09-05	00:35	1.8	ESE	2017-09-05	07:45	0.9	E
2017-09-04	17:30	2.2	WNW	2017-09-05	00:40	0.9	E	2017-09-05	07:50	3.1	E
2017-09-04	17:35	0.9	ENE	2017-09-05	00:45	2.7	E	2017-09-05	07:55	4	ENE
2017-09-04	17:40	1.8	ENE	2017-09-05	00:50	0.4	WNW	2017-09-05	08:00	0.9	E
2017-09-04	17:45	1.3	E	2017-09-05	00:55	3.6	ENE	2017-09-05	08:05	0.4	ENE
2017-09-04	17:50	4	NE	2017-09-05	01:00	4.5	ENE	2017-09-05	08:10	1.8	E
2017-09-04	17:55	1.3	N	2017-09-05	01:05	1.8	NNE	2017-09-05	08:15	0.9	E
2017-09-04	18:00	2.2	E	2017-09-05	01:10	4.5	NE	2017-09-05	08:20	1.8	ENE
2017-09-04	18:05	0.4	SW	2017-09-05	01:15	4.5	NE	2017-09-05	08:25	0.4	WNW
2017-09-04	18:10	0.9	WSW	2017-09-05	01:20	0.4	ENE	2017-09-05	08:30	3.1	E
2017-09-04	18:15	1.3	W	2017-09-05	01:25	0.4	NE	2017-09-05	08:35	1.8	NE
2017-09-04	18:20	2.7	ENE	2017-09-05	01:30	4.9	NE	2017-09-05	08:40	3.1	ENE
2017-09-04	18:25	0.4	NNW	2017-09-05	01:35	3.1	ENE	2017-09-05	08:45	4	E
2017-09-04	18:30	1.3	SW	2017-09-05	01:40	0.4	NE	2017-09-05	08:50	0.9	ENE
2017-09-04	18:35	2.2	WNW	2017-09-05	01:45	0.9	ENE	2017-09-05	08:55	2.2	NE
2017-09-04	18:40	2.2	NNE	2017-09-05	01:50	4	NE	2017-09-05	09:00	2.7	ENE
2017-09-04	18:45	4.5	NE	2017-09-05	01:55	2.7	E	2017-09-05	09:05	2.7	NE
2017-09-04	18:50	1.3	SW	2017-09-05	02:00	4.5	NNE	2017-09-05	09:10	4	NE
2017-09-04	18:55	4	NE	2017-09-05	02:05	4	ENE	2017-09-05	09:15	2.7	E
2017-09-04	19:00	4.5	ENE	2017-09-05	02:10	0.9	ENE	2017-09-05	09:20	2.2	ENE
2017-09-04	19:05	0.4	WSW	2017-09-05	02:15	3.6	ENE	2017-09-05	09:25	2.7	ENE
2017-09-04	19:10	1.8	E	2017-09-05	02:20	1.3	NW	2017-09-05	09:30	0.4	ENE
2017-09-04	19:15	1.8	W	2017-09-05	02:25	1.8	ENE	2017-09-05	09:35	1.3	NE
2017-09-04	19:20	2.7	NE	2017-09-05	02:30	3.1	ENE	2017-09-05	09:40	4	NE
2017-09-04	19:25	4.9	NE	2017-09-05	02:35	0.4	E	2017-09-05	09:45	2.7	NE
2017-09-04	19:30	1.3	NW	2017-09-05	02:40	2.2	E	2017-09-05	09:50	1.3	WNW
2017-09-04	19:35	2.2	WNW	2017-09-05	02:45	3.1	NE	2017-09-05	09:55	4	ENE
2017-09-04	19:40	1.8	E	2017-09-05	02:50	0.9	E	2017-09-05	10:00	0.4	ENE
2017-09-04	19:45	0.4	WNW	2017-09-05	02:55	0.9	NE	2017-09-05	10:05	4	NNE
2017-09-04	19:50	3.1	NE	2017-09-05	03:00	0.4	NE	2017-09-05	10:10	2.7	ENE
2017-09-04	19:55	0.9	N	2017-09-05	03:05	1.3	NE	2017-09-05	10:15	3.1	ENE
2017-09-04	20:00	0.4	NNE	2017-09-05	03:10	4.5	E	2017-09-05	10:20	4.5	NE
2017-09-04	20:05	0.9	ESE	2017-09-05	03:15	2.7	NE	2017-09-05	10:25	2.2	E
2017-09-04	20:10	1.8	NE	2017-09-05	03:20	2.7	ENE	2017-09-05	10:30	2.2	E
2017-09-04	20:15	1.3	WNW	2017-09-05	03:25	2.2	ENE	2017-09-05	10:35	0.9	E
2017-09-04	20:20	2.2	NE	2017-09-05	03:30	0.9	ENE	2017-09-05	10:40	0.4	E
2017-09-04	20:25	2.7	NE	2017-09-05	03:35	0.4	E	2017-09-05	10:45	3.1	ENE
2017-09-04	20:30	0.9	SSW	2017-09-05	03:40	0.9	E	2017-09-05	10:50	4.9	ENE
2017-09-04	20:35	0.4	SW	2017-09-05	03:45	3.6	NE	2017-09-05	10:55	0.4	ENE
2017-09-04	20:40	0.4	WSW	2017-09-05	03:50	4.5	ENE	2017-09-05	11:00	1.3	NE
2017-09-04	20:45	2.7	NE	2017-09-05	03:55	1.8	NNE	2017-09-05	11:05	4	NE
2017-09-04	20:50	0.4	WSW	2017-09-05	04:00	0.4	NE	2017-09-05	11:10	4	NE
2017-09-04	20:55	1.8	ENE	2017-09-05	04:05	1.8	NE	2017-09-05	11:15	0.4	E
2017-09-04	21:00	0.9	SSW	2017-09-05	04:10	4.9	ENE	2017-09-05	11:20	0.9	ENE
2017-09-04	21:05	1.3	E	2017-09-05	04:15	4.5	NE	2017-09-05	11:25	3.6	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-05	11:30	1.3	ENE	2017-09-05	18:40	3.1	ENE	2017-09-06	01:50	4.5	NE
2017-09-05	11:35	3.6	ENE	2017-09-05	18:45	4.5	ENE	2017-09-06	01:55	0.9	WNW
2017-09-05	11:40	0.9	E	2017-09-05	18:50	2.7	NE	2017-09-06	02:00	3.6	ENE
2017-09-05	11:45	3.6	ENE	2017-09-05	18:55	2.7	ENE	2017-09-06	02:05	6.3	ENE
2017-09-05	11:50	4	NE	2017-09-05	19:00	3.1	NE	2017-09-06	02:10	5.8	ENE
2017-09-05	11:55	1.8	NE	2017-09-05	19:05	0.9	N	2017-09-06	02:15	5.4	ENE
2017-09-05	12:00	2.2	NE	2017-09-05	19:10	4	NE	2017-09-06	02:20	2.2	NE
2017-09-05	12:05	3.6	NE	2017-09-05	19:15	4.5	E	2017-09-06	02:25	2.2	NE
2017-09-05	12:10	3.6	NE	2017-09-05	19:20	4.9	ENE	2017-09-06	02:30	0.9	W
2017-09-05	12:15	4	ENE	2017-09-05	19:25	3.6	NE	2017-09-06	02:35	4.9	NE
2017-09-05	12:20	3.6	NE	2017-09-05	19:30	4	ENE	2017-09-06	02:40	0.9	WNW
2017-09-05	12:25	0.9	NE	2017-09-05	19:35	1.8	ENE	2017-09-06	02:45	1.8	W
2017-09-05	12:30	0.4	ENE	2017-09-05	19:40	2.7	ENE	2017-09-06	02:50	4.5	NE
2017-09-05	12:35	4	ENE	2017-09-05	19:45	2.7	ENE	2017-09-06	02:55	2.2	ENE
2017-09-05	12:40	0.9	NE	2017-09-05	19:50	3.1	ENE	2017-09-06	03:00	2.7	WNW
2017-09-05	12:45	0.9	ENE	2017-09-05	19:55	0.9	ENE	2017-09-06	03:05	0.9	ENE
2017-09-05	12:50	2.2	ENE	2017-09-05	20:00	4.5	NE	2017-09-06	03:10	4	NE
2017-09-05	12:55	3.6	ENE	2017-09-05	20:05	2.7	NE	2017-09-06	03:15	1.8	ENE
2017-09-05	13:00	0.4	ENE	2017-09-05	20:10	4	E	2017-09-06	03:20	4.5	NE
2017-09-05	13:05	4	NE	2017-09-05	20:15	4	NE	2017-09-06	03:25	0.9	NNW
2017-09-05	13:10	2.7	ENE	2017-09-05	20:20	3.6	NE	2017-09-06	03:30	0.9	WNW
2017-09-05	13:15	4	ENE	2017-09-05	20:25	3.1	E	2017-09-06	03:35	3.6	NE
2017-09-05	13:20	3.6	NE	2017-09-05	20:30	0.4	ENE	2017-09-06	03:40	1.8	ENE
2017-09-05	13:25	3.6	ENE	2017-09-05	20:35	3.1	ENE	2017-09-06	03:45	2.2	NE
2017-09-05	13:30	1.8	ENE	2017-09-05	20:40	3.1	NE	2017-09-06	03:50	3.1	NE
2017-09-05	13:35	3.1	NE	2017-09-05	20:45	1.3	ENE	2017-09-06	03:55	3.1	E
2017-09-05	13:40	4.5	ENE	2017-09-05	20:50	0.4	NE	2017-09-06	04:00	2.7	E
2017-09-05	13:45	0.9	ENE	2017-09-05	20:55	3.6	NE	2017-09-06	04:05	4.9	ENE
2017-09-05	13:50	0.4	ENE	2017-09-05	21:00	0.9	E	2017-09-06	04:10	2.7	ENE
2017-09-05	13:55	0.9	ENE	2017-09-05	21:05	0.9	NW	2017-09-06	04:15	4.9	ENE
2017-09-05	14:00	2.7	ENE	2017-09-05	21:10	4	NE	2017-09-06	04:20	2.7	ENE
2017-09-05	14:05	3.6	ENE	2017-09-05	21:15	1.3	NW	2017-09-06	04:25	0.4	NW
2017-09-05	14:10	0.9	WNW	2017-09-05	21:20	2.7	NE	2017-09-06	04:30	2.7	ENE
2017-09-05	14:15	0.9	ENE	2017-09-05	21:25	0.4	ENE	2017-09-06	04:35	1.8	ENE
2017-09-05	14:20	3.1	E	2017-09-05	21:30	1.3	SSW	2017-09-06	04:40	1.3	NE
2017-09-05	14:25	0.9	ENE	2017-09-05	21:35	2.7	NE	2017-09-06	04:45	0.9	N
2017-09-05	14:30	1.8	E	2017-09-05	21:40	3.6	NE	2017-09-06	04:50	0.9	NNW
2017-09-05	14:35	0.9	E	2017-09-05	21:45	3.1	NE	2017-09-06	04:55	0.9	WSW
2017-09-05	14:40	4	ENE	2017-09-05	21:50	4.5	NE	2017-09-06	05:00	4	NE
2017-09-05	14:45	0.9	ENE	2017-09-05	21:55	0.9	E	2017-09-06	05:05	3.1	E
2017-09-05	14:50	4	ENE	2017-09-05	22:00	0.4	ENE	2017-09-06	05:10	4.9	NE
2017-09-05	14:55	3.1	ENE	2017-09-05	22:05	2.2	NE	2017-09-06	05:15	0.9	NE
2017-09-05	15:00	0.9	ENE	2017-09-05	22:10	0.4	ENE	2017-09-06	05:20	2.7	ENE
2017-09-05	15:05	0.4	ENE	2017-09-05	22:15	0.4	NE	2017-09-06	05:25	0.9	W
2017-09-05	15:10	0.4	ENE	2017-09-05	22:20	0.4	NE	2017-09-06	05:30	0.4	WSW
2017-09-05	15:15	2.2	NE	2017-09-05	22:25	3.1	E	2017-09-06	05:35	0.9	NNW
2017-09-05	15:20	3.1	NE	2017-09-05	22:30	1.3	NNW	2017-09-06	05:40	0.9	NNE
2017-09-05	15:25	3.1	ENE	2017-09-05	22:35	0.9	ENE	2017-09-06	05:45	6.3	ENE
2017-09-05	15:30	0.4	WNW	2017-09-05	22:40	0.4	ENE	2017-09-06	05:50	2.7	NE
2017-09-05	15:35	1.3	ENE	2017-09-05	22:45	4.9	ENE	2017-09-06	05:55	2.7	ENE
2017-09-05	15:40	3.1	E	2017-09-05	22:50	3.6	E	2017-09-06	06:00	2.7	ENE
2017-09-05	15:45	1.3	NNW	2017-09-05	22:55	4.5	NE	2017-09-06	06:05	6.3	NE
2017-09-05	15:50	0.9	ENE	2017-09-05	23:00	4.9	NE	2017-09-06	06:10	1.8	E
2017-09-05	15:55	0.4	ENE	2017-09-05	23:05	0.9	N	2017-09-06	06:15	3.6	ENE
2017-09-05	16:00	2.2	ENE	2017-09-05	23:10	1.3	NE	2017-09-06	06:20	0.9	N
2017-09-05	16:05	0.4	WNW	2017-09-05	23:15	2.7	NE	2017-09-06	06:25	0.9	NNW
2017-09-05	16:10	0.9	NE	2017-09-05	23:20	4.9	ENE	2017-09-06	06:30	1.3	WNW
2017-09-05	16:15	3.1	ENE	2017-09-05	23:25	1.8	E	2017-09-06	06:35	4	ENE
2017-09-05	16:20	4	NE	2017-09-05	23:30	3.6	E	2017-09-06	06:40	0.9	WNW
2017-09-05	16:25	1.3	NW	2017-09-05	23:35	0.4	ENE	2017-09-06	06:45	5.8	NE
2017-09-05	16:30	0.9	E	2017-09-05	23:40	1.3	ENE	2017-09-06	06:50	2.2	ENE
2017-09-05	16:35	0.9	E	2017-09-05	23:45	2.2	NE	2017-09-06	06:55	1.3	NNE
2017-09-05	16:40	3.6	NE	2017-09-05	23:50	4	ENE	2017-09-06	07:00	5.8	ENE
2017-09-05	16:45	0.9	NNW	2017-09-05	23:55	1.3	ENE	2017-09-06	07:05	5.4	ENE
2017-09-05	16:50	4.5	ENE	2017-09-06	00:00	2.2	W	2017-09-06	07:10	0.4	W
2017-09-05	16:55	0.9	NE	2017-09-06	00:05	0.9	W	2017-09-06	07:15	2.7	NE
2017-09-05	17:00	1.8	ENE	2017-09-06	00:10	2.2	NE	2017-09-06	07:20	6.3	NE
2017-09-05	17:05	2.7	E	2017-09-06	00:15	4	NE	2017-09-06	07:25	3.6	NE
2017-09-05	17:10	4.5	NE	2017-09-06	00:20	6.3	ENE	2017-09-06	07:30	1.8	NNE
2017-09-05	17:15	1.8	W	2017-09-06	00:25	4	NE	2017-09-06	07:35	1.3	W
2017-09-05	17:20	4	ENE	2017-09-06	00:30	4.5	NE	2017-09-06	07:40	3.6	NE
2017-09-05	17:25	1.8	NNE	2017-09-06	00:35	4	NE	2017-09-06	07:45	4	NE
2017-09-05	17:30	4	ENE	2017-09-06	00:40	4.9	ENE	2017-09-06	07:50	0.9	NNW
2017-09-05	17:35	0.4	NE	2017-09-06	00:45	5.8	NE	2017-09-06	07:55	5.8	ENE
2017-09-05	17:40	0.4	ENE	2017-09-06	00:50	4.9	ENE	2017-09-06	08:00	3.6	NE
2017-09-05	17:45	0.4	ENE	2017-09-06	00:55	0.9	NNW	2017-09-06	08:05	2.7	ENE
2017-09-05	17:50	0.9	E	2017-09-06	01:00	0.4	WSW	2017-09-06	08:10	0.9	NNW
2017-09-05	17:55	4	NE	2017-09-06	01:05	6.3	NE	2017-09-06	08:15	0.9	NW
2017-09-05	18:00	0.4	NE	2017-09-06	01:10	2.7	NE	2017-09-06	08:20	0.9	NW
2017-09-05	18:05	0.4	ENE	2017-09-06	01:15	5.4	ENE	2017-09-06	08:25	6.3	E
2017-09-05	18:10	1.8	NNW	2017-09-06	01:20	5.4	NE	2017-09-06	08:30	1.8	NNE
2017-09-05	18:15	2.2	ENE	2017-09-06	01:25	6.3	NE	2017-09-06	08:35	0.4	N
2017-09-05	18:20	0.4	ENE	2017-09-06	01:30	4	ENE	2017-09-06	08:40	5.4	ENE
2017-09-05	18:25	4	ENE	2017-09-06	01:35	2.2	E	2017-09-06	08:45	3.6	ENE
2017-09-05	18:30	0.4	ENE	2017-09-06	01:40	0.9	ENE	2017-09-06	08:50	4.5	NE
2017-09-05	18:35	0.9	NNE	2017-09-06	01:45	3.6	NE	2017-09-06	08:55	2.7	NE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-06	09:00	0.9	ESE	2017-09-06	16:10	2.7	ENE	2017-09-06	23:20	1.8	ESE
2017-09-06	09:05	6.3	ENE	2017-09-06	16:15	0.9	NNW	2017-09-06	23:25	4	ENE
2017-09-06	09:10	6.3	ENE	2017-09-06	16:20	1.8	NNE	2017-09-06	23:30	0.9	N
2017-09-06	09:15	4.9	NE	2017-09-06	16:25	5.4	ENE	2017-09-06	23:35	4	NE
2017-09-06	09:20	4	E	2017-09-06	16:30	0.9	NNW	2017-09-06	23:40	0.4	NW
2017-09-06	09:25	0.9	WNW	2017-09-06	16:35	4.5	ENE	2017-09-06	23:45	2.7	NE
2017-09-06	09:30	1.8	NE	2017-09-06	16:40	1.3	W	2017-09-06	23:50	2.7	ENE
2017-09-06	09:35	1.8	ENE	2017-09-06	16:45	4.5	NE	2017-09-06	23:55	6.3	ENE
2017-09-06	09:40	1.8	W	2017-09-06	16:50	3.1	E	2017-09-07	00:00	3.6	NE
2017-09-06	09:45	6.3	ENE	2017-09-06	16:55	0.9	NNW	2017-09-07	00:05	0.9	NNE
2017-09-06	09:50	2.7	ENE	2017-09-06	17:00	1.8	W	2017-09-07	00:10	0.9	E
2017-09-06	09:55	0.4	N	2017-09-06	17:05	2.2	ENE	2017-09-07	00:15	0.9	NNW
2017-09-06	10:00	4	NE	2017-09-06	17:10	1.8	NNE	2017-09-07	00:20	3.1	NE
2017-09-06	10:05	0.9	N	2017-09-06	17:15	2.7	E	2017-09-07	00:25	0.9	S
2017-09-06	10:10	1.8	ENE	2017-09-06	17:20	2.7	E	2017-09-07	00:30	3.1	NE
2017-09-06	10:15	1.8	NNE	2017-09-06	17:25	6.3	NE	2017-09-07	00:35	1.8	NE
2017-09-06	10:20	5.4	NE	2017-09-06	17:30	2.7	ENE	2017-09-07	00:40	0.9	W
2017-09-06	10:25	0.4	WSW	2017-09-06	17:35	3.6	ENE	2017-09-07	00:45	4	E
2017-09-06	10:30	2.2	E	2017-09-06	17:40	4	ENE	2017-09-07	00:50	3.1	NE
2017-09-06	10:35	4	NE	2017-09-06	17:45	1.8	E	2017-09-07	00:55	1.8	NE
2017-09-06	10:40	2.7	ENE	2017-09-06	17:50	5.4	ENE	2017-09-07	01:00	4.5	NE
2017-09-06	10:45	0.9	WNW	2017-09-06	17:55	4.9	NE	2017-09-07	01:05	0.4	SSW
2017-09-06	10:50	6.3	NE	2017-09-06	18:00	0.9	WSW	2017-09-07	01:10	3.6	ENE
2017-09-06	10:55	1.8	NNE	2017-09-06	18:05	4	NE	2017-09-07	01:15	3.1	E
2017-09-06	11:00	4	NE	2017-09-06	18:10	3.1	E	2017-09-07	01:20	0.9	S
2017-09-06	11:05	2.7	ENE	2017-09-06	18:15	2.2	ENE	2017-09-07	01:25	0.9	NNW
2017-09-06	11:10	1.8	ENE	2017-09-06	18:20	2.7	ENE	2017-09-07	01:30	4.9	NE
2017-09-06	11:15	2.7	NE	2017-09-06	18:25	1.3	W	2017-09-07	01:35	1.8	NE
2017-09-06	11:20	1.8	NNE	2017-09-06	18:30	4	E	2017-09-07	01:40	3.1	NE
2017-09-06	11:25	0.9	NNE	2017-09-06	18:35	0.9	N	2017-09-07	01:45	1.3	WSW
2017-09-06	11:30	5.4	NE	2017-09-06	18:40	2.2	ENE	2017-09-07	01:50	0.9	N
2017-09-06	11:35	5.4	ENE	2017-09-06	18:45	2.7	E	2017-09-07	01:55	0.9	N
2017-09-06	11:40	5.4	ENE	2017-09-06	18:50	6.7	NE	2017-09-07	02:00	0.9	W
2017-09-06	11:45	2.7	ENE	2017-09-06	18:55	0.9	W	2017-09-07	02:05	0.9	NNE
2017-09-06	11:50	6.3	ENE	2017-09-06	19:00	1.8	ENE	2017-09-07	02:10	0.9	E
2017-09-06	11:55	4.9	ENE	2017-09-06	19:05	2.2	NE	2017-09-07	02:15	0.4	WSW
2017-09-06	12:00	5.8	NE	2017-09-06	19:10	1.8	ENE	2017-09-07	02:20	0.9	N
2017-09-06	12:05	3.6	NE	2017-09-06	19:15	2.7	WNW	2017-09-07	02:25	2.7	NE
2017-09-06	12:10	0.9	WNW	2017-09-06	19:20	5.8	NE	2017-09-07	02:30	0.4	WSW
2017-09-06	12:15	4.5	NE	2017-09-06	19:25	0.9	WNW	2017-09-07	02:35	3.1	E
2017-09-06	12:20	1.8	ENE	2017-09-06	19:30	4	ENE	2017-09-07	02:40	0.9	ENE
2017-09-06	12:25	4.5	NE	2017-09-06	19:35	1.8	W	2017-09-07	02:45	0.9	W
2017-09-06	12:30	1.8	WNW	2017-09-06	19:40	1.8	NNE	2017-09-07	02:50	0.9	SW
2017-09-06	12:35	0.9	NNW	2017-09-06	19:45	6.3	ENE	2017-09-07	02:55	4.5	NE
2017-09-06	12:40	3.1	ENE	2017-09-06	19:50	2.2	NE	2017-09-07	03:00	0.4	SSW
2017-09-06	12:45	0.9	WSW	2017-09-06	19:55	4.9	ENE	2017-09-07	03:05	1.3	N
2017-09-06	12:50	0.4	WSW	2017-09-06	20:00	3.1	ENE	2017-09-07	03:10	0.9	NNW
2017-09-06	12:55	0.4	NNE	2017-09-06	20:05	4.5	NE	2017-09-07	03:15	0.4	SW
2017-09-06	13:00	2.7	ENE	2017-09-06	20:10	5.4	ENE	2017-09-07	03:20	1.3	NE
2017-09-06	13:05	2.7	NE	2017-09-06	20:15	4	NE	2017-09-07	03:25	1.8	NE
2017-09-06	13:10	0.9	WNW	2017-09-06	20:20	3.1	E	2017-09-07	03:30	0.4	SW
2017-09-06	13:15	0.9	N	2017-09-06	20:25	2.2	E	2017-09-07	03:35	0.9	SW
2017-09-06	13:20	4	NE	2017-09-06	20:30	6.3	ENE	2017-09-07	03:40	0.4	SW
2017-09-06	13:25	4	NE	2017-09-06	20:35	2.7	E	2017-09-07	03:45	0.9	ENE
2017-09-06	13:30	6.7	ENE	2017-09-06	20:40	5.4	NE	2017-09-07	03:50	1.8	NE
2017-09-06	13:35	0.4	WSW	2017-09-06	20:45	0.9	NNE	2017-09-07	03:55	0.9	N
2017-09-06	13:40	0.9	WSW	2017-09-06	20:50	3.6	NE	2017-09-07	04:00	2.2	NE
2017-09-06	13:45	1.8	NNE	2017-09-06	20:55	4	ENE	2017-09-07	04:05	1.8	NE
2017-09-06	13:50	4	ENE	2017-09-06	21:00	3.1	NE	2017-09-07	04:10	0.4	WSW
2017-09-06	13:55	6.3	E	2017-09-06	21:05	4	NE	2017-09-07	04:15	0.4	SW
2017-09-06	14:00	2.2	ENE	2017-09-06	21:10	1.3	NNE	2017-09-07	04:20	1.3	ENE
2017-09-06	14:05	4	NE	2017-09-06	21:15	4.9	ENE	2017-09-07	04:25	2.2	NE
2017-09-06	14:10	2.7	ENE	2017-09-06	21:20	3.6	NE	2017-09-07	04:30	1.3	ENE
2017-09-06	14:15	0.9	NW	2017-09-06	21:25	2.7	ENE	2017-09-07	04:35	0.4	SW
2017-09-06	14:20	0.9	WNW	2017-09-06	21:30	1.8	ENE	2017-09-07	04:40	1.8	NE
2017-09-06	14:25	1.3	NNW	2017-09-06	21:35	4	NE	2017-09-07	04:45	0.9	SW
2017-09-06	14:30	5.8	ENE	2017-09-06	21:40	3.1	NE	2017-09-07	04:50	1.8	NE
2017-09-06	14:35	1.8	NNE	2017-09-06	21:45	4.9	ENE	2017-09-07	04:55	0.4	W
2017-09-06	14:40	4.9	NE	2017-09-06	21:50	0.9	NNW	2017-09-07	05:00	2.2	NE
2017-09-06	14:45	6.3	E	2017-09-06	21:55	0.4	NNE	2017-09-07	05:05	1.8	NE
2017-09-06	14:50	0.9	N	2017-09-06	22:00	3.1	ENE	2017-09-07	05:10	0.9	SW
2017-09-06	14:55	4	ENE	2017-09-06	22:05	6.3	ENE	2017-09-07	05:15	0.9	NE
2017-09-06	15:00	2.7	NE	2017-09-06	22:10	6.7	ENE	2017-09-07	05:20	1.8	NE
2017-09-06	15:05	3.1	NE	2017-09-06	22:15	4.9	ENE	2017-09-07	05:25	4.5	NE
2017-09-06	15:10	0.9	NNW	2017-09-06	22:20	4	ENE	2017-09-07	05:30	3.1	E
2017-09-06	15:15	1.8	ENE	2017-09-06	22:25	2.7	ENE	2017-09-07	05:35	1.3	N
2017-09-06	15:20	3.6	NE	2017-09-06	22:30	2.7	ENE	2017-09-07	05:40	0.9	W
2017-09-06	15:25	2.2	NE	2017-09-06	22:35	5.4	NE	2017-09-07	05:45	3.6	ENE
2017-09-06	15:30	5.8	NE	2017-09-06	22:40	3.6	NE	2017-09-07	05:50	2.2	NE
2017-09-06	15:35	4	NE	2017-09-06	22:45	6.7	ENE	2017-09-07	05:55	1.8	NE
2017-09-06	15:40	4.5	ENE	2017-09-06	22:50	5.4	ENE	2017-09-07	06:00	0.9	NNW
2017-09-06	15:45	1.8	WNW	2017-09-06	22:55	5.4	NE	2017-09-07	06:05	4.5	NE
2017-09-06	15:50	0.4	W	2017-09-06	23:00	2.7	ENE	2017-09-07	06:10	0.4	SW
2017-09-06	15:55	2.7	NE	2017-09-06	23:05	3.6	NE	2017-09-07	06:15	0.4	WSW
2017-09-06	16:00	0.4	W	2017-09-06	23:10	4	NE	2017-09-07	06:20	1.8	NE
2017-09-06	16:05	2.7	NE	2017-09-06	23:15	0.9	NNW	2017-09-07	06:25	0.9	NNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-07	06:30	4	ENE	2017-09-07	13:40	4.5	NE	2017-09-07	20:50	2.2	NNE
2017-09-07	06:35	0.4	SW	2017-09-07	13:45	1.3	NE	2017-09-07	20:55	2.2	NE
2017-09-07	06:40	0.9	N	2017-09-07	13:50	0.9	NNW	2017-09-07	21:00	0.4	SW
2017-09-07	06:45	0.9	SSW	2017-09-07	13:55	1.8	NE	2017-09-07	21:05	2.7	NE
2017-09-07	06:50	2.7	NE	2017-09-07	14:00	0.4	WSW	2017-09-07	21:10	1.8	NE
2017-09-07	06:55	0.4	SSW	2017-09-07	14:05	0.4	S	2017-09-07	21:15	0.9	N
2017-09-07	07:00	1.8	NE	2017-09-07	14:10	0.4	SSW	2017-09-07	21:20	2.2	NE
2017-09-07	07:05	0.4	ENE	2017-09-07	14:15	4.5	NE	2017-09-07	21:25	0.9	SW
2017-09-07	07:10	0.4	SW	2017-09-07	14:20	0.4	S	2017-09-07	21:30	1.8	NE
2017-09-07	07:15	3.1	NE	2017-09-07	14:25	4.5	NE	2017-09-07	21:35	1.3	WSW
2017-09-07	07:20	0.9	NNE	2017-09-07	14:30	0.4	W	2017-09-07	21:40	0.9	SW
2017-09-07	07:25	0.9	NNW	2017-09-07	14:35	1.8	NE	2017-09-07	21:45	1.8	NE
2017-09-07	07:30	0.9	NNW	2017-09-07	14:40	4	NE	2017-09-07	21:50	0.9	W
2017-09-07	07:35	0.9	NNW	2017-09-07	14:45	0.4	SW	2017-09-07	21:55	1.8	NE
2017-09-07	07:40	1.8	NE	2017-09-07	14:50	0.4	SSW	2017-09-07	22:00	0.4	ENE
2017-09-07	07:45	1.3	NE	2017-09-07	14:55	0.9	S	2017-09-07	22:05	4	NE
2017-09-07	07:50	1.8	NE	2017-09-07	15:00	1.8	NE	2017-09-07	22:10	0.4	NE
2017-09-07	07:55	0.9	S	2017-09-07	15:05	4.5	NE	2017-09-07	22:15	1.8	NE
2017-09-07	08:00	3.6	NE	2017-09-07	15:10	0.9	N	2017-09-07	22:20	0.9	S
2017-09-07	08:05	0.9	NNW	2017-09-07	15:15	1.8	NNE	2017-09-07	22:25	0.9	SW
2017-09-07	08:10	0.4	WSW	2017-09-07	15:20	3.1	NE	2017-09-07	22:30	0.9	SW
2017-09-07	08:15	0.9	S	2017-09-07	15:25	0.4	WSW	2017-09-07	22:35	0.9	N
2017-09-07	08:20	0.9	SW	2017-09-07	15:30	0.4	NE	2017-09-07	22:40	0.4	SW
2017-09-07	08:25	0.4	SW	2017-09-07	15:35	0.9	SW	2017-09-07	22:45	0.9	NNE
2017-09-07	08:30	1.3	NE	2017-09-07	15:40	2.2	NE	2017-09-07	22:50	1.3	NNE
2017-09-07	08:35	0.9	N	2017-09-07	15:45	1.8	ENE	2017-09-07	22:55	2.2	NE
2017-09-07	08:40	3.6	NE	2017-09-07	15:50	3.1	NE	2017-09-07	23:00	0.9	N
2017-09-07	08:45	1.8	NE	2017-09-07	15:55	4	NE	2017-09-07	23:05	0.9	WSW
2017-09-07	08:50	2.7	NE	2017-09-07	16:00	3.6	NE	2017-09-07	23:10	0.9	W
2017-09-07	08:55	0.4	WSW	2017-09-07	16:05	0.4	SW	2017-09-07	23:15	1.8	NE
2017-09-07	09:00	0.4	S	2017-09-07	16:10	0.9	W	2017-09-07	23:20	0.4	WSW
2017-09-07	09:05	0.9	NNE	2017-09-07	16:15	0.9	N	2017-09-07	23:25	0.4	S
2017-09-07	09:10	2.7	E	2017-09-07	16:20	0.9	N	2017-09-07	23:30	4	NE
2017-09-07	09:15	1.8	NE	2017-09-07	16:25	0.4	WSW	2017-09-07	23:35	0.9	W
2017-09-07	09:20	4.5	E	2017-09-07	16:30	0.4	WSW	2017-09-07	23:40	0.9	SW
2017-09-07	09:25	4.5	NE	2017-09-07	16:35	0.9	WSW	2017-09-07	23:45	0.9	SW
2017-09-07	09:30	2.7	ENE	2017-09-07	16:40	4	NE	2017-09-07	23:50	4.5	NE
2017-09-07	09:35	1.8	NE	2017-09-07	16:45	0.4	SSW	2017-09-07	23:55	1.3	NNE
2017-09-07	09:40	3.6	NE	2017-09-07	16:50	1.8	NE	2017-09-08	00:00	0.9	SW
2017-09-07	09:45	0.4	W	2017-09-07	16:55	3.1	E	2017-09-08	00:05	1.8	NW
2017-09-07	09:50	0.9	SW	2017-09-07	17:00	3.6	E	2017-09-08	00:10	4.9	W
2017-09-07	09:55	2.2	NE	2017-09-07	17:05	0.4	S	2017-09-08	00:15	4.9	W
2017-09-07	10:00	0.4	WSW	2017-09-07	17:10	1.8	NE	2017-09-08	00:20	4	WNW
2017-09-07	10:05	1.8	NE	2017-09-07	17:15	2.7	NE	2017-09-08	00:25	5.8	W
2017-09-07	10:10	3.1	NE	2017-09-07	17:20	0.9	WSW	2017-09-08	00:30	2.2	N
2017-09-07	10:15	3.6	NE	2017-09-07	17:25	0.9	NNW	2017-09-08	00:35	2.7	W
2017-09-07	10:20	2.7	NE	2017-09-07	17:30	0.9	ENE	2017-09-08	00:40	2.7	WNW
2017-09-07	10:25	3.6	NE	2017-09-07	17:35	4	NE	2017-09-08	00:45	2.2	N
2017-09-07	10:30	1.8	NNE	2017-09-07	17:40	2.2	NE	2017-09-08	00:50	2.2	N
2017-09-07	10:35	0.9	S	2017-09-07	17:45	0.4	WSW	2017-09-08	00:55	1.8	N
2017-09-07	10:40	0.9	NNW	2017-09-07	17:50	1.3	NNE	2017-09-08	01:00	1.8	NW
2017-09-07	10:45	2.7	ENE	2017-09-07	17:55	0.9	E	2017-09-08	01:05	4.5	W
2017-09-07	10:50	1.3	NE	2017-09-07	18:00	4	ENE	2017-09-08	01:10	1.8	N
2017-09-07	10:55	0.9	SW	2017-09-07	18:05	0.4	SSW	2017-09-08	01:15	4.9	W
2017-09-07	11:00	0.4	NNE	2017-09-07	18:10	0.4	SW	2017-09-08	01:20	1.8	NE
2017-09-07	11:05	3.1	NE	2017-09-07	18:15	1.8	NE	2017-09-08	01:25	1.8	NNW
2017-09-07	11:10	0.9	NNE	2017-09-07	18:20	0.9	SW	2017-09-08	01:30	1.3	NW
2017-09-07	11:15	1.3	NE	2017-09-07	18:25	0.9	E	2017-09-08	01:35	3.1	W
2017-09-07	11:20	0.9	NNW	2017-09-07	18:30	4	NE	2017-09-08	01:40	1.3	NW
2017-09-07	11:25	3.6	NE	2017-09-07	18:35	0.4	WSW	2017-09-08	01:45	2.2	NNE
2017-09-07	11:30	0.9	S	2017-09-07	18:40	1.8	NE	2017-09-08	01:50	2.2	NW
2017-09-07	11:35	1.8	NE	2017-09-07	18:45	0.9	SW	2017-09-08	01:55	1.8	NW
2017-09-07	11:40	4.9	NE	2017-09-07	18:50	3.6	ENE	2017-09-08	02:00	3.6	W
2017-09-07	11:45	4	NE	2017-09-07	18:55	0.9	N	2017-09-08	02:05	2.2	NW
2017-09-07	11:50	0.4	S	2017-09-07	19:00	4.5	NE	2017-09-08	02:10	2.7	N
2017-09-07	11:55	2.7	E	2017-09-07	19:05	1.3	ENE	2017-09-08	02:15	3.1	WNW
2017-09-07	12:00	0.9	NNW	2017-09-07	19:10	4	NE	2017-09-08	02:20	2.7	WNW
2017-09-07	12:05	1.8	NE	2017-09-07	19:15	3.1	NE	2017-09-08	02:25	4	W
2017-09-07	12:10	0.9	N	2017-09-07	19:20	2.7	ENE	2017-09-08	02:30	1.8	NE
2017-09-07	12:15	4	NE	2017-09-07	19:25	4.9	NE	2017-09-08	02:35	4.5	W
2017-09-07	12:20	1.8	NE	2017-09-07	19:30	0.4	S	2017-09-08	02:40	1.8	NW
2017-09-07	12:25	1.8	NE	2017-09-07	19:35	0.9	NNE	2017-09-08	02:45	4.5	W
2017-09-07	12:30	0.4	SW	2017-09-07	19:40	4	NE	2017-09-08	02:50	4	W
2017-09-07	12:35	2.7	ENE	2017-09-07	19:45	0.9	NNE	2017-09-08	02:55	3.6	W
2017-09-07	12:40	4	NE	2017-09-07	19:50	1.3	NNE	2017-09-08	03:00	1.8	NNE
2017-09-07	12:45	0.4	WSW	2017-09-07	19:55	3.6	NE	2017-09-08	03:05	4.9	W
2017-09-07	12:50	0.9	NNE	2017-09-07	20:00	4	NE	2017-09-08	03:10	1.3	N
2017-09-07	12:55	4	ENE	2017-09-07	20:05	2.7	NE	2017-09-08	03:15	4.5	WNW
2017-09-07	13:00	1.3	WSW	2017-09-07	20:10	1.3	NE	2017-09-08	03:20	3.6	W
2017-09-07	13:05	0.9	N	2017-09-07	20:15	3.6	NE	2017-09-08	03:25	4.5	W
2017-09-07	13:10	1.8	NE	2017-09-07	20:20	3.1	E	2017-09-08	03:30	2.2	NE
2017-09-07	13:15	0.9	SW	2017-09-07	20:25	3.1	NE	2017-09-08	03:35	3.1	WNW
2017-09-07	13:20	3.6	NE	2017-09-07	20:30	0.9	SW	2017-09-08	03:40	1.8	NNE
2017-09-07	13:25	4.5	NE	2017-09-07	20:35	1.3	NNE	2017-09-08	03:45	3.6	W
2017-09-07	13:30	0.9	SW	2017-09-07	20:40	0.9	NE	2017-09-08	03:50	1.8	NW
2017-09-07	13:35	4.9	NE	2017-09-07	20:45	0.9	E	2017-09-08	03:55	3.1	NNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-08	04:00	1.8	WNW	2017-09-08	11:10	1.8	N	2017-09-08	18:20	2.2	NNW
2017-09-08	04:05	4	W	2017-09-08	11:15	5.4	WNW	2017-09-08	18:25	1.8	NW
2017-09-08	04:10	4.9	W	2017-09-08	11:20	2.2	NNW	2017-09-08	18:30	1.8	NW
2017-09-08	04:15	2.2	NW	2017-09-08	11:25	2.2	NW	2017-09-08	18:35	1.8	N
2017-09-08	04:20	1.8	NW	2017-09-08	11:30	1.8	NE	2017-09-08	18:40	2.2	NW
2017-09-08	04:25	1.3	NW	2017-09-08	11:35	2.7	WNW	2017-09-08	18:45	4.5	W
2017-09-08	04:30	1.8	NNW	2017-09-08	11:40	1.3	NNE	2017-09-08	18:50	1.3	N
2017-09-08	04:35	2.7	N	2017-09-08	11:45	3.6	W	2017-09-08	18:55	3.6	WNW
2017-09-08	04:40	4	W	2017-09-08	11:50	1.8	NW	2017-09-08	19:00	3.1	WNW
2017-09-08	04:45	2.7	NNE	2017-09-08	11:55	2.2	NNW	2017-09-08	19:05	1.8	N
2017-09-08	04:50	3.6	W	2017-09-08	12:00	2.2	NW	2017-09-08	19:10	2.2	WNW
2017-09-08	04:55	1.3	NNW	2017-09-08	12:05	2.2	NW	2017-09-08	19:15	1.8	NW
2017-09-08	05:00	2.2	NW	2017-09-08	12:10	2.2	WNW	2017-09-08	19:20	3.6	W
2017-09-08	05:05	4.5	W	2017-09-08	12:15	1.8	NW	2017-09-08	19:25	2.7	N
2017-09-08	05:10	2.7	NW	2017-09-08	12:20	1.8	NNW	2017-09-08	19:30	3.6	W
2017-09-08	05:15	2.7	NW	2017-09-08	12:25	3.1	W	2017-09-08	19:35	4	W
2017-09-08	05:20	2.2	NE	2017-09-08	12:30	1.8	NNE	2017-09-08	19:40	4.9	W
2017-09-08	05:25	4	W	2017-09-08	12:35	2.7	N	2017-09-08	19:45	1.8	NW
2017-09-08	05:30	4	WNW	2017-09-08	12:40	1.8	NW	2017-09-08	19:50	1.3	NNE
2017-09-08	05:35	1.8	NW	2017-09-08	12:45	1.3	NNW	2017-09-08	19:55	2.2	NW
2017-09-08	05:40	1.8	N	2017-09-08	12:50	1.3	NNW	2017-09-08	20:00	1.8	NE
2017-09-08	05:45	2.2	N	2017-09-08	12:55	2.7	NW	2017-09-08	20:05	1.8	NNW
2017-09-08	05:50	4	W	2017-09-08	13:00	1.8	ENE	2017-09-08	20:10	1.3	NNE
2017-09-08	05:55	4.5	W	2017-09-08	13:05	4.5	WNW	2017-09-08	20:15	2.7	NW
2017-09-08	06:00	1.3	NW	2017-09-08	13:10	1.8	N	2017-09-08	20:20	1.8	NNW
2017-09-08	06:05	1.8	NNE	2017-09-08	13:15	2.2	NNW	2017-09-08	20:25	1.8	NW
2017-09-08	06:10	2.7	W	2017-09-08	13:20	1.8	NNW	2017-09-08	20:30	2.7	NNE
2017-09-08	06:15	1.8	NW	2017-09-08	13:25	1.8	NW	2017-09-08	20:35	1.8	NNE
2017-09-08	06:20	5.4	W	2017-09-08	13:30	2.2	NNE	2017-09-08	20:40	2.2	NW
2017-09-08	06:25	2.2	NNW	2017-09-08	13:35	4.5	WNW	2017-09-08	20:45	4	WNW
2017-09-08	06:30	1.8	ENE	2017-09-08	13:40	2.2	NW	2017-09-08	20:50	1.8	N
2017-09-08	06:35	1.3	NNW	2017-09-08	13:45	3.6	W	2017-09-08	20:55	1.8	NW
2017-09-08	06:40	1.3	N	2017-09-08	13:50	2.2	NNW	2017-09-08	21:00	1.8	NNW
2017-09-08	06:45	1.8	NW	2017-09-08	13:55	1.8	NW	2017-09-08	21:05	1.8	NE
2017-09-08	06:50	4	WNW	2017-09-08	14:00	1.8	NNE	2017-09-08	21:10	1.8	NW
2017-09-08	06:55	1.8	NW	2017-09-08	14:05	1.8	N	2017-09-08	21:15	1.3	NNE
2017-09-08	07:00	1.8	NNW	2017-09-08	14:10	4.9	W	2017-09-08	21:20	3.6	W
2017-09-08	07:05	1.8	N	2017-09-08	14:15	5.4	W	2017-09-08	21:25	1.3	NW
2017-09-08	07:10	1.8	NW	2017-09-08	14:20	3.6	WNW	2017-09-08	21:30	3.6	W
2017-09-08	07:15	1.8	NW	2017-09-08	14:25	3.1	WNW	2017-09-08	21:35	3.1	W
2017-09-08	07:20	1.8	NW	2017-09-08	14:30	2.2	W	2017-09-08	21:40	1.3	NW
2017-09-08	07:25	2.2	NW	2017-09-08	14:35	1.8	NW	2017-09-08	21:45	4.9	W
2017-09-08	07:30	1.8	NW	2017-09-08	14:40	1.8	NE	2017-09-08	21:50	2.7	NNW
2017-09-08	07:35	0.9	NNE	2017-09-08	14:45	1.3	NNW	2017-09-08	21:55	3.6	W
2017-09-08	07:40	2.2	NW	2017-09-08	14:50	4.5	WNW	2017-09-08	22:00	2.2	N
2017-09-08	07:45	2.7	NW	2017-09-08	14:55	2.2	NW	2017-09-08	22:05	2.2	NW
2017-09-08	07:50	0.9	NW	2017-09-08	15:00	5.4	WNW	2017-09-08	22:10	2.7	WNW
2017-09-08	07:55	1.3	N	2017-09-08	15:05	3.6	W	2017-09-08	22:15	2.2	NW
2017-09-08	08:00	2.7	W	2017-09-08	15:10	4	W	2017-09-08	22:20	4	W
2017-09-08	08:05	1.3	NW	2017-09-08	15:15	2.2	NNW	2017-09-08	22:25	4	W
2017-09-08	08:10	1.8	NNW	2017-09-08	15:20	1.8	NW	2017-09-08	22:30	1.8	NW
2017-09-08	08:15	4.5	W	2017-09-08	15:25	4.9	W	2017-09-08	22:35	3.1	W
2017-09-08	08:20	3.1	WNW	2017-09-08	15:30	1.3	NW	2017-09-08	22:40	4	WNW
2017-09-08	08:25	1.8	N	2017-09-08	15:35	2.2	N	2017-09-08	22:45	2.2	W
2017-09-08	08:30	2.2	NNW	2017-09-08	15:40	1.8	NW	2017-09-08	22:50	2.2	NW
2017-09-08	08:35	2.2	NW	2017-09-08	15:45	4.5	W	2017-09-08	22:55	1.8	NNW
2017-09-08	08:40	2.2	N	2017-09-08	15:50	1.3	NNW	2017-09-08	23:00	2.2	NW
2017-09-08	08:45	2.2	N	2017-09-08	15:55	2.2	WNW	2017-09-08	23:05	4.5	W
2017-09-08	08:50	2.2	NW	2017-09-08	16:00	3.1	WNW	2017-09-08	23:10	2.7	N
2017-09-08	08:55	2.2	NW	2017-09-08	16:05	4.5	W	2017-09-08	23:15	5.4	W
2017-09-08	09:00	4	WNW	2017-09-08	16:10	2.2	N	2017-09-08	23:20	2.2	NW
2017-09-08	09:05	4	WNW	2017-09-08	16:15	4.9	W	2017-09-08	23:25	2.2	NNW
2017-09-08	09:10	4.5	W	2017-09-08	16:20	4	W	2017-09-08	23:30	2.2	NNE
2017-09-08	09:15	2.2	NNW	2017-09-08	16:25	1.8	N	2017-09-08	23:35	5.4	W
2017-09-08	09:20	2.2	N	2017-09-08	16:30	2.2	NNW	2017-09-08	23:40	4	WNW
2017-09-08	09:25	2.2	NW	2017-09-08	16:35	4	W	2017-09-08	23:45	2.7	NW
2017-09-08	09:30	4.9	WNW	2017-09-08	16:40	2.7	N	2017-09-08	23:50	4.9	W
2017-09-08	09:35	1.8	NW	2017-09-08	16:45	1.8	NNW	2017-09-08	23:55	4.5	W
2017-09-08	09:40	4	W	2017-09-08	16:50	1.3	NNE	2017-09-09	00:00	2.2	NW
2017-09-08	09:45	4.5	WNW	2017-09-08	16:55	1.3	N	2017-09-09	00:05	1.3	SSW
2017-09-08	09:50	1.3	NW	2017-09-08	17:00	2.2	N	2017-09-09	00:10	1.3	NW
2017-09-08	09:55	2.2	NW	2017-09-08	17:05	4.5	W	2017-09-09	00:15	6.7	WNW
2017-09-08	10:00	2.2	W	2017-09-08	17:10	2.2	N	2017-09-09	00:20	1.8	NNW
2017-09-08	10:05	1.8	NW	2017-09-08	17:15	1.8	NNW	2017-09-09	00:25	4.5	WNW
2017-09-08	10:10	3.6	W	2017-09-08	17:20	1.3	N	2017-09-09	00:30	1.8	NNW
2017-09-08	10:15	1.8	NNE	2017-09-08	17:25	1.8	NW	2017-09-09	00:35	0.9	NW
2017-09-08	10:20	2.2	NW	2017-09-08	17:30	1.8	NW	2017-09-09	00:40	1.8	WSW
2017-09-08	10:25	2.2	NW	2017-09-08	17:35	1.8	NW	2017-09-09	00:45	4	W
2017-09-08	10:30	2.2	NW	2017-09-08	17:40	2.7	NNW	2017-09-09	00:50	2.7	NW
2017-09-08	10:35	4.9	WNW	2017-09-08	17:45	4.5	WNW	2017-09-09	00:55	3.6	W
2017-09-08	10:40	1.8	NW	2017-09-08	17:50	3.6	N	2017-09-09	01:00	5.8	WNW
2017-09-08	10:45	3.1	N	2017-09-08	17:55	2.2	NW	2017-09-09	01:05	2.2	SW
2017-09-08	10:50	2.2	NW	2017-09-08	18:00	2.7	NW	2017-09-09	01:10	2.2	NW
2017-09-08	10:55	2.2	NNE	2017-09-08	18:05	2.2	N	2017-09-09	01:15	1.3	N
2017-09-08	11:00	2.2	WNW	2017-09-08	18:10	2.2	NW	2017-09-09	01:20	1.3	NNW
2017-09-08	11:05	2.2	NW	2017-09-08	18:15	3.1	WNW	2017-09-09	01:25	4.5	WSW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-09	01:30	1.8	NNW	2017-09-09	08:40	0.4	WSW	2017-09-09	15:50	1.8	WNW
2017-09-09	01:35	4.9	W	2017-09-09	08:45	4.5	WNW	2017-09-09	15:55	4.5	W
2017-09-09	01:40	4.9	WNW	2017-09-09	08:50	5.4	WNW	2017-09-09	16:00	3.6	NW
2017-09-09	01:45	3.1	WSW	2017-09-09	08:55	4.9	WNW	2017-09-09	16:05	1.3	NNW
2017-09-09	01:50	1.3	NNW	2017-09-09	09:00	2.2	NNW	2017-09-09	16:10	1.3	NW
2017-09-09	01:55	4	SW	2017-09-09	09:05	0.4	WSW	2017-09-09	16:15	1.3	NW
2017-09-09	02:00	0.4	WSW	2017-09-09	09:10	4.9	WNW	2017-09-09	16:20	3.1	W
2017-09-09	02:05	0.9	NNW	2017-09-09	09:15	4.5	W	2017-09-09	16:25	2.2	NW
2017-09-09	02:10	5.8	WNW	2017-09-09	09:20	1.3	NNW	2017-09-09	16:30	4	W
2017-09-09	02:15	1.8	NE	2017-09-09	09:25	2.7	WNW	2017-09-09	16:35	0.4	E
2017-09-09	02:20	1.8	NW	2017-09-09	09:30	1.3	WSW	2017-09-09	16:40	4	W
2017-09-09	02:25	4.5	WNW	2017-09-09	09:35	4.9	WNW	2017-09-09	16:45	0.9	NNW
2017-09-09	02:30	4	WNW	2017-09-09	09:40	0.4	WSW	2017-09-09	16:50	4	W
2017-09-09	02:35	3.6	WNW	2017-09-09	09:45	2.2	NW	2017-09-09	16:55	2.7	SW
2017-09-09	02:40	4.9	W	2017-09-09	09:50	2.7	W	2017-09-09	17:00	4	W
2017-09-09	02:45	4.9	WNW	2017-09-09	09:55	4	W	2017-09-09	17:05	2.7	NW
2017-09-09	02:50	4	WNW	2017-09-09	10:00	0.9	NNW	2017-09-09	17:10	5.8	WNW
2017-09-09	02:55	4	WNW	2017-09-09	10:05	4	W	2017-09-09	17:15	5.4	WNW
2017-09-09	03:00	2.7	WSW	2017-09-09	10:10	4.9	W	2017-09-09	17:20	0.4	WSW
2017-09-09	03:05	3.6	WNW	2017-09-09	10:15	3.1	WNW	2017-09-09	17:25	2.2	NW
2017-09-09	03:10	4.5	WNW	2017-09-09	10:20	1.3	NNW	2017-09-09	17:30	0.9	NNW
2017-09-09	03:15	5.4	WNW	2017-09-09	10:25	0.4	WSW	2017-09-09	17:35	2.7	W
2017-09-09	03:20	1.3	NW	2017-09-09	10:30	4.5	W	2017-09-09	17:40	2.2	NNW
2017-09-09	03:25	1.3	NW	2017-09-09	10:35	0.9	NW	2017-09-09	17:45	6.3	WNW
2017-09-09	03:30	4.5	W	2017-09-09	10:40	1.8	WNW	2017-09-09	17:50	1.8	NNW
2017-09-09	03:35	5.8	WNW	2017-09-09	10:45	6.3	WNW	2017-09-09	17:55	1.8	NW
2017-09-09	03:40	5.4	WNW	2017-09-09	10:50	2.2	NW	2017-09-09	18:00	1.8	NW
2017-09-09	03:45	6.3	WNW	2017-09-09	10:55	2.2	WSW	2017-09-09	18:05	2.7	NW
2017-09-09	03:50	6.3	WNW	2017-09-09	11:00	2.2	NNW	2017-09-09	18:10	2.2	NNW
2017-09-09	03:55	0.4	WSW	2017-09-09	11:05	4.9	W	2017-09-09	18:15	5.4	WNW
2017-09-09	04:00	1.3	NNW	2017-09-09	11:10	0.4	WSW	2017-09-09	18:20	5.4	WNW
2017-09-09	04:05	4.9	W	2017-09-09	11:15	3.1	W	2017-09-09	18:25	0.9	NNE
2017-09-09	04:10	4.9	W	2017-09-09	11:20	2.2	NNW	2017-09-09	18:30	1.8	NW
2017-09-09	04:15	2.2	SW	2017-09-09	11:25	1.8	NW	2017-09-09	18:35	3.1	W
2017-09-09	04:20	4.9	WNW	2017-09-09	11:30	4.5	W	2017-09-09	18:40	1.8	NW
2017-09-09	04:25	2.2	NW	2017-09-09	11:35	1.8	WNW	2017-09-09	18:45	6.3	WNW
2017-09-09	04:30	3.6	W	2017-09-09	11:40	2.2	NW	2017-09-09	18:50	5.4	W
2017-09-09	04:35	4.9	WNW	2017-09-09	11:45	0.9	NNW	2017-09-09	18:55	1.3	NNE
2017-09-09	04:40	3.1	WSW	2017-09-09	11:50	1.3	NW	2017-09-09	19:00	6.3	WNW
2017-09-09	04:45	4.9	W	2017-09-09	11:55	2.2	NNW	2017-09-09	19:05	5.8	WNW
2017-09-09	04:50	1.3	NNW	2017-09-09	12:00	4	W	2017-09-09	19:10	0.9	SW
2017-09-09	04:55	2.7	WNW	2017-09-09	12:05	1.8	NW	2017-09-09	19:15	4	W
2017-09-09	05:00	0.4	WSW	2017-09-09	12:10	1.8	NW	2017-09-09	19:20	1.8	NW
2017-09-09	05:05	1.8	WNW	2017-09-09	12:15	0.9	NNW	2017-09-09	19:25	6.7	WNW
2017-09-09	05:10	3.6	WNW	2017-09-09	12:20	4.5	W	2017-09-09	19:30	1.8	NW
2017-09-09	05:15	3.6	W	2017-09-09	12:25	4	W	2017-09-09	19:35	6.3	WNW
2017-09-09	05:20	1.8	NW	2017-09-09	12:30	1.3	E	2017-09-09	19:40	0.4	WSW
2017-09-09	05:25	5.4	WNW	2017-09-09	12:35	4.5	W	2017-09-09	19:45	5.4	WNW
2017-09-09	05:30	2.2	NW	2017-09-09	12:40	4	W	2017-09-09	19:50	3.6	WNW
2017-09-09	05:35	0.4	WSW	2017-09-09	12:45	0.4	WSW	2017-09-09	19:55	4	W
2017-09-09	05:40	4.5	WNW	2017-09-09	12:50	3.6	WNW	2017-09-09	20:00	1.8	NW
2017-09-09	05:45	1.3	NNW	2017-09-09	12:55	0.4	WSW	2017-09-09	20:05	1.3	WSW
2017-09-09	05:50	1.8	NNW	2017-09-09	13:00	1.8	NW	2017-09-09	20:10	4	W
2017-09-09	05:55	2.2	NNW	2017-09-09	13:05	1.8	WNW	2017-09-09	20:15	3.1	WNW
2017-09-09	06:00	0.9	WNW	2017-09-09	13:10	2.2	NNW	2017-09-09	20:20	2.2	NNW
2017-09-09	06:05	4.9	WNW	2017-09-09	13:15	4	WNW	2017-09-09	20:25	3.6	W
2017-09-09	06:10	1.8	NW	2017-09-09	13:20	4	W	2017-09-09	20:30	4.5	WNW
2017-09-09	06:15	1.8	NNW	2017-09-09	13:25	4.5	W	2017-09-09	20:35	2.2	NNW
2017-09-09	06:20	5.8	WNW	2017-09-09	13:30	4	W	2017-09-09	20:40	2.2	WNW
2017-09-09	06:25	3.1	WNW	2017-09-09	13:35	0.4	SW	2017-09-09	20:45	4.5	WNW
2017-09-09	06:30	4.9	W	2017-09-09	13:40	3.6	W	2017-09-09	20:50	1.3	ENE
2017-09-09	06:35	4	W	2017-09-09	13:45	6.7	WNW	2017-09-09	20:55	5.4	W
2017-09-09	06:40	2.7	NW	2017-09-09	13:50	0.4	WSW	2017-09-09	21:00	1.8	SW
2017-09-09	06:45	1.3	N	2017-09-09	13:55	4.5	W	2017-09-09	21:05	5.4	WNW
2017-09-09	06:50	1.8	NW	2017-09-09	14:00	2.2	NW	2017-09-09	21:10	6.3	WNW
2017-09-09	06:55	4.5	WNW	2017-09-09	14:05	1.3	N	2017-09-09	21:15	5.8	WNW
2017-09-09	07:00	1.8	WNW	2017-09-09	14:10	1.8	NNW	2017-09-09	21:20	3.6	W
2017-09-09	07:05	1.8	NW	2017-09-09	14:15	1.3	SSW	2017-09-09	21:25	4	W
2017-09-09	07:10	0.4	ENE	2017-09-09	14:20	0.9	NNW	2017-09-09	21:30	4	WNW
2017-09-09	07:15	4	W	2017-09-09	14:25	2.2	NNW	2017-09-09	21:35	4.9	W
2017-09-09	07:20	4.5	WNW	2017-09-09	14:30	2.2	WNW	2017-09-09	21:40	3.6	WNW
2017-09-09	07:25	1.8	NNW	2017-09-09	14:35	4.5	W	2017-09-09	21:45	4.5	W
2017-09-09	07:30	3.6	WSW	2017-09-09	14:40	2.2	NNW	2017-09-09	21:50	5.4	WNW
2017-09-09	07:35	4.5	WNW	2017-09-09	14:45	5.8	W	2017-09-09	21:55	4	W
2017-09-09	07:40	2.2	NW	2017-09-09	14:50	1.3	W	2017-09-09	22:00	2.2	NNW
2017-09-09	07:45	4.5	WNW	2017-09-09	14:55	1.8	NNW	2017-09-09	22:05	1.8	NW
2017-09-09	07:50	4.5	W	2017-09-09	15:00	4.5	WNW	2017-09-09	22:10	2.2	NNW
2017-09-09	07:55	2.2	NW	2017-09-09	15:05	2.2	NW	2017-09-09	22:15	1.8	NNW
2017-09-09	08:00	0.4	WSW	2017-09-09	15:10	1.8	NNW	2017-09-09	22:20	0.4	WSW
2017-09-09	08:05	1.3	NW	2017-09-09	15:15	1.3	NW	2017-09-09	22:25	5.8	WNW
2017-09-09	08:10	2.7	W	2017-09-09	15:20	4.5	W	2017-09-09	22:30	4.5	W
2017-09-09	08:15	4.9	WNW	2017-09-09	15:25	4.9	WNW	2017-09-09	22:35	1.8	NW
2017-09-09	08:20	3.1	WSW	2017-09-09	15:30	4	WNW	2017-09-09	22:40	1.8	NW
2017-09-09	08:25	4.9	W	2017-09-09	15:35	3.1	W	2017-09-09	22:45	3.6	W
2017-09-09	08:30	5.8	WNW	2017-09-09	15:40	5.4	WNW	2017-09-09	22:50	4	WNW
2017-09-09	08:35	4.9	WNW	2017-09-09	15:45	5.8	WNW	2017-09-09	22:55	4.5	W

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-09	23:00	0.4	WSW	2017-09-10	06:10	0.9	E	2017-09-10	13:20	3.1	E
2017-09-09	23:05	0.9	WSW	2017-09-10	06:15	3.1	ENE	2017-09-10	13:25	1.8	WNW
2017-09-09	23:10	3.6	WNW	2017-09-10	06:20	0	---	2017-09-10	13:30	0	---
2017-09-09	23:15	1.8	NW	2017-09-10	06:25	0	---	2017-09-10	13:35	0.4	SSW
2017-09-09	23:20	1.8	NNW	2017-09-10	06:30	0	---	2017-09-10	13:40	1.8	ENE
2017-09-09	23:25	1.8	NNW	2017-09-10	06:35	3.1	ENE	2017-09-10	13:45	4	E
2017-09-09	23:30	1.3	NNW	2017-09-10	06:40	0	SSE	2017-09-10	13:50	1.3	WSW
2017-09-09	23:35	1.3	NW	2017-09-10	06:45	1.8	NE	2017-09-10	13:55	1.3	SSW
2017-09-09	23:40	5.4	W	2017-09-10	06:50	3.6	ENE	2017-09-10	14:00	2.7	ENE
2017-09-09	23:45	4.5	W	2017-09-10	06:55	3.6	E	2017-09-10	14:05	1.8	WSW
2017-09-09	23:50	5.8	WNW	2017-09-10	07:00	4	E	2017-09-10	14:10	4	ENE
2017-09-09	23:55	5.4	WNW	2017-09-10	07:05	3.6	W	2017-09-10	14:15	0.4	E
2017-09-10	00:00	4.9	WNW	2017-09-10	07:10	3.1	W	2017-09-10	14:20	2.2	ENE
2017-09-10	00:05	1.3	SW	2017-09-10	07:15	0.4	WNW	2017-09-10	14:25	0.9	E
2017-09-10	00:10	3.6	E	2017-09-10	07:20	1.3	NNW	2017-09-10	14:30	1.8	W
2017-09-10	00:15	1.8	WNW	2017-09-10	07:25	1.3	ENE	2017-09-10	14:35	0.4	E
2017-09-10	00:20	0.9	SW	2017-09-10	07:30	3.1	ENE	2017-09-10	14:40	3.6	E
2017-09-10	00:25	2.7	ENE	2017-09-10	07:35	3.1	E	2017-09-10	14:45	0.9	WSW
2017-09-10	00:30	0	---	2017-09-10	07:40	0.9	WSW	2017-09-10	14:50	1.8	WNW
2017-09-10	00:35	4.5	E	2017-09-10	07:45	2.2	NW	2017-09-10	14:55	0	---
2017-09-10	00:40	2.7	WSW	2017-09-10	07:50	1.8	W	2017-09-10	15:00	0.4	WSW
2017-09-10	00:45	0	E	2017-09-10	07:55	0.9	NW	2017-09-10	15:05	0.9	SW
2017-09-10	00:50	2.2	ENE	2017-09-10	08:00	3.6	E	2017-09-10	15:10	1.3	W
2017-09-10	00:55	0.9	NW	2017-09-10	08:05	1.8	ENE	2017-09-10	15:15	1.3	W
2017-09-10	01:00	3.6	ENE	2017-09-10	08:10	1.8	WSW	2017-09-10	15:20	0	---
2017-09-10	01:05	1.8	ENE	2017-09-10	08:15	0.9	SW	2017-09-10	15:25	2.2	W
2017-09-10	01:10	3.1	ENE	2017-09-10	08:20	0.4	ENE	2017-09-10	15:30	2.7	E
2017-09-10	01:15	0.9	W	2017-09-10	08:25	2.7	SW	2017-09-10	15:35	0	---
2017-09-10	01:20	0.9	SSW	2017-09-10	08:30	2.7	ENE	2017-09-10	15:40	3.1	E
2017-09-10	01:25	1.8	W	2017-09-10	08:35	0.4	E	2017-09-10	15:45	0	SW
2017-09-10	01:30	1.8	NW	2017-09-10	08:40	4	ENE	2017-09-10	15:50	0	---
2017-09-10	01:35	2.2	ENE	2017-09-10	08:45	0	---	2017-09-10	15:55	1.8	NW
2017-09-10	01:40	3.6	ENE	2017-09-10	08:50	0.9	WNW	2017-09-10	16:00	1.3	W
2017-09-10	01:45	2.2	ENE	2017-09-10	08:55	0.4	ENE	2017-09-10	16:05	0	---
2017-09-10	01:50	1.3	WSW	2017-09-10	09:00	0.4	ESE	2017-09-10	16:10	0.4	WSW
2017-09-10	01:55	0.4	SW	2017-09-10	09:05	2.2	E	2017-09-10	16:15	0.9	WSW
2017-09-10	02:00	2.7	E	2017-09-10	09:10	0.9	WSW	2017-09-10	16:20	0	---
2017-09-10	02:05	0	---	2017-09-10	09:15	0.4	S	2017-09-10	16:25	2.2	W
2017-09-10	02:10	0.9	NE	2017-09-10	09:20	1.8	E	2017-09-10	16:30	1.3	SSW
2017-09-10	02:15	0.4	W	2017-09-10	09:25	2.7	ENE	2017-09-10	16:35	1.3	SSW
2017-09-10	02:20	1.8	W	2017-09-10	09:30	3.1	E	2017-09-10	16:40	0	---
2017-09-10	02:25	3.6	ENE	2017-09-10	09:35	4	E	2017-09-10	16:45	1.3	SW
2017-09-10	02:30	3.6	E	2017-09-10	09:40	1.8	WNW	2017-09-10	16:50	2.7	E
2017-09-10	02:35	2.2	ENE	2017-09-10	09:45	3.1	E	2017-09-10	16:55	1.8	WNW
2017-09-10	02:40	3.1	E	2017-09-10	09:50	0.9	E	2017-09-10	17:00	0	---
2017-09-10	02:45	0.9	WSW	2017-09-10	09:55	3.6	E	2017-09-10	17:05	1.3	W
2017-09-10	02:50	2.2	E	2017-09-10	10:00	1.3	NW	2017-09-10	17:10	0	---
2017-09-10	02:55	1.3	WSW	2017-09-10	10:05	1.8	ENE	2017-09-10	17:15	3.1	E
2017-09-10	03:00	2.7	W	2017-09-10	10:10	2.2	ENE	2017-09-10	17:20	0	E
2017-09-10	03:05	0.9	NW	2017-09-10	10:15	0.9	SW	2017-09-10	17:25	0.9	WSW
2017-09-10	03:10	0.9	SW	2017-09-10	10:20	2.2	E	2017-09-10	17:30	1.8	WSW
2017-09-10	03:15	0.4	WSW	2017-09-10	10:25	0.9	SSW	2017-09-10	17:35	4	ENE
2017-09-10	03:20	0	---	2017-09-10	10:30	2.7	ENE	2017-09-10	17:40	3.6	E
2017-09-10	03:25	2.7	W	2017-09-10	10:35	3.6	E	2017-09-10	17:45	1.3	WSW
2017-09-10	03:30	0.4	SW	2017-09-10	10:40	0.4	ESE	2017-09-10	17:50	2.7	E
2017-09-10	03:35	0	---	2017-09-10	10:45	0	---	2017-09-10	17:55	1.8	SW
2017-09-10	03:40	3.6	E	2017-09-10	10:50	2.7	E	2017-09-10	18:00	0	---
2017-09-10	03:45	1.3	WNW	2017-09-10	10:55	1.3	SW	2017-09-10	18:05	2.7	ENE
2017-09-10	03:50	0.4	SW	2017-09-10	11:00	2.2	E	2017-09-10	18:10	0	---
2017-09-10	03:55	0.4	W	2017-09-10	11:05	2.7	ENE	2017-09-10	18:15	0	---
2017-09-10	04:00	2.2	SW	2017-09-10	11:10	1.8	W	2017-09-10	18:20	1.8	W
2017-09-10	04:05	0.4	SW	2017-09-10	11:15	2.7	E	2017-09-10	18:25	1.8	NE
2017-09-10	04:10	1.8	ENE	2017-09-10	11:20	1.3	W	2017-09-10	18:30	3.1	E
2017-09-10	04:15	2.7	ENE	2017-09-10	11:25	3.6	E	2017-09-10	18:35	0	WSW
2017-09-10	04:20	0.4	WNW	2017-09-10	11:30	4	E	2017-09-10	18:40	0.9	W
2017-09-10	04:25	2.2	WNW	2017-09-10	11:35	2.2	E	2017-09-10	18:45	0	---
2017-09-10	04:30	0	---	2017-09-10	11:40	3.1	E	2017-09-10	18:50	0.9	SSW
2017-09-10	04:35	0	---	2017-09-10	11:45	0.4	W	2017-09-10	18:55	0.9	NE
2017-09-10	04:40	1.8	W	2017-09-10	11:50	0	---	2017-09-10	19:00	0.9	W
2017-09-10	04:45	2.2	E	2017-09-10	11:55	1.8	W	2017-09-10	19:05	0	---
2017-09-10	04:50	0	---	2017-09-10	12:00	0.9	ENE	2017-09-10	19:10	3.1	E
2017-09-10	04:55	0	---	2017-09-10	12:05	0	---	2017-09-10	19:15	0.9	WNW
2017-09-10	05:00	3.6	E	2017-09-10	12:10	1.8	SW	2017-09-10	19:20	0.9	ESE
2017-09-10	05:05	0	---	2017-09-10	12:15	1.8	E	2017-09-10	19:25	0.9	E
2017-09-10	05:10	1.3	NE	2017-09-10	12:20	3.1	WSW	2017-09-10	19:30	0.9	W
2017-09-10	05:15	1.8	ESE	2017-09-10	12:25	4	ENE	2017-09-10	19:35	1.8	WSW
2017-09-10	05:20	3.1	ENE	2017-09-10	12:30	0.4	E	2017-09-10	19:40	2.7	E
2017-09-10	05:25	3.1	E	2017-09-10	12:35	2.2	E	2017-09-10	19:45	1.3	WSW
2017-09-10	05:30	4	E	2017-09-10	12:40	2.7	E	2017-09-10	19:50	0	WSW
2017-09-10	05:35	3.1	ENE	2017-09-10	12:45	2.2	E	2017-09-10	19:55	3.6	E
2017-09-10	05:40	1.8	ENE	2017-09-10	12:50	0.9	SW	2017-09-10	20:00	3.1	ENE
2017-09-10	05:45	0.9	W	2017-09-10	12:55	0.9	WNW	2017-09-10	20:05	0	---
2017-09-10	05:50	2.2	E	2017-09-10	13:00	3.1	ENE	2017-09-10	20:10	1.3	E
2017-09-10	05:55	2.2	W	2017-09-10	13:05	3.1	ENE	2017-09-10	20:15	0	---
2017-09-10	06:00	1.3	NNE	2017-09-10	13:10	3.1	ENE	2017-09-10	20:20	1.3	WSW
2017-09-10	06:05	1.3	SSW	2017-09-10	13:15	3.1	ENE	2017-09-10	20:25	1.8	S

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-10	20:30	1.3	W	2017-09-11	03:40	1.8	NE	2017-09-11	10:45	0	---
2017-09-10	20:35	1.3	SW	2017-09-11	03:45	1.3	NE	2017-09-11	10:50	2.7	ENE
2017-09-10	20:40	1.3	ESE	2017-09-11	03:50	0	---	2017-09-11	10:55	0	---
2017-09-10	20:45	3.6	ENE	2017-09-11	03:55	3.1	WNW	2017-09-11	11:00	2.2	WNW
2017-09-10	20:50	0	---	2017-09-11	04:00	0.9	W	2017-09-11	11:05	0.4	NW
2017-09-10	20:55	2.7	ENE	2017-09-11	04:05	0.4	E	2017-09-11	11:10	3.1	NE
2017-09-10	21:00	0	---	2017-09-11	04:10	0.4	WNW	2017-09-11	11:15	1.8	NE
2017-09-10	21:05	0.4	E	2017-09-11	04:15	3.6	NE	2017-09-11	11:20	1.8	E
2017-09-10	21:10	0.4	SSW	2017-09-11	04:20	2.7	E	2017-09-11	11:25	2.7	ENE
2017-09-10	21:15	3.1	E	2017-09-11	04:25	2.2	WNW	2017-09-11	11:30	0	---
2017-09-10	21:20	2.2	WNW	2017-09-11	04:30	3.1	NE	2017-09-11	11:35	1.8	ENE
2017-09-10	21:25	0.9	NE	2017-09-11	04:35	0.4	NNW	2017-09-11	11:40	3.1	ENE
2017-09-10	21:30	0	---	2017-09-11	04:40	0.9	ENE	2017-09-11	11:45	0.9	NW
2017-09-10	21:35	1.3	W	2017-09-11	04:45	3.1	WNW	2017-09-11	11:50	2.7	W
2017-09-10	21:40	0.4	ENE	2017-09-11	04:50	3.1	ENE	2017-09-11	11:55	0.9	W
2017-09-10	21:45	1.3	W	2017-09-11	04:55	0	---	2017-09-11	12:00	0	W
2017-09-10	21:50	0.4	WNW	2017-09-11	05:00	2.2	E	2017-09-11	12:05	1.8	E
2017-09-10	21:55	1.8	WNW	2017-09-11	05:05	0.4	W	2017-09-11	12:10	3.1	ENE
2017-09-10	22:00	0	---	2017-09-11	05:10	3.1	E	2017-09-11	12:15	3.1	NE
2017-09-10	22:05	1.8	ENE	2017-09-11	05:15	1.8	E	2017-09-11	12:20	2.7	E
2017-09-10	22:10	2.2	E	2017-09-11	05:20	2.7	NE	2017-09-11	12:25	2.2	E
2017-09-10	22:15	1.3	ESE	2017-09-11	05:25	2.2	NE	2017-09-11	12:30	0.9	E
2017-09-10	22:20	3.6	WSW	2017-09-11	05:30	0.4	W	2017-09-11	12:35	2.7	NE
2017-09-10	22:25	0.9	NE	2017-09-11	05:35	1.3	E	2017-09-11	12:40	3.6	ENE
2017-09-10	22:30	1.8	W					2017-09-11	12:45	0.9	ESE
2017-09-10	22:35	1.8	ENE	2017-09-11	05:40	2.2	WNW	2017-09-11	12:50	0	---
2017-09-10	22:40	3.1	E	2017-09-11	05:45	0.9	W	2017-09-11	12:55	2.2	E
2017-09-10	22:45	1.8	WSW	2017-09-11	05:50	0	---	2017-09-11	13:00	0.9	ENE
2017-09-10	22:50	4	ENE	2017-09-11	05:55	3.1	NE	2017-09-11	13:05	1.3	WNW
2017-09-10	22:55	3.1	ENE	2017-09-11	06:00	0.9	E	2017-09-11	13:10	2.2	E
2017-09-10	23:00	2.2	E	2017-09-11	06:05	0	---	2017-09-11	13:15	1.8	NE
2017-09-10	23:05	2.2	E	2017-09-11	06:10	2.2	WNW	2017-09-11	13:20	0	---
2017-09-10	23:10	2.7	ENE	2017-09-11	06:15	0.9	NE	2017-09-11	13:25	1.8	ENE
2017-09-10	23:15	0.4	WSW	2017-09-11	06:20	0.9	E	2017-09-11	13:30	0	---
2017-09-10	23:20	0.4	WNW	2017-09-11	06:25	2.7	W	2017-09-11	13:35	0	---
2017-09-10	23:25	3.1	E	2017-09-11	06:30	1.3	E	2017-09-11	13:40	2.7	W
2017-09-10	23:30	1.8	SW	2017-09-11	06:35	0	SE	2017-09-11	13:45	0	---
2017-09-10	23:35	0	WSW	2017-09-11	06:40	0.9	W	2017-09-11	13:50	0	---
2017-09-10	23:40	0	---	2017-09-11	06:45	1.3	E	2017-09-11	13:55	3.6	ENE
2017-09-10	23:45	0	---	2017-09-11	06:50	0	---	2017-09-11	14:00	3.1	NE
2017-09-10	23:50	3.1	E	2017-09-11	06:55	0.4	NE	2017-09-11	14:05	3.1	NE
2017-09-10	23:55	2.7	W	2017-09-11	07:00	2.2	ENE	2017-09-11	14:10	2.2	ENE
2017-09-11	00:00	2.2	WSW	2017-09-11	07:05	1.8	NE	2017-09-11	14:15	3.1	NE
2017-09-11	00:05	1.8	ENE	2017-09-11	07:10	0	---	2017-09-11	14:20	3.1	NE
2017-09-11	00:10	0	---	2017-09-11	07:15	2.2	NE	2017-09-11	14:25	4	ENE
2017-09-11	00:15	2.2	WNW	2017-09-11	07:20	0.4	NW	2017-09-11	14:30	0	---
2017-09-11	00:20	0.9	NE	2017-09-11	07:25	3.1	ENE	2017-09-11	14:35	3.6	ENE
2017-09-11	00:25	2.2	W	2017-09-11	07:30	0.4	W	2017-09-11	14:40	0.4	NE
2017-09-11	00:30	2.7	WNW	2017-09-11	07:35	2.2	NE	2017-09-11	14:45	2.7	WNW
2017-09-11	00:35	1.8	NE	2017-09-11	07:40	0.4	W	2017-09-11	14:50	0	---
2017-09-11	00:40	0	E	2017-09-11	07:45	0	---	2017-09-11	14:55	0	---
2017-09-11	00:45	1.8	E	2017-09-11	07:50	0.4	SW	2017-09-11	15:00	1.3	NE
2017-09-11	00:50	2.7	ENE	2017-09-11	07:55	1.8	ENE	2017-09-11	15:05	1.3	W
2017-09-11	00:55	3.1	ENE	2017-09-11	08:00	1.8	E	2017-09-11	15:10	2.7	E
2017-09-11	01:00	0	---	2017-09-11	08:05	0	---	2017-09-11	15:15	0.4	W
2017-09-11	01:05	1.3	E	2017-09-11	08:10	3.6	NE	2017-09-11	15:20	0	---
2017-09-11	01:10	0.4	WSW	2017-09-11	08:15	1.3	WNW	2017-09-11	15:25	0	---
2017-09-11	01:15	0	---	2017-09-11	08:20	0	---	2017-09-11	15:30	1.8	WNW
2017-09-11	01:20	0.9	W	2017-09-11	08:25	0.9	E	2017-09-11	15:35	0.9	NW
2017-09-11	01:25	1.8	ENE	2017-09-11	08:30	0.4	E	2017-09-11	15:40	0	---
2017-09-11	01:30	2.7	ENE	2017-09-11	08:35	0	---	2017-09-11	15:45	3.1	W
2017-09-11	01:35	0.9	NNE	2017-09-11	08:40	0	W	2017-09-11	15:50	2.2	W
2017-09-11	01:40	1.3	ENE	2017-09-11	08:45	0.9	WSW	2017-09-11	15:55	1.3	ENE
2017-09-11	01:45	2.7	WNW	2017-09-11	08:50	0	---	2017-09-11	16:00	0.4	W
2017-09-11	01:50	2.7	W	2017-09-11	08:55	0.4	W	2017-09-11	16:05	0	---
2017-09-11	01:55	2.7	NE	2017-09-11	09:00	0	---	2017-09-11	16:10	0.4	W
2017-09-11	02:00	1.8	NE	2017-09-11	09:05	1.8	NNE	2017-09-11	16:15	0.9	WSW
2017-09-11	02:05	1.8	NE	2017-09-11	09:10	1.3	N	2017-09-11	16:20	0	---
2017-09-11	02:10	0.4	NE	2017-09-11	09:15	0.4	SW	2017-09-11	16:25	2.7	WNW
2017-09-11	02:15	0	---	2017-09-11	09:20	0	---	2017-09-11	16:30	0.9	NNE
2017-09-11	02:20	0.4	SSW	2017-09-11	09:25	2.2	ENE	2017-09-11	16:35	0	---
2017-09-11	02:25	2.7	NE	2017-09-11	09:30	0.9	WSW	2017-09-11	16:40	3.1	W
2017-09-11	02:30	0.9	WNW	2017-09-11	09:35	1.3	NE	2017-09-11	16:45	0	---
2017-09-11	02:35	1.8	ENE	2017-09-11	09:40	2.2	E	2017-09-11	16:50	0	---
2017-09-11	02:40	0.4	WSW	2017-09-11	09:45	1.8	SW	2017-09-11	16:55	2.7	NE
2017-09-11	02:45	2.2	ENE	2017-09-11	09:50	0	---	2017-09-11	17:00	0	---
2017-09-11	02:50	0.9	W	2017-09-11	09:55	0	---	2017-09-11	17:05	2.7	NE
2017-09-11	02:55	0	---	2017-09-11	10:00	2.2	WNW	2017-09-11	17:10	0.4	W
2017-09-11	03:00	0.9	N	2017-09-11	10:05	1.3	NE	2017-09-11	17:15	1.3	NE
2017-09-11	03:05	2.7	NE	2017-09-11	10:10	1.8	SE	2017-09-11	17:20	2.7	WNW
2017-09-11	03:10	0.4	NE	2017-09-11	10:15	0.9	NE	2017-09-11	17:25	0	NE
2017-09-11	03:15	1.3	E	2017-09-11	10:20	2.2	NE	2017-09-11	17:30	3.1	WNW
2017-09-11	03:20	1.8	WNW	2017-09-11	10:25	0.4	W	2017-09-11	17:35	2.2	ENE
2017-09-11	03:25	1.8	E	2017-09-11	10:30	1.8	NE	2017-09-11	17:40	3.1	WNW
2017-09-11	03:30	1.8	ENE	2017-09-11	10:35	0	---	2017-09-11	17:45	0	---
2017-09-11	03:35	2.2	E	2017-09-11	10:40	2.7	NE	2017-09-11	17:50	2.2	WNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-11	17:55	2.7	NE	2017-09-12	01:05	1.3	NNE	2017-09-12	08:15	3.1	NNW
2017-09-11	18:00	2.2	NE	2017-09-12	01:10	1.3	E	2017-09-12	08:20	1.8	ENE
2017-09-11	18:05	2.2	NE	2017-09-12	01:15	2.7	ENE	2017-09-12	08:25	2.2	NE
2017-09-11	18:10	3.1	NE	2017-09-12	01:20	2.2	ESE	2017-09-12	08:30	4.5	NE
2017-09-11	18:15	3.1	WNW	2017-09-12	01:25	2.2	NNE	2017-09-12	08:35	3.6	NE
2017-09-11	18:20	2.2	WNW	2017-09-12	01:30	2.2	NNE	2017-09-12	08:40	2.2	NE
2017-09-11	18:25	0	---	2017-09-12	01:35	1.8	NNE	2017-09-12	08:45	3.6	NE
2017-09-11	18:30	2.2	W	2017-09-12	01:40	4.5	ENE	2017-09-12	08:50	2.7	NE
2017-09-11	18:35	0	---	2017-09-12	01:45	0.9	N	2017-09-12	08:55	2.7	N
2017-09-11	18:40	2.2	E	2017-09-12	01:50	2.2	NE	2017-09-12	09:00	4	N
2017-09-11	18:45	0.4	W	2017-09-12	01:55	1.3	NE	2017-09-12	09:05	2.7	E
2017-09-11	18:50	0	---	2017-09-12	02:00	2.7	NNW	2017-09-12	09:10	2.2	NE
2017-09-11	18:55	3.1	NE	2017-09-12	02:05	0.9	S	2017-09-12	09:15	2.2	NNW
2017-09-11	19:00	0.9	NE	2017-09-12	02:10	2.7	NE	2017-09-12	09:20	2.2	NE
2017-09-11	19:05	0	---	2017-09-12	02:15	2.7	ENE	2017-09-12	09:25	1.3	NE
2017-09-11	19:10	2.2	ENE	2017-09-12	02:20	2.7	N	2017-09-12	09:30	3.1	NE
2017-09-11	19:15	2.7	ENE	2017-09-12	02:25	2.2	WNW	2017-09-12	09:35	1.8	N
2017-09-11	19:20	0.9	W	2017-09-12	02:30	2.7	NNW	2017-09-12	09:40	3.1	E
2017-09-11	19:25	0	---	2017-09-12	02:35	2.2	ENE	2017-09-12	09:45	0.9	E
2017-09-11	19:30	2.7	WNW	2017-09-12	02:40	2.2	N	2017-09-12	09:50	2.2	ESE
2017-09-11	19:35	2.7	WNW	2017-09-12	02:45	2.2	NE	2017-09-12	09:55	2.2	NNE
2017-09-11	19:40	2.7	ENE	2017-09-12	02:50	2.7	NE	2017-09-12	10:00	2.2	NE
2017-09-11	19:45	0.4	ENE	2017-09-12	02:55	2.7	NNW	2017-09-12	10:05	2.2	ENE
2017-09-11	19:50	1.8	NE	2017-09-12	03:00	1.3	ENE	2017-09-12	10:10	2.2	NE
2017-09-11	19:55	1.3	W	2017-09-12	03:05	4.9	ENE	2017-09-12	10:15	2.2	ENE
2017-09-11	20:00	0	---	2017-09-12	03:10	1.3	ENE	2017-09-12	10:20	2.7	NNW
2017-09-11	20:05	0.9	NE	2017-09-12	03:15	1.8	NE	2017-09-12	10:25	1.3	ENE
2017-09-11	20:10	0	---	2017-09-12	03:20	1.8	ENE	2017-09-12	10:30	2.7	NE
2017-09-11	20:15	2.2	NE	2017-09-12	03:25	2.7	NE	2017-09-12	10:35	2.7	NE
2017-09-11	20:20	2.7	WNW	2017-09-12	03:30	2.7	NE	2017-09-12	10:40	3.6	NE
2017-09-11	20:25	3.1	ENE	2017-09-12	03:35	2.2	NE	2017-09-12	10:45	2.2	N
2017-09-11	20:30	0	---	2017-09-12	03:40	0.4	W	2017-09-12	10:50	0.9	N
2017-09-11	20:35	0.9	SW	2017-09-12	03:45	3.1	NE	2017-09-12	10:55	1.8	NE
2017-09-11	20:40	2.2	WNW	2017-09-12	03:50	3.6	N	2017-09-12	11:00	2.7	NE
2017-09-11	20:45	1.8	NE	2017-09-12	03:55	1.8	NE	2017-09-12	11:05	1.8	N
2017-09-11	20:50	3.6	NE	2017-09-12	04:00	1.8	ENE	2017-09-12	11:10	2.7	E
2017-09-11	20:55	1.3	ENE	2017-09-12	04:05	2.2	N	2017-09-12	11:15	0.9	NNE
2017-09-11	21:00	0.4	W	2017-09-12	04:10	0	SSE	2017-09-12	11:20	2.2	NW
2017-09-11	21:05	1.3	E	2017-09-12	04:15	0.4	ESE	2017-09-12	11:25	2.7	NNE
2017-09-11	21:10	2.2	W	2017-09-12	04:20	1.3	ESE	2017-09-12	11:30	1.8	NE
2017-09-11	21:15	0.9	NE	2017-09-12	04:25	2.7	N	2017-09-12	11:35	3.1	NE
2017-09-11	21:20	1.8	NE	2017-09-12	04:30	3.6	NNW	2017-09-12	11:40	3.1	NE
2017-09-11	21:25	3.1	W	2017-09-12	04:35	2.7	NE	2017-09-12	11:45	2.7	NNE
2017-09-11	21:30	2.2	WNW	2017-09-12	04:40	1.8	NE	2017-09-12	11:50	2.2	NE
2017-09-11	21:35	1.8	E	2017-09-12	04:45	2.7	E	2017-09-12	11:55	2.2	NE
2017-09-11	21:40	1.8	ENE	2017-09-12	04:50	4	NE	2017-09-12	12:00	2.7	ENE
2017-09-11	21:45	1.8	NE	2017-09-12	04:55	1.8	NNE	2017-09-12	12:05	3.1	ENE
2017-09-11	21:50	2.2	NW	2017-09-12	05:00	1.8	ENE	2017-09-12	12:10	2.2	NW
2017-09-11	21:55	1.8	NE	2017-09-12	05:05	3.6	NE	2017-09-12	12:15	2.7	NE
2017-09-11	22:00	2.2	ENE	2017-09-12	05:10	2.2	NE	2017-09-12	12:20	2.2	NNE
2017-09-11	22:05	4	ENE	2017-09-12	05:15	2.2	ENE	2017-09-12	12:25	2.7	NNE
2017-09-11	22:10	2.7	E	2017-09-12	05:20	1.8	NNW	2017-09-12	12:30	0.9	NE
2017-09-11	22:15	0	---	2017-09-12	05:25	1.3	NNE	2017-09-12	12:35	3.1	NE
2017-09-11	22:20	2.2	SSE	2017-09-12	05:30	3.1	E	2017-09-12	12:40	2.7	E
2017-09-11	22:25	1.3	ENE	2017-09-12	05:35	1.3	E	2017-09-12	12:45	4	ENE
2017-09-11	22:30	3.1	ENE	2017-09-12	05:40	1.8	N	2017-09-12	12:50	2.2	NNE
2017-09-11	22:35	2.7	NE	2017-09-12	05:45	1.8	NE	2017-09-12	12:55	2.2	NNW
2017-09-11	22:40	4	W	2017-09-12	05:50	1.8	NNE	2017-09-12	13:00	2.7	E
2017-09-11	22:45	2.2	WNW	2017-09-12	05:55	1.3	ENE	2017-09-12	13:05	1.8	ENE
2017-09-11	22:50	2.7	WNW	2017-09-12	06:00	2.2	ENE	2017-09-12	13:10	2.7	NE
2017-09-11	22:55	2.2	WNW	2017-09-12	06:05	2.7	NE	2017-09-12	13:15	1.8	ENE
2017-09-11	23:00	2.7	E	2017-09-12	06:10	1.8	ENE	2017-09-12	13:20	0.9	SSE
2017-09-11	23:05	2.2	NE	2017-09-12	06:15	1.8	NW	2017-09-12	13:25	4.9	NE
2017-09-11	23:10	2.2	WNW	2017-09-12	06:20	3.6	NE	2017-09-12	13:30	1.8	NE
2017-09-11	23:15	0	---	2017-09-12	06:25	2.2	N	2017-09-12	13:35	1.3	NNE
2017-09-11	23:20	3.1	NW	2017-09-12	06:30	2.2	N	2017-09-12	13:40	3.1	NE
2017-09-11	23:25	0	---	2017-09-12	06:35	5.4	ENE	2017-09-12	13:45	2.2	N
2017-09-11	23:30	0	---	2017-09-12	06:40	1.8	ESE	2017-09-12	13:50	2.7	NNE
2017-09-11	23:35	2.7	WNW	2017-09-12	06:45	2.2	NW	2017-09-12	13:55	3.6	NE
2017-09-11	23:40	2.7	W	2017-09-12	06:50	2.2	NNE	2017-09-12	14:00	2.7	E
2017-09-11	23:45	1.8	ENE	2017-09-12	06:55	1.3	NE	2017-09-12	14:05	2.2	ENE
2017-09-11	23:50	1.3	ENE	2017-09-12	07:00	2.2	NNW	2017-09-12	14:10	2.7	E
2017-09-11	23:55	2.7	NE	2017-09-12	07:05	2.2	NW	2017-09-12	14:15	0.4	NW
2017-09-12	00:00	0	W	2017-09-12	07:10	2.2	NE	2017-09-12	14:20	0.9	NW
2017-09-12	00:05	3.1	ENE	2017-09-12	07:15	2.7	NE	2017-09-12	14:25	4	ENE
2017-09-12	00:10	2.2	NNE	2017-09-12	07:20	1.3	ENE	2017-09-12	14:30	1.3	ESE
2017-09-12	00:15	1.8	NNW	2017-09-12	07:25	3.1	NE	2017-09-12	14:35	1.8	NNE
2017-09-12	00:20	1.3	ESE	2017-09-12	07:30	2.2	E	2017-09-12	14:40	1.8	NE
2017-09-12	00:25	1.8	NE	2017-09-12	07:35	1.3	N	2017-09-12	14:45	3.1	NE
2017-09-12	00:30	1.3	NW	2017-09-12	07:40	3.1	NE	2017-09-12	14:50	2.7	NE
2017-09-12	00:35	2.2	NW	2017-09-12	07:45	1.8	N	2017-09-12	14:55	2.7	NE
2017-09-12	00:40	3.1	ENE	2017-09-12	07:50	2.7	N	2017-09-12	15:00	2.2	NE
2017-09-12	00:45	3.1	ENE	2017-09-12	07:55	3.6	NE	2017-09-12	15:05	2.7	ENE
2017-09-12	00:50	1.3	NE	2017-09-12	08:00	4	NE	2017-09-12	15:10	1.8	NNE
2017-09-12	00:55	2.7	ENE	2017-09-12	08:05	2.2	NNE	2017-09-12	15:15	2.2	NE
2017-09-12	01:00	1.3	NW	2017-09-12	08:10	0.9	E	2017-09-12	15:20	0.9	NNE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-12	15:25	1.8	NE	2017-09-12	22:35	2.2	NNE	2017-09-13	05:45	1.8	WNW
2017-09-12	15:30	2.2	NE	2017-09-12	22:40	1.8	NNE	2017-09-13	05:50	0.4	ESE
2017-09-12	15:35	1.8	E	2017-09-12	22:45	2.7	N	2017-09-13	05:55	1.3	E
2017-09-12	15:40	4	ENE	2017-09-12	22:50	2.2	NE	2017-09-13	06:00	2.2	WNW
2017-09-12	15:45	1.3	NNW	2017-09-12	22:55	2.2	NNE	2017-09-13	06:05	2.2	E
2017-09-12	15:50	3.1	N	2017-09-12	23:00	2.7	E	2017-09-13	06:10	1.8	NW
2017-09-12	15:55	2.2	N	2017-09-12	23:05	4.5	NE	2017-09-13	06:15	2.7	NW
2017-09-12	16:00	1.8	NNW	2017-09-12	23:10	2.7	NE	2017-09-13	06:20	1.8	WNW
2017-09-12	16:05	2.2	NE	2017-09-12	23:15	1.8	NE	2017-09-13	06:25	1.3	WSW
2017-09-12	16:10	2.2	N	2017-09-12	23:20	1.3	E	2017-09-13	06:30	2.2	NW
2017-09-12	16:15	2.2	E	2017-09-12	23:25	2.2	NNW	2017-09-13	06:35	0.9	NNW
2017-09-12	16:20	2.7	E	2017-09-12	23:30	1.8	NE	2017-09-13	06:40	1.8	NNW
2017-09-12	16:25	3.1	E	2017-09-12	23:35	2.7	N	2017-09-13	06:45	2.2	NW
2017-09-12	16:30	2.7	NNE	2017-09-12	23:40	2.7	NE	2017-09-13	06:50	0.9	NNE
2017-09-12	16:35	2.2	ENE	2017-09-12	23:45	1.3	N	2017-09-13	06:55	1.3	WNW
2017-09-12	16:40	1.8	NNW	2017-09-12	23:50	1.8	NNW	2017-09-13	07:00	2.2	WNW
2017-09-12	16:45	2.2	N	2017-09-12	23:55	4	NE	2017-09-13	07:05	0.4	ESE
2017-09-12	16:50	0.9	ESE	2017-09-13	00:00	2.7	NNW	2017-09-13	07:10	1.3	NNW
2017-09-12	16:55	1.8	NW	2017-09-13	00:05	1.3	N	2017-09-13	07:15	1.3	WNW
2017-09-12	17:00	2.2	NE	2017-09-13	00:10	0	SE	2017-09-13	07:20	1.8	NNE
2017-09-12	17:05	2.2	NNE	2017-09-13	00:15	0.9	WNW	2017-09-13	07:25	0.9	NW
2017-09-12	17:10	3.6	ENE	2017-09-13	00:20	1.3	NNW	2017-09-13	07:30	1.3	NNE
2017-09-12	17:15	4	ENE	2017-09-13	00:25	0.4	NNE	2017-09-13	07:35	2.2	WNW
2017-09-12	17:20	2.7	NE	2017-09-13	00:30	2.2	NNW	2017-09-13	07:40	1.3	N
2017-09-12	17:25	2.2	NNE	2017-09-13	00:35	1.8	NNW	2017-09-13	07:45	2.7	W
2017-09-12	17:30	2.7	NE	2017-09-13	00:40	1.8	W	2017-09-13	07:50	0.9	NNW
2017-09-12	17:35	2.2	NE	2017-09-13	00:45	3.1	WNW	2017-09-13	07:55	0	NNE
2017-09-12	17:40	2.7	NNE	2017-09-13	00:50	1.3	NW	2017-09-13	08:00	0.9	NNW
2017-09-12	17:45	2.2	ENE	2017-09-13	00:55	3.1	WNW	2017-09-13	08:05	0	---
2017-09-12	17:50	1.3	N	2017-09-13	01:00	1.3	NW	2017-09-13	08:10	2.7	WNW
2017-09-12	17:55	2.7	NE	2017-09-13	01:05	2.7	WNW	2017-09-13	08:15	0.4	NNE
2017-09-12	18:00	3.6	ENE	2017-09-13	01:10	1.8	NW	2017-09-13	08:20	1.3	NW
2017-09-12	18:05	1.3	NNE	2017-09-13	01:15	1.8	N	2017-09-13	08:25	0.9	N
2017-09-12	18:10	2.7	N	2017-09-13	01:20	1.8	W	2017-09-13	08:30	2.2	NE
2017-09-12	18:15	2.7	E	2017-09-13	01:25	2.7	N	2017-09-13	08:35	1.3	NNW
2017-09-12	18:20	4	N	2017-09-13	01:30	1.3	NNW	2017-09-13	08:40	0.9	WSW
2017-09-12	18:25	2.2	E	2017-09-13	01:35	1.3	N	2017-09-13	08:45	1.3	WNW
2017-09-12	18:30	2.2	N	2017-09-13	01:40	1.3	NW	2017-09-13	08:50	1.8	NW
2017-09-12	18:35	4	NE	2017-09-13	01:45	1.3	NNW	2017-09-13	08:55	0.4	NW
2017-09-12	18:40	2.2	NE	2017-09-13	01:50	1.3	E	2017-09-13	09:00	2.2	WNW
2017-09-12	18:45	3.1	E	2017-09-13	01:55	0.9	NE	2017-09-13	09:05	2.2	WNW
2017-09-12	18:50	1.3	ENE	2017-09-13	02:00	0.9	NE	2017-09-13	09:10	2.2	WNW
2017-09-12	18:55	1.8	NNE	2017-09-13	02:05	1.3	NNE	2017-09-13	09:15	0.9	NW
2017-09-12	19:00	2.2	NE	2017-09-13	02:10	1.8	NNW	2017-09-13	09:20	1.3	NNW
2017-09-12	19:05	0.4	NE	2017-09-13	02:15	2.2	NNW	2017-09-13	09:25	2.2	NNW
2017-09-12	19:10	3.1	NE	2017-09-13	02:20	0	---	2017-09-13	09:30	0.4	NNE
2017-09-12	19:15	3.1	NE	2017-09-13	02:25	1.3	NNW	2017-09-13	09:35	0	---
2017-09-12	19:20	4	NE	2017-09-13	02:30	1.8	WNW	2017-09-13	09:40	2.7	WNW
2017-09-12	19:25	2.2	NE	2017-09-13	02:35	0.4	NNE	2017-09-13	09:45	2.2	NW
2017-09-12	19:30	3.1	N	2017-09-13	02:40	2.7	NNW	2017-09-13	09:50	2.2	W
2017-09-12	19:35	2.2	NNW	2017-09-13	02:45	0.9	NW	2017-09-13	09:55	2.7	W
2017-09-12	19:40	2.7	NNW	2017-09-13	02:50	3.1	E	2017-09-13	10:00	1.8	NW
2017-09-12	19:45	3.6	NNW	2017-09-13	02:55	3.1	NE	2017-09-13	10:05	1.8	E
2017-09-12	19:50	2.7	NE	2017-09-13	03:00	1.8	WNW	2017-09-13	10:10	3.6	N
2017-09-12	19:55	0.9	ENE	2017-09-13	03:05	1.8	NW	2017-09-13	10:15	0.9	E
2017-09-12	20:00	0.9	ESE	2017-09-13	03:10	2.7	W	2017-09-13	10:20	0.9	WNW
2017-09-12	20:05	3.1	E	2017-09-13	03:15	1.8	NW	2017-09-13	10:25	2.7	NE
2017-09-12	20:10	3.1	NE	2017-09-13	03:20	3.1	NW	2017-09-13	10:30	2.2	NW
2017-09-12	20:15	2.2	NE	2017-09-13	03:25	1.8	NE	2017-09-13	10:35	1.8	WNW
2017-09-12	20:20	1.8	E	2017-09-13	03:30	1.3	E	2017-09-13	10:40	2.7	NNW
2017-09-12	20:25	2.7	NNW	2017-09-13	03:35	1.3	NW	2017-09-13	10:45	0.9	N
2017-09-12	20:30	0.9	NE	2017-09-13	03:40	1.8	NW	2017-09-13	10:50	0.9	NE
2017-09-12	20:35	3.1	NE	2017-09-13	03:45	1.3	NNE	2017-09-13	10:55	2.7	NW
2017-09-12	20:40	2.7	NE	2017-09-13	03:50	3.1	WNW	2017-09-13	11:00	1.3	NNE
2017-09-12	20:45	0.4	SE	2017-09-13	03:55	1.8	N	2017-09-13	11:05	1.3	N
2017-09-12	20:50	2.7	NE	2017-09-13	04:00	0	NW	2017-09-13	11:10	2.7	WNW
2017-09-12	20:55	1.3	NE	2017-09-13	04:05	1.8	NNW	2017-09-13	11:15	0	---
2017-09-12	21:00	2.2	N	2017-09-13	04:10	0.9	ENE	2017-09-13	11:20	1.3	NNE
2017-09-12	21:05	2.2	N	2017-09-13	04:15	1.3	NW	2017-09-13	11:25	2.2	WNW
2017-09-12	21:10	2.2	NE	2017-09-13	04:20	2.2	WNW	2017-09-13	11:30	1.8	NNW
2017-09-12	21:15	1.3	NE	2017-09-13	04:25	0.4	SSW	2017-09-13	11:35	0.9	NE
2017-09-12	21:20	1.3	NW	2017-09-13	04:30	0	NW	2017-09-13	11:40	3.1	E
2017-09-12	21:25	2.2	E	2017-09-13	04:35	1.3	E	2017-09-13	11:45	0.4	NNE
2017-09-12	21:30	2.2	E	2017-09-13	04:40	1.3	NW	2017-09-13	11:50	1.8	WNW
2017-09-12	21:35	2.2	NNE	2017-09-13	04:45	2.2	NW	2017-09-13	11:55	1.8	WNW
2017-09-12	21:40	1.3	N	2017-09-13	04:50	2.2	WNW	2017-09-13	12:00	0.9	N
2017-09-12	21:45	2.2	NE	2017-09-13	04:55	0.9	NW	2017-09-13	12:05	3.1	NE
2017-09-12	21:50	2.7	NNE	2017-09-13	05:00	1.3	N	2017-09-13	12:10	1.3	WNW
2017-09-12	21:55	1.8	ENE	2017-09-13	05:05	0.9	NE	2017-09-13	12:15	1.8	NW
2017-09-12	22:00	3.1	NE	2017-09-13	05:10	2.2	NNW	2017-09-13	12:20	1.3	NNE
2017-09-12	22:05	3.1	N	2017-09-13	05:15	2.7	W	2017-09-13	12:25	0.4	NW
2017-09-12	22:10	2.7	NE	2017-09-13	05:20	1.3	WNW	2017-09-13	12:30	2.7	NE
2017-09-12	22:15	3.1	NE	2017-09-13	05:25	0.4	NW	2017-09-13	12:35	1.8	WNW
2017-09-12	22:20	0.9	SSE	2017-09-13	05:30	2.2	NNW	2017-09-13	12:40	0.9	N
2017-09-12	22:25	2.2	ENE	2017-09-13	05:35	0.9	NNE	2017-09-13	12:45	0.9	WNW
2017-09-12	22:30	2.2	NE	2017-09-13	05:40	0	NW	2017-09-13	12:50	1.8	NNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-13	12:55	2.7	E	2017-09-13	20:05	2.2	ENE	2017-09-14	03:15	4	WSW
2017-09-13	13:00	2.2	NW	2017-09-13	20:10	0.9	N	2017-09-14	03:20	3.1	E
2017-09-13	13:05	2.7	W	2017-09-13	20:15	0.4	NW	2017-09-14	03:25	0.9	E
2017-09-13	13:10	1.8	WNW	2017-09-13	20:20	2.2	WNW	2017-09-14	03:30	1.3	E
2017-09-13	13:15	1.8	NW	2017-09-13	20:25	1.8	NNW	2017-09-14	03:35	1.8	E
2017-09-13	13:20	1.8	W	2017-09-13	20:30	2.2	WNW	2017-09-14	03:40	3.1	E
2017-09-13	13:25	1.8	W	2017-09-13	20:35	3.1	NNW	2017-09-14	03:45	2.2	ENE
2017-09-13	13:30	2.2	NNW	2017-09-13	20:40	1.8	NNW	2017-09-14	03:50	0.4	NW
2017-09-13	13:35	1.8	NNW	2017-09-13	20:45	2.7	NW	2017-09-14	03:55	0.9	E
2017-09-13	13:40	1.8	W	2017-09-13	20:50	1.3	NNW	2017-09-14	04:00	1.8	ENE
2017-09-13	13:45	0.9	NE	2017-09-13	20:55	1.3	WNW	2017-09-14	04:05	1.3	E
2017-09-13	13:50	3.6	N	2017-09-13	21:00	0.9	NW	2017-09-14	04:10	0.9	E
2017-09-13	13:55	1.3	NW	2017-09-13	21:05	1.8	WNW	2017-09-14	04:15	2.2	E
2017-09-13	14:00	0.4	NNE	2017-09-13	21:10	1.3	W	2017-09-14	04:20	0.4	ESE
2017-09-13	14:05	1.3	WNW	2017-09-13	21:15	1.3	N	2017-09-14	04:25	0.4	E
2017-09-13	14:10	2.2	NNW	2017-09-13	21:20	2.2	WNW	2017-09-14	04:30	0.9	ESE
2017-09-13	14:15	2.2	WNW	2017-09-13	21:25	1.3	NW	2017-09-14	04:35	0.4	E
2017-09-13	14:20	1.3	NW	2017-09-13	21:30	1.8	WNW	2017-09-14	04:40	1.3	E
2017-09-13	14:25	2.2	NW	2017-09-13	21:35	1.3	N	2017-09-14	04:45	1.3	E
2017-09-13	14:30	3.1	NE	2017-09-13	21:40	1.8	ESE	2017-09-14	04:50	2.2	ENE
2017-09-13	14:35	1.3	NW	2017-09-13	21:45	0.9	NNE	2017-09-14	04:55	3.1	NE
2017-09-13	14:40	1.3	ESE	2017-09-13	21:50	2.2	WNW	2017-09-14	05:00	2.2	ENE
2017-09-13	14:45	1.3	NNW	2017-09-13	21:55	0.9	N	2017-09-14	05:05	0.9	ESE
2017-09-13	14:50	0.9	W	2017-09-13	22:00	2.2	W	2017-09-14	05:10	0.9	ESE
2017-09-13	14:55	1.8	WNW	2017-09-13	22:05	1.3	NNE	2017-09-14	05:15	0.4	N
2017-09-13	15:00	1.3	W	2017-09-13	22:10	2.2	WNW	2017-09-14	05:20	5.4	W
2017-09-13	15:05	2.7	NNW	2017-09-13	22:15	1.3	NNE	2017-09-14	05:25	0.4	SSE
2017-09-13	15:10	2.2	W	2017-09-13	22:20	1.8	SE	2017-09-14	05:30	0.9	ESE
2017-09-13	15:15	1.3	NNW	2017-09-13	22:25	1.8	E	2017-09-14	05:35	0.9	ESE
2017-09-13	15:20	0	---	2017-09-13	22:30	1.8	N	2017-09-14	05:40	0.4	E
2017-09-13	15:25	1.8	NW	2017-09-13	22:35	0	NNE	2017-09-14	05:45	0.4	SE
2017-09-13	15:30	2.2	NW	2017-09-13	22:40	0.9	NW	2017-09-14	05:50	0.4	E
2017-09-13	15:35	1.3	NW	2017-09-13	22:45	0.9	NNE	2017-09-14	05:55	0.4	SSW
2017-09-13	15:40	1.8	NNW	2017-09-13	22:50	1.8	WNW	2017-09-14	06:00	1.3	WSW
2017-09-13	15:45	1.3	WNW	2017-09-13	22:55	2.2	E	2017-09-14	06:05	4	W
2017-09-13	15:50	2.7	NW	2017-09-13	23:00	0	---	2017-09-14	06:10	0.4	NNE
2017-09-13	15:55	0.9	N	2017-09-13	23:05	2.2	WSW	2017-09-14	06:15	1.8	NE
2017-09-13	16:00	0.9	W	2017-09-13	23:10	1.3	NW	2017-09-14	06:20	0.9	E
2017-09-13	16:05	1.8	WNW	2017-09-13	23:15	0.4	W	2017-09-14	06:25	1.3	NE
2017-09-13	16:10	1.8	NW	2017-09-13	23:20	2.2	WNW	2017-09-14	06:30	2.2	ENE
2017-09-13	16:15	2.7	NW	2017-09-13	23:25	2.2	WSW	2017-09-14	06:35	1.3	E
2017-09-13	16:20	1.8	WNW	2017-09-13	23:30	2.7	WNW	2017-09-14	06:40	0.9	E
2017-09-13	16:25	1.3	NW	2017-09-13	23:35	0.9	SW	2017-09-14	06:45	0.9	ESE
2017-09-13	16:30	2.2	NNW	2017-09-13	23:40	2.2	W	2017-09-14	06:50	0.9	N
2017-09-13	16:35	3.1	NNW	2017-09-13	23:45	1.8	N	2017-09-14	06:55	0.9	ESE
2017-09-13	16:40	1.3	NNW	2017-09-13	23:50	1.3	WNW	2017-09-14	07:00	0.4	E
2017-09-13	16:45	0.9	W	2017-09-13	23:55	0.9	W	2017-09-14	07:05	0.9	ESE
2017-09-13	16:50	2.2	NW	2017-09-14	00:00	0.9	N	2017-09-14	07:10	4.9	WSW
2017-09-13	16:55	1.8	WNW	2017-09-14	00:05	0.9	ESE	2017-09-14	07:15	0.4	NNE
2017-09-13	17:00	1.8	N	2017-09-14	00:10	1.3	NNW	2017-09-14	07:20	2.2	ENE
2017-09-13	17:05	0.9	NNW	2017-09-14	00:15	0.4	E	2017-09-14	07:25	0.9	WNW
2017-09-13	17:10	1.8	N	2017-09-14	00:20	1.3	SW	2017-09-14	07:30	1.3	ESE
2017-09-13	17:15	2.2	ENE	2017-09-14	00:25	0.4	SSW	2017-09-14	07:35	1.3	NNW
2017-09-13	17:20	0.9	WSW	2017-09-14	00:30	0.4	NNE	2017-09-14	07:40	2.2	ENE
2017-09-13	17:25	0.9	NE	2017-09-14	00:35	0.4	E	2017-09-14	07:45	1.3	E
2017-09-13	17:30	1.3	WSW	2017-09-14	00:40	3.1	WSW	2017-09-14	07:50	0.9	ESE
2017-09-13	17:35	1.8	NNW	2017-09-14	00:45	1.3	SW	2017-09-14	07:55	0.9	ESE
2017-09-13	17:40	0.9	NE	2017-09-14	00:50	1.3	NNE	2017-09-14	08:00	0.9	ENE
2017-09-13	17:45	0.9	WNW	2017-09-14	00:55	0.4	E	2017-09-14	08:05	0.4	ESE
2017-09-13	17:50	1.3	NNW	2017-09-14	01:00	0.9	ESE	2017-09-14	08:10	3.1	ENE
2017-09-13	17:55	0.9	WNW	2017-09-14	01:05	0.9	ENE	2017-09-14	08:15	0.9	N
2017-09-13	18:00	1.8	ESE	2017-09-14	01:10	0.9	ESE	2017-09-14	08:20	0.9	ESE
2017-09-13	18:05	2.2	NNW	2017-09-14	01:15	1.8	E	2017-09-14	08:25	1.8	ENE
2017-09-13	18:10	1.8	NNW	2017-09-14	01:20	0.4	NNE	2017-09-14	08:30	0.9	E
2017-09-13	18:15	0.9	WNW	2017-09-14	01:25	1.3	ENE	2017-09-14	08:35	1.3	E
2017-09-13	18:20	0.9	NW	2017-09-14	01:30	2.2	ENE	2017-09-14	08:40	0.9	E
2017-09-13	18:25	2.2	WNW	2017-09-14	01:35	1.8	ENE	2017-09-14	08:45	2.7	NE
2017-09-13	18:30	1.3	E	2017-09-14	01:40	2.2	E	2017-09-14	08:50	1.3	E
2017-09-13	18:35	3.6	E	2017-09-14	01:45	1.3	E	2017-09-14	08:55	0.4	NNE
2017-09-13	18:40	0.9	E	2017-09-14	01:50	0.9	ESE	2017-09-14	09:00	0.9	E
2017-09-13	18:45	1.3	WSW	2017-09-14	01:55	2.2	ENE	2017-09-14	09:05	2.2	NE
2017-09-13	18:50	1.8	N	2017-09-14	02:00	0.4	NNE	2017-09-14	09:10	0.4	N
2017-09-13	18:55	1.8	N	2017-09-14	02:05	0.4	NNE	2017-09-14	09:15	1.8	E
2017-09-13	19:00	1.3	WNW	2017-09-14	02:10	2.7	NE	2017-09-14	09:20	2.7	NE
2017-09-13	19:05	2.7	NW	2017-09-14	02:15	3.1	NE	2017-09-14	09:25	1.3	E
2017-09-13	19:10	2.2	N	2017-09-14	02:20	1.8	E	2017-09-14	09:30	1.3	E
2017-09-13	19:15	0	NNE	2017-09-14	02:25	1.3	E	2017-09-14	09:35	0.4	NNE
2017-09-13	19:20	2.2	NNW	2017-09-14	02:30	1.3	SW	2017-09-14	09:40	0.4	E
2017-09-13	19:25	1.3	NNW	2017-09-14	02:35	0.4	E	2017-09-14	09:45	1.3	E
2017-09-13	19:30	1.8	SSE	2017-09-14	02:40	0.4	E	2017-09-14	09:50	0.4	ESE
2017-09-13	19:35	2.2	W	2017-09-14	02:45	2.2	ENE	2017-09-14	09:55	0.4	SSW
2017-09-13	19:40	1.8	E	2017-09-14	02:50	1.3	NNE	2017-09-14	10:00	0.4	NNE
2017-09-13	19:45	2.2	NW	2017-09-14	02:55	0.9	ESE	2017-09-14	10:05	2.2	E
2017-09-13	19:50	1.8	NW	2017-09-14	03:00	0.4	NNE	2017-09-14	10:10	0.9	E
2017-09-13	19:55	0.4	SW	2017-09-14	03:05	0.9	ESE	2017-09-14	10:15	0.4	NNE
2017-09-13	20:00	2.2	NNW	2017-09-14	03:10	0.4	SSW	2017-09-14	10:20	1.8	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-14	10:25	1.3	ENE	2017-09-14	17:35	3.1	NE	2017-09-15	00:45	0.9	SSE
2017-09-14	10:30	0.4	NNE	2017-09-14	17:40	1.8	NE	2017-09-15	00:50	0.9	SSE
2017-09-14	10:35	1.8	E	2017-09-14	17:45	1.3	E	2017-09-15	00:55	0.4	SE
2017-09-14	10:40	1.3	ESE	2017-09-14	17:50	1.8	W	2017-09-15	01:00	1.3	N
2017-09-14	10:45	1.3	E	2017-09-14	17:55	1.3	E	2017-09-15	01:05	2.7	WNW
2017-09-14	10:50	2.2	NE	2017-09-14	18:00	0.9	ESE	2017-09-15	01:10	2.2	N
2017-09-14	10:55	1.3	ENE	2017-09-14	18:05	0.4	ESE	2017-09-15	01:15	0.4	SE
2017-09-14	11:00	1.3	N	2017-09-14	18:10	4.5	WSW	2017-09-15	01:20	1.3	WSW
2017-09-14	11:05	1.8	NNE	2017-09-14	18:15	0.4	E	2017-09-15	01:25	0.9	ESE
2017-09-14	11:10	1.8	E	2017-09-14	18:20	1.3	E	2017-09-15	01:30	2.7	WSW
2017-09-14	11:15	1.3	E	2017-09-14	18:25	2.2	E	2017-09-15	01:35	0.4	SE
2017-09-14	11:20	2.2	NE	2017-09-14	18:30	0.4	E	2017-09-15	01:40	1.8	N
2017-09-14	11:25	0.9	ESE	2017-09-14	18:35	0.4	E	2017-09-15	01:45	0.4	SSW
2017-09-14	11:30	1.8	WSW	2017-09-14	18:40	0.4	E	2017-09-15	01:50	0.9	S
2017-09-14	11:35	2.2	E	2017-09-14	18:45	0.9	E	2017-09-15	01:55	1.8	ESE
2017-09-14	11:40	0.9	E	2017-09-14	18:50	0.9	ESE	2017-09-15	02:00	2.7	W
2017-09-14	11:45	0.4	NNE	2017-09-14	18:55	2.2	NE	2017-09-15	02:05	1.3	NNE
2017-09-14	11:50	1.8	N	2017-09-14	19:00	0.4	E	2017-09-15	02:10	0.4	SSW
2017-09-14	11:55	1.3	SE	2017-09-14	19:05	1.3	E	2017-09-15	02:15	1.8	NE
2017-09-14	12:00	2.2	WSW	2017-09-14	19:10	2.2	WSW	2017-09-15	02:20	0.4	SE
2017-09-14	12:05	1.3	ENE	2017-09-14	19:15	3.1	WSW	2017-09-15	02:25	1.3	SSW
2017-09-14	12:10	2.7	WSW	2017-09-14	19:20	1.3	SSW	2017-09-15	02:30	0.4	SE
2017-09-14	12:15	0.4	SSW	2017-09-14	19:25	2.2	WSW	2017-09-15	02:35	0.9	SSW
2017-09-14	12:20	2.7	NE	2017-09-14	19:30	1.3	ENE	2017-09-15	02:40	1.8	NNE
2017-09-14	12:25	2.7	NE	2017-09-14	19:35	2.2	WSW	2017-09-15	02:45	0.4	WSW
2017-09-14	12:30	1.3	E	2017-09-14	19:40	0.9	NW	2017-09-15	02:50	0.4	SSW
2017-09-14	12:35	1.3	SW	2017-09-14	19:45	1.8	ENE	2017-09-15	02:55	0.4	SSW
2017-09-14	12:40	1.3	NNW	2017-09-14	19:50	0.9	ESE	2017-09-15	03:00	1.3	NNW
2017-09-14	12:45	0.9	E	2017-09-14	19:55	0.4	N	2017-09-15	03:05	0.9	ESE
2017-09-14	12:50	1.8	ENE	2017-09-14	20:00	0.9	SSE	2017-09-15	03:10	0.4	SE
2017-09-14	12:55	0.4	NNE	2017-09-14	20:05	0.9	E	2017-09-15	03:15	1.8	N
2017-09-14	13:00	0.4	NNE	2017-09-14	20:10	1.3	E	2017-09-15	03:20	1.3	NE
2017-09-14	13:05	0.9	ESE	2017-09-14	20:15	1.8	E	2017-09-15	03:25	0.4	SSW
2017-09-14	13:10	0.4	E	2017-09-14	20:20	0.4	SSW	2017-09-15	03:30	2.7	WSW
2017-09-14	13:15	1.3	N	2017-09-14	20:25	0.9	SSE	2017-09-15	03:35	1.3	WSW
2017-09-14	13:20	2.2	WSW	2017-09-14	20:30	0.9	E	2017-09-15	03:40	1.3	E
2017-09-14	13:25	0.9	N	2017-09-14	20:35	1.3	E	2017-09-15	03:45	0.9	SSW
2017-09-14	13:30	0.4	ENE	2017-09-14	20:40	1.8	NE	2017-09-15	03:50	0.4	SSW
2017-09-14	13:35	0.9	ESE	2017-09-14	20:45	1.3	N	2017-09-15	03:55	1.3	N
2017-09-14	13:40	1.8	WSW	2017-09-14	20:50	0.9	N	2017-09-15	04:00	0.9	S
2017-09-14	13:45	0.4	NNE	2017-09-14	20:55	2.7	WSW	2017-09-15	04:05	1.3	SW
2017-09-14	13:50	1.8	N	2017-09-14	21:00	0.9	E	2017-09-15	04:10	0.4	SE
2017-09-14	13:55	1.3	E	2017-09-14	21:05	2.7	NE	2017-09-15	04:15	0.4	SSW
2017-09-14	14:00	1.3	E	2017-09-14	21:10	3.1	E	2017-09-15	04:20	1.3	NNE
2017-09-14	14:05	0.4	E	2017-09-14	21:15	0.4	N	2017-09-15	04:25	0.9	ESE
2017-09-14	14:10	0.4	NNE	2017-09-14	21:20	0.4	E	2017-09-15	04:30	1.3	WNW
2017-09-14	14:15	0.4	NW	2017-09-14	21:25	1.8	N	2017-09-15	04:35	0.9	E
2017-09-14	14:20	2.2	NE	2017-09-14	21:30	1.3	SW	2017-09-15	04:40	1.8	NNW
2017-09-14	14:25	2.7	NE	2017-09-14	21:35	1.3	E	2017-09-15	04:45	1.8	SSW
2017-09-14	14:30	2.7	W	2017-09-14	21:40	1.8	E	2017-09-15	04:50	0.4	E
2017-09-14	14:35	0.9	E	2017-09-14	21:45	1.3	ENE	2017-09-15	04:55	2.2	WNW
2017-09-14	14:40	4.9	W	2017-09-14	21:50	1.8	E	2017-09-15	05:00	1.3	SSW
2017-09-14	14:45	1.3	E	2017-09-14	21:55	0.4	E	2017-09-15	05:05	2.7	N
2017-09-14	14:50	1.3	ENE	2017-09-14	22:00	2.2	ENE	2017-09-15	05:10	0.9	E
2017-09-14	14:55	0.4	E	2017-09-14	22:05	1.3	ENE	2017-09-15	05:15	2.7	WSW
2017-09-14	15:00	1.3	ENE	2017-09-14	22:10	0.4	ESE	2017-09-15	05:20	0.4	E
2017-09-14	15:05	2.2	SW	2017-09-14	22:15	1.8	ENE	2017-09-15	05:25	2.2	W
2017-09-14	15:10	0.4	E	2017-09-14	22:20	4.5	WSW	2017-09-15	05:30	0.9	E
2017-09-14	15:15	1.8	N	2017-09-14	22:25	1.3	NW	2017-09-15	05:35	1.8	NE
2017-09-14	15:20	1.3	NE	2017-09-14	22:30	1.3	E	2017-09-15	05:40	1.3	N
2017-09-14	15:25	0.4	N	2017-09-14	22:35	3.1	NE	2017-09-15	05:45	2.7	WSW
2017-09-14	15:30	2.2	ENE	2017-09-14	22:40	0.4	E	2017-09-15	05:50	0.9	SSW
2017-09-14	15:35	0.9	N	2017-09-14	22:45	0.9	E	2017-09-15	05:55	2.2	W
2017-09-14	15:40	0.4	SE	2017-09-14	22:50	5.4	W	2017-09-15	06:00	2.2	W
2017-09-14	15:45	0.4	NNE	2017-09-14	22:55	0.4	E	2017-09-15	06:05	1.3	NE
2017-09-14	15:50	1.3	N	2017-09-14	23:00	2.2	ENE	2017-09-15	06:10	1.3	E
2017-09-14	15:55	0.9	ENE	2017-09-14	23:05	0.9	SE	2017-09-15	06:15	1.8	W
2017-09-14	16:00	0.4	E	2017-09-14	23:10	0.9	NNE	2017-09-15	06:20	1.8	NNE
2017-09-14	16:05	0.9	E	2017-09-14	23:15	0.4	E	2017-09-15	06:25	0.4	SSW
2017-09-14	16:10	4.5	W	2017-09-14	23:20	2.2	E	2017-09-15	06:30	1.3	NW
2017-09-14	16:15	1.3	E	2017-09-14	23:25	2.7	NE	2017-09-15	06:35	1.3	SSW
2017-09-14	16:20	0.4	N	2017-09-14	23:30	0.9	ESE	2017-09-15	06:40	2.7	WSW
2017-09-14	16:25	0.9	N	2017-09-14	23:35	1.3	E	2017-09-15	06:45	0.4	WNW
2017-09-14	16:30	2.2	ENE	2017-09-14	23:40	0.4	NNE	2017-09-15	06:50	0.4	E
2017-09-14	16:35	0.9	ESE	2017-09-14	23:45	1.8	W	2017-09-15	06:55	1.8	NNE
2017-09-14	16:40	1.3	SW	2017-09-14	23:50	0.4	NNE	2017-09-15	07:00	1.3	WNW
2017-09-14	16:45	1.3	ENE	2017-09-14	23:55	0.9	ESE	2017-09-15	07:05	2.7	WSW
2017-09-14	16:50	0.9	ESE	2017-09-15	00:00	2.7	WSW	2017-09-15	07:10	1.3	ENE
2017-09-14	16:55	0.4	E	2017-09-15	00:05	2.2	W	2017-09-15	07:15	1.3	ENE
2017-09-14	17:00	0.9	ESE	2017-09-15	00:10	0.9	SSW	2017-09-15	07:20	0.4	SE
2017-09-14	17:05	0.4	E	2017-09-15	00:15	1.3	WSW	2017-09-15	07:25	1.3	E
2017-09-14	17:10	0.9	ESE	2017-09-15	00:20	1.3	E	2017-09-15	07:30	0.4	SSW
2017-09-14	17:15	2.2	ENE	2017-09-15	00:25	0.4	SSW	2017-09-15	07:35	1.3	ENE
2017-09-14	17:20	0.9	NNW	2017-09-15	00:30	0.4	S	2017-09-15	07:40	1.8	NNE
2017-09-14	17:25	0.4	SSW	2017-09-15	00:35	1.8	NNW	2017-09-15	07:45	1.3	SSW
2017-09-14	17:30	0.9	ESE	2017-09-15	00:40	1.3	ESE	2017-09-15	07:50	1.8	W

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-15	07:55	1.8	NW	2017-09-15	15:05	1.3	SSW	2017-09-15	22:15	1.8	SSW
2017-09-15	08:00	0.4	SE	2017-09-15	15:10	1.3	E	2017-09-15	22:20	1.3	WSW
2017-09-15	08:05	1.8	NNE	2017-09-15	15:15	1.8	NNW	2017-09-15	22:25	0.9	S
2017-09-15	08:10	2.2	W	2017-09-15	15:20	0.4	SE	2017-09-15	22:30	1.3	WSW
2017-09-15	08:15	0.4	SSW	2017-09-15	15:25	0.9	SE	2017-09-15	22:35	0.4	SSW
2017-09-15	08:20	0.4	SSW	2017-09-15	15:30	1.8	SW	2017-09-15	22:40	0.9	SSW
2017-09-15	08:25	0.4	E	2017-09-15	15:35	0.4	SSW	2017-09-15	22:45	0.9	S
2017-09-15	08:30	1.8	N	2017-09-15	15:40	2.7	WSW	2017-09-15	22:50	1.3	N
2017-09-15	08:35	2.2	W	2017-09-15	15:45	0.9	SSE	2017-09-15	22:55	0.4	SSW
2017-09-15	08:40	0.9	SSW	2017-09-15	15:50	1.8	SSW	2017-09-15	23:00	1.3	E
2017-09-15	08:45	1.8	ESE	2017-09-15	15:55	0.9	SSW	2017-09-15	23:05	2.2	W
2017-09-15	08:50	0.9	SSW	2017-09-15	16:00	0.9	ESE	2017-09-15	23:10	2.2	W
2017-09-15	08:55	0.9	E	2017-09-15	16:05	1.3	WSW	2017-09-15	23:15	0.9	SSE
2017-09-15	09:00	0.9	ESE	2017-09-15	16:10	0.4	SSW	2017-09-15	23:20	0.9	WSW
2017-09-15	09:05	0.4	ESE	2017-09-15	16:15	0.4	SSW	2017-09-15	23:25	0.4	SSW
2017-09-15	09:10	0.4	SE	2017-09-15	16:20	0.4	SSW	2017-09-15	23:30	0.9	SE
2017-09-15	09:15	1.3	SW	2017-09-15	16:25	1.8	SSW	2017-09-15	23:35	0.9	ESE
2017-09-15	09:20	1.8	NNW	2017-09-15	16:30	0.9	NW	2017-09-15	23:40	1.8	NNE
2017-09-15	09:25	0.4	SSW	2017-09-15	16:35	1.8	NNW	2017-09-15	23:45	0.4	SSW
2017-09-15	09:30	1.3	S	2017-09-15	16:40	0.9	SSW	2017-09-15	23:50	2.2	N
2017-09-15	09:35	0.9	S	2017-09-15	16:45	2.2	ENE	2017-09-15	23:55	1.3	SSW
2017-09-15	09:40	0.4	SE	2017-09-15	16:50	0.4	S	2017-09-16	00:00	0.4	SSW
2017-09-15	09:45	0.4	SSW	2017-09-15	16:55	0.9	NNW	2017-09-16	00:05	3.6	NW
2017-09-15	09:50	1.3	SSW	2017-09-15	17:00	0.9	E	2017-09-16	00:10	2.7	WSW
2017-09-15	09:55	1.8	N	2017-09-15	17:05	2.2	W	2017-09-16	00:15	3.6	NW
2017-09-15	10:00	1.3	NE	2017-09-15	17:10	1.3	SSW	2017-09-16	00:20	1.3	NW
2017-09-15	10:05	0.9	NW	2017-09-15	17:15	0.4	SE	2017-09-16	00:25	3.6	ENE
2017-09-15	10:10	2.2	N	2017-09-15	17:20	1.8	NE	2017-09-16	00:30	2.2	ENE
2017-09-15	10:15	1.3	WSW	2017-09-15	17:25	0.9	SSW	2017-09-16	00:35	2.7	W
2017-09-15	10:20	0.4	SE	2017-09-15	17:30	0.4	ESE	2017-09-16	00:40	5.4	E
2017-09-15	10:25	1.3	NNE	2017-09-15	17:35	0.9	S	2017-09-16	00:45	2.2	E
2017-09-15	10:30	0.4	SSW	2017-09-15	17:40	0.9	SSW	2017-09-16	00:50	4.5	NE
2017-09-15	10:35	0.9	N	2017-09-15	17:45	2.2	W	2017-09-16	00:55	4.5	E
2017-09-15	10:40	1.8	NNE	2017-09-15	17:50	0.9	SSW	2017-09-16	01:00	1.8	NNW
2017-09-15	10:45	1.8	SSW	2017-09-15	17:55	0.4	SSW	2017-09-16	01:05	1.8	S
2017-09-15	10:50	1.3	WSW	2017-09-15	18:00	1.8	NNE	2017-09-16	01:10	2.7	ENE
2017-09-15	10:55	0.9	S	2017-09-15	18:05	0.9	SSW	2017-09-16	01:15	1.8	NNE
2017-09-15	11:00	0.4	SSW	2017-09-15	18:10	0.4	SSW	2017-09-16	01:20	2.2	WSW
2017-09-15	11:05	0.4	SSE	2017-09-15	18:15	0.9	ESE	2017-09-16	01:25	6.7	ENE
2017-09-15	11:10	0.9	SSW	2017-09-15	18:20	0.4	SSW	2017-09-16	01:30	2.2	NW
2017-09-15	11:15	2.2	W	2017-09-15	18:25	1.3	WSW	2017-09-16	01:35	4.9	ENE
2017-09-15	11:20	2.7	W	2017-09-15	18:30	1.8	NNE	2017-09-16	01:40	2.2	WNW
2017-09-15	11:25	2.7	WNW	2017-09-15	18:35	1.8	W	2017-09-16	01:45	1.8	SSW
2017-09-15	11:30	0.4	SSW	2017-09-15	18:40	1.3	SSW	2017-09-16	01:50	3.6	NW
2017-09-15	11:35	1.3	ESE	2017-09-15	18:45	1.8	SSW	2017-09-16	01:55	2.7	ENE
2017-09-15	11:40	0.4	ESE	2017-09-15	18:50	0.4	SE	2017-09-16	02:00	2.2	WSW
2017-09-15	11:45	0.9	SSE	2017-09-15	18:55	1.3	WSW	2017-09-16	02:05	4.9	ENE
2017-09-15	11:50	0.9	SSW	2017-09-15	19:00	0.4	SE	2017-09-16	02:10	4.9	E
2017-09-15	11:55	0.9	SSE	2017-09-15	19:05	0.9	SSW	2017-09-16	02:15	1.8	W
2017-09-15	12:00	0.9	SSW	2017-09-15	19:10	1.8	N	2017-09-16	02:20	4.5	ENE
2017-09-15	12:05	1.8	N	2017-09-15	19:15	0.9	SSW	2017-09-16	02:25	4.9	ENE
2017-09-15	12:10	1.3	WSW	2017-09-15	19:20	0.4	SSW	2017-09-16	02:30	2.7	ENE
2017-09-15	12:15	2.2	WNW	2017-09-15	19:25	1.3	N	2017-09-16	02:35	4	ENE
2017-09-15	12:20	1.8	NE	2017-09-15	19:30	1.8	WNW	2017-09-16	02:40	2.2	WNW
2017-09-15	12:25	1.3	NNE	2017-09-15	19:35	0.4	SE	2017-09-16	02:45	4.5	NE
2017-09-15	12:30	0.4	NNW	2017-09-15	19:40	0.4	NE	2017-09-16	02:50	2.2	WNW
2017-09-15	12:35	0.4	SSW	2017-09-15	19:45	1.3	N	2017-09-16	02:55	1.8	S
2017-09-15	12:40	1.3	WSW	2017-09-15	19:50	0.9	ESE	2017-09-16	03:00	5.8	ENE
2017-09-15	12:45	0.4	SSW	2017-09-15	19:55	0.9	SSW	2017-09-16	03:05	1.8	SSW
2017-09-15	12:50	0.4	SSW	2017-09-15	20:00	1.8	W	2017-09-16	03:10	1.3	ENE
2017-09-15	12:55	2.2	WNW	2017-09-15	20:05	0.4	E	2017-09-16	03:15	0.9	NE
2017-09-15	13:00	0.4	SSW	2017-09-15	20:10	0.4	SSW	2017-09-16	03:20	5.4	E
2017-09-15	13:05	0.4	SSW	2017-09-15	20:15	1.8	N	2017-09-16	03:25	0.9	NNE
2017-09-15	13:10	1.8	SSW	2017-09-15	20:20	1.3	WSW	2017-09-16	03:30	1.8	NNW
2017-09-15	13:15	1.8	NE	2017-09-15	20:25	1.3	NE	2017-09-16	03:35	4.5	E
2017-09-15	13:20	1.8	N	2017-09-15	20:30	0.9	SSE	2017-09-16	03:40	4	ENE
2017-09-15	13:25	0.4	E	2017-09-15	20:35	0.9	ESE	2017-09-16	03:45	3.6	ENE
2017-09-15	13:30	1.3	SSW	2017-09-15	20:40	0.9	SSW	2017-09-16	03:50	2.2	WNW
2017-09-15	13:35	1.3	WSW	2017-09-15	20:45	2.7	WSW	2017-09-16	03:55	2.2	WNW
2017-09-15	13:40	2.2	N	2017-09-15	20:50	0.4	SSW	2017-09-16	04:00	1.8	NNW
2017-09-15	13:45	0.9	SSE	2017-09-15	20:55	1.8	SSW	2017-09-16	04:05	2.2	WNW
2017-09-15	13:50	0.4	SE	2017-09-15	21:00	0.9	ESE	2017-09-16	04:10	2.2	W
2017-09-15	13:55	1.8	NE	2017-09-15	21:05	1.3	ESE	2017-09-16	04:15	1.8	S
2017-09-15	14:00	1.3	SSW	2017-09-15	21:10	2.7	WSW	2017-09-16	04:20	1.8	WNW
2017-09-15	14:05	3.6	W	2017-09-15	21:15	0.4	SE	2017-09-16	04:25	4	NE
2017-09-15	14:10	1.3	WSW	2017-09-15	21:20	0.4	SSW	2017-09-16	04:30	3.1	ENE
2017-09-15	14:15	1.3	SSW	2017-09-15	21:25	0.4	SSW	2017-09-16	04:35	1.3	SSW
2017-09-15	14:20	0.9	SSE	2017-09-15	21:30	0.9	S	2017-09-16	04:40	3.1	ENE
2017-09-15	14:25	0.4	WSW	2017-09-15	21:35	1.3	ENE	2017-09-16	04:45	2.2	WNW
2017-09-15	14:30	0.4	SSW	2017-09-15	21:40	1.3	WSW	2017-09-16	04:50	2.7	WSW
2017-09-15	14:35	0.9	S	2017-09-15	21:45	0.4	WSW	2017-09-16	04:55	1.3	ENE
2017-09-15	14:40	2.7	WSW	2017-09-15	21:50	1.3	NNE	2017-09-16	05:00	3.1	WSW
2017-09-15	14:45	1.8	NNE	2017-09-15	21:55	0.4	SSW	2017-09-16	05:05	4	ENE
2017-09-15	14:50	0.9	SSW	2017-09-15	22:00	0.4	SSW	2017-09-16	05:10	2.7	WSW
2017-09-15	14:55	2.7	WNW	2017-09-15	22:05	2.7	W	2017-09-16	05:15	2.2	WSW
2017-09-15	15:00	0.4	SSW	2017-09-15	22:10	0.4	SSW	2017-09-16	05:20	5.4	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-16	05:25	1.8	W	2017-09-16	12:30	2.2	WNW	2017-09-16	19:40	5.4	ENE
2017-09-16	05:30	3.6	ENE	2017-09-16	12:35	2.2	ENE	2017-09-16	19:45	5.4	E
2017-09-16	05:35	2.2	NW	2017-09-16	12:40	1.8	W	2017-09-16	19:50	4	ENE
				2017-09-16	12:45	2.7	NW	2017-09-16	19:55	2.7	WSW
2017-09-16	05:40	4.5	ENE	2017-09-16	12:50	2.7	WSW	2017-09-16	20:00	1.8	NNW
2017-09-16	05:45	3.6	NW	2017-09-16	12:55	4.5	E	2017-09-16	20:05	4.9	ENE
2017-09-16	05:50	2.7	ENE	2017-09-16	13:00	4	ENE	2017-09-16	20:10	6.7	E
2017-09-16	05:55	2.2	WNW	2017-09-16	13:05	2.2	WSW	2017-09-16	20:15	1.3	ENE
2017-09-16	06:00	5.4	ENE	2017-09-16	13:10	1.8	ENE	2017-09-16	20:20	4.5	ENE
2017-09-16	06:05	3.1	WSW	2017-09-16	13:15	1.8	SSW	2017-09-16	20:25	4.5	ENE
2017-09-16	06:10	3.6	NE	2017-09-16	13:20	2.7	WSW	2017-09-16	20:30	4.9	E
2017-09-16	06:15	2.2	NW	2017-09-16	13:25	4	NE	2017-09-16	20:35	4.5	E
2017-09-16	06:20	1.8	S	2017-09-16	13:30	1.8	ENE	2017-09-16	20:40	2.2	NW
2017-09-16	06:25	1.8	NNW	2017-09-16	13:35	2.2	ENE	2017-09-16	20:45	1.3	ENE
2017-09-16	06:30	4.9	E	2017-09-16	13:40	1.8	W	2017-09-16	20:50	2.7	ENE
2017-09-16	06:35	4.5	ENE	2017-09-16	13:45	4	ENE	2017-09-16	20:55	1.3	ENE
2017-09-16	06:40	3.1	WSW	2017-09-16	13:50	4.9	ENE	2017-09-16	21:00	3.1	NE
2017-09-16	06:45	2.2	WSW	2017-09-16	13:55	4	ENE	2017-09-16	21:05	5.4	ENE
2017-09-16	06:50	1.8	W	2017-09-16	14:00	2.7	WSW	2017-09-16	21:10	2.7	ENE
2017-09-16	06:55	3.6	NE	2017-09-16	14:05	1.8	W	2017-09-16	21:15	2.7	NW
2017-09-16	07:00	1.3	ENE	2017-09-16	14:10	1.8	NNW	2017-09-16	21:20	4	NE
2017-09-16	07:05	2.7	WSW	2017-09-16	14:15	4.5	ENE	2017-09-16	21:25	2.7	ENE
2017-09-16	07:10	1.8	W	2017-09-16	14:20	1.8	S	2017-09-16	21:30	2.7	WSW
2017-09-16	07:15	4.9	ENE	2017-09-16	14:25	4.5	ENE	2017-09-16	21:35	4	ENE
2017-09-16	07:20	1.8	SSW	2017-09-16	14:30	3.1	ENE	2017-09-16	21:40	0.9	WSW
2017-09-16	07:25	4.5	ENE	2017-09-16	14:35	6.3	E	2017-09-16	21:45	3.6	NE
2017-09-16	07:30	4.9	ENE	2017-09-16	14:40	3.6	NE	2017-09-16	21:50	2.2	WNW
2017-09-16	07:35	3.1	WSW	2017-09-16	14:45	2.2	NW	2017-09-16	21:55	0.9	NNE
2017-09-16	07:40	1.8	S	2017-09-16	14:50	4.5	ENE	2017-09-16	22:00	1.8	S
2017-09-16	07:45	2.7	ENE	2017-09-16	14:55	2.2	NW	2017-09-16	22:05	3.6	NW
2017-09-16	07:50	2.7	ENE	2017-09-16	15:00	2.7	ENE	2017-09-16	22:10	1.8	SSW
2017-09-16	07:55	1.8	SSW	2017-09-16	15:05	0.9	WSW	2017-09-16	22:15	4.5	ENE
2017-09-16	08:00	2.2	WNW	2017-09-16	15:10	2.7	ENE	2017-09-16	22:20	4	ENE
2017-09-16	08:05	2.7	NW	2017-09-16	15:15	4	ENE	2017-09-16	22:25	4	NE
2017-09-16	08:10	3.6	NW	2017-09-16	15:20	2.2	NW	2017-09-16	22:30	4.9	ENE
2017-09-16	08:15	4.5	ENE	2017-09-16	15:25	1.8	S	2017-09-16	22:35	1.8	W
2017-09-16	08:20	1.8	S	2017-09-16	15:30	2.2	WNW	2017-09-16	22:40	1.3	SSW
2017-09-16	08:25	5.4	ENE	2017-09-16	15:35	1.8	W	2017-09-16	22:45	4	ENE
2017-09-16	08:30	3.1	ENE	2017-09-16	15:40	1.8	W	2017-09-16	22:50	4.9	E
2017-09-16	08:35	1.8	SSW	2017-09-16	15:45	2.7	ENE	2017-09-16	22:55	4.5	ENE
2017-09-16	08:40	1.8	W	2017-09-16	15:50	3.6	NW	2017-09-16	23:00	2.2	WSW
2017-09-16	08:45	3.6	ENE	2017-09-16	15:55	2.7	ENE	2017-09-16	23:05	1.8	SSW
2017-09-16	08:50	2.2	WNW	2017-09-16	16:00	2.2	NW	2017-09-16	23:10	4.5	ENE
2017-09-16	08:55	2.7	ENE	2017-09-16	16:05	4.9	E	2017-09-16	23:15	1.8	SSW
2017-09-16	09:00	5.4	ENE	2017-09-16	16:10	2.2	WSW	2017-09-16	23:20	2.2	NE
2017-09-16	09:05	3.1	WSW	2017-09-16	16:15	2.2	ENE	2017-09-16	23:25	2.7	ENE
2017-09-16	09:10	5.4	E	2017-09-16	16:20	2.2	WNW	2017-09-16	23:30	2.2	E
2017-09-16	09:15	5.8	ENE	2017-09-16	16:25	3.1	NE	2017-09-16	23:35	2.7	W
2017-09-16	09:20	5.8	ENE	2017-09-16	16:30	2.7	ENE	2017-09-16	23:40	3.6	NW
2017-09-16	09:25	4.5	E	2017-09-16	16:35	2.2	ENE	2017-09-16	23:45	2.7	W
2017-09-16	09:30	2.7	ENE	2017-09-16	16:40	2.7	ENE	2017-09-16	23:50	2.2	ENE
2017-09-16	09:35	2.7	ENE	2017-09-16	16:45	3.6	NW	2017-09-16	23:55	4	NE
2017-09-16	09:40	4	ENE	2017-09-16	16:50	4	NE	2017-09-17	00:00	4.9	E
2017-09-16	09:45	2.2	WNW	2017-09-16	16:55	1.3	ENE	2017-09-17	00:05	0.9	SSW
2017-09-16	09:50	2.2	ENE	2017-09-16	17:00	3.1	WSW	2017-09-17	00:10	1.8	ENE
2017-09-16	09:55	4.9	ENE	2017-09-16	17:05	1.8	W	2017-09-17	00:15	0.9	ESE
2017-09-16	10:00	1.8	NNW	2017-09-16	17:10	1.8	W	2017-09-17	00:20	0.9	WSW
2017-09-16	10:05	4	NE	2017-09-16	17:15	3.6	ENE	2017-09-17	00:25	0.9	WSW
2017-09-16	10:10	4.9	E	2017-09-16	17:20	4.5	NE	2017-09-17	00:30	1.3	ESE
2017-09-16	10:15	3.6	NW	2017-09-16	17:25	4.9	ENE	2017-09-17	00:35	0.9	E
2017-09-16	10:20	4.5	ENE	2017-09-16	17:30	2.7	ENE	2017-09-17	00:40	0.9	ESE
2017-09-16	10:25	1.8	SSW	2017-09-16	17:35	3.1	E	2017-09-17	00:45	0.9	E
2017-09-16	10:30	2.7	ENE	2017-09-16	17:40	4.5	E	2017-09-17	00:50	0.4	ESE
2017-09-16	10:35	4.5	ENE	2017-09-16	17:45	2.2	WSW	2017-09-17	00:55	0.9	ESE
2017-09-16	10:40	4.9	ENE	2017-09-16	17:50	3.1	E	2017-09-17	01:00	0.4	SW
2017-09-16	10:45	4.9	ENE	2017-09-16	17:55	4.5	ENE	2017-09-17	01:05	0.9	WSW
2017-09-16	10:50	4	ENE	2017-09-16	18:00	4.9	ENE	2017-09-17	01:10	0.9	WSW
2017-09-16	10:55	3.1	E	2017-09-16	18:05	2.2	WSW	2017-09-17	01:15	0.4	ESE
2017-09-16	11:00	2.2	NW	2017-09-16	18:10	4.9	ENE	2017-09-17	01:20	0.9	SSW
2017-09-16	11:05	4.9	E	2017-09-16	18:15	1.8	W	2017-09-17	01:25	4.9	E
2017-09-16	11:10	5.8	ENE	2017-09-16	18:20	4	ENE	2017-09-17	01:30	0.9	WSW
2017-09-16	11:15	2.2	ENE	2017-09-16	18:25	1.8	NNE	2017-09-17	01:35	0.9	ESE
2017-09-16	11:20	1.3	ENE	2017-09-16	18:30	2.2	W	2017-09-17	01:40	0.4	NE
2017-09-16	11:25	3.1	ENE	2017-09-16	18:35	0.9	NE	2017-09-17	01:45	0.4	ESE
2017-09-16	11:30	3.6	NW	2017-09-16	18:40	2.2	NE	2017-09-17	01:50	0.9	SE
2017-09-16	11:35	1.8	NNW	2017-09-16	18:45	1.8	SSW	2017-09-17	01:55	2.2	NNE
2017-09-16	11:40	2.7	ENE	2017-09-16	18:50	2.2	WNW	2017-09-17	02:00	0.4	ESE
2017-09-16	11:45	1.3	SSW	2017-09-16	18:55	4	ENE	2017-09-17	02:05	0.4	ESE
2017-09-16	11:50	1.3	SSW	2017-09-16	19:00	2.7	W	2017-09-17	02:10	1.3	ESE
2017-09-16	11:55	2.2	WNW	2017-09-16	19:05	6.7	ENE	2017-09-17	02:15	0.9	ESE
2017-09-16	12:00	5.4	E	2017-09-16	19:10	1.3	ENE	2017-09-17	02:20	0.9	SE
2017-09-16	12:05	2.7	NW	2017-09-16	19:15	2.2	ENE	2017-09-17	02:25	0.4	SW
2017-09-16	12:10	4.9	ENE	2017-09-16	19:20	4	NE	2017-09-17	02:30	0.4	E
2017-09-16	12:15	5.4	E	2017-09-16	19:25	2.2	ENE	2017-09-17	02:35	1.3	ESE
2017-09-16	12:20	2.7	ENE	2017-09-16	19:30	2.2	WNW	2017-09-17	02:40	1.3	ESE
2017-09-16	12:25	2.2	WSW	2017-09-16	19:35	1.8	NNW	2017-09-17	02:45	0.9	ESE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-17	02:50	0.9	ESE	2017-09-17	10:00	0.4	NNE	2017-09-17	17:10	0.9	E
2017-09-17	02:55	0.9	SE	2017-09-17	10:05	2.2	ENE	2017-09-17	17:15	0.9	ESE
2017-09-17	03:00	0.4	WSW	2017-09-17	10:10	1.3	ESE	2017-09-17	17:20	1.8	NE
2017-09-17	03:05	1.8	E	2017-09-17	10:15	0.4	ESE	2017-09-17	17:25	0.9	ESE
2017-09-17	03:10	0.4	ESE	2017-09-17	10:20	0.9	ESE	2017-09-17	17:30	0.4	ESE
2017-09-17	03:15	0.9	E	2017-09-17	10:25	0.9	SE	2017-09-17	17:35	0.9	SSW
2017-09-17	03:20	1.8	W	2017-09-17	10:30	0.9	WSW	2017-09-17	17:40	2.7	E
2017-09-17	03:25	1.3	SE	2017-09-17	10:35	1.3	NE	2017-09-17	17:45	0.4	NW
2017-09-17	03:30	2.7	ENE	2017-09-17	10:40	1.3	ESE	2017-09-17	17:50	0.9	E
2017-09-17	03:35	1.3	E	2017-09-17	10:45	1.3	NE	2017-09-17	17:55	4	ENE
2017-09-17	03:40	0.4	ESE	2017-09-17	10:50	0.9	ESE	2017-09-17	18:00	1.3	ESE
2017-09-17	03:45	0.4	ESE	2017-09-17	10:55	1.3	ESE	2017-09-17	18:05	0.4	WSW
2017-09-17	03:50	0.4	ESE	2017-09-17	11:00	0.4	ESE	2017-09-17	18:10	0.9	ESE
2017-09-17	03:55	1.3	ENE	2017-09-17	11:05	0.4	N	2017-09-17	18:15	1.8	W
2017-09-17	04:00	4	E	2017-09-17	11:10	2.2	E	2017-09-17	18:20	0.9	SE
2017-09-17	04:05	0.9	WSW	2017-09-17	11:15	0.9	ESE	2017-09-17	18:25	0.9	WSW
2017-09-17	04:10	0.4	ESE	2017-09-17	11:20	2.2	ESE	2017-09-17	18:30	0.9	WSW
2017-09-17	04:15	0.9	E	2017-09-17	11:25	0.9	ESE	2017-09-17	18:35	5.4	E
2017-09-17	04:20	0.9	WSW	2017-09-17	11:30	2.2	E	2017-09-17	18:40	0.4	SW
2017-09-17	04:25	1.8	E	2017-09-17	11:35	1.3	NNE	2017-09-17	18:45	3.6	ENE
2017-09-17	04:30	0.9	SE	2017-09-17	11:40	1.3	E	2017-09-17	18:50	0.4	ESE
2017-09-17	04:35	0.9	NE	2017-09-17	11:45	0.4	ESE	2017-09-17	18:55	1.3	NE
2017-09-17	04:40	0.4	ESE	2017-09-17	11:50	1.3	SE	2017-09-17	19:00	0.4	ESE
2017-09-17	04:45	2.2	E	2017-09-17	11:55	1.3	E	2017-09-17	19:05	5.4	E
2017-09-17	04:50	1.8	ENE	2017-09-17	12:00	0.4	SW	2017-09-17	19:10	0.9	E
2017-09-17	04:55	2.7	E	2017-09-17	12:05	0.9	E	2017-09-17	19:15	0.9	SSW
2017-09-17	05:00	0.9	NE	2017-09-17	12:10	1.3	E	2017-09-17	19:20	0.9	WSW
2017-09-17	05:05	0.9	ENE	2017-09-17	12:15	1.8	E	2017-09-17	19:25	0.9	SE
2017-09-17	05:10	0.9	WSW	2017-09-17	12:20	1.3	W	2017-09-17	19:30	0.9	WSW
2017-09-17	05:15	0.9	WSW	2017-09-17	12:25	4.5	E	2017-09-17	19:35	0.9	SE
2017-09-17	05:20	1.8	NNE	2017-09-17	12:30	2.2	WSW	2017-09-17	19:40	0.9	WSW
2017-09-17	05:25	0.4	ESE	2017-09-17	12:35	3.1	ENE	2017-09-17	19:45	0.4	ESE
2017-09-17	05:30	0.9	E	2017-09-17	12:40	0.4	ESE	2017-09-17	19:50	1.3	WSW
2017-09-17	05:35	1.3	ESE	2017-09-17	12:45	4	E	2017-09-17	19:55	2.2	E
2017-09-17	05:40	2.7	E	2017-09-17	12:50	4	ENE	2017-09-17	20:00	1.8	E
2017-09-17	05:45	0.9	SE	2017-09-17	12:55	0.9	ESE	2017-09-17	20:05	0.9	SSE
2017-09-17	05:50	0.4	ESE	2017-09-17	13:00	0.9	E	2017-09-17	20:10	4.5	E
2017-09-17	05:55	0.4	SW	2017-09-17	13:05	0.9	WSW	2017-09-17	20:15	1.3	NE
2017-09-17	06:00	1.3	ESE	2017-09-17	13:10	1.8	ENE	2017-09-17	20:20	0.4	SW
2017-09-17	06:05	1.3	NNW	2017-09-17	13:15	2.2	ENE	2017-09-17	20:25	0.9	WSW
2017-09-17	06:10	1.3	WSW	2017-09-17	13:20	3.6	E	2017-09-17	20:30	0.4	SW
2017-09-17	06:15	0.9	ESE	2017-09-17	13:25	0.9	WSW	2017-09-17	20:35	2.7	E
2017-09-17	06:20	0.4	E	2017-09-17	13:30	1.8	E	2017-09-17	20:40	1.3	ENE
2017-09-17	06:25	0.9	WSW	2017-09-17	13:35	1.3	SE	2017-09-17	20:45	0.9	ENE
2017-09-17	06:30	0.9	WSW	2017-09-17	13:40	0.9	ESE	2017-09-17	20:50	0.9	WSW
2017-09-17	06:35	4.5	E	2017-09-17	13:45	1.3	N	2017-09-17	20:55	0.9	WSW
2017-09-17	06:40	0.9	WSW	2017-09-17	13:50	0.4	ESE	2017-09-17	21:00	0.9	WSW
2017-09-17	06:45	1.3	SE	2017-09-17	13:55	1.8	SW	2017-09-17	21:05	0.9	WSW
2017-09-17	06:50	0.4	ESE	2017-09-17	14:00	2.2	ESE	2017-09-17	21:10	0.9	ESE
2017-09-17	06:55	0.9	ESE	2017-09-17	14:05	0.4	ESE	2017-09-17	21:15	0.9	NE
2017-09-17	07:00	0.9	SW	2017-09-17	14:10	1.3	NE	2017-09-17	21:20	1.8	E
2017-09-17	07:05	1.3	SE	2017-09-17	14:15	1.3	NNE	2017-09-17	21:25	4	E
2017-09-17	07:10	0.9	ESE	2017-09-17	14:20	1.8	NE	2017-09-17	21:30	1.8	E
2017-09-17	07:15	0.9	WSW	2017-09-17	14:25	0.4	SW	2017-09-17	21:35	1.3	SE
2017-09-17	07:20	0.9	SW	2017-09-17	14:30	0.9	WSW	2017-09-17	21:40	1.8	ENE
2017-09-17	07:25	1.3	WSW	2017-09-17	14:35	0.4	ESE	2017-09-17	21:45	0.9	WSW
2017-09-17	07:30	0.4	E	2017-09-17	14:40	4.5	E	2017-09-17	21:50	0.9	SSW
2017-09-17	07:35	0.9	WSW	2017-09-17	14:45	0.9	WSW	2017-09-17	21:55	1.3	W
2017-09-17	07:40	1.3	SE	2017-09-17	14:50	0.9	SSW	2017-09-17	22:00	0.9	E
2017-09-17	07:45	0.4	ESE	2017-09-17	14:55	3.6	ENE	2017-09-17	22:05	0.9	ESE
2017-09-17	07:50	0.9	WSW	2017-09-17	15:00	1.3	W	2017-09-17	22:10	3.1	ENE
2017-09-17	07:55	1.3	ENE	2017-09-17	15:05	1.3	ESE	2017-09-17	22:15	0.9	WSW
2017-09-17	08:00	0.9	NNE	2017-09-17	15:10	0.4	ESE	2017-09-17	22:20	2.2	ENE
2017-09-17	08:05	0.9	SE	2017-09-17	15:15	0.4	ESE	2017-09-17	22:25	1.8	NNE
2017-09-17	08:10	5.8	E	2017-09-17	15:20	0.9	WNW	2017-09-17	22:30	0.9	WSW
2017-09-17	08:15	5.4	E	2017-09-17	15:25	2.2	N	2017-09-17	22:35	0.4	ESE
2017-09-17	08:20	1.3	SE	2017-09-17	15:30	0.9	WSW	2017-09-17	22:40	0.4	ESE
2017-09-17	08:25	0.9	NNE	2017-09-17	15:35	1.8	NNE	2017-09-17	22:45	2.7	WSW
2017-09-17	08:30	2.2	ENE	2017-09-17	15:40	0.9	ESE	2017-09-17	22:50	1.8	NE
2017-09-17	08:35	2.2	SSW	2017-09-17	15:45	0.9	ESE	2017-09-17	22:55	1.3	ENE
2017-09-17	08:40	0.9	SE	2017-09-17	15:50	1.3	ENE	2017-09-17	23:00	0.9	NNE
2017-09-17	08:45	2.2	NE	2017-09-17	15:55	0.4	ESE	2017-09-17	23:05	0.9	ESE
2017-09-17	08:50	0.9	ESE	2017-09-17	16:00	1.3	E	2017-09-17	23:10	0.9	NNE
2017-09-17	08:55	1.3	SE	2017-09-17	16:05	0.4	ESE	2017-09-17	23:15	0.9	WSW
2017-09-17	09:00	0.4	ESE	2017-09-17	16:10	0.4	NE	2017-09-17	23:20	2.2	NE
2017-09-17	09:05	1.8	SW	2017-09-17	16:15	0.9	ESE	2017-09-17	23:25	3.6	E
2017-09-17	09:10	1.3	ESE	2017-09-17	16:20	1.3	ESE	2017-09-17	23:30	0.9	SE
2017-09-17	09:15	2.7	NE	2017-09-17	16:25	1.3	SE	2017-09-17	23:35	0.9	WSW
2017-09-17	09:20	0.9	ENE	2017-09-17	16:30	0.9	WSW	2017-09-17	23:40	0.9	WSW
2017-09-17	09:25	0.9	E	2017-09-17	16:35	4	E	2017-09-17	23:45	2.2	NE
2017-09-17	09:30	1.8	W	2017-09-17	16:40	0.9	WSW	2017-09-17	23:50	2.2	NE
2017-09-17	09:35	2.2	ESE	2017-09-17	16:45	2.7	SE	2017-09-17	23:55	4	E
2017-09-17	09:40	0.4	ESE	2017-09-17	16:50	1.8	ENE	2017-09-18	00:00	0.4	ESE
2017-09-17	09:45	0.4	ESE	2017-09-17	16:55	2.2	ENE	2017-09-18	00:05	1.8	NNE
2017-09-17	09:50	4	ENE	2017-09-17	17:00	3.6	E	2017-09-18	00:10	1.3	NNE
2017-09-17	09:55	0.9	N	2017-09-17	17:05	1.3	ENE	2017-09-18	00:15	3.1	W

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-18	00:20	3.6	ENE	2017-09-18	07:30	1.8	WNW	2017-09-18	14:40	3.6	WSW
2017-09-18	00:25	1.8	ENE	2017-09-18	07:35	1.8	N	2017-09-18	14:45	1.3	NE
2017-09-18	00:30	1.8	NE	2017-09-18	07:40	4	NE	2017-09-18	14:50	1.8	NNW
2017-09-18	00:35	2.2	ENE	2017-09-18	07:45	1.8	W	2017-09-18	14:55	1.8	W
2017-09-18	00:40	2.2	E	2017-09-18	07:50	2.2	ENE	2017-09-18	15:00	2.7	NE
2017-09-18	00:45	3.6	WSW	2017-09-18	07:55	1.8	WSW	2017-09-18	15:05	4	NE
2017-09-18	00:50	2.2	NNE	2017-09-18	08:00	1.8	ENE	2017-09-18	15:10	0.9	SW
2017-09-18	00:55	2.2	ENE	2017-09-18	08:05	0.9	W	2017-09-18	15:15	2.2	N
2017-09-18	01:00	2.2	ENE	2017-09-18	08:10	1.8	NNE	2017-09-18	15:20	1.8	WNW
2017-09-18	01:05	3.1	NE	2017-09-18	08:15	3.1	E	2017-09-18	15:25	2.2	W
2017-09-18	01:10	2.2	WNW	2017-09-18	08:20	2.2	WNW	2017-09-18	15:30	1.8	N
2017-09-18	01:15	1.8	NNE	2017-09-18	08:25	2.7	NE	2017-09-18	15:35	2.7	ENE
2017-09-18	01:20	2.2	NE	2017-09-18	08:30	1.3	N	2017-09-18	15:40	1.8	ENE
2017-09-18	01:25	0.9	W	2017-09-18	08:35	2.7	E	2017-09-18	15:45	2.2	W
2017-09-18	01:30	2.2	E	2017-09-18	08:40	3.6	ENE	2017-09-18	15:50	2.2	WNW
2017-09-18	01:35	2.7	ENE	2017-09-18	08:45	1.3	ENE	2017-09-18	15:55	1.8	W
2017-09-18	01:40	1.8	NE	2017-09-18	08:50	2.2	E	2017-09-18	16:00	1.8	W
2017-09-18	01:45	2.7	NNW	2017-09-18	08:55	2.2	ENE	2017-09-18	16:05	1.8	NNW
2017-09-18	01:50	0.9	ENE	2017-09-18	09:00	2.2	N	2017-09-18	16:10	1.8	N
2017-09-18	01:55	3.6	WNW	2017-09-18	09:05	3.1	W	2017-09-18	16:15	2.2	E
2017-09-18	02:00	2.2	W	2017-09-18	09:10	1.8	NE	2017-09-18	16:20	3.1	WNW
2017-09-18	02:05	2.2	ENE	2017-09-18	09:15	2.2	W	2017-09-18	16:25	2.2	NE
2017-09-18	02:10	1.3	WSW	2017-09-18	09:20	0.9	N	2017-09-18	16:30	3.1	WNW
2017-09-18	02:15	1.3	E	2017-09-18	09:25	2.2	E	2017-09-18	16:35	4	E
2017-09-18	02:20	2.7	NNE	2017-09-18	09:30	2.2	WNW	2017-09-18	16:40	1.8	N
2017-09-18	02:25	1.3	ENE	2017-09-18	09:35	1.3	NNE	2017-09-18	16:45	1.3	ENE
2017-09-18	02:30	1.8	W	2017-09-18	09:40	1.8	NW	2017-09-18	16:50	3.1	WSW
2017-09-18	02:35	3.1	WNW	2017-09-18	09:45	3.6	WSW	2017-09-18	16:55	2.7	WNW
2017-09-18	02:40	0.9	ENE	2017-09-18	09:50	2.7	ENE	2017-09-18	17:00	4	WNW
2017-09-18	02:45	1.8	NW	2017-09-18	09:55	2.7	N	2017-09-18	17:05	0.9	W
2017-09-18	02:50	1.8	W	2017-09-18	10:00	1.8	N	2017-09-18	17:10	1.8	NW
2017-09-18	02:55	1.3	ENE	2017-09-18	10:05	2.7	WNW	2017-09-18	17:15	1.8	NNW
2017-09-18	03:00	1.8	N	2017-09-18	10:10	1.8	NW	2017-09-18	17:20	3.1	ENE
2017-09-18	03:05	2.2	NNE	2017-09-18	10:15	3.1	NW	2017-09-18	17:25	2.2	WNW
2017-09-18	03:10	1.8	NNE	2017-09-18	10:20	2.2	N	2017-09-18	17:30	2.2	WNW
2017-09-18	03:15	2.2	NNE	2017-09-18	10:25	2.7	NE	2017-09-18	17:35	2.7	NE
2017-09-18	03:20	2.2	ENE	2017-09-18	10:30	3.1	NE	2017-09-18	17:40	2.7	NW
2017-09-18	03:25	3.1	ENE	2017-09-18	10:35	2.2	N	2017-09-18	17:45	1.3	ENE
2017-09-18	03:30	2.2	ENE	2017-09-18	10:40	1.8	NE	2017-09-18	17:50	3.1	NE
2017-09-18	03:35	3.1	WNW	2017-09-18	10:45	2.2	WNW	2017-09-18	17:55	2.7	W
2017-09-18	03:40	3.1	N	2017-09-18	10:50	1.3	NE	2017-09-18	18:00	3.1	NW
2017-09-18	03:45	2.7	W	2017-09-18	10:55	2.2	ENE	2017-09-18	18:05	3.1	ENE
2017-09-18	03:50	1.8	ENE	2017-09-18	11:00	1.8	W	2017-09-18	18:10	3.1	ENE
2017-09-18	03:55	1.8	W	2017-09-18	11:05	2.2	NNW	2017-09-18	18:15	1.3	NNE
2017-09-18	04:00	0.9	W	2017-09-18	11:10	1.8	NE	2017-09-18	18:20	2.7	NW
2017-09-18	04:05	3.1	W	2017-09-18	11:15	2.2	E	2017-09-18	18:25	1.3	W
2017-09-18	04:10	1.8	WSW	2017-09-18	11:20	4	W	2017-09-18	18:30	3.6	W
2017-09-18	04:15	1.3	NE	2017-09-18	11:25	1.8	NE	2017-09-18	18:35	2.2	NE
2017-09-18	04:20	1.8	NW	2017-09-18	11:30	1.3	N	2017-09-18	18:40	1.8	WNW
2017-09-18	04:25	4	ENE	2017-09-18	11:35	2.2	WNW	2017-09-18	18:45	1.3	NW
2017-09-18	04:30	2.2	NNE	2017-09-18	11:40	2.7	NNE	2017-09-18	18:50	2.2	WNW
2017-09-18	04:35	0.9	W	2017-09-18	11:45	3.6	NW	2017-09-18	18:55	3.1	ENE
2017-09-18	04:40	1.3	ENE	2017-09-18	11:50	2.7	NE	2017-09-18	19:00	1.8	ENE
2017-09-18	04:45	1.8	NW	2017-09-18	11:55	1.3	NE	2017-09-18	19:05	3.1	E
2017-09-18	04:50	1.8	NW	2017-09-18	12:00	3.1	WNW	2017-09-18	19:10	0.9	W
2017-09-18	04:55	1.8	W	2017-09-18	12:05	0.9	ENE	2017-09-18	19:15	1.8	W
2017-09-18	05:00	3.1	E	2017-09-18	12:10	2.7	N	2017-09-18	19:20	1.8	NW
2017-09-18	05:05	3.6	ENE	2017-09-18	12:15	1.8	NNW	2017-09-18	19:25	1.8	NNE
2017-09-18	05:10	3.1	ENE	2017-09-18	12:20	0.9	SW	2017-09-18	19:30	3.1	ENE
2017-09-18	05:15	2.2	ENE	2017-09-18	12:25	1.8	ENE	2017-09-18	19:35	3.1	NE
2017-09-18	05:20	1.8	WNW	2017-09-18	12:30	1.8	W	2017-09-18	19:40	3.1	NW
2017-09-18	05:25	0.9	ENE	2017-09-18	12:35	3.1	NW	2017-09-18	19:45	2.7	NE
2017-09-18	05:30	2.2	NE	2017-09-18	12:40	1.8	ENE	2017-09-18	19:50	1.8	NNW
2017-09-18	05:35	2.2	E	2017-09-18	12:45	3.1	WNW	2017-09-18	19:55	2.2	WNW
2017-09-18	05:40	1.8	ENE	2017-09-18	12:50	1.8	W	2017-09-18	20:00	0.9	W
2017-09-18	05:45	3.1	WNW	2017-09-18	12:55	0.9	NW	2017-09-18	20:05	1.8	NW
2017-09-18	05:50	2.7	ENE	2017-09-18	13:00	2.2	WNW	2017-09-18	20:10	2.2	E
2017-09-18	05:55	2.7	WNW	2017-09-18	13:05	2.2	E	2017-09-18	20:15	1.3	NNE
2017-09-18	06:00	2.2	W	2017-09-18	13:10	1.8	NNW	2017-09-18	20:20	1.8	NW
2017-09-18	06:05	1.3	SSE	2017-09-18	13:15	2.2	W	2017-09-18	20:25	2.2	WNW
2017-09-18	06:10	2.2	N	2017-09-18	13:20	3.6	W	2017-09-18	20:30	2.2	W
2017-09-18	06:15	1.8	N	2017-09-18	13:25	0.9	ENE	2017-09-18	20:35	2.2	N
2017-09-18	06:20	1.3	NNE	2017-09-18	13:30	1.8	NE	2017-09-18	20:40	2.2	NNW
2017-09-18	06:25	2.7	W	2017-09-18	13:35	0.9	SW	2017-09-18	20:45	2.7	E
2017-09-18	06:30	1.8	NE	2017-09-18	13:40	1.8	NE	2017-09-18	20:50	0.9	SW
2017-09-18	06:35	1.8	N	2017-09-18	13:45	2.2	WNW	2017-09-18	20:55	1.3	NW
2017-09-18	06:40	1.8	NW	2017-09-18	13:50	2.2	W	2017-09-18	21:00	3.6	N
2017-09-18	06:45	1.8	NE	2017-09-18	13:55	0.9	ENE	2017-09-18	21:05	2.2	E
2017-09-18	06:50	1.3	W	2017-09-18	14:00	1.3	N	2017-09-18	21:10	1.8	W
2017-09-18	06:55	2.2	E	2017-09-18	14:05	1.8	NW	2017-09-18	21:15	3.6	NNW
2017-09-18	07:00	3.1	NE	2017-09-18	14:10	1.3	ENE	2017-09-18	21:20	2.2	N
2017-09-18	07:05	2.2	W	2017-09-18	14:15	3.1	W	2017-09-18	21:25	1.8	W
2017-09-18	07:10	3.1	WNW	2017-09-18	14:20	1.3	N	2017-09-18	21:30	0.9	NE
2017-09-18	07:15	2.2	WNW	2017-09-18	14:25	2.2	E	2017-09-18	21:35	3.1	ENE
2017-09-18	07:20	1.8	NE	2017-09-18	14:30	2.2	WNW	2017-09-18	21:40	1.8	NW
2017-09-18	07:25	2.7	NE	2017-09-18	14:35	2.2	SW	2017-09-18	21:45	2.2	NNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-18	21:50	1.8	N	2017-09-19	05:00	2.2	E	2017-09-19	12:10	2.2	NNE
2017-09-18	21:55	1.3	E	2017-09-19	05:05	2.7	W	2017-09-19	12:15	1.8	NW
2017-09-18	22:00	3.1	WSW	2017-09-19	05:10	2.7	W	2017-09-19	12:20	1.8	NNE
2017-09-18	22:05	1.8	N	2017-09-19	05:15	1.8	ENE	2017-09-19	12:25	2.7	WNW
2017-09-18	22:10	1.8	NW	2017-09-19	05:20	2.7	SSW	2017-09-19	12:30	1.8	WNW
2017-09-18	22:15	2.2	WNW	2017-09-19	05:25	1.8	NE	2017-09-19	12:35	2.7	W
2017-09-18	22:20	2.7	ENE	2017-09-19	05:30	0.9	SW	2017-09-19	12:40	1.3	W
2017-09-18	22:25	2.7	NE	2017-09-19	05:35	0.9	WNW	2017-09-19	12:45	1.8	WNW
2017-09-18	22:30	1.8	NNW	2017-09-19	05:40	2.7	WNW	2017-09-19	12:50	1.8	NNW
2017-09-18	22:35	1.8	NE	2017-09-19	05:45	1.8	WSW	2017-09-19	12:55	2.7	W
2017-09-18	22:40	2.2	WNW	2017-09-19	05:50	1.8	NE	2017-09-19	13:00	1.8	WNW
2017-09-18	22:45	3.1	NW	2017-09-19	05:55	0.9	NNE	2017-09-19	13:05	3.1	W
2017-09-18	22:50	1.8	NNW	2017-09-19	06:00	1.8	NE	2017-09-19	13:10	1.3	E
2017-09-18	22:55	2.2	E	2017-09-19	06:05	1.3	WSW	2017-09-19	13:15	3.1	W
2017-09-18	23:00	1.3	ENE	2017-09-19	06:10	2.2	WSW	2017-09-19	13:20	1.8	ENE
2017-09-18	23:05	3.1	WSW	2017-09-19	06:15	1.8	E	2017-09-19	13:25	1.8	N
2017-09-18	23:10	2.2	WNW	2017-09-19	06:20	2.2	NE	2017-09-19	13:30	1.8	N
2017-09-18	23:15	3.6	ENE	2017-09-19	06:25	1.8	ENE	2017-09-19	13:35	1.8	ENE
2017-09-18	23:20	1.8	W	2017-09-19	06:30	2.2	NW	2017-09-19	13:40	2.7	W
2017-09-18	23:25	1.8	E	2017-09-19	06:35	1.3	WNW	2017-09-19	13:45	2.2	W
2017-09-18	23:30	2.7	WNW	2017-09-19	06:40	4	WSW	2017-09-19	13:50	1.3	WNW
2017-09-18	23:35	1.3	SW	2017-09-19	06:45	2.2	W	2017-09-19	13:55	1.8	N
2017-09-18	23:40	1.8	N	2017-09-19	06:50	1.8	NE	2017-09-19	14:00	1.3	E
2017-09-18	23:45	2.2	ENE	2017-09-19	06:55	1.3	W	2017-09-19	14:05	1.8	NE
2017-09-18	23:50	0.9	SW	2017-09-19	07:00	1.8	SW	2017-09-19	14:10	1.3	WSW
2017-09-18	23:55	1.8	E	2017-09-19	07:05	1.3	NE	2017-09-19	14:15	1.3	WSW
2017-09-19	00:00	2.2	WNW	2017-09-19	07:10	1.8	NE	2017-09-19	14:20	1.8	NE
2017-09-19	00:05	1.8	WNW	2017-09-19	07:15	2.7	W	2017-09-19	14:25	3.1	W
2017-09-19	00:10	1.8	NW	2017-09-19	07:20	1.8	ENE	2017-09-19	14:30	1.8	N
2017-09-19	00:15	2.2	W	2017-09-19	07:25	1.8	W	2017-09-19	14:35	2.2	N
2017-09-19	00:20	1.3	WNW	2017-09-19	07:30	2.2	ENE	2017-09-19	14:40	2.7	W
2017-09-19	00:25	0.9	NE	2017-09-19	07:35	3.1	W	2017-09-19	14:45	1.3	NE
2017-09-19	00:30	2.7	WSW	2017-09-19	07:40	1.3	E	2017-09-19	14:50	1.8	NW
2017-09-19	00:35	1.8	W	2017-09-19	07:45	2.2	W	2017-09-19	14:55	2.2	W
2017-09-19	00:40	2.2	NNE	2017-09-19	07:50	2.7	SSW	2017-09-19	15:00	1.3	WSW
2017-09-19	00:45	2.2	WNW	2017-09-19	07:55	1.8	NE	2017-09-19	15:05	2.7	W
2017-09-19	00:50	1.8	WNW	2017-09-19	08:00	1.8	W	2017-09-19	15:10	1.3	E
2017-09-19	00:55	1.8	NW	2017-09-19	08:05	2.7	W	2017-09-19	15:15	2.2	SW
2017-09-19	01:00	1.8	NE	2017-09-19	08:10	1.8	ENE	2017-09-19	15:20	2.7	WNW
2017-09-19	01:05	0.9	WNW	2017-09-19	08:15	1.3	E	2017-09-19	15:25	2.2	WSW
2017-09-19	01:10	1.3	E	2017-09-19	08:20	1.8	E	2017-09-19	15:30	1.8	WNW
2017-09-19	01:15	3.1	W	2017-09-19	08:25	2.7	W	2017-09-19	15:35	1.8	WNW
2017-09-19	01:20	1.3	WNW	2017-09-19	08:30	1.3	WNW	2017-09-19	15:40	2.2	WSW
2017-09-19	01:25	1.8	W	2017-09-19	08:35	1.3	W	2017-09-19	15:45	1.3	WNW
2017-09-19	01:30	1.8	NE	2017-09-19	08:40	1.8	NE	2017-09-19	15:50	2.7	SSW
2017-09-19	01:35	1.8	NW	2017-09-19	08:45	3.6	NE	2017-09-19	15:55	1.8	WNW
2017-09-19	01:40	1.8	ENE	2017-09-19	08:50	2.7	SSW	2017-09-19	16:00	1.8	NNE
2017-09-19	01:45	1.8	NE	2017-09-19	08:55	2.7	NNE	2017-09-19	16:05	1.8	N
2017-09-19	01:50	2.7	WSW	2017-09-19	09:00	1.8	ENE	2017-09-19	16:10	3.6	W
2017-09-19	01:55	1.3	WNW	2017-09-19	09:05	1.8	ENE	2017-09-19	16:15	0.9	WNW
2017-09-19	02:00	2.2	W	2017-09-19	09:10	2.2	W	2017-09-19	16:20	2.7	W
2017-09-19	02:05	3.1	W	2017-09-19	09:15	1.3	NNE	2017-09-19	16:25	1.8	N
2017-09-19	02:10	2.2	W	2017-09-19	09:20	1.8	W	2017-09-19	16:30	1.3	W
2017-09-19	02:15	4	WSW	2017-09-19	09:25	2.2	ENE	2017-09-19	16:35	2.2	WSW
2017-09-19	02:20	2.2	WSW	2017-09-19	09:30	1.3	N	2017-09-19	16:40	2.2	E
2017-09-19	02:25	0.9	NW	2017-09-19	09:35	2.7	W	2017-09-19	16:45	2.7	SSW
2017-09-19	02:30	2.2	NNE	2017-09-19	09:40	2.7	WSW	2017-09-19	16:50	2.2	W
2017-09-19	02:35	2.2	NNW	2017-09-19	09:45	1.8	W	2017-09-19	16:55	2.7	W
2017-09-19	02:40	1.3	E	2017-09-19	09:50	2.2	WSW	2017-09-19	17:00	0.9	WNW
2017-09-19	02:45	1.8	NE	2017-09-19	09:55	1.8	WNW	2017-09-19	17:05	0.9	NE
2017-09-19	02:50	1.3	NE	2017-09-19	10:00	1.8	NW	2017-09-19	17:10	1.8	WSW
2017-09-19	02:55	3.6	WNW	2017-09-19	10:05	1.8	WNW	2017-09-19	17:15	2.2	N
2017-09-19	03:00	0.9	ESE	2017-09-19	10:10	2.2	NNW	2017-09-19	17:20	1.8	W
2017-09-19	03:05	1.3	W	2017-09-19	10:15	2.7	SSW	2017-09-19	17:25	1.8	WNW
2017-09-19	03:10	2.2	NNW	2017-09-19	10:20	0.9	NW	2017-09-19	17:30	2.7	NE
2017-09-19	03:15	0.9	NW	2017-09-19	10:25	2.7	W	2017-09-19	17:35	2.7	NE
2017-09-19	03:20	1.8	NE	2017-09-19	10:30	1.8	NW	2017-09-19	17:40	3.1	W
2017-09-19	03:25	0.9	N	2017-09-19	10:35	0.9	W	2017-09-19	17:45	2.2	NE
2017-09-19	03:30	1.8	ENE	2017-09-19	10:40	2.7	SSW	2017-09-19	17:50	1.8	WNW
2017-09-19	03:35	1.3	NE	2017-09-19	10:45	1.8	WNW	2017-09-19	17:55	1.3	ENE
2017-09-19	03:40	2.2	NNW	2017-09-19	10:50	1.8	W	2017-09-19	18:00	1.3	NE
2017-09-19	03:45	1.3	NNE	2017-09-19	10:55	2.2	W	2017-09-19	18:05	1.3	WNW
2017-09-19	03:50	1.3	ENE	2017-09-19	11:00	1.8	W	2017-09-19	18:10	2.7	W
2017-09-19	03:55	1.8	WSW	2017-09-19	11:05	2.7	E	2017-09-19	18:15	1.8	ENE
2017-09-19	04:00	1.8	WNW	2017-09-19	11:10	1.3	WNW	2017-09-19	18:20	2.2	NNW
2017-09-19	04:05	2.2	W	2017-09-19	11:15	1.8	N	2017-09-19	18:25	1.8	WNW
2017-09-19	04:10	1.3	W	2017-09-19	11:20	2.2	WSW	2017-09-19	18:30	2.7	W
2017-09-19	04:15	2.7	W	2017-09-19	11:25	2.7	W	2017-09-19	18:35	0.9	WSW
2017-09-19	04:20	2.2	W	2017-09-19	11:30	2.7	NNW	2017-09-19	18:40	0.9	WSW
2017-09-19	04:25	2.7	NW	2017-09-19	11:35	2.2	W	2017-09-19	18:45	1.8	WNW
2017-09-19	04:30	1.3	NNE	2017-09-19	11:40	1.8	E	2017-09-19	18:50	1.3	E
2017-09-19	04:35	1.8	NE	2017-09-19	11:45	2.2	NE	2017-09-19	18:55	1.8	NW
2017-09-19	04:40	1.8	WNW	2017-09-19	11:50	2.2	ENE	2017-09-19	19:00	0.9	NW
2017-09-19	04:45	2.2	NNW	2017-09-19	11:55	1.3	WNW	2017-09-19	19:05	2.2	W
2017-09-19	04:50	2.2	WSW	2017-09-19	12:00	1.8	NW	2017-09-19	19:10	4.9	WSW
2017-09-19	04:55	2.7	NNW	2017-09-19	12:05	2.2	WSW	2017-09-19	19:15	1.3	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-19	19:20	1.8	WNW	2017-09-20	02:30	3.6	W	2017-09-20	09:40	2.2	SW
2017-09-19	19:25	2.7	WSW	2017-09-20	02:35	1.8	SSE	2017-09-20	09:45	2.2	WNW
2017-09-19	19:30	1.8	WNW	2017-09-20	02:40	1.8	SSE	2017-09-20	09:50	1.8	WSW
2017-09-19	19:35	3.1	NE	2017-09-20	02:45	2.2	WNW	2017-09-20	09:55	2.2	W
2017-09-19	19:40	2.2	ESE	2017-09-20	02:50	0.9	W	2017-09-20	10:00	1.8	WNW
2017-09-19	19:45	1.8	W	2017-09-20	02:55	2.2	W	2017-09-20	10:05	3.6	W
2017-09-19	19:50	0.9	NW	2017-09-20	03:00	1.8	NNE	2017-09-20	10:10	2.7	W
2017-09-19	19:55	1.3	N	2017-09-20	03:05	2.2	W	2017-09-20	10:15	2.2	W
2017-09-19	20:00	2.2	NW	2017-09-20	03:10	0.9	W	2017-09-20	10:20	1.8	E
2017-09-19	20:05	2.2	E	2017-09-20	03:15	4	SW	2017-09-20	10:25	2.2	E
2017-09-19	20:10	2.2	W	2017-09-20	03:20	2.2	NE	2017-09-20	10:30	3.6	WSW
2017-09-19	20:15	1.8	WNW	2017-09-20	03:25	1.8	E	2017-09-20	10:35	1.8	ENE
2017-09-19	20:20	0.9	NE	2017-09-20	03:30	2.2	W	2017-09-20	10:40	2.2	WSW
2017-09-19	20:25	2.7	W	2017-09-20	03:35	2.2	WSW	2017-09-20	10:45	2.2	WSW
2017-09-19	20:30	2.7	W	2017-09-20	03:40	3.1	W	2017-09-20	10:50	2.2	W
2017-09-19	20:35	3.1	NW	2017-09-20	03:45	0.9	W	2017-09-20	10:55	1.8	NNE
2017-09-19	20:40	2.7	W	2017-09-20	03:50	1.3	NNE	2017-09-20	11:00	1.3	WNW
2017-09-19	20:45	1.8	W	2017-09-20	03:55	2.2	W	2017-09-20	11:05	0.9	W
2017-09-19	20:50	1.3	NNE	2017-09-20	04:00	2.2	NW	2017-09-20	11:10	1.3	WNW
2017-09-19	20:55	2.7	W	2017-09-20	04:05	0.9	E	2017-09-20	11:15	2.2	W
2017-09-19	21:00	1.8	WNW	2017-09-20	04:10	1.3	W	2017-09-20	11:20	2.2	WSW
2017-09-19	21:05	1.8	NNW	2017-09-20	04:15	2.7	NW	2017-09-20	11:25	1.8	W
2017-09-19	21:10	1.3	WNW	2017-09-20	04:20	1.3	W	2017-09-20	11:30	1.8	WNW
2017-09-19	21:15	1.8	NW	2017-09-20	04:25	2.2	W	2017-09-20	11:35	4.5	WSW
2017-09-19	21:20	1.8	N	2017-09-20	04:30	1.8	W	2017-09-20	11:40	1.8	ENE
2017-09-19	21:25	2.2	NNW	2017-09-20	04:35	3.6	WSW	2017-09-20	11:45	1.8	WNW
2017-09-19	21:30	2.7	WNW	2017-09-20	04:40	2.2	W	2017-09-20	11:50	2.7	W
2017-09-19	21:35	1.8	NE	2017-09-20	04:45	2.2	WNW	2017-09-20	11:55	2.7	NE
2017-09-19	21:40	1.8	NE	2017-09-20	04:50	2.7	WSW	2017-09-20	12:00	1.3	E
2017-09-19	21:45	0.9	NNE	2017-09-20	04:55	1.8	ENE	2017-09-20	12:05	0.9	W
2017-09-19	21:50	1.8	N	2017-09-20	05:00	1.3	N	2017-09-20	12:10	1.8	ENE
2017-09-19	21:55	2.2	N	2017-09-20	05:05	0.9	W	2017-09-20	12:15	3.6	N
2017-09-19	22:00	2.2	W	2017-09-20	05:10	1.3	W	2017-09-20	12:20	3.1	WSW
2017-09-19	22:05	1.8	ENE	2017-09-20	05:15	2.2	WNW	2017-09-20	12:25	2.7	W
2017-09-19	22:10	3.6	W	2017-09-20	05:20	1.8	E	2017-09-20	12:30	1.8	WNW
2017-09-19	22:15	1.8	WNW	2017-09-20	05:25	0.9	W	2017-09-20	12:35	2.2	WNW
2017-09-19	22:20	1.3	WSW	2017-09-20	05:30	1.3	ENE	2017-09-20	12:40	2.2	W
2017-09-19	22:25	0.9	ENE	2017-09-20	05:35	3.1	W	2017-09-20	12:45	2.7	W
2017-09-19	22:30	2.2	NNW	2017-09-20	05:40	1.8	WNW	2017-09-20	12:50	2.2	WNW
2017-09-19	22:35	2.7	WNW	2017-09-20	05:45	1.8	WNW	2017-09-20	12:55	2.2	WSW
2017-09-19	22:40	1.3	NE	2017-09-20	05:50	3.6	ENE	2017-09-20	13:00	1.8	NE
2017-09-19	22:45	1.8	N	2017-09-20	05:55	2.2	W	2017-09-20	13:05	1.3	W
2017-09-19	22:50	2.2	NNW	2017-09-20	06:00	2.7	E	2017-09-20	13:10	2.2	N
2017-09-19	22:55	0.9	WNW	2017-09-20	06:05	2.7	WNW	2017-09-20	13:15	3.1	SW
2017-09-19	23:00	1.8	NW	2017-09-20	06:10	2.7	W	2017-09-20	13:20	1.8	E
2017-09-19	23:05	1.3	E	2017-09-20	06:15	2.7	W	2017-09-20	13:25	1.8	E
2017-09-19	23:10	2.7	W	2017-09-20	06:20	3.1	W	2017-09-20	13:30	1.8	SSE
2017-09-19	23:15	1.3	WNW	2017-09-20	06:25	1.8	NNW	2017-09-20	13:35	2.2	W
2017-09-19	23:20	2.2	W	2017-09-20	06:30	1.3	WNW	2017-09-20	13:40	0.9	W
2017-09-19	23:25	1.8	NNW	2017-09-20	06:35	1.3	W	2017-09-20	13:45	1.3	NNW
2017-09-19	23:30	3.1	WSW	2017-09-20	06:40	0.9	E	2017-09-20	13:50	2.2	W
2017-09-19	23:35	1.8	WNW	2017-09-20	06:45	4	WSW	2017-09-20	13:55	1.8	W
2017-09-19	23:40	2.2	W	2017-09-20	06:50	1.8	SSE	2017-09-20	14:00	2.7	W
2017-09-19	23:45	1.3	N	2017-09-20	06:55	1.3	ENE	2017-09-20	14:05	0.9	NNW
2017-09-19	23:50	2.7	W	2017-09-20	07:00	1.8	NW	2017-09-20	14:10	1.3	W
2017-09-19	23:55	1.3	ENE	2017-09-20	07:05	2.2	W	2017-09-20	14:15	2.7	WNW
2017-09-20	00:00	2.7	W	2017-09-20	07:10	1.8	W	2017-09-20	14:20	1.3	NNE
2017-09-20	00:05	1.8	NE	2017-09-20	07:15	1.8	NE	2017-09-20	14:25	0.9	E
2017-09-20	00:10	3.1	WNW	2017-09-20	07:20	1.8	NW	2017-09-20	14:30	2.2	NW
2017-09-20	00:15	2.7	WNW	2017-09-20	07:25	2.2	WSW	2017-09-20	14:35	1.8	E
2017-09-20	00:20	1.8	ENE	2017-09-20	07:30	2.2	WNW	2017-09-20	14:40	3.1	WSW
2017-09-20	00:25	1.8	SSE	2017-09-20	07:35	2.2	NW	2017-09-20	14:45	1.8	ENE
2017-09-20	00:30	3.1	W	2017-09-20	07:40	3.1	W	2017-09-20	14:50	2.7	W
2017-09-20	00:35	1.3	E	2017-09-20	07:45	1.3	N	2017-09-20	14:55	2.2	N
2017-09-20	00:40	0.9	E	2017-09-20	07:50	2.2	NNW	2017-09-20	15:00	1.8	ENE
2017-09-20	00:45	2.2	WNW	2017-09-20	07:55	2.2	W	2017-09-20	15:05	1.3	W
2017-09-20	00:50	0.9	W	2017-09-20	08:00	1.3	NW	2017-09-20	15:10	2.2	SW
2017-09-20	00:55	2.7	WNW	2017-09-20	08:05	2.2	NW	2017-09-20	15:15	3.6	W
2017-09-20	01:00	2.2	W	2017-09-20	08:10	1.8	N	2017-09-20	15:20	0.9	W
2017-09-20	01:05	2.2	W	2017-09-20	08:15	1.8	NNE	2017-09-20	15:25	2.2	E
2017-09-20	01:10	1.8	NE	2017-09-20	08:20	2.2	W	2017-09-20	15:30	1.8	NNE
2017-09-20	01:15	2.2	E	2017-09-20	08:25	3.6	W	2017-09-20	15:35	0.9	S
2017-09-20	01:20	1.8	E	2017-09-20	08:30	1.8	ENE	2017-09-20	15:40	1.8	WNW
2017-09-20	01:25	1.8	WNW	2017-09-20	08:35	2.7	W	2017-09-20	15:45	3.1	W
2017-09-20	01:30	2.2	E	2017-09-20	08:40	1.8	ENE	2017-09-20	15:50	2.2	W
2017-09-20	01:35	2.2	NE	2017-09-20	08:45	2.2	W	2017-09-20	15:55	1.8	WNW
2017-09-20	01:40	1.8	ENE	2017-09-20	08:50	3.1	W	2017-09-20	16:00	2.2	N
2017-09-20	01:45	3.6	W	2017-09-20	08:55	1.3	NE	2017-09-20	16:05	1.8	WSW
2017-09-20	01:50	2.2	E	2017-09-20	09:00	1.8	NNE	2017-09-20	16:10	2.2	ENE
2017-09-20	01:55	1.8	NE	2017-09-20	09:05	3.1	W	2017-09-20	16:15	1.3	W
2017-09-20	02:00	2.7	WNW	2017-09-20	09:10	1.8	NNE	2017-09-20	16:20	1.3	N
2017-09-20	02:05	3.1	W	2017-09-20	09:15	2.2	NW	2017-09-20	16:25	1.3	NNE
2017-09-20	02:10	1.8	WNW	2017-09-20	09:20	1.8	NE	2017-09-20	16:30	0.4	SW
2017-09-20	02:15	2.2	WNW	2017-09-20	09:25	1.8	WNW	2017-09-20	16:35	2.7	W
2017-09-20	02:20	1.3	W	2017-09-20	09:30	0.9	NE	2017-09-20	16:40	2.2	W
2017-09-20	02:25	1.8	SSE	2017-09-20	09:35	2.7	W	2017-09-20	16:45	1.8	WNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-20	16:50	2.7	SW	2017-09-21	00:00	1.8	WNW	2017-09-21	07:10	0.4	NE
2017-09-20	16:55	2.2	W	2017-09-21	00:05	0.4	NE	2017-09-21	07:15	0.4	NE
2017-09-20	17:00	2.2	NW	2017-09-21	00:10	0.9	SW	2017-09-21	07:20	1.8	NNE
2017-09-20	17:05	2.2	E	2017-09-21	00:15	0.4	NE	2017-09-21	07:25	0.4	ESE
2017-09-20	17:10	1.8	NE	2017-09-21	00:20	1.3	N	2017-09-21	07:30	0.9	NE
2017-09-20	17:15	2.2	W	2017-09-21	00:25	0.4	NE	2017-09-21	07:35	2.2	NE
2017-09-20	17:20	2.7	WNW	2017-09-21	00:30	0.9	NE	2017-09-21	07:40	0.4	ESE
2017-09-20	17:25	2.2	W	2017-09-21	00:35	0.9	NNE	2017-09-21	07:45	1.3	SW
2017-09-20	17:30	2.2	WNW	2017-09-21	00:40	0.9	N	2017-09-21	07:50	0.4	WSW
2017-09-20	17:35	1.8	W	2017-09-21	00:45	1.3	NNE	2017-09-21	07:55	1.3	NE
2017-09-20	17:40	1.3	NE	2017-09-21	00:50	1.3	NNE	2017-09-21	08:00	0.9	NE
2017-09-20	17:45	0.9	W	2017-09-21	00:55	0.4	NE	2017-09-21	08:05	0.9	NNE
2017-09-20	17:50	1.8	NNW	2017-09-21	01:00	0.4	NNE	2017-09-21	08:10	1.8	ENE
2017-09-20	17:55	2.2	W	2017-09-21	01:05	0.4	SW	2017-09-21	08:15	0.9	N
2017-09-20	18:00	0.9	E	2017-09-21	01:10	0.4	NE	2017-09-21	08:20	1.3	NNE
2017-09-20	18:05	3.1	WNW	2017-09-21	01:15	1.3	N	2017-09-21	08:25	1.8	N
2017-09-20	18:10	1.8	WNW	2017-09-21	01:20	1.3	NNE	2017-09-21	08:30	0.4	NE
2017-09-20	18:15	1.3	W	2017-09-21	01:25	1.3	NNE	2017-09-21	08:35	0.9	N
2017-09-20	18:20	1.8	E	2017-09-21	01:30	0.9	NNE	2017-09-21	08:40	1.3	NE
2017-09-20	18:25	1.8	SSE	2017-09-21	01:35	1.8	ENE	2017-09-21	08:45	0.4	SW
2017-09-20	18:30	3.1	W	2017-09-21	01:40	0.9	WSW	2017-09-21	08:50	1.3	N
2017-09-20	18:35	0.9	E	2017-09-21	01:45	0.9	NE	2017-09-21	08:55	0.4	SW
2017-09-20	18:40	2.7	W	2017-09-21	01:50	1.8	NE	2017-09-21	09:00	0.4	NE
2017-09-20	18:45	2.7	W	2017-09-21	01:55	0.4	WSW	2017-09-21	09:05	0.9	N
2017-09-20	18:50	3.1	ENE	2017-09-21	02:00	2.2	ENE	2017-09-21	09:10	1.3	WSW
2017-09-20	18:55	1.8	E	2017-09-21	02:05	1.3	NE	2017-09-21	09:15	1.8	ENE
2017-09-20	19:00	3.1	WNW	2017-09-21	02:10	1.8	ENE	2017-09-21	09:20	1.3	NNE
2017-09-20	19:05	0.9	NNE	2017-09-21	02:15	0.9	NNE	2017-09-21	09:25	2.2	NNW
2017-09-20	19:10	1.8	ENE	2017-09-21	02:20	2.7	NNW	2017-09-21	09:30	0.9	ENE
2017-09-20	19:15	2.2	W	2017-09-21	02:25	0.9	NE	2017-09-21	09:35	0.9	NE
2017-09-20	19:20	1.8	NNE	2017-09-21	02:30	1.8	NE	2017-09-21	09:40	0.4	ESE
2017-09-20	19:25	1.8	NNE	2017-09-21	02:35	0.9	SW	2017-09-21	09:45	0.4	NE
2017-09-20	19:30	0.9	ENE	2017-09-21	02:40	2.2	N	2017-09-21	09:50	0.4	NNE
2017-09-20	19:35	0.9	E	2017-09-21	02:45	0.9	NNE	2017-09-21	09:55	1.3	NE
2017-09-20	19:40	1.3	NE	2017-09-21	02:50	0.9	NNE	2017-09-21	10:00	0.9	SSW
2017-09-20	19:45	2.2	W	2017-09-21	02:55	0.4	NE	2017-09-21	10:05	0.4	NE
2017-09-20	19:50	0.4	SSE	2017-09-21	03:00	0.4	NNE	2017-09-21	10:10	0.4	ENE
2017-09-20	19:55	2.7	W	2017-09-21	03:05	2.7	NE	2017-09-21	10:15	0.4	NNE
2017-09-20	20:00	1.3	NNE	2017-09-21	03:10	1.3	WSW	2017-09-21	10:20	0.9	NE
2017-09-20	20:05	0.9	W	2017-09-21	03:15	0.4	N	2017-09-21	10:25	1.3	N
2017-09-20	20:10	2.2	W	2017-09-21	03:20	0.4	NE	2017-09-21	10:30	1.3	NE
2017-09-20	20:15	3.1	W	2017-09-21	03:25	0.4	NE	2017-09-21	10:35	1.3	NNE
2017-09-20	20:20	2.2	W	2017-09-21	03:30	1.8	NE	2017-09-21	10:40	0.9	NE
2017-09-20	20:25	2.7	WSW	2017-09-21	03:35	1.8	NE	2017-09-21	10:45	0.4	NE
2017-09-20	20:30	1.3	W	2017-09-21	03:40	1.3	NE	2017-09-21	10:50	3.1	NE
2017-09-20	20:35	3.1	W	2017-09-21	03:45	1.8	ENE	2017-09-21	10:55	1.3	NE
2017-09-20	20:40	1.3	WNW	2017-09-21	03:50	2.2	E	2017-09-21	11:00	1.8	N
2017-09-20	20:45	3.1	W	2017-09-21	03:55	0.9	NNE	2017-09-21	11:05	1.8	W
2017-09-20	20:50	2.2	W	2017-09-21	04:00	0.9	SSW	2017-09-21	11:10	1.8	NW
2017-09-20	20:55	1.3	E	2017-09-21	04:05	1.8	NNE	2017-09-21	11:15	0.4	NE
2017-09-20	21:00	2.7	W	2017-09-21	04:10	1.3	NNE	2017-09-21	11:20	0.4	NE
2017-09-20	21:05	1.8	WNW	2017-09-21	04:15	1.3	W	2017-09-21	11:25	0.4	WSW
2017-09-20	21:10	0.9	NE	2017-09-21	04:20	1.3	NNE	2017-09-21	11:30	0.9	SSW
2017-09-20	21:15	2.2	NW	2017-09-21	04:25	0.9	WSW	2017-09-21	11:35	0.4	W
2017-09-20	21:20	4.5	W	2017-09-21	04:30	2.2	ENE	2017-09-21	11:40	1.3	NE
2017-09-20	21:25	1.8	WNW	2017-09-21	04:35	0.9	NE	2017-09-21	11:45	0.4	N
2017-09-20	21:30	1.3	NNW	2017-09-21	04:40	1.8	ENE	2017-09-21	11:50	0.9	NNE
2017-09-20	21:35	3.1	W	2017-09-21	04:45	1.3	NE	2017-09-21	11:55	0.4	NE
2017-09-20	21:40	4.9	W	2017-09-21	04:50	1.3	NE	2017-09-21	12:00	0.4	NNE
2017-09-20	21:45	2.2	WSW	2017-09-21	04:55	0.4	ENE	2017-09-21	12:05	0.4	WSW
2017-09-20	21:50	0.9	WNW	2017-09-21	05:00	0.9	NE	2017-09-21	12:10	0.9	NNE
2017-09-20	21:55	2.2	E	2017-09-21	05:05	0.9	SW	2017-09-21	12:15	1.8	NNE
2017-09-20	22:00	2.2	WNW	2017-09-21	05:10	3.1	N	2017-09-21	12:20	0.4	WSW
2017-09-20	22:05	2.2	E	2017-09-21	05:15	1.3	ESE	2017-09-21	12:25	1.3	NE
2017-09-20	22:10	1.8	NNE	2017-09-21	05:20	1.3	W	2017-09-21	12:30	0.9	NE
2017-09-20	22:15	2.2	WSW	2017-09-21	05:25	0.9	NE	2017-09-21	12:35	1.3	NNE
2017-09-20	22:20	1.3	E	2017-09-21	05:30	0.9	NNE	2017-09-21	12:40	0.9	NE
2017-09-20	22:25	1.8	NW	2017-09-21	05:35	1.3	NE	2017-09-21	12:45	1.8	WSW
2017-09-20	22:30	1.3	NNW	2017-09-21	05:40	0.4	N	2017-09-21	12:50	0.9	NE
2017-09-20	22:35	2.2	W	2017-09-21	05:45	0.4	NE	2017-09-21	12:55	0.9	NNE
2017-09-20	22:40	0.9	E	2017-09-21	05:50	1.3	NE	2017-09-21	13:00	1.3	N
2017-09-20	22:45	2.2	W	2017-09-21	05:55	1.3	SW	2017-09-21	13:05	1.3	NNE
2017-09-20	22:50	2.2	WSW	2017-09-21	06:00	0.9	NE	2017-09-21	13:10	0.4	NE
2017-09-20	22:55	1.8	NE	2017-09-21	06:05	0.9	SSW	2017-09-21	13:15	1.3	NNE
2017-09-20	23:00	2.2	WSW	2017-09-21	06:10	1.3	NE	2017-09-21	13:20	0.9	SW
2017-09-20	23:05	3.1	W	2017-09-21	06:15	0.4	NW	2017-09-21	13:25	0.4	WSW
2017-09-20	23:10	1.8	NE	2017-09-21	06:20	1.3	N	2017-09-21	13:30	1.3	NE
2017-09-20	23:15	4.5	WSW	2017-09-21	06:25	1.3	NE	2017-09-21	13:35	1.3	NE
2017-09-20	23:20	0.9	NW	2017-09-21	06:30	0.4	NNE	2017-09-21	13:40	1.8	W
2017-09-20	23:25	2.7	ENE	2017-09-21	06:35	1.3	NE	2017-09-21	13:45	1.3	NE
2017-09-20	23:30	2.2	WNW	2017-09-21	06:40	0.9	SW	2017-09-21	13:50	1.3	SW
2017-09-20	23:35	1.8	E	2017-09-21	06:45	1.3	NE	2017-09-21	13:55	0.9	NNE
2017-09-20	23:40	2.2	WNW	2017-09-21	06:50	0.4	NE	2017-09-21	14:00	2.7	NE
2017-09-20	23:45	0.9	E	2017-09-21	06:55	0.4	NE	2017-09-21	14:05	0.4	NE
2017-09-20	23:50	2.7	W	2017-09-21	07:00	1.3	NE	2017-09-21	14:10	0.4	NE
2017-09-20	23:55	1.8	WNW	2017-09-21	07:05	2.2	E	2017-09-21	14:15	0.9	NE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-21	14:20	1.8	N	2017-09-21	21:30	1.8	N	2017-09-22	04:40	4.5	ENE
2017-09-21	14:25	0.4	ESE	2017-09-21	21:35	1.3	WSW	2017-09-22	04:45	0.4	E
2017-09-21	14:30	0.9	NE	2017-09-21	21:40	0.9	NE	2017-09-22	04:50	2.2	ENE
2017-09-21	14:35	0.4	NNE	2017-09-21	21:45	0.4	ESE	2017-09-22	04:55	1.8	W
2017-09-21	14:40	0.4	ESE	2017-09-21	21:50	0.4	WSW	2017-09-22	05:00	3.1	ENE
2017-09-21	14:45	1.8	NNE	2017-09-21	21:55	0.4	N	2017-09-22	05:05	3.6	E
2017-09-21	14:50	2.2	NNE	2017-09-21	22:00	1.8	ENE	2017-09-22	05:10	2.7	NE
2017-09-21	14:55	0.9	N	2017-09-21	22:05	2.2	NE	2017-09-22	05:15	3.1	E
2017-09-21	15:00	0.9	NNE	2017-09-21	22:10	1.3	NNE	2017-09-22	05:20	1.3	NE
2017-09-21	15:05	1.3	N	2017-09-21	22:15	1.3	WSW	2017-09-22	05:25	0.4	NNW
2017-09-21	15:10	1.8	NE	2017-09-21	22:20	1.3	NE	2017-09-22	05:30	2.2	NE
2017-09-21	15:15	1.3	NNW	2017-09-21	22:25	1.3	NE	2017-09-22	05:35	2.7	NNE
2017-09-21	15:20	1.3	WSW	2017-09-21	22:30	0.9	NE	2017-09-22	05:40	1.3	N
2017-09-21	15:25	2.2	NE	2017-09-21	22:35	1.3	NE	2017-09-22	05:45	4.9	ENE
2017-09-21	15:30	1.3	WSW	2017-09-21	22:40	0.4	WSW	2017-09-22	05:50	4.9	ENE
2017-09-21	15:35	1.3	N	2017-09-21	22:45	0.9	NE	2017-09-22	05:55	1.3	NE
2017-09-21	15:40	1.3	NNE	2017-09-21	22:50	2.2	ENE	2017-09-22	06:00	3.6	ENE
2017-09-21	15:45	1.3	WSW	2017-09-21	22:55	3.1	NE	2017-09-22	06:05	1.8	ENE
2017-09-21	15:50	0.4	SW	2017-09-21	23:00	0.4	NE	2017-09-22	06:10	1.8	NE
2017-09-21	15:55	0.4	NE	2017-09-21	23:05	0.9	NNE	2017-09-22	06:15	3.1	ENE
2017-09-21	16:00	1.3	WSW	2017-09-21	23:10	1.3	NE	2017-09-22	06:20	3.6	ENE
2017-09-21	16:05	1.3	NNE	2017-09-21	23:15	0.4	NNE	2017-09-22	06:25	5.4	E
2017-09-21	16:10	0.9	WSW	2017-09-21	23:20	0.4	WSW	2017-09-22	06:30	4.9	E
2017-09-21	16:15	0.4	ESE	2017-09-21	23:25	0.9	NNE	2017-09-22	06:35	3.6	ENE
2017-09-21	16:20	0.4	ESE	2017-09-21	23:30	1.3	WSW	2017-09-22	06:40	3.6	NE
2017-09-21	16:25	1.3	N	2017-09-21	23:35	0.9	ENE	2017-09-22	06:45	2.7	ENE
2017-09-21	16:30	0.4	NE	2017-09-21	23:40	0.4	SW	2017-09-22	06:50	2.2	ENE
2017-09-21	16:35	1.3	NNE	2017-09-21	23:45	1.3	NNE	2017-09-22	06:55	2.7	NNE
2017-09-21	16:40	0.4	NNE	2017-09-21	23:50	0.4	ESE	2017-09-22	07:00	2.2	NE
2017-09-21	16:45	0.9	NE	2017-09-21	23:55	1.8	ENE	2017-09-22	07:05	1.8	NNE
2017-09-21	16:50	0.9	NE	2017-09-22	00:00	1.3	N	2017-09-22	07:10	1.8	NE
2017-09-21	16:55	1.3	ENE	2017-09-22	00:05	1.8	N	2017-09-22	07:15	3.6	E
2017-09-21	17:00	0.9	SSW	2017-09-22	00:10	6.7	E	2017-09-22	07:20	4	ENE
2017-09-21	17:05	0.9	NE	2017-09-22	00:15	4.5	NE	2017-09-22	07:25	2.2	NE
2017-09-21	17:10	2.7	NE	2017-09-22	00:20	2.2	NE	2017-09-22	07:30	3.1	NE
2017-09-21	17:15	1.3	SW	2017-09-22	00:25	3.1	ENE	2017-09-22	07:35	2.7	ENE
2017-09-21	17:20	0.4	NE	2017-09-22	00:30	3.6	NE	2017-09-22	07:40	0.9	NNW
2017-09-21	17:25	0.9	N	2017-09-22	00:35	3.6	ENE	2017-09-22	07:45	3.6	ENE
2017-09-21	17:30	0.4	WSW	2017-09-22	00:40	1.8	NE	2017-09-22	07:50	4	ENE
2017-09-21	17:35	0.4	N	2017-09-22	00:45	1.3	NNE	2017-09-22	07:55	1.3	NE
2017-09-21	17:40	1.3	NE	2017-09-22	00:50	4	ENE	2017-09-22	08:00	4.5	ENE
2017-09-21	17:45	0.4	ESE	2017-09-22	00:55	1.8	NE	2017-09-22	08:05	0.9	WSW
2017-09-21	17:50	1.3	NE	2017-09-22	01:00	1.8	NNE	2017-09-22	08:10	2.7	NE
2017-09-21	17:55	1.3	ENE	2017-09-22	01:05	1.8	ENE	2017-09-22	08:15	3.6	E
2017-09-21	18:00	0.4	WSW	2017-09-22	01:10	5.4	ENE	2017-09-22	08:20	0.4	NNW
2017-09-21	18:05	2.2	ENE	2017-09-22	01:15	2.2	NNE	2017-09-22	08:25	1.8	WNW
2017-09-21	18:10	0.9	NE	2017-09-22	01:20	2.7	NE	2017-09-22	08:30	4.9	ENE
2017-09-21	18:15	0.4	NNE	2017-09-22	01:25	0.9	NNW	2017-09-22	08:35	3.6	E
2017-09-21	18:20	0.9	NNW	2017-09-22	01:30	0.9	WNW	2017-09-22	08:40	2.2	NE
2017-09-21	18:25	0.4	WSW	2017-09-22	01:35	0.9	NNW	2017-09-22	08:45	1.3	ENE
2017-09-21	18:30	0.4	NE	2017-09-22	01:40	1.3	NNE	2017-09-22	08:50	3.1	ENE
2017-09-21	18:35	0.4	WSW	2017-09-22	01:45	3.6	ENE	2017-09-22	08:55	3.1	ENE
2017-09-21	18:40	2.2	NE	2017-09-22	01:50	3.6	NE	2017-09-22	09:00	1.8	ENE
2017-09-21	18:45	1.8	ENE	2017-09-22	01:55	0.9	W	2017-09-22	09:05	3.1	ENE
2017-09-21	18:50	1.8	ENE	2017-09-22	02:00	3.6	E	2017-09-22	09:10	4	ENE
2017-09-21	18:55	0.4	WSW	2017-09-22	02:05	2.7	ENE	2017-09-22	09:15	3.6	ENE
2017-09-21	19:00	0.9	NE	2017-09-22	02:10	0.9	NNW	2017-09-22	09:20	3.1	ENE
2017-09-21	19:05	0.4	SW	2017-09-22	02:15	4	ENE	2017-09-22	09:25	2.7	NE
2017-09-21	19:10	0.4	NE	2017-09-22	02:20	4.9	ENE	2017-09-22	09:30	2.7	ENE
2017-09-21	19:15	1.8	ENE	2017-09-22	02:25	4	ENE	2017-09-22	09:35	4	ENE
2017-09-21	19:20	0.4	WSW	2017-09-22	02:30	4	ENE	2017-09-22	09:40	4.9	ENE
2017-09-21	19:25	0.9	N	2017-09-22	02:35	3.6	NE	2017-09-22	09:45	0.9	WSW
2017-09-21	19:30	0.9	N	2017-09-22	02:40	1.8	NNE	2017-09-22	09:50	1.3	NNW
2017-09-21	19:35	0.9	NE	2017-09-22	02:45	2.7	ENE	2017-09-22	09:55	3.6	ENE
2017-09-21	19:40	0.9	SSW	2017-09-22	02:50	7.2	E	2017-09-22	10:00	1.3	NE
2017-09-21	19:45	1.3	WSW	2017-09-22	02:55	1.8	NE	2017-09-22	10:05	3.1	ENE
2017-09-21	19:50	0.4	ENE	2017-09-22	03:00	5.4	E	2017-09-22	10:10	3.1	ENE
2017-09-21	19:55	0.4	NE	2017-09-22	03:05	2.7	E	2017-09-22	10:15	4	ENE
2017-09-21	20:00	1.8	ENE	2017-09-22	03:10	5.8	E	2017-09-22	10:20	4	ENE
2017-09-21	20:05	0.9	WSW	2017-09-22	03:15	0.4	N	2017-09-22	10:25	2.7	ENE
2017-09-21	20:10	1.8	NNW	2017-09-22	03:20	4.5	ENE	2017-09-22	10:30	2.7	NE
2017-09-21	20:15	2.2	NE	2017-09-22	03:25	4.5	E	2017-09-22	10:35	2.7	NE
2017-09-21	20:20	0.9	NE	2017-09-22	03:30	3.6	ENE	2017-09-22	10:40	4	NE
2017-09-21	20:25	0.4	SW	2017-09-22	03:35	4	ENE	2017-09-22	10:45	4	E
2017-09-21	20:30	1.3	NE	2017-09-22	03:40	4	E	2017-09-22	10:50	1.3	E
2017-09-21	20:35	1.3	NE	2017-09-22	03:45	1.8	ENE	2017-09-22	10:55	2.7	NE
2017-09-21	20:40	0.9	SW	2017-09-22	03:50	2.7	ENE	2017-09-22	11:00	1.3	NE
2017-09-21	20:45	2.7	NE	2017-09-22	03:55	2.2	ENE	2017-09-22	11:05	2.2	NE
2017-09-21	20:50	0.9	NE	2017-09-22	04:00	2.7	ENE	2017-09-22	11:10	1.8	ENE
2017-09-21	20:55	1.3	NNE	2017-09-22	04:05	3.1	ENE	2017-09-22	11:15	6.7	E
2017-09-21	21:00	1.3	NNE	2017-09-22	04:10	2.7	ENE	2017-09-22	11:20	0.9	W
2017-09-21	21:05	0.9	NE	2017-09-22	04:15	5.4	ENE	2017-09-22	11:25	1.8	ENE
2017-09-21	21:10	0.9	NE	2017-09-22	04:20	4	ENE	2017-09-22	11:30	0.9	E
2017-09-21	21:15	0.4	ESE	2017-09-22	04:25	2.2	ENE	2017-09-22	11:35	1.3	E
2017-09-21	21:20	0.9	ENE	2017-09-22	04:30	4	NE	2017-09-22	11:40	3.6	ENE
2017-09-21	21:25	0.9	N	2017-09-22	04:35	1.8	NE	2017-09-22	11:45	0.9	W

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-22	11:50	2.2	ENE	2017-09-22	19:00	4.9	ENE	2017-09-23	02:10	2.2	N
2017-09-22	11:55	1.3	N	2017-09-22	19:05	5.8	E	2017-09-23	02:15	2.2	NE
2017-09-22	12:00	0.9	NNW	2017-09-22	19:10	0.9	NNW	2017-09-23	02:20	2.7	NE
2017-09-22	12:05	4	ENE	2017-09-22	19:15	3.1	ENE	2017-09-23	02:25	4.9	E
2017-09-22	12:10	0.9	NNE	2017-09-22	19:20	2.7	NE	2017-09-23	02:30	6.3	ENE
2017-09-22	12:15	1.8	ENE	2017-09-22	19:25	4	NE	2017-09-23	02:35	4.9	ENE
2017-09-22	12:20	2.2	ENE	2017-09-22	19:30	0.9	NNW	2017-09-23	02:40	3.1	E
2017-09-22	12:25	0.4	E	2017-09-22	19:35	1.8	ENE	2017-09-23	02:45	4.5	ENE
2017-09-22	12:30	2.2	NNE	2017-09-22	19:40	4	ENE	2017-09-23	02:50	4	ENE
2017-09-22	12:35	4	NE	2017-09-22	19:45	6.3	ENE	2017-09-23	02:55	4.5	ENE
2017-09-22	12:40	4.9	ENE	2017-09-22	19:50	1.3	NE	2017-09-23	03:00	3.1	NE
2017-09-22	12:45	2.7	ENE	2017-09-22	19:55	1.3	NNE	2017-09-23	03:05	2.2	ENE
2017-09-22	12:50	1.3	NE	2017-09-22	20:00	3.6	ENE	2017-09-23	03:10	2.2	NE
2017-09-22	12:55	1.8	NNE	2017-09-22	20:05	1.8	ENE	2017-09-23	03:15	3.1	ENE
2017-09-22	13:00	6.7	E	2017-09-22	20:10	3.1	ENE	2017-09-23	03:20	4	NE
2017-09-22	13:05	2.2	ENE	2017-09-22	20:15	3.6	ENE	2017-09-23	03:25	2.2	W
2017-09-22	13:10	4.5	ENE	2017-09-22	20:20	2.7	NE	2017-09-23	03:30	3.1	ENE
2017-09-22	13:15	2.7	NE	2017-09-22	20:25	4.9	ENE	2017-09-23	03:35	1.8	W
2017-09-22	13:20	3.1	NNE	2017-09-22	20:30	2.7	ENE	2017-09-23	03:40	3.1	ENE
2017-09-22	13:25	2.7	ENE	2017-09-22	20:35	5.8	ENE	2017-09-23	03:45	2.2	NE
2017-09-22	13:30	4.5	NE	2017-09-22	20:40	0.9	NNW	2017-09-23	03:50	3.6	E
2017-09-22	13:35	3.6	ENE	2017-09-22	20:45	4.5	E	2017-09-23	03:55	4	NE
2017-09-22	13:40	3.6	ENE	2017-09-22	20:50	3.1	NE	2017-09-23	04:00	4.9	ENE
2017-09-22	13:45	3.1	ENE	2017-09-22	20:55	3.1	ENE	2017-09-23	04:05	2.2	ENE
2017-09-22	13:50	0.9	NNW	2017-09-22	21:00	0.9	NNW	2017-09-23	04:10	4.5	ENE
2017-09-22	13:55	0.9	NNW	2017-09-22	21:05	3.1	ENE	2017-09-23	04:15	3.1	NE
2017-09-22	14:00	2.7	ENE	2017-09-22	21:10	3.1	NE	2017-09-23	04:20	1.3	E
2017-09-22	14:05	4.5	ENE	2017-09-22	21:15	2.2	ENE	2017-09-23	04:25	0.4	NNW
2017-09-22	14:10	6.7	E	2017-09-22	21:20	5.4	E	2017-09-23	04:30	1.8	E
2017-09-22	14:15	1.8	ENE	2017-09-22	21:25	2.2	ENE	2017-09-23	04:35	4.9	E
2017-09-22	14:20	0.9	NNW	2017-09-22	21:30	2.2	NNE	2017-09-23	04:40	0.4	ESE
2017-09-22	14:25	3.1	NE	2017-09-22	21:35	2.2	NE	2017-09-23	04:45	3.6	ENE
2017-09-22	14:30	4	E	2017-09-22	21:40	2.2	W	2017-09-23	04:50	0.4	SW
2017-09-22	14:35	2.7	ENE	2017-09-22	21:45	3.6	ENE	2017-09-23	04:55	1.3	NE
2017-09-22	14:40	3.6	ENE	2017-09-22	21:50	1.8	ENE	2017-09-23	05:00	5.8	E
2017-09-22	14:45	5.8	E	2017-09-22	21:55	4.5	ENE	2017-09-23	05:05	2.2	E
2017-09-22	14:50	5.8	E	2017-09-22	22:00	1.3	NNE	2017-09-23	05:10	4.5	ENE
2017-09-22	14:55	2.7	ENE	2017-09-22	22:05	1.8	NE	2017-09-23	05:15	1.3	WSW
2017-09-22	15:00	4.9	ENE	2017-09-22	22:10	2.7	ENE	2017-09-23	05:20	2.2	ENE
2017-09-22	15:05	4.5	ENE	2017-09-22	22:15	1.8	ENE	2017-09-23	05:25	2.7	WSW
2017-09-22	15:10	6.3	E	2017-09-22	22:20	0.9	NE	2017-09-23	05:30	1.8	NE
2017-09-22	15:15	4	ENE	2017-09-22	22:25	3.6	NE	2017-09-23	05:35	4	E
2017-09-22	15:20	4	ENE	2017-09-22	22:30	4	ENE	2017-09-23	05:40	1.8	WSW
2017-09-22	15:25	0.9	WNW	2017-09-22	22:35	0.9	NNW	2017-09-23	05:45	2.2	NNE
2017-09-22	15:30	4	NE	2017-09-22	22:40	4.9	ENE	2017-09-23	05:50	5.4	ENE
2017-09-22	15:35	5.4	ENE	2017-09-22	22:45	1.8	NE	2017-09-23	05:55	4.5	ENE
2017-09-22	15:40	4.9	NE	2017-09-22	22:50	3.6	ENE	2017-09-23	06:00	2.2	NNE
2017-09-22	15:45	4.9	ENE	2017-09-22	22:55	4.5	ENE	2017-09-23	06:05	2.2	NNE
2017-09-22	15:50	2.7	E	2017-09-22	23:00	4	NE	2017-09-23	06:10	4.9	ENE
2017-09-22	15:55	4.9	E	2017-09-22	23:05	1.8	NE	2017-09-23	06:15	4.9	E
2017-09-22	16:00	2.2	ENE	2017-09-22	23:10	2.2	ENE	2017-09-23	06:20	4.9	E
2017-09-22	16:05	2.7	ENE	2017-09-22	23:15	3.6	ENE	2017-09-23	06:25	5.4	ENE
2017-09-22	16:10	4.5	ENE	2017-09-22	23:20	4.5	ENE	2017-09-23	06:30	2.2	NNE
2017-09-22	16:15	4	ENE	2017-09-22	23:25	1.3	NE	2017-09-23	06:35	3.1	NE
2017-09-22	16:20	6.7	E	2017-09-22	23:30	5.8	ENE	2017-09-23	06:40	0.4	SW
2017-09-22	16:25	2.2	E	2017-09-22	23:35	1.8	NNE	2017-09-23	06:45	3.1	NE
2017-09-22	16:30	5.8	ENE	2017-09-22	23:40	3.1	ENE	2017-09-23	06:50	4.9	NE
2017-09-22	16:35	5.4	NE	2017-09-22	23:45	0.9	NNW	2017-09-23	06:55	5.4	ENE
2017-09-22	16:40	0.4	NE	2017-09-22	23:50	5.4	ENE	2017-09-23	07:00	3.1	ENE
2017-09-22	16:45	4.5	NE	2017-09-22	23:55	0.9	NNW	2017-09-23	07:05	4.5	ENE
2017-09-22	16:50	3.6	ENE	2017-09-23	00:00	4.5	ENE	2017-09-23	07:10	4.5	E
2017-09-22	16:55	4	ENE	2017-09-23	00:05	4	ENE	2017-09-23	07:15	6.3	E
2017-09-22	17:00	4.5	NE	2017-09-23	00:10	5.4	ENE	2017-09-23	07:20	2.7	NE
2017-09-22	17:05	3.1	ENE	2017-09-23	00:15	0.4	E	2017-09-23	07:25	3.6	ENE
2017-09-22	17:10	4	NE	2017-09-23	00:20	4	E	2017-09-23	07:30	1.8	NNE
2017-09-22	17:15	1.3	NE	2017-09-23	00:25	4.5	E	2017-09-23	07:35	4.9	E
2017-09-22	17:20	1.8	E	2017-09-23	00:30	5.4	E	2017-09-23	07:40	4.5	NE
2017-09-22	17:25	4	ENE	2017-09-23	00:35	2.2	WSW	2017-09-23	07:45	4	ENE
2017-09-22	17:30	5.8	ENE	2017-09-23	00:40	2.2	N	2017-09-23	07:50	1.8	E
2017-09-22	17:35	0.9	NNW	2017-09-23	00:45	1.8	NE	2017-09-23	07:55	2.2	NNE
2017-09-22	17:40	0.9	NNW	2017-09-23	00:50	4	ENE	2017-09-23	08:00	4.9	NE
2017-09-22	17:45	1.8	E	2017-09-23	00:55	3.1	ENE	2017-09-23	08:05	2.2	NE
2017-09-22	17:50	5.4	ENE	2017-09-23	01:00	1.3	E	2017-09-23	08:10	0.9	NW
2017-09-22	17:55	4	ENE	2017-09-23	01:05	4.9	ENE	2017-09-23	08:15	4.9	NE
2017-09-22	18:00	4.5	NE	2017-09-23	01:10	7.2	E	2017-09-23	08:20	1.3	WNW
2017-09-22	18:05	4.9	E	2017-09-23	01:15	5.4	ENE	2017-09-23	08:25	2.2	NNE
2017-09-22	18:10	4.9	ENE	2017-09-23	01:20	4.5	ENE	2017-09-23	08:30	2.7	WSW
2017-09-22	18:15	1.3	NNE	2017-09-23	01:25	1.8	N	2017-09-23	08:35	1.8	NNE
2017-09-22	18:20	3.6	ENE	2017-09-23	01:30	0.4	N	2017-09-23	08:40	2.2	E
2017-09-22	18:25	3.6	ENE	2017-09-23	01:35	4	ENE	2017-09-23	08:45	4	ENE
2017-09-22	18:30	1.8	ENE	2017-09-23	01:40	1.8	E	2017-09-23	08:50	3.1	NE
2017-09-22	18:35	2.2	ENE	2017-09-23	01:45	0.9	NW	2017-09-23	08:55	4	ENE
2017-09-22	18:40	1.3	N	2017-09-23	01:50	5.4	E	2017-09-23	09:00	2.2	ENE
2017-09-22	18:45	4.5	ENE	2017-09-23	01:55	4.9	ENE	2017-09-23	09:05	5.4	NE
2017-09-22	18:50	1.3	NE	2017-09-23	02:00	0.9	E	2017-09-23	09:10	4.9	ENE
2017-09-22	18:55	0.9	NNW	2017-09-23	02:05	3.1	E	2017-09-23	09:15	1.8	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-23	09:20	4.5	E	2017-09-23	16:30	6.3	E	2017-09-23	23:40	0.9	WSW
2017-09-23	09:25	4.9	ENE	2017-09-23	16:35	3.6	E	2017-09-23	23:45	3.6	ENE
2017-09-23	09:30	2.7	ENE	2017-09-23	16:40	0.9	NW	2017-09-23	23:50	2.2	W
2017-09-23	09:35	0.9	NE	2017-09-23	16:45	0.4	E	2017-09-23	23:55	1.8	W
2017-09-23	09:40	4	E	2017-09-23	16:50	2.7	ENE	2017-09-24	00:00	3.6	E
2017-09-23	09:45	4.9	ENE	2017-09-23	16:55	3.1	ENE	2017-09-24	00:05	4.9	ENE
2017-09-23	09:50	4.5	ENE	2017-09-23	17:00	4.5	NE	2017-09-24	00:10	5.4	E
2017-09-23	09:55	2.7	ENE	2017-09-23	17:05	5.4	ENE	2017-09-24	00:15	4.5	ENE
2017-09-23	10:00	0.9	SW	2017-09-23	17:10	4.9	ENE	2017-09-24	00:20	1.8	W
2017-09-23	10:05	4	E	2017-09-23	17:15	1.3	WNW	2017-09-24	00:25	4.5	ENE
2017-09-23	10:10	2.7	E	2017-09-23	17:20	2.2	NNE	2017-09-24	00:30	3.1	ENE
2017-09-23	10:15	0.4	ENE	2017-09-23	17:25	4	ENE	2017-09-24	00:35	4	E
2017-09-23	10:20	4.9	ENE	2017-09-23	17:30	4.9	E	2017-09-24	00:40	4.9	ENE
2017-09-23	10:25	0.4	NW	2017-09-23	17:35	4	ENE	2017-09-24	00:45	3.6	E
2017-09-23	10:30	1.8	NNE	2017-09-23	17:40	0.4	ENE	2017-09-24	00:50	4	ENE
2017-09-23	10:35	4.5	ENE	2017-09-23	17:45	0.4	ESE	2017-09-24	00:55	2.2	ENE
2017-09-23	10:40	4.5	NE	2017-09-23	17:50	4	E	2017-09-24	01:00	4.9	ENE
2017-09-23	10:45	1.3	WNW	2017-09-23	17:55	3.6	ENE	2017-09-24	01:05	5.4	E
2017-09-23	10:50	3.1	NE	2017-09-23	18:00	0.4	WNW	2017-09-24	01:10	2.2	NNE
2017-09-23	10:55	0.4	W	2017-09-23	18:05	1.3	WSW	2017-09-24	01:15	1.8	N
2017-09-23	11:00	0.4	WNW	2017-09-23	18:10	3.1	E	2017-09-24	01:20	0.9	NW
2017-09-23	11:05	0.9	SW	2017-09-23	18:15	3.1	NE	2017-09-24	01:25	5.8	ENE
2017-09-23	11:10	6.3	ENE	2017-09-23	18:20	4.9	NE	2017-09-24	01:30	4.5	ENE
2017-09-23	11:15	6.3	E	2017-09-23	18:25	0.4	E	2017-09-24	01:35	0.9	SW
2017-09-23	11:20	0.4	E	2017-09-23	18:30	1.3	E	2017-09-24	01:40	5.4	ENE
2017-09-23	11:25	1.3	E	2017-09-23	18:35	1.3	W	2017-09-24	01:45	0.9	NNW
2017-09-23	11:30	4	NE	2017-09-23	18:40	1.8	N	2017-09-24	01:50	1.8	WSW
2017-09-23	11:35	2.7	NE	2017-09-23	18:45	0.9	E	2017-09-24	01:55	1.3	WNW
2017-09-23	11:40	3.6	E	2017-09-23	18:50	1.3	WSW	2017-09-24	02:00	1.3	NNE
2017-09-23	11:45	6.7	E	2017-09-23	18:55	0.4	ESE	2017-09-24	02:05	4	NE
2017-09-23	11:50	5.8	ENE	2017-09-23	19:00	2.7	NE	2017-09-24	02:10	1.3	WNW
2017-09-23	11:55	1.8	E	2017-09-23	19:05	0.9	WSW	2017-09-24	02:15	2.7	NE
2017-09-23	12:00	4.9	E	2017-09-23	19:10	4.9	ENE	2017-09-24	02:20	0.4	E
2017-09-23	12:05	2.7	NE	2017-09-23	19:15	1.3	WNW	2017-09-24	02:25	3.1	NE
2017-09-23	12:10	1.8	WSW	2017-09-23	19:20	2.7	E	2017-09-24	02:30	2.2	NE
2017-09-23	12:15	4	E	2017-09-23	19:25	4.5	ENE	2017-09-24	02:35	3.6	E
2017-09-23	12:20	4.5	ENE	2017-09-23	19:30	4.5	ENE	2017-09-24	02:40	4	NE
2017-09-23	12:25	0.4	E	2017-09-23	19:35	5.8	ENE	2017-09-24	02:45	4	E
2017-09-23	12:30	3.1	W	2017-09-23	19:40	0.9	ENE	2017-09-24	02:50	4	NE
2017-09-23	12:35	2.2	NNE	2017-09-23	19:45	4.9	ENE	2017-09-24	02:55	4.5	E
2017-09-23	12:40	1.8	NNE	2017-09-23	19:50	4.5	ENE	2017-09-24	03:00	1.8	W
2017-09-23	12:45	0.9	WSW	2017-09-23	19:55	2.7	NNE	2017-09-24	03:05	3.6	ENE
2017-09-23	12:50	3.6	ENE	2017-09-23	20:00	3.6	ENE	2017-09-24	03:10	2.7	NNE
2017-09-23	12:55	2.2	E	2017-09-23	20:05	2.2	NE	2017-09-24	03:15	0.9	WNW
2017-09-23	13:00	1.3	ENE	2017-09-23	20:10	4.9	ENE	2017-09-24	03:20	0.4	ENE
2017-09-23	13:05	1.3	WNW	2017-09-23	20:15	1.3	WSW	2017-09-24	03:25	2.2	W
2017-09-23	13:10	4.9	ENE	2017-09-23	20:20	1.3	E	2017-09-24	03:30	3.6	ENE
2017-09-23	13:15	2.2	NE	2017-09-23	20:25	5.4	ENE	2017-09-24	03:35	5.4	ENE
2017-09-23	13:20	5.8	E	2017-09-23	20:30	0.9	WSW	2017-09-24	03:40	6.3	ENE
2017-09-23	13:25	1.3	WSW	2017-09-23	20:35	4.9	ENE	2017-09-24	03:45	3.1	E
2017-09-23	13:30	4	E	2017-09-23	20:40	1.3	N	2017-09-24	03:50	2.7	WSW
2017-09-23	13:35	2.2	ENE	2017-09-23	20:45	4.5	ENE	2017-09-24	03:55	4	ENE
2017-09-23	13:40	4.9	ENE	2017-09-23	20:50	4.9	E	2017-09-24	04:00	3.6	ENE
2017-09-23	13:45	1.8	NE	2017-09-23	20:55	3.6	E	2017-09-24	04:05	4.9	ENE
2017-09-23	13:50	3.6	E	2017-09-23	21:00	4.9	E	2017-09-24	04:10	0.4	SW
2017-09-23	13:55	1.3	E	2017-09-23	21:05	1.3	NNE	2017-09-24	04:15	4	E
2017-09-23	14:00	5.4	ENE	2017-09-23	21:10	4.5	ENE	2017-09-24	04:20	2.2	NE
2017-09-23	14:05	3.6	ENE	2017-09-23	21:15	1.3	NE	2017-09-24	04:25	3.1	ENE
2017-09-23	14:10	4	ENE	2017-09-23	21:20	4.5	ENE	2017-09-24	04:30	4.5	NE
2017-09-23	14:15	0.4	WNW	2017-09-23	21:25	2.7	NE	2017-09-24	04:35	1.8	NE
2017-09-23	14:20	0.9	SW	2017-09-23	21:30	0.4	ENE	2017-09-24	04:40	0.9	E
2017-09-23	14:25	2.2	E	2017-09-23	21:35	0.9	NE	2017-09-24	04:45	3.1	NE
2017-09-23	14:30	4.5	ENE	2017-09-23	21:40	1.8	ENE	2017-09-24	04:50	2.7	E
2017-09-23	14:35	0.9	NNW	2017-09-23	21:45	6.3	E	2017-09-24	04:55	5.4	ENE
2017-09-23	14:40	0.9	W	2017-09-23	21:50	4.9	E	2017-09-24	05:00	2.7	WSW
2017-09-23	14:45	4.9	E	2017-09-23	21:55	4.5	E	2017-09-24	05:05	1.8	E
2017-09-23	14:50	5.4	E	2017-09-23	22:00	6.3	E	2017-09-24	05:10	2.7	ENE
2017-09-23	14:55	1.8	W	2017-09-23	22:05	6.3	ENE	2017-09-24	05:15	0.9	WSW
2017-09-23	15:00	2.7	ENE	2017-09-23	22:10	0.4	WNW	2017-09-24	05:20	2.2	E
2017-09-23	15:05	1.3	E	2017-09-23	22:15	2.7	NE	2017-09-24	05:25	4.5	ENE
2017-09-23	15:10	4.9	E	2017-09-23	22:20	2.7	NE	2017-09-24	05:30	4.9	NE
2017-09-23	15:15	5.4	ENE	2017-09-23	22:25	0.9	WNW	2017-09-24	05:35	4.5	ENE
2017-09-23	15:20	5.4	ENE	2017-09-23	22:30	2.2	E	2017-09-24	05:40	4.9	E
2017-09-23	15:25	4.5	ENE	2017-09-23	22:35	3.1	ENE	2017-09-24	05:45	4	E
2017-09-23	15:30	1.3	NE	2017-09-23	22:40	4	NE	2017-09-24	05:50	4.9	NE
2017-09-23	15:35	2.2	W	2017-09-23	22:45	4.5	NE	2017-09-24	05:55	2.2	NE
2017-09-23	15:40	4	E	2017-09-23	22:50	5.4	ENE	2017-09-24	06:00	4.9	ENE
2017-09-23	15:45	2.7	NE	2017-09-23	22:55	0.4	SW	2017-09-24	06:05	1.3	ENE
2017-09-23	15:50	3.6	E	2017-09-23	23:00	1.8	ENE	2017-09-24	06:10	2.2	E
2017-09-23	15:55	4	ENE	2017-09-23	23:05	2.2	NE	2017-09-24	06:15	4.5	ENE
2017-09-23	16:00	0.4	NE	2017-09-23	23:10	5.8	E	2017-09-24	06:20	2.7	NE
2017-09-23	16:05	1.3	WSW	2017-09-23	23:15	1.8	ENE	2017-09-24	06:25	1.8	E
2017-09-23	16:10	2.2	NE	2017-09-23	23:20	2.2	E	2017-09-24	06:30	3.6	ENE
2017-09-23	16:15	5.4	ENE	2017-09-23	23:25	4	ENE	2017-09-24	06:35	2.2	NNE
2017-09-23	16:20	5.4	ENE	2017-09-23	23:30	3.6	E	2017-09-24	06:40	0.9	NE
2017-09-23	16:25	4.5	ENE	2017-09-23	23:35	2.7	ENE	2017-09-24	06:45	6.3	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-24	06:50	0.4	ESE	2017-09-24	14:00	4	ENE	2017-09-24	21:10	1.3	E
2017-09-24	06:55	4.9	E	2017-09-24	14:05	3.1	ENE	2017-09-24	21:15	3.6	ENE
2017-09-24	07:00	2.7	ENE	2017-09-24	14:10	0.4	NW	2017-09-24	21:20	4.5	ENE
2017-09-24	07:05	4.9	ENE	2017-09-24	14:15	0.4	NE	2017-09-24	21:25	1.8	NNE
2017-09-24	07:10	0.4	E	2017-09-24	14:20	1.3	WNW	2017-09-24	21:30	1.3	W
2017-09-24	07:15	4.9	ENE	2017-09-24	14:25	2.2	NE	2017-09-24	21:35	4	E
2017-09-24	07:20	1.3	WSW	2017-09-24	14:30	3.1	NE	2017-09-24	21:40	3.6	E
2017-09-24	07:25	4.5	ENE	2017-09-24	14:35	4.5	ENE	2017-09-24	21:45	5.4	ENE
2017-09-24	07:30	1.3	WSW	2017-09-24	14:40	5.4	ENE	2017-09-24	21:50	4	ENE
2017-09-24	07:35	3.1	E	2017-09-24	14:45	4.5	ENE	2017-09-24	21:55	4.9	NE
2017-09-24	07:40	1.3	E	2017-09-24	14:50	4.5	ENE	2017-09-24	22:00	4.5	E
2017-09-24	07:45	4	E	2017-09-24	14:55	3.6	E	2017-09-24	22:05	4.9	E
2017-09-24	07:50	0.4	WNW	2017-09-24	15:00	3.6	E	2017-09-24	22:10	4	ENE
2017-09-24	07:55	2.2	NE	2017-09-24	15:05	5.4	ENE	2017-09-24	22:15	2.7	ENE
2017-09-24	08:00	1.3	WSW	2017-09-24	15:10	0.4	SW	2017-09-24	22:20	4.5	ENE
2017-09-24	08:05	4.9	E	2017-09-24	15:15	3.1	ENE	2017-09-24	22:25	0.9	SW
2017-09-24	08:10	2.2	E	2017-09-24	15:20	5.4	ENE	2017-09-24	22:30	0.4	E
2017-09-24	08:15	2.7	E	2017-09-24	15:25	4	E	2017-09-24	22:35	2.2	ENE
2017-09-24	08:20	3.6	E	2017-09-24	15:30	0.4	E	2017-09-24	22:40	2.7	NE
2017-09-24	08:25	1.8	NE	2017-09-24	15:35	4	ENE	2017-09-24	22:45	0.4	NNW
2017-09-24	08:30	2.7	NE	2017-09-24	15:40	3.1	E	2017-09-24	22:50	0.4	N
2017-09-24	08:35	4.9	E	2017-09-24	15:45	1.8	WSW	2017-09-24	22:55	4.5	ENE
2017-09-24	08:40	3.1	ENE	2017-09-24	15:50	4.9	ENE	2017-09-24	23:00	1.8	ENE
2017-09-24	08:45	4.5	NE	2017-09-24	15:55	4	E	2017-09-24	23:05	5.4	E
2017-09-24	08:50	0.4	WNW	2017-09-24	16:00	2.7	NE	2017-09-24	23:10	5.4	ENE
2017-09-24	08:55	0.9	SW	2017-09-24	16:05	4	ENE	2017-09-24	23:15	1.8	W
2017-09-24	09:00	1.3	E	2017-09-24	16:10	1.3	E	2017-09-24	23:20	1.8	ENE
2017-09-24	09:05	4	ENE	2017-09-24	16:15	2.2	N	2017-09-24	23:25	2.2	NE
2017-09-24	09:10	1.3	WNW	2017-09-24	16:20	5.4	ENE	2017-09-24	23:30	1.8	E
2017-09-24	09:15	3.6	ENE	2017-09-24	16:25	4	ENE	2017-09-24	23:35	2.2	ENE
2017-09-24	09:20	7.2	E	2017-09-24	16:30	4.9	E	2017-09-24	23:40	1.8	ENE
2017-09-24	09:25	2.2	NNE	2017-09-24	16:35	2.2	ENE	2017-09-24	23:45	4.5	ENE
2017-09-24	09:30	4	ENE	2017-09-24	16:40	0.9	W	2017-09-24	23:50	1.3	NE
2017-09-24	09:35	4.9	ENE	2017-09-24	16:45	4.5	ENE	2017-09-24	23:55	6.3	E
2017-09-24	09:40	3.1	NE	2017-09-24	16:50	2.2	E	2017-09-25	00:00	2.2	W
2017-09-24	09:45	4.9	NE	2017-09-24	16:55	1.3	NE	2017-09-25	00:05	3.6	ENE
2017-09-24	09:50	1.8	ENE	2017-09-24	17:00	2.2	NE	2017-09-25	00:10	0.4	WSW
2017-09-24	09:55	3.6	E	2017-09-24	17:05	5.4	NE	2017-09-25	00:15	2.7	ENE
2017-09-24	10:00	4.9	E	2017-09-24	17:10	1.8	NNE	2017-09-25	00:20	0.9	WSW
2017-09-24	10:05	4.9	E	2017-09-24	17:15	5.4	ENE	2017-09-25	00:25	0.9	ENE
2017-09-24	10:10	3.6	E	2017-09-24	17:20	2.2	E	2017-09-25	00:30	2.7	ENE
2017-09-24	10:15	0.4	ENE	2017-09-24	17:25	3.1	ENE	2017-09-25	00:35	3.1	NE
2017-09-24	10:20	4	ENE	2017-09-24	17:30	2.7	NE	2017-09-25	00:40	2.7	ENE
2017-09-24	10:25	1.3	WSW	2017-09-24	17:35	0.4	W	2017-09-25	00:45	1.3	NE
2017-09-24	10:30	4.9	E	2017-09-24	17:40	0.4	ESE	2017-09-25	00:50	0.4	ENE
2017-09-24	10:35	5.8	E	2017-09-24	17:45	1.3	WSW	2017-09-25	00:55	0.4	NNW
2017-09-24	10:40	2.2	E	2017-09-24	17:50	3.1	NE	2017-09-25	01:00	2.2	NE
2017-09-24	10:45	0.4	E	2017-09-24	17:55	3.1	NE	2017-09-25	01:05	2.2	E
2017-09-24	10:50	3.1	ENE	2017-09-24	18:00	2.7	ENE	2017-09-25	01:10	2.2	NNE
2017-09-24	10:55	4.5	E	2017-09-24	18:05	4.9	E	2017-09-25	01:15	1.8	NNE
2017-09-24	11:00	4.5	NE	2017-09-24	18:10	6.3	E	2017-09-25	01:20	2.7	ENE
2017-09-24	11:05	2.2	NNE	2017-09-24	18:15	1.8	NE	2017-09-25	01:25	0.9	NNE
2017-09-24	11:10	2.2	NNE	2017-09-24	18:20	4.5	ENE	2017-09-25	01:30	2.7	ENE
2017-09-24	11:15	6.3	E	2017-09-24	18:25	1.3	NE	2017-09-25	01:35	1.8	WNW
2017-09-24	11:20	2.7	NE	2017-09-24	18:30	1.3	WSW	2017-09-25	01:40	0.9	WSW
2017-09-24	11:25	0.4	SW	2017-09-24	18:35	4.5	ENE	2017-09-25	01:45	0.9	NNW
2017-09-24	11:30	2.7	NE	2017-09-24	18:40	6.3	E	2017-09-25	01:50	2.2	ENE
2017-09-24	11:35	3.1	W	2017-09-24	18:45	4.9	E	2017-09-25	01:55	2.2	ENE
2017-09-24	11:40	0.4	WNW	2017-09-24	18:50	1.3	N	2017-09-25	02:00	1.8	NE
2017-09-24	11:45	2.2	NNE	2017-09-24	18:55	0.4	ESE	2017-09-25	02:05	0.9	WNW
2017-09-24	11:50	2.7	ENE	2017-09-24	19:00	0.9	WSW	2017-09-25	02:10	0.9	E
2017-09-24	11:55	6.7	E	2017-09-24	19:05	4.5	ENE	2017-09-25	02:15	1.3	WSW
2017-09-24	12:00	4.9	E	2017-09-24	19:10	0.9	NE	2017-09-25	02:20	0.4	WSW
2017-09-24	12:05	4.5	ENE	2017-09-24	19:15	0.4	WNW	2017-09-25	02:25	1.3	W
2017-09-24	12:10	4.9	ENE	2017-09-24	19:20	2.7	NE	2017-09-25	02:30	1.8	NE
2017-09-24	12:15	0.9	E	2017-09-24	19:25	2.2	WSW	2017-09-25	02:35	1.3	NE
2017-09-24	12:20	1.8	NNE	2017-09-24	19:30	0.9	NW	2017-09-25	02:40	1.3	WSW
2017-09-24	12:25	1.8	N	2017-09-24	19:35	4.5	E	2017-09-25	02:45	1.3	NE
2017-09-24	12:30	5.4	ENE	2017-09-24	19:40	0.9	WSW	2017-09-25	02:50	0.9	ENE
2017-09-24	12:35	2.2	ENE	2017-09-24	19:45	4.9	ENE	2017-09-25	02:55	2.2	ENE
2017-09-24	12:40	1.3	E	2017-09-24	19:50	2.2	NNE	2017-09-25	03:00	1.3	NNW
2017-09-24	12:45	0.4	ENE	2017-09-24	19:55	5.8	E	2017-09-25	03:05	2.2	ENE
2017-09-24	12:50	2.2	NNE	2017-09-24	20:00	4.9	ENE	2017-09-25	03:10	2.7	E
2017-09-24	12:55	5.8	ENE	2017-09-24	20:05	0.9	ENE	2017-09-25	03:15	2.7	E
2017-09-24	13:00	5.8	E	2017-09-24	20:10	4	NE	2017-09-25	03:20	2.7	ENE
2017-09-24	13:05	0.9	NW	2017-09-24	20:15	6.3	E	2017-09-25	03:25	2.7	ENE
2017-09-24	13:10	3.6	ENE	2017-09-24	20:20	1.3	WNW	2017-09-25	03:30	0.4	WSW
2017-09-24	13:15	0.9	WSW	2017-09-24	20:25	2.2	N	2017-09-25	03:35	0.9	ENE
2017-09-24	13:20	4.9	ENE	2017-09-24	20:30	4.9	ENE	2017-09-25	03:40	2.7	ENE
2017-09-24	13:25	4	ENE	2017-09-24	20:35	4.9	ENE	2017-09-25	03:45	0.4	WSW
2017-09-24	13:30	1.8	NNE	2017-09-24	20:40	5.4	ENE	2017-09-25	03:50	2.7	NNE
2017-09-24	13:35	2.2	W	2017-09-24	20:45	4.5	NE	2017-09-25	03:55	1.3	NE
2017-09-24	13:40	1.8	E	2017-09-24	20:50	6.3	ENE	2017-09-25	04:00	2.2	W
2017-09-24	13:45	3.1	NE	2017-09-24	20:55	4.9	ENE	2017-09-25	04:05	2.7	E
2017-09-24	13:50	1.3	E	2017-09-24	21:00	5.4	ENE	2017-09-25	04:10	1.3	NE
2017-09-24	13:55	1.3	E	2017-09-24	21:05	2.2	NE	2017-09-25	04:15	2.2	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-25	04:20	0.4	NW	2017-09-25	11:30	1.3	NE	2017-09-25	18:40	3.1	NE
2017-09-25	04:25	1.8	NNE	2017-09-25	11:35	1.3	NE	2017-09-25	18:45	1.8	NW
2017-09-25	04:30	2.7	E	2017-09-25	11:40	1.3	E	2017-09-25	18:50	2.7	ENE
2017-09-25	04:35	2.7	NE	2017-09-25	11:45	2.7	NE	2017-09-25	18:55	2.7	W
2017-09-25	04:40	2.7	NNE	2017-09-25	11:50	0.9	ENE	2017-09-25	19:00	0.9	NNE
2017-09-25	04:45	1.8	NNE	2017-09-25	11:55	1.8	NNE	2017-09-25	19:05	2.7	E
2017-09-25	04:50	2.2	ENE	2017-09-25	12:00	1.3	ENE	2017-09-25	19:10	2.7	NE
2017-09-25	04:55	1.3	NE	2017-09-25	12:05	0.4	WSW	2017-09-25	19:15	2.2	NE
2017-09-25	05:00	0.9	ENE	2017-09-25	12:10	1.3	NE	2017-09-25	19:20	1.3	NE
2017-09-25	05:05	1.8	ENE	2017-09-25	12:15	1.3	WNW	2017-09-25	19:25	2.2	NNE
2017-09-25	05:10	0.9	NE	2017-09-25	12:20	0.4	E	2017-09-25	19:30	1.8	E
2017-09-25	05:15	2.2	E	2017-09-25	12:25	1.3	NNE	2017-09-25	19:35	3.1	ENE
2017-09-25	05:20	0.9	W	2017-09-25	12:30	1.3	ENE	2017-09-25	19:40	2.7	ENE
2017-09-25	05:25	2.2	ENE	2017-09-25	12:35	1.3	NNW	2017-09-25	19:45	0.4	WSW
2017-09-25	05:30	0.9	NE	2017-09-25	12:40	0.4	WSW	2017-09-25	19:50	2.7	E
2017-09-25	05:35	1.8	ENE	2017-09-25	12:45	2.2	ENE	2017-09-25	19:55	2.2	ENE
2017-09-25	05:40	1.3	ENE	2017-09-25	12:50	2.7	NE	2017-09-25	20:00	1.3	NE
2017-09-25	05:45	1.3	ENE	2017-09-25	12:55	1.8	W	2017-09-25	20:05	1.8	NW
2017-09-25	05:50	1.8	NNE	2017-09-25	13:00	0.9	NW	2017-09-25	20:10	0.4	WSW
2017-09-25	05:55	0.9	NW	2017-09-25	13:05	2.2	ENE	2017-09-25	20:15	1.8	ENE
2017-09-25	06:00	2.2	E	2017-09-25	13:10	1.3	NNE	2017-09-25	20:20	2.7	WSW
2017-09-25	06:05	2.2	NE	2017-09-25	13:15	1.3	NE	2017-09-25	20:25	2.2	E
2017-09-25	06:10	1.8	E	2017-09-25	13:20	2.2	E	2017-09-25	20:30	1.3	NNW
2017-09-25	06:15	2.2	ENE	2017-09-25	13:25	5.4	E	2017-09-25	20:35	1.3	NE
2017-09-25	06:20	0.9	NW	2017-09-25	13:30	1.3	ENE	2017-09-25	20:40	1.8	E
2017-09-25	06:25	2.7	ENE	2017-09-25	13:35	2.2	E	2017-09-25	20:45	1.8	E
2017-09-25	06:30	0.4	WSW	2017-09-25	13:40	1.3	W	2017-09-25	20:50	0.4	NW
2017-09-25	06:35	0.4	WSW	2017-09-25	13:45	3.1	ENE	2017-09-25	20:55	2.2	ENE
2017-09-25	06:40	0.9	ENE	2017-09-25	13:50	0.9	NE	2017-09-25	21:00	0.4	SW
2017-09-25	06:45	3.6	ENE	2017-09-25	13:55	1.8	ENE	2017-09-25	21:05	2.2	ENE
2017-09-25	06:50	0.4	WSW	2017-09-25	14:00	2.2	NNE	2017-09-25	21:10	2.2	ENE
2017-09-25	06:55	0.4	ENE	2017-09-25	14:05	2.7	NE	2017-09-25	21:15	2.7	NE
2017-09-25	07:00	0.9	W	2017-09-25	14:10	0.9	WNW	2017-09-25	21:20	2.7	NE
2017-09-25	07:05	1.3	E	2017-09-25	14:15	1.8	ENE	2017-09-25	21:25	2.2	NNE
2017-09-25	07:10	2.2	NE	2017-09-25	14:20	2.7	WSW	2017-09-25	21:30	0.4	E
2017-09-25	07:15	1.8	NW	2017-09-25	14:25	1.3	W	2017-09-25	21:35	1.8	E
2017-09-25	07:20	2.2	ENE	2017-09-25	14:30	0.4	WSW	2017-09-25	21:40	0.9	NE
2017-09-25	07:25	1.8	NNE	2017-09-25	14:35	0.4	ESE	2017-09-25	21:45	1.3	N
2017-09-25	07:30	2.2	E	2017-09-25	14:40	0.4	E	2017-09-25	21:50	0.4	WSW
2017-09-25	07:35	3.1	NE	2017-09-25	14:45	3.6	ENE	2017-09-25	21:55	0.4	WSW
2017-09-25	07:40	1.8	NW	2017-09-25	14:50	1.8	ENE	2017-09-25	22:00	1.8	W
2017-09-25	07:45	1.8	NNE	2017-09-25	14:55	0.9	WSW	2017-09-25	22:05	1.3	NNE
2017-09-25	07:50	2.7	ENE	2017-09-25	15:00	2.7	E	2017-09-25	22:10	3.6	NE
2017-09-25	07:55	1.8	ENE	2017-09-25	15:05	2.2	ENE	2017-09-25	22:15	2.7	NE
2017-09-25	08:00	2.2	NE	2017-09-25	15:10	2.2	NE	2017-09-25	22:20	2.2	W
2017-09-25	08:05	0.9	NW	2017-09-25	15:15	0.9	WSW	2017-09-25	22:25	2.2	ENE
2017-09-25	08:10	1.3	WNW	2017-09-25	15:20	2.7	W	2017-09-25	22:30	2.2	E
2017-09-25	08:15	1.8	ENE	2017-09-25	15:25	2.7	E	2017-09-25	22:35	1.3	E
2017-09-25	08:20	3.1	NE	2017-09-25	15:30	1.8	NNE	2017-09-25	22:40	1.3	ENE
2017-09-25	08:25	0.4	ENE	2017-09-25	15:35	0.4	E	2017-09-25	22:45	0.9	WSW
2017-09-25	08:30	0.4	WSW	2017-09-25	15:40	0.9	W	2017-09-25	22:50	1.3	NE
2017-09-25	08:35	2.2	E	2017-09-25	15:45	1.3	NNW	2017-09-25	22:55	1.3	NNE
2017-09-25	08:40	2.2	NE	2017-09-25	15:50	0.4	WSW	2017-09-25	23:00	0.9	ENE
2017-09-25	08:45	1.8	NE	2017-09-25	15:55	1.8	NNE	2017-09-25	23:05	0.4	ENE
2017-09-25	08:50	1.3	W	2017-09-25	16:00	2.7	ENE	2017-09-25	23:10	1.3	ENE
2017-09-25	08:55	3.6	ENE	2017-09-25	16:05	1.8	WNW	2017-09-25	23:15	1.3	NE
2017-09-25	09:00	0.9	WSW	2017-09-25	16:10	2.7	E	2017-09-25	23:20	2.2	W
2017-09-25	09:05	2.7	E	2017-09-25	16:15	0.4	W	2017-09-25	23:25	2.2	NE
2017-09-25	09:10	0.9	ENE	2017-09-25	16:20	1.8	NNE	2017-09-25	23:30	2.7	ENE
2017-09-25	09:15	2.2	WNW	2017-09-25	16:25	2.7	E	2017-09-25	23:35	2.2	ENE
2017-09-25	09:20	1.3	N	2017-09-25	16:30	1.8	E	2017-09-25	23:40	2.7	ENE
2017-09-25	09:25	3.6	ENE	2017-09-25	16:35	0.9	W	2017-09-25	23:45	0.9	N
2017-09-25	09:30	2.2	ENE	2017-09-25	16:40	2.7	ENE	2017-09-25	23:50	1.3	NNW
2017-09-25	09:35	0.4	ENE	2017-09-25	16:45	0.9	ENE	2017-09-25	23:55	1.8	W
2017-09-25	09:40	0.4	WSW	2017-09-25	16:50	1.8	E	2017-09-26	00:00	1.3	W
2017-09-25	09:45	3.1	ENE	2017-09-25	16:55	4	ENE	2017-09-26	00:05	4.9	W
2017-09-25	09:50	0.4	WSW	2017-09-25	17:00	3.1	ENE	2017-09-26	00:10	1.3	S
2017-09-25	09:55	1.8	E	2017-09-25	17:05	0.9	N	2017-09-26	00:15	2.2	WNW
2017-09-25	10:00	2.2	E	2017-09-25	17:10	0.4	N	2017-09-26	00:20	0.4	SE
2017-09-25	10:05	0.9	NE	2017-09-25	17:15	2.7	ENE	2017-09-26	00:25	3.6	W
2017-09-25	10:10	0.4	WSW	2017-09-25	17:20	2.7	ENE	2017-09-26	00:30	2.2	N
2017-09-25	10:15	0.4	E	2017-09-25	17:25	0.9	WSW	2017-09-26	00:35	0.4	SE
2017-09-25	10:20	0.9	WSW	2017-09-25	17:30	0.9	NNE	2017-09-26	00:40	0.9	SSW
2017-09-25	10:25	3.1	ENE	2017-09-25	17:35	1.8	NNE	2017-09-26	00:45	4	ENE
2017-09-25	10:30	1.8	NE	2017-09-25	17:40	0.9	NNW	2017-09-26	00:50	0.9	SSW
2017-09-25	10:35	0.4	WSW	2017-09-25	17:45	2.2	ENE	2017-09-26	00:55	1.8	NNE
2017-09-25	10:40	2.2	ENE	2017-09-25	17:50	2.2	NE	2017-09-26	01:00	1.3	NE
2017-09-25	10:45	2.7	ENE	2017-09-25	17:55	2.7	NE	2017-09-26	01:05	4.9	WNW
2017-09-25	10:50	2.7	ENE	2017-09-25	18:00	0.9	WSW	2017-09-26	01:10	0.4	SSW
2017-09-25	10:55	0.9	W	2017-09-25	18:05	0.9	WSW	2017-09-26	01:15	2.7	SSW
2017-09-25	11:00	3.6	E	2017-09-25	18:10	2.7	ENE	2017-09-26	01:20	4.5	WNW
2017-09-25	11:05	2.2	ENE	2017-09-25	18:15	0.4	W	2017-09-26	01:25	0.9	NNE
2017-09-25	11:10	0.9	NNW	2017-09-25	18:20	2.2	N	2017-09-26	01:30	0.4	S
2017-09-25	11:15	2.2	ENE	2017-09-25	18:25	3.1	E	2017-09-26	01:35	0.9	SSW
2017-09-25	11:20	0.9	W	2017-09-25	18:30	2.7	NE	2017-09-26	01:40	4.5	W
2017-09-25	11:25	0.4	ENE	2017-09-25	18:35	1.3	ENE	2017-09-26	01:45	3.6	WNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-26	01:50	2.2	WNW	2017-09-26	09:00	0.9	SSW	2017-09-26	16:10	1.8	NE
2017-09-26	01:55	2.2	NE	2017-09-26	09:05	2.7	WNW	2017-09-26	16:15	1.3	N
2017-09-26	02:00	2.2	W	2017-09-26	09:10	0.9	WSW	2017-09-26	16:20	0.9	SSW
2017-09-26	02:05	0.9	WNW	2017-09-26	09:15	4.9	WNW	2017-09-26	16:25	1.3	WSW
2017-09-26	02:10	0.9	NNW	2017-09-26	09:20	1.3	SSW	2017-09-26	16:30	2.2	SW
2017-09-26	02:15	3.1	WNW	2017-09-26	09:25	5.4	WNW	2017-09-26	16:35	4.5	WNW
2017-09-26	02:20	0.9	NW	2017-09-26	09:30	5.4	ENE	2017-09-26	16:40	0.9	WSW
2017-09-26	02:25	0.4	SSW	2017-09-26	09:35	4.9	WNW	2017-09-26	16:45	0.9	S
2017-09-26	02:30	3.6	W	2017-09-26	09:40	0.9	WSW	2017-09-26	16:50	1.8	N
2017-09-26	02:35	4.5	ENE	2017-09-26	09:45	3.6	W	2017-09-26	16:55	0.9	ENE
2017-09-26	02:40	2.7	WNW	2017-09-26	09:50	5.4	ENE	2017-09-26	17:00	1.8	SW
2017-09-26	02:45	0.4	SE	2017-09-26	09:55	4	ENE	2017-09-26	17:05	2.7	W
2017-09-26	02:50	0.9	S	2017-09-26	10:00	0.9	WSW	2017-09-26	17:10	0.9	NW
2017-09-26	02:55	0.4	S	2017-09-26	10:05	1.3	NNW	2017-09-26	17:15	2.2	SW
2017-09-26	03:00	1.3	SSW	2017-09-26	10:10	0.9	SSW	2017-09-26	17:20	3.1	W
2017-09-26	03:05	2.7	WSW	2017-09-26	10:15	1.3	NNW	2017-09-26	17:25	4.5	WNW
2017-09-26	03:10	3.6	W	2017-09-26	10:20	1.3	ESE	2017-09-26	17:30	0.9	S
2017-09-26	03:15	1.3	NNW	2017-09-26	10:25	3.1	W	2017-09-26	17:35	4.5	WNW
2017-09-26	03:20	0.9	S	2017-09-26	10:30	0.9	NW	2017-09-26	17:40	0.9	SSW
2017-09-26	03:25	0.9	NE	2017-09-26	10:35	4.5	WNW	2017-09-26	17:45	2.2	SW
2017-09-26	03:30	3.6	E	2017-09-26	10:40	1.3	ENE	2017-09-26	17:50	1.3	W
2017-09-26	03:35	0.9	SSW	2017-09-26	10:45	2.2	N	2017-09-26	17:55	1.8	WNW
2017-09-26	03:40	1.3	NNW	2017-09-26	10:50	1.3	S	2017-09-26	18:00	4.5	WNW
2017-09-26	03:45	3.1	NE	2017-09-26	10:55	1.3	N	2017-09-26	18:05	0.4	SE
2017-09-26	03:50	1.3	SW	2017-09-26	11:00	0.4	SSW	2017-09-26	18:10	2.2	W
2017-09-26	03:55	0.9	WNW	2017-09-26	11:05	1.3	WNW	2017-09-26	18:15	1.8	WSW
2017-09-26	04:00	4.5	NW	2017-09-26	11:10	1.3	SW	2017-09-26	18:20	4	WNW
2017-09-26	04:05	0.9	NNW	2017-09-26	11:15	0.9	S	2017-09-26	18:25	1.8	NW
2017-09-26	04:10	3.6	W	2017-09-26	11:20	1.8	N	2017-09-26	18:30	0.4	S
2017-09-26	04:15	1.8	NW	2017-09-26	11:25	2.7	WNW	2017-09-26	18:35	0.4	NW
2017-09-26	04:20	0.9	S	2017-09-26	11:30	4.9	WNW	2017-09-26	18:40	3.1	W
2017-09-26	04:25	0.4	NW	2017-09-26	11:35	4.9	E	2017-09-26	18:45	1.3	S
2017-09-26	04:30	1.8	N	2017-09-26	11:40	4	E	2017-09-26	18:50	4.9	WNW
2017-09-26	04:35	1.3	N	2017-09-26	11:45	4.9	W	2017-09-26	18:55	2.7	NE
2017-09-26	04:40	0.4	NNE	2017-09-26	11:50	0.9	SE	2017-09-26	19:00	1.8	NE
2017-09-26	04:45	4	WNW	2017-09-26	11:55	1.3	N	2017-09-26	19:05	3.1	E
2017-09-26	04:50	4.5	WNW	2017-09-26	12:00	0.9	WSW	2017-09-26	19:10	2.2	N
2017-09-26	04:55	2.7	W	2017-09-26	12:05	0.9	SE	2017-09-26	19:15	0.4	NNW
2017-09-26	05:00	4.5	ENE	2017-09-26	12:10	2.2	WNW	2017-09-26	19:20	4.5	W
2017-09-26	05:05	0.9	N	2017-09-26	12:15	0.4	SSW	2017-09-26	19:25	2.2	W
2017-09-26	05:10	2.7	W	2017-09-26	12:20	0.9	WNW	2017-09-26	19:30	1.3	SSW
2017-09-26	05:15	4.5	W	2017-09-26	12:25	3.1	WNW	2017-09-26	19:35	4	ENE
2017-09-26	05:20	0.9	N	2017-09-26	12:30	2.2	WNW	2017-09-26	19:40	2.2	W
2017-09-26	05:25	1.3	ENE	2017-09-26	12:35	1.8	SW	2017-09-26	19:45	0.9	WSW
2017-09-26	05:30	0.9	SSW	2017-09-26	12:40	0.9	N	2017-09-26	19:50	1.8	E
2017-09-26	05:35	2.2	W	2017-09-26	12:45	3.6	W	2017-09-26	19:55	2.7	SSW
2017-09-26	05:40	4.5	ENE	2017-09-26	12:50	1.3	WSW	2017-09-26	20:00	3.1	W
2017-09-26	05:45	0.9	ENE	2017-09-26	12:55	0.4	S	2017-09-26	20:05	1.8	WNW
2017-09-26	05:50	2.2	SSW	2017-09-26	13:00	0.9	SSW	2017-09-26	20:10	0.9	SW
2017-09-26	05:55	0.9	NE	2017-09-26	13:05	4.9	ENE	2017-09-26	20:15	1.3	S
2017-09-26	06:00	2.2	WNW	2017-09-26	13:10	0.9	WSW	2017-09-26	20:20	3.1	W
2017-09-26	06:05	0.9	SSW	2017-09-26	13:15	1.3	W	2017-09-26	20:25	1.3	N
2017-09-26	06:10	1.8	N	2017-09-26	13:20	0.4	NW	2017-09-26	20:30	2.7	W
2017-09-26	06:15	4	WNW	2017-09-26	13:25	2.2	E	2017-09-26	20:35	3.6	WNW
2017-09-26	06:20	2.7	NE	2017-09-26	13:30	1.3	S	2017-09-26	20:40	1.8	W
2017-09-26	06:25	0.9	WSW	2017-09-26	13:35	0.9	ENE	2017-09-26	20:45	0.9	SSW
2017-09-26	06:30	2.2	N	2017-09-26	13:40	0.9	S	2017-09-26	20:50	0.9	NE
2017-09-26	06:35	1.3	NNW	2017-09-26	13:45	1.3	NE	2017-09-26	20:55	1.8	N
2017-09-26	06:40	0.9	WNW	2017-09-26	13:50	0.9	SSW	2017-09-26	21:00	2.2	SSW
2017-09-26	06:45	4.5	WNW	2017-09-26	13:55	0.4	S	2017-09-26	21:05	0.9	NNW
2017-09-26	06:50	4.9	WNW	2017-09-26	14:00	1.3	NE	2017-09-26	21:10	1.3	NNW
2017-09-26	06:55	0.4	NNW	2017-09-26	14:05	5.4	WNW	2017-09-26	21:15	0.9	N
2017-09-26	07:00	3.1	E	2017-09-26	14:10	2.7	N	2017-09-26	21:20	4.5	WNW
2017-09-26	07:05	4	W	2017-09-26	14:15	1.3	W	2017-09-26	21:25	3.6	E
2017-09-26	07:10	3.6	W	2017-09-26	14:20	0.4	WSW	2017-09-26	21:30	2.2	NW
2017-09-26	07:15	1.8	NE	2017-09-26	14:25	0.9	ENE	2017-09-26	21:35	3.1	W
2017-09-26	07:20	0.9	NNW	2017-09-26	14:30	0.9	SSW	2017-09-26	21:40	3.1	W
2017-09-26	07:25	2.7	W	2017-09-26	14:35	0.4	SSW	2017-09-26	21:45	3.6	ENE
2017-09-26	07:30	1.8	N	2017-09-26	14:40	4	W	2017-09-26	21:50	5.4	WNW
2017-09-26	07:35	2.7	WNW	2017-09-26	14:45	3.1	WNW	2017-09-26	21:55	3.6	W
2017-09-26	07:40	0.9	SSW	2017-09-26	14:50	4.9	WNW	2017-09-26	22:00	2.2	NNW
2017-09-26	07:45	4.9	WNW	2017-09-26	14:55	2.7	SSW	2017-09-26	22:05	3.6	W
2017-09-26	07:50	0.4	SSW	2017-09-26	15:00	0.4	WSW	2017-09-26	22:10	4	NW
2017-09-26	07:55	2.7	W	2017-09-26	15:05	4	WNW	2017-09-26	22:15	2.2	NE
2017-09-26	08:00	3.6	W	2017-09-26	15:10	3.1	W	2017-09-26	22:20	0.4	S
2017-09-26	08:05	0.9	NE	2017-09-26	15:15	2.7	WSW	2017-09-26	22:25	0.9	S
2017-09-26	08:10	1.8	N	2017-09-26	15:20	1.3	N	2017-09-26	22:30	0.9	S
2017-09-26	08:15	0.9	S	2017-09-26	15:25	1.3	S	2017-09-26	22:35	2.2	E
2017-09-26	08:20	1.3	NNW	2017-09-26	15:30	2.2	N	2017-09-26	22:40	2.2	W
2017-09-26	08:25	0.9	SSW	2017-09-26	15:35	4.9	WNW	2017-09-26	22:45	3.1	W
2017-09-26	08:30	0.9	S	2017-09-26	15:40	0.9	SSW	2017-09-26	22:50	0.9	SSW
2017-09-26	08:35	4.5	WNW	2017-09-26	15:45	1.3	NE	2017-09-26	22:55	0.9	N
2017-09-26	08:40	0.4	SSW	2017-09-26	15:50	0.9	NNE	2017-09-26	23:00	2.2	N
2017-09-26	08:45	4.9	ENE	2017-09-26	15:55	4	W	2017-09-26	23:05	1.8	SW
2017-09-26	08:50	2.7	W	2017-09-26	16:00	2.2	WNW	2017-09-26	23:10	4.5	WNW
2017-09-26	08:55	1.8	N	2017-09-26	16:05	0.4	SE	2017-09-26	23:15	2.2	NW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-26	23:20	4.5	ENE	2017-09-27	06:30	1.3	NNE	2017-09-27	13:40	1.3	NNW
2017-09-26	23:25	2.2	WNW	2017-09-27	06:35	2.2	NNE	2017-09-27	13:45	0.9	NNE
2017-09-26	23:30	4.9	WNW	2017-09-27	06:40	2.2	W	2017-09-27	13:50	2.2	W
2017-09-26	23:35	3.6	WNW	2017-09-27	06:45	1.8	W	2017-09-27	13:55	0.9	WNW
2017-09-26	23:40	2.2	W	2017-09-27	06:50	2.7	WNW	2017-09-27	14:00	1.8	SW
2017-09-26	23:45	3.1	W	2017-09-27	06:55	2.2	W	2017-09-27	14:05	3.6	W
2017-09-26	23:50	1.3	NE	2017-09-27	07:00	1.8	ENE	2017-09-27	14:10	1.8	NW
2017-09-26	23:55	4.9	WNW	2017-09-27	07:05	3.6	W	2017-09-27	14:15	1.8	ENE
2017-09-27	00:00	2.2	ENE	2017-09-27	07:10	1.3	WNW	2017-09-27	14:20	1.3	W
2017-09-27	00:05	2.2	NE	2017-09-27	07:15	0.9	W	2017-09-27	14:25	2.2	E
2017-09-27	00:10	2.7	ENE	2017-09-27	07:20	0.9	NNE	2017-09-27	14:30	2.2	W
2017-09-27	00:15	1.8	NW	2017-09-27	07:25	1.3	NW	2017-09-27	14:35	1.3	WNW
2017-09-27	00:20	1.3	WNW	2017-09-27	07:30	2.7	W	2017-09-27	14:40	3.6	W
2017-09-27	00:25	1.3	SW	2017-09-27	07:35	2.2	W	2017-09-27	14:45	1.3	NNW
2017-09-27	00:30	2.2	E	2017-09-27	07:40	1.3	NW	2017-09-27	14:50	3.6	W
2017-09-27	00:35	1.8	WNW	2017-09-27	07:45	1.8	ENE	2017-09-27	14:55	1.8	SW
2017-09-27	00:40	1.8	NNW	2017-09-27	07:50	1.8	NE	2017-09-27	15:00	1.3	NW
2017-09-27	00:45	2.7	W	2017-09-27	07:55	1.8	E	2017-09-27	15:05	1.8	W
2017-09-27	00:50	1.8	WNW	2017-09-27	08:00	1.3	W	2017-09-27	15:10	2.2	W
2017-09-27	00:55	1.3	NNW	2017-09-27	08:05	1.3	NW	2017-09-27	15:15	3.6	W
2017-09-27	01:00	1.3	SW	2017-09-27	08:10	1.8	ENE	2017-09-27	15:20	1.3	NE
2017-09-27	01:05	2.2	ENE	2017-09-27	08:15	0.9	ENE	2017-09-27	15:25	1.8	W
2017-09-27	01:10	3.6	W	2017-09-27	08:20	1.3	NE	2017-09-27	15:30	0.9	N
2017-09-27	01:15	2.2	W	2017-09-27	08:25	2.2	W	2017-09-27	15:35	1.8	NNW
2017-09-27	01:20	1.8	W	2017-09-27	08:30	2.2	E	2017-09-27	15:40	1.8	ENE
2017-09-27	01:25	2.2	NE	2017-09-27	08:35	0.4	WNW	2017-09-27	15:45	1.8	NW
2017-09-27	01:30	0.9	NE	2017-09-27	08:40	2.2	WNW	2017-09-27	15:50	2.2	W
2017-09-27	01:35	1.8	WSW	2017-09-27	08:45	2.2	NE	2017-09-27	15:55	1.3	NW
2017-09-27	01:40	0.9	NNE	2017-09-27	08:50	1.3	SW	2017-09-27	16:00	2.2	WNW
2017-09-27	01:45	1.3	NNE	2017-09-27	08:55	2.2	NNE	2017-09-27	16:05	2.2	NE
2017-09-27	01:50	1.3	NNE	2017-09-27	09:00	1.8	SW	2017-09-27	16:10	1.8	W
2017-09-27	01:55	3.6	W	2017-09-27	09:05	2.2	WNW	2017-09-27	16:15	1.8	ENE
2017-09-27	02:00	2.2	NE	2017-09-27	09:10	0.9	W	2017-09-27	16:20	1.8	ENE
2017-09-27	02:05	3.1	WNW	2017-09-27	09:15	1.3	NE	2017-09-27	16:25	1.3	WNW
2017-09-27	02:10	1.3	SW	2017-09-27	09:20	2.2	NW	2017-09-27	16:30	3.6	W
2017-09-27	02:15	1.3	WNW	2017-09-27	09:25	2.2	ESE	2017-09-27	16:35	2.2	WNW
2017-09-27	02:20	1.3	W	2017-09-27	09:30	0.9	ENE	2017-09-27	16:40	1.8	SW
2017-09-27	02:25	1.8	ENE	2017-09-27	09:35	0.9	ENE	2017-09-27	16:45	2.2	W
2017-09-27	02:30	2.2	NNW	2017-09-27	09:40	0.9	NNW	2017-09-27	16:50	1.8	NNE
2017-09-27	02:35	1.8	SW	2017-09-27	09:45	3.6	W	2017-09-27	16:55	1.8	W
2017-09-27	02:40	1.8	NW	2017-09-27	09:50	2.2	WNW	2017-09-27	17:00	1.8	NNW
2017-09-27	02:45	1.8	NE	2017-09-27	09:55	1.8	NW	2017-09-27	17:05	1.8	NNW
2017-09-27	02:50	1.8	ENE	2017-09-27	10:00	3.6	W	2017-09-27	17:10	2.2	E
2017-09-27	02:55	1.8	W	2017-09-27	10:05	1.8	W	2017-09-27	17:15	1.8	SW
2017-09-27	03:00	1.3	NE	2017-09-27	10:10	1.3	NW	2017-09-27	17:20	1.8	E
2017-09-27	03:05	0.9	NNE	2017-09-27	10:15	0.9	ENE	2017-09-27	17:25	1.8	NNW
2017-09-27	03:10	1.3	NW	2017-09-27	10:20	1.3	SSW	2017-09-27	17:30	0.9	NE
2017-09-27	03:15	0.9	ENE	2017-09-27	10:25	1.3	NE	2017-09-27	17:35	1.8	W
2017-09-27	03:20	1.8	SW	2017-09-27	10:30	1.8	ENE	2017-09-27	17:40	0.9	N
2017-09-27	03:25	0.9	NNE	2017-09-27	10:35	1.3	SW	2017-09-27	17:45	2.2	E
2017-09-27	03:30	2.2	WNW	2017-09-27	10:40	1.8	SW	2017-09-27	17:50	1.3	W
2017-09-27	03:35	1.8	NE	2017-09-27	10:45	0.9	NNE	2017-09-27	17:55	0.9	W
2017-09-27	03:40	2.7	WNW	2017-09-27	10:50	0.9	NW	2017-09-27	18:00	2.7	W
2017-09-27	03:45	1.8	ENE	2017-09-27	10:55	0.9	ENE	2017-09-27	18:05	1.8	W
2017-09-27	03:50	0.9	N	2017-09-27	11:00	2.2	W	2017-09-27	18:10	0.9	ENE
2017-09-27	03:55	1.8	ENE	2017-09-27	11:05	1.3	NE	2017-09-27	18:15	0.9	NNE
2017-09-27	04:00	0.9	ENE	2017-09-27	11:10	1.3	SW	2017-09-27	18:20	1.8	NW
2017-09-27	04:05	2.2	NNE	2017-09-27	11:15	3.1	W	2017-09-27	18:25	3.1	W
2017-09-27	04:10	1.3	NE	2017-09-27	11:20	1.3	ENE	2017-09-27	18:30	1.8	W
2017-09-27	04:15	2.2	SW	2017-09-27	11:25	1.3	NE	2017-09-27	18:35	1.8	NW
2017-09-27	04:20	1.3	NE	2017-09-27	11:30	1.3	ESE	2017-09-27	18:40	1.8	NNE
2017-09-27	04:25	1.3	NNW	2017-09-27	11:35	1.8	NE	2017-09-27	18:45	1.8	NE
2017-09-27	04:30	1.3	NE	2017-09-27	11:40	1.3	W	2017-09-27	18:50	2.2	W
2017-09-27	04:35	1.3	WNW	2017-09-27	11:45	1.8	SW	2017-09-27	18:55	2.2	WNW
2017-09-27	04:40	1.8	ENE	2017-09-27	11:50	1.8	NNW	2017-09-27	19:00	1.8	NW
2017-09-27	04:45	1.3	NE	2017-09-27	11:55	2.2	NW	2017-09-27	19:05	2.2	NE
2017-09-27	04:50	1.8	ENE	2017-09-27	12:00	1.8	N	2017-09-27	19:10	1.8	W
2017-09-27	04:55	2.2	NE	2017-09-27	12:05	1.8	ENE	2017-09-27	19:15	2.2	W
2017-09-27	05:00	0.9	N	2017-09-27	12:10	1.8	ENE	2017-09-27	19:20	2.2	W
2017-09-27	05:05	2.2	E	2017-09-27	12:15	1.3	WNW	2017-09-27	19:25	1.8	NE
2017-09-27	05:10	1.8	W	2017-09-27	12:20	1.8	NW	2017-09-27	19:30	1.8	W
2017-09-27	05:15	2.7	W	2017-09-27	12:25	1.3	NNW	2017-09-27	19:35	1.8	WNW
2017-09-27	05:20	2.2	E	2017-09-27	12:30	2.2	WNW	2017-09-27	19:40	2.2	WNW
2017-09-27	05:25	1.3	WNW	2017-09-27	12:35	1.3	NW	2017-09-27	19:45	3.1	W
2017-09-27	05:30	1.8	W	2017-09-27	12:40	2.2	NE	2017-09-27	19:50	1.8	SSW
2017-09-27	05:35	2.2	NE	2017-09-27	12:45	1.8	NNW	2017-09-27	19:55	1.8	NNW
2017-09-27	05:40	1.8	SSE	2017-09-27	12:50	2.2	W	2017-09-27	20:00	1.8	NNE
2017-09-27	05:45	3.6	WSW	2017-09-27	12:55	1.3	WNW	2017-09-27	20:05	2.2	E
2017-09-27	05:50	1.3	ENE	2017-09-27	13:00	1.8	W	2017-09-27	20:10	2.2	NW
2017-09-27	05:55	1.3	N	2017-09-27	13:05	1.3	NW	2017-09-27	20:15	1.8	NW
2017-09-27	06:00	1.8	NE	2017-09-27	13:10	1.8	W	2017-09-27	20:20	2.2	NE
2017-09-27	06:05	1.8	NE	2017-09-27	13:15	2.2	N	2017-09-27	20:25	1.8	W
2017-09-27	06:10	1.8	ENE	2017-09-27	13:20	2.2	W	2017-09-27	20:30	1.8	W
2017-09-27	06:15	1.8	W	2017-09-27	13:25	0.9	ENE	2017-09-27	20:35	2.7	N
2017-09-27	06:20	0.9	NNE	2017-09-27	13:30	1.3	WNW	2017-09-27	20:40	1.3	E
2017-09-27	06:25	1.8	NE	2017-09-27	13:35	0.9	ENE	2017-09-27	20:45	1.3	N

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-27	20:50	2.2	WSW	2017-09-28	04:00	1.8	NE	2017-09-28	11:10	2.7	WNW
2017-09-27	20:55	2.2	E	2017-09-28	04:05	0.9	NNE	2017-09-28	11:15	0.9	NNE
2017-09-27	21:00	1.3	NW	2017-09-28	04:10	0.4	NNW	2017-09-28	11:20	0.9	N
2017-09-27	21:05	1.8	W	2017-09-28	04:15	0.9	SW	2017-09-28	11:25	0.9	W
2017-09-27	21:10	1.3	WNW	2017-09-28	04:20	1.8	NNE	2017-09-28	11:30	2.2	NE
2017-09-27	21:15	1.8	ENE	2017-09-28	04:25	0.4	ESE	2017-09-28	11:35	0.4	SSW
2017-09-27	21:20	2.7	WSW	2017-09-28	04:30	2.7	E	2017-09-28	11:40	0.4	WSW
2017-09-27	21:25	1.8	W	2017-09-28	04:35	3.6	NE	2017-09-28	11:45	1.8	NE
2017-09-27	21:30	1.8	ENE	2017-09-28	04:40	0.9	W	2017-09-28	11:50	2.2	NE
2017-09-27	21:35	1.3	WNW	2017-09-28	04:45	1.3	ENE	2017-09-28	11:55	1.3	W
2017-09-27	21:40	1.3	W	2017-09-28	04:50	1.8	NW	2017-09-28	12:00	0.9	NE
2017-09-27	21:45	1.3	NW	2017-09-28	04:55	2.7	WNW	2017-09-28	12:05	0.9	SW
2017-09-27	21:50	1.8	ENE	2017-09-28	05:00	3.6	WNW	2017-09-28	12:10	0.4	NNW
2017-09-27	21:55	1.8	WNW	2017-09-28	05:05	1.8	NE	2017-09-28	12:15	2.7	E
2017-09-27	22:00	1.3	SW	2017-09-28	05:10	1.3	NNE	2017-09-28	12:20	3.1	E
2017-09-27	22:05	0.4	W	2017-09-28	05:15	0.4	NE	2017-09-28	12:25	0.4	SW
2017-09-27	22:10	1.3	N	2017-09-28	05:20	0.9	SSW	2017-09-28	12:30	0.4	NNW
2017-09-27	22:15	2.2	W	2017-09-28	05:25	2.7	WNW	2017-09-28	12:35	3.6	NE
2017-09-27	22:20	1.8	ENE	2017-09-28	05:30	2.2	WNW	2017-09-28	12:40	1.3	W
2017-09-27	22:25	1.3	NE	2017-09-28	05:35	1.3	NE	2017-09-28	12:45	0.4	ENE
2017-09-27	22:30	1.8	NNW	2017-09-28	05:40	1.8	NE	2017-09-28	12:50	1.8	ENE
2017-09-27	22:35	2.2	WSW	2017-09-28	05:45	2.2	NNE	2017-09-28	12:55	2.7	WNW
2017-09-27	22:40	1.8	NW	2017-09-28	05:50	1.3	N	2017-09-28	13:00	2.2	NE
2017-09-27	22:45	1.3	NNW	2017-09-28	05:55	2.7	ENE	2017-09-28	13:05	1.3	NE
2017-09-27	22:50	1.3	WNW	2017-09-28	06:00	1.8	ENE	2017-09-28	13:10	0.4	N
2017-09-27	22:55	1.3	W	2017-09-28	06:05	0.4	WSW	2017-09-28	13:15	0.9	NNE
2017-09-27	23:00	0.9	NW	2017-09-28	06:10	0.4	NNW	2017-09-28	13:20	1.3	NE
2017-09-27	23:05	2.7	W	2017-09-28	06:15	2.7	NE	2017-09-28	13:25	2.7	NE
2017-09-27	23:10	1.8	W	2017-09-28	06:20	1.3	ENE	2017-09-28	13:30	0.4	SW
2017-09-27	23:15	2.7	WSW	2017-09-28	06:25	3.6	NE	2017-09-28	13:35	0.9	W
2017-09-27	23:20	1.8	WSW	2017-09-28	06:30	2.2	NE	2017-09-28	13:40	1.8	NW
2017-09-27	23:25	1.3	W	2017-09-28	06:35	1.3	NE	2017-09-28	13:45	0.4	WNW
2017-09-27	23:30	1.8	NNW	2017-09-28	06:40	1.3	NE	2017-09-28	13:50	1.8	NNE
2017-09-27	23:35	1.3	E	2017-09-28	06:45	0.4	WSW	2017-09-28	13:55	0.9	SW
2017-09-27	23:40	1.3	SW	2017-09-28	06:50	2.7	NE	2017-09-28	14:00	3.6	NE
2017-09-27	23:45	1.8	ENE	2017-09-28	06:55	1.3	SE	2017-09-28	14:05	0.4	ENE
2017-09-27	23:50	2.7	N	2017-09-28	07:00	0.4	W	2017-09-28	14:10	1.3	N
2017-09-27	23:55	1.8	SW	2017-09-28	07:05	1.3	W	2017-09-28	14:15	0.4	WSW
2017-09-28	00:00	2.2	NE	2017-09-28	07:10	1.8	WNW	2017-09-28	14:20	1.8	NNE
2017-09-28	00:05	3.6	NE	2017-09-28	07:15	1.3	WSW	2017-09-28	14:25	0.9	N
2017-09-28	00:10	3.6	ENE	2017-09-28	07:20	0.4	ENE	2017-09-28	14:30	1.8	NE
2017-09-28	00:15	1.8	W	2017-09-28	07:25	0.9	NNE	2017-09-28	14:35	1.3	WNW
2017-09-28	00:20	1.3	WSW	2017-09-28	07:30	0.4	WNW	2017-09-28	14:40	3.1	NE
2017-09-28	00:25	1.8	WNW	2017-09-28	07:35	1.8	WNW	2017-09-28	14:45	0.9	NNE
2017-09-28	00:30	0.4	SSW	2017-09-28	07:40	4	NE	2017-09-28	14:50	3.1	W
2017-09-28	00:35	1.3	NE	2017-09-28	07:45	3.6	NE	2017-09-28	14:55	1.3	NNE
2017-09-28	00:40	1.3	SE	2017-09-28	07:50	0.9	NW	2017-09-28	15:00	0.4	SW
2017-09-28	00:45	1.8	W	2017-09-28	07:55	0.9	SW	2017-09-28	15:05	3.6	NE
2017-09-28	00:50	3.1	WSW	2017-09-28	08:00	2.7	WSW	2017-09-28	15:10	1.8	WSW
2017-09-28	00:55	2.2	WNW	2017-09-28	08:05	0.9	SW	2017-09-28	15:15	0.4	N
2017-09-28	01:00	3.1	NE	2017-09-28	08:10	1.8	NNE	2017-09-28	15:20	1.8	WNW
2017-09-28	01:05	0.4	SW	2017-09-28	08:15	2.2	NE	2017-09-28	15:25	2.2	W
2017-09-28	01:10	1.8	N	2017-09-28	08:20	0.4	E	2017-09-28	15:30	0.4	WNW
2017-09-28	01:15	0.4	SSW	2017-09-28	08:25	2.7	NE	2017-09-28	15:35	1.3	NE
2017-09-28	01:20	0.9	SSW	2017-09-28	08:30	3.1	W	2017-09-28	15:40	2.7	NE
2017-09-28	01:25	0.4	SW	2017-09-28	08:35	1.8	NE	2017-09-28	15:45	0.4	WNW
2017-09-28	01:30	2.7	WNW	2017-09-28	08:40	2.2	NE	2017-09-28	15:50	3.1	W
2017-09-28	01:35	0.4	SW	2017-09-28	08:45	1.3	WSW	2017-09-28	15:55	0.4	W
2017-09-28	01:40	2.7	WSW	2017-09-28	08:50	2.7	NE	2017-09-28	16:00	3.6	NE
2017-09-28	01:45	0.4	ENE	2017-09-28	08:55	1.8	W	2017-09-28	16:05	1.3	W
2017-09-28	01:50	1.8	ENE	2017-09-28	09:00	1.8	ENE	2017-09-28	16:10	1.8	WNW
2017-09-28	01:55	3.1	NE	2017-09-28	09:05	1.8	NE	2017-09-28	16:15	2.7	W
2017-09-28	02:00	2.7	NE	2017-09-28	09:10	0.4	SW	2017-09-28	16:20	0.4	NW
2017-09-28	02:05	3.6	W	2017-09-28	09:15	1.3	NE	2017-09-28	16:25	0.4	NNW
2017-09-28	02:10	2.7	NE	2017-09-28	09:20	1.8	NNE	2017-09-28	16:30	1.3	ENE
2017-09-28	02:15	0.9	SW	2017-09-28	09:25	1.8	WNW	2017-09-28	16:35	0.9	NNE
2017-09-28	02:20	2.2	W	2017-09-28	09:30	0.9	SW	2017-09-28	16:40	1.8	W
2017-09-28	02:25	0.4	SW	2017-09-28	09:35	1.8	W	2017-09-28	16:45	4	NE
2017-09-28	02:30	1.3	W	2017-09-28	09:40	3.1	ENE	2017-09-28	16:50	1.8	ENE
2017-09-28	02:35	0.4	ENE	2017-09-28	09:45	0.4	NE	2017-09-28	16:55	1.8	NNE
2017-09-28	02:40	3.6	WNW	2017-09-28	09:50	0.4	SW	2017-09-28	17:00	0.4	E
2017-09-28	02:45	0.9	NNE	2017-09-28	09:55	0.9	NNE	2017-09-28	17:05	1.8	ESE
2017-09-28	02:50	1.8	W	2017-09-28	10:00	2.2	ENE	2017-09-28	17:10	0.9	N
2017-09-28	02:55	1.8	NE	2017-09-28	10:05	3.6	NE	2017-09-28	17:15	0.9	NW
2017-09-28	03:00	3.6	NE	2017-09-28	10:10	3.1	W	2017-09-28	17:20	3.1	ENE
2017-09-28	03:05	2.7	ENE	2017-09-28	10:15	2.2	WNW	2017-09-28	17:25	2.2	ENE
2017-09-28	03:10	0.4	NW	2017-09-28	10:20	0.9	SW	2017-09-28	17:30	3.1	W
2017-09-28	03:15	1.8	W	2017-09-28	10:25	1.3	NE	2017-09-28	17:35	2.2	WNW
2017-09-28	03:20	1.8	NE	2017-09-28	10:30	2.7	NE	2017-09-28	17:40	2.2	WNW
2017-09-28	03:25	2.2	W	2017-09-28	10:35	2.2	W	2017-09-28	17:45	1.8	NNE
2017-09-28	03:30	2.7	NE	2017-09-28	10:40	0.9	W	2017-09-28	17:50	0.4	W
2017-09-28	03:35	1.8	ESE	2017-09-28	10:45	3.1	ENE	2017-09-28	17:55	2.2	NE
2017-09-28	03:40	0.9	N	2017-09-28	10:50	2.2	WNW	2017-09-28	18:00	1.3	ENE
2017-09-28	03:45	2.7	W	2017-09-28	10:55	1.3	WNW	2017-09-28	18:05	0.4	WSW
2017-09-28	03:50	1.8	NNE	2017-09-28	11:00	2.2	W	2017-09-28	18:10	3.1	ENE
2017-09-28	03:55	1.8	WNW	2017-09-28	11:05	1.3	NNE	2017-09-28	18:15	1.3	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-28	18:20	0.4	ESE	2017-09-29	01:30	0.9	SW	2017-09-29	08:40	0.9	ESE
2017-09-28	18:25	3.6	NE	2017-09-29	01:35	0.9	NE	2017-09-29	08:45	2.7	ENE
2017-09-28	18:30	0.9	NNE	2017-09-29	01:40	2.2	E	2017-09-29	08:50	1.8	NE
2017-09-28	18:35	3.6	W	2017-09-29	01:45	0.4	NE	2017-09-29	08:55	2.2	NE
2017-09-28	18:40	0.9	SSW	2017-09-29	01:50	0.9	W	2017-09-29	09:00	0.9	W
2017-09-28	18:45	0.9	SW	2017-09-29	01:55	1.3	ENE	2017-09-29	09:05	0.4	NNE
2017-09-28	18:50	2.2	NE	2017-09-29	02:00	0.4	NE	2017-09-29	09:10	2.2	W
2017-09-28	18:55	0.4	SW	2017-09-29	02:05	1.8	ENE	2017-09-29	09:15	3.6	NE
2017-09-28	19:00	2.7	W	2017-09-29	02:10	0.4	WSW	2017-09-29	09:20	0.9	ESE
2017-09-28	19:05	0.9	WNW	2017-09-29	02:15	0.4	WSW	2017-09-29	09:25	0.9	NNW
2017-09-28	19:10	3.1	W	2017-09-29	02:20	2.2	E	2017-09-29	09:30	1.3	WNW
2017-09-28	19:15	1.3	WNW	2017-09-29	02:25	1.8	WSW	2017-09-29	09:35	1.8	N
2017-09-28	19:20	0.4	WNW	2017-09-29	02:30	1.3	W	2017-09-29	09:40	0.9	N
2017-09-28	19:25	0.4	E	2017-09-29	02:35	2.7	NE	2017-09-29	09:45	2.2	ENE
2017-09-28	19:30	1.8	NE	2017-09-29	02:40	0.9	ENE	2017-09-29	09:50	3.1	NE
2017-09-28	19:35	2.7	WSW	2017-09-29	02:45	1.3	NNE	2017-09-29	09:55	1.8	E
2017-09-28	19:40	1.8	NW	2017-09-29	02:50	0.9	ENE	2017-09-29	10:00	1.8	NE
2017-09-28	19:45	2.2	W	2017-09-29	02:55	2.2	E	2017-09-29	10:05	0.9	E
2017-09-28	19:50	3.1	W	2017-09-29	03:00	0.4	SSE	2017-09-29	10:10	0.4	WSW
2017-09-28	19:55	2.2	NE	2017-09-29	03:05	0.4	NE	2017-09-29	10:15	0.9	W
2017-09-28	20:00	1.8	W	2017-09-29	03:10	2.7	E	2017-09-29	10:20	2.2	NE
2017-09-28	20:05	1.3	NE	2017-09-29	03:15	0.9	NE	2017-09-29	10:25	3.1	NE
2017-09-28	20:10	1.8	W	2017-09-29	03:20	3.1	WSW	2017-09-29	10:30	3.6	NE
2017-09-28	20:15	2.7	W	2017-09-29	03:25	0.4	NNE	2017-09-29	10:35	0.9	ENE
2017-09-28	20:20	3.6	NE	2017-09-29	03:30	0.4	E	2017-09-29	10:40	0.4	SW
2017-09-28	20:25	3.1	NE	2017-09-29	03:35	0.9	WSW	2017-09-29	10:45	1.3	NNE
2017-09-28	20:30	1.8	WNW	2017-09-29	03:40	0.9	S	2017-09-29	10:50	0.4	NNE
2017-09-28	20:35	0.9	SSW	2017-09-29	03:45	0.9	ENE	2017-09-29	10:55	0.4	NE
2017-09-28	20:40	0.4	WSW	2017-09-29	03:50	0.4	NNE	2017-09-29	11:00	2.2	NE
2017-09-28	20:45	2.2	NE	2017-09-29	03:55	1.8	E	2017-09-29	11:05	1.3	N
2017-09-28	20:50	2.7	NE	2017-09-29	04:00	1.3	NNE	2017-09-29	11:10	1.3	W
2017-09-28	20:55	0.9	NE	2017-09-29	04:05	2.2	ENE	2017-09-29	11:15	0.4	ENE
2017-09-28	21:00	0.9	NE	2017-09-29	04:10	1.8	NE	2017-09-29	11:20	0.9	W
2017-09-28	21:05	1.8	NNE	2017-09-29	04:15	2.7	NE	2017-09-29	11:25	2.2	W
2017-09-28	21:10	2.7	NE	2017-09-29	04:20	2.2	NE	2017-09-29	11:30	0.9	NE
2017-09-28	21:15	0.4	ENE	2017-09-29	04:25	0.9	W	2017-09-29	11:35	2.2	NNE
2017-09-28	21:20	0.4	ENE	2017-09-29	04:30	1.8	W	2017-09-29	11:40	2.2	NE
2017-09-28	21:25	0.9	NNE	2017-09-29	04:35	1.8	NE	2017-09-29	11:45	0.9	NE
2017-09-28	21:30	2.2	WNW	2017-09-29	04:40	0.9	NW	2017-09-29	11:50	2.7	E
2017-09-28	21:35	2.2	WNW	2017-09-29	04:45	0.4	ENE	2017-09-29	11:55	1.8	WSW
2017-09-28	21:40	0.4	WSW	2017-09-29	04:50	1.8	NE	2017-09-29	12:00	2.2	ENE
2017-09-28	21:45	1.3	NE	2017-09-29	04:55	0.4	NNW	2017-09-29	12:05	2.7	NE
2017-09-28	21:50	1.3	W	2017-09-29	05:00	0.9	ENE	2017-09-29	12:10	0.4	NNW
2017-09-28	21:55	1.3	W	2017-09-29	05:05	1.8	E	2017-09-29	12:15	0.4	WSW
2017-09-28	22:00	2.7	NE	2017-09-29	05:10	1.3	W	2017-09-29	12:20	2.2	NE
2017-09-28	22:05	0.4	WSW	2017-09-29	05:15	2.2	NNE	2017-09-29	12:25	2.2	NE
2017-09-28	22:10	1.3	NE	2017-09-29	05:20	0.9	SSW	2017-09-29	12:30	3.6	NE
2017-09-28	22:15	0.4	N	2017-09-29	05:25	3.6	NE	2017-09-29	12:35	3.1	NE
2017-09-28	22:20	2.7	NE	2017-09-29	05:30	3.6	NE	2017-09-29	12:40	1.3	NNE
2017-09-28	22:25	0.4	SW	2017-09-29	05:35	1.8	NE	2017-09-29	12:45	0.9	NE
2017-09-28	22:30	1.8	WNW	2017-09-29	05:40	1.3	W	2017-09-29	12:50	1.3	ENE
2017-09-28	22:35	0.4	WSW	2017-09-29	05:45	1.3	WNW	2017-09-29	12:55	0.4	ESE
2017-09-28	22:40	2.2	W	2017-09-29	05:50	0.9	ESE	2017-09-29	13:00	0.9	NE
2017-09-28	22:45	1.8	NW	2017-09-29	05:55	1.8	ENE	2017-09-29	13:05	0.4	NNE
2017-09-28	22:50	0.9	NW	2017-09-29	06:00	3.1	NE	2017-09-29	13:10	2.7	WSW
2017-09-28	22:55	0.9	N	2017-09-29	06:05	1.8	ENE	2017-09-29	13:15	1.8	ENE
2017-09-28	23:00	3.6	NE	2017-09-29	06:10	1.8	NE	2017-09-29	13:20	1.8	NE
2017-09-28	23:05	0.4	SW	2017-09-29	06:15	1.3	W	2017-09-29	13:25	1.3	ENE
2017-09-28	23:10	0.9	N	2017-09-29	06:20	2.7	NE	2017-09-29	13:30	2.2	NE
2017-09-28	23:15	1.3	NE	2017-09-29	06:25	1.3	NE	2017-09-29	13:35	1.8	ENE
2017-09-28	23:20	2.7	WNW	2017-09-29	06:30	0.4	NE	2017-09-29	13:40	2.2	NE
2017-09-28	23:25	3.1	W	2017-09-29	06:35	2.2	ENE	2017-09-29	13:45	1.3	E
2017-09-28	23:30	1.8	NE	2017-09-29	06:40	0.9	NNE	2017-09-29	13:50	2.2	NE
2017-09-28	23:35	2.7	ENE	2017-09-29	06:45	3.6	NE	2017-09-29	13:55	2.2	NE
2017-09-28	23:40	0.9	ESE	2017-09-29	06:50	0.4	NE	2017-09-29	14:00	1.8	NE
2017-09-28	23:45	4	NE	2017-09-29	06:55	0.9	NE	2017-09-29	14:05	2.7	ENE
2017-09-28	23:50	3.1	W	2017-09-29	07:00	1.3	E	2017-09-29	14:10	2.2	W
2017-09-28	23:55	0.4	SSW	2017-09-29	07:05	0.9	NE	2017-09-29	14:15	2.2	W
2017-09-29	00:00	0.4	NNW	2017-09-29	07:10	1.8	E	2017-09-29	14:20	0.4	ESE
2017-09-29	00:05	1.3	N	2017-09-29	07:15	2.7	E	2017-09-29	14:25	1.3	ENE
2017-09-29	00:10	0.9	NW	2017-09-29	07:20	1.8	NW	2017-09-29	14:30	2.2	NNE
2017-09-29	00:15	2.2	NE	2017-09-29	07:25	2.2	NNE	2017-09-29	14:35	2.2	NNE
2017-09-29	00:20	1.3	W	2017-09-29	07:30	0.9	NE	2017-09-29	14:40	2.2	NNE
2017-09-29	00:25	1.3	E	2017-09-29	07:35	0.9	NNE	2017-09-29	14:45	4	NE
2017-09-29	00:30	1.8	NE	2017-09-29	07:40	1.3	NW	2017-09-29	14:50	1.3	W
2017-09-29	00:35	0.9	ENE	2017-09-29	07:45	2.7	ENE	2017-09-29	14:55	1.8	N
2017-09-29	00:40	0.4	NE	2017-09-29	07:50	1.8	NNE	2017-09-29	15:00	1.8	ENE
2017-09-29	00:45	1.8	NNE	2017-09-29	07:55	1.8	NNE	2017-09-29	15:05	1.3	N
2017-09-29	00:50	2.2	NE	2017-09-29	08:00	3.1	NE	2017-09-29	15:10	0.9	N
2017-09-29	00:55	1.8	NNE	2017-09-29	08:05	2.2	E	2017-09-29	15:15	1.8	E
2017-09-29	01:00	1.8	E	2017-09-29	08:10	0.4	NNE	2017-09-29	15:20	0.9	E
2017-09-29	01:05	3.6	E	2017-09-29	08:15	1.3	N	2017-09-29	15:25	2.7	NE
2017-09-29	01:10	0.9	NE	2017-09-29	08:20	0.4	WNW	2017-09-29	15:30	1.8	E
2017-09-29	01:15	0.4	NE	2017-09-29	08:25	1.8	NE	2017-09-29	15:35	2.2	NE
2017-09-29	01:20	0.4	WSW	2017-09-29	08:30	2.7	NE	2017-09-29	15:40	1.3	NNE
2017-09-29	01:25	1.3	E	2017-09-29	08:35	1.8	N	2017-09-29	15:45	1.8	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction	Date (yyyy-mm-dd)	Time	Wind Speed (m/s)	Wind Direction
2017-09-29	15:50	1.8	NE	2017-09-29	23:00	0.4	NE	2017-09-30	06:10	1.8	NE
2017-09-29	15:55	1.3	N	2017-09-29	23:05	1.8	WNW	2017-09-30	06:15	2.7	NE
2017-09-29	16:00	0.9	NNE	2017-09-29	23:10	3.1	NE	2017-09-30	06:20	0.4	SSW
2017-09-29	16:05	1.8	ENE	2017-09-29	23:15	1.8	ENE	2017-09-30	06:25	1.3	NE
2017-09-29	16:10	0.4	ENE	2017-09-29	23:20	0.4	WSW	2017-09-30	06:30	0.9	SW
2017-09-29	16:15	1.3	WNW	2017-09-29	23:25	1.8	N	2017-09-30	06:35	0.4	ENE
2017-09-29	16:20	0.4	NE	2017-09-29	23:30	0.9	NE	2017-09-30	06:40	2.7	W
2017-09-29	16:25	0.9	NW	2017-09-29	23:35	1.3	W	2017-09-30	06:45	0.9	SE
2017-09-29	16:30	2.2	NE	2017-09-29	23:40	2.2	NE	2017-09-30	06:50	0.9	ENE
2017-09-29	16:35	2.7	WSW	2017-09-29	23:45	2.7	WSW	2017-09-30	06:55	0.9	W
2017-09-29	16:40	3.6	NE	2017-09-29	23:50	1.3	E	2017-09-30	07:00	0.9	E
2017-09-29	16:45	0.9	NE	2017-09-29	23:55	0.9	W	2017-09-30	07:05	1.3	NE
2017-09-29	16:50	0.4	WSW	2017-09-30	00:00	1.3	NNW	2017-09-30	07:10	1.8	WNW
2017-09-29	16:55	3.1	ENE	2017-09-30	00:05	1.3	SW	2017-09-30	07:15	1.3	NE
2017-09-29	17:00	0.4	WSW	2017-09-30	00:10	2.7	WSW	2017-09-30	07:20	0.9	WSW
2017-09-29	17:05	0.9	NE	2017-09-30	00:15	0.9	E	2017-09-30	07:25	0.9	W
2017-09-29	17:10	2.2	E	2017-09-30	00:20	0.9	E	2017-09-30	07:30	0.4	N
2017-09-29	17:15	1.8	ENE	2017-09-30	00:25	0.4	SW	2017-09-30	07:35	0.4	SSW
2017-09-29	17:20	1.3	NE	2017-09-30	00:30	1.8	W	2017-09-30	07:40	2.2	NNE
2017-09-29	17:25	1.8	NNE	2017-09-30	00:35	2.7	NE	2017-09-30	07:45	2.7	NE
2017-09-29	17:30	0.9	E	2017-09-30	00:40	2.2	NNE	2017-09-30	07:50	0.9	ENE
2017-09-29	17:35	3.1	ENE	2017-09-30	00:45	1.3	NE	2017-09-30	07:55	1.3	E
2017-09-29	17:40	0.4	SSW	2017-09-30	00:50	2.7	NE	2017-09-30	08:00	2.7	NE
2017-09-29	17:45	0.9	NNW	2017-09-30	00:55	0.9	SW	2017-09-30	08:05	0.9	E
2017-09-29	17:50	1.8	NE	2017-09-30	01:00	1.8	ENE	2017-09-30	08:10	0.9	ENE
2017-09-29	17:55	3.6	NE	2017-09-30	01:05	2.2	WNW	2017-09-30	08:15	0.4	NW
2017-09-29	18:00	1.8	W	2017-09-30	01:10	0.4	ENE	2017-09-30	08:20	1.3	WNW
2017-09-29	18:05	1.8	NE	2017-09-30	01:15	2.2	NE	2017-09-30	08:25	1.8	W
2017-09-29	18:10	1.8	NNE	2017-09-30	01:20	0.4	NE	2017-09-30	08:30	0.4	ESE
2017-09-29	18:15	0.9	NNW	2017-09-30	01:25	0.9	WSW	2017-09-30	08:35	1.3	NW
2017-09-29	18:20	0.4	S	2017-09-30	01:30	2.7	NE	2017-09-30	08:40	2.7	W
2017-09-29	18:25	1.8	N	2017-09-30	01:35	2.2	ENE	2017-09-30	08:45	0.9	SW
2017-09-29	18:30	2.7	WSW	2017-09-30	01:40	0.4	ESE	2017-09-30	08:50	1.8	NE
2017-09-29	18:35	2.2	NE	2017-09-30	01:45	0.9	SSW	2017-09-30	08:55	2.7	NE
2017-09-29	18:40	3.1	NE	2017-09-30	01:50	0.4	WSW	2017-09-30	09:00	1.3	NE
2017-09-29	18:45	0.4	NE	2017-09-30	01:55	0.4	NNW	2017-09-30	09:05	0.4	ESE
2017-09-29	18:50	1.8	N	2017-09-30	02:00	1.8	W	2017-09-30	09:10	1.8	W
2017-09-29	18:55	1.3	W	2017-09-30	02:05	2.2	NNE	2017-09-30	09:15	0.9	ENE
2017-09-29	19:00	1.8	NE	2017-09-30	02:10	3.1	WSW	2017-09-30	09:20	2.2	NE
2017-09-29	19:05	0.9	W	2017-09-30	02:15	2.7	WSW	2017-09-30	09:25	1.3	WNW
2017-09-29	19:10	0.9	NNW	2017-09-30	02:20	1.8	NNE	2017-09-30	09:30	0.9	NNE
2017-09-29	19:15	1.3	E	2017-09-30	02:25	1.8	WNW	2017-09-30	09:35	0.4	ESE
2017-09-29	19:20	1.3	NE	2017-09-30	02:30	1.3	WNW	2017-09-30	09:40	3.1	NE
2017-09-29	19:25	1.8	E	2017-09-30	02:35	1.8	ENE	2017-09-30	09:45	0.4	WSW
2017-09-29	19:30	1.3	NE	2017-09-30	02:40	1.8	SW	2017-09-30	09:50	1.8	NE
2017-09-29	19:35	1.8	NNE	2017-09-30	02:45	1.3	ENE	2017-09-30	09:55	3.1	NE
2017-09-29	19:40	1.8	ENE	2017-09-30	02:50	0.9	ENE	2017-09-30	10:00	1.3	NE
2017-09-29	19:45	1.3	E	2017-09-30	02:55	1.8	NE	2017-09-30	10:05	1.8	ENE
2017-09-29	19:50	1.3	ENE	2017-09-30	03:00	1.8	SW	2017-09-30	10:10	2.2	NE
2017-09-29	19:55	0.9	NW	2017-09-30	03:05	1.8	NE	2017-09-30	10:15	0.9	ENE
2017-09-29	20:00	1.3	ENE	2017-09-30	03:10	0.4	SSW	2017-09-30	10:20	0.9	SW
2017-09-29	20:05	0.9	NNE	2017-09-30	03:15	0.4	ESE	2017-09-30	10:25	0.4	SSW
2017-09-29	20:10	1.8	N	2017-09-30	03:20	1.8	W	2017-09-30	10:30	1.3	NNE
2017-09-29	20:15	2.7	WSW	2017-09-30	03:25	2.7	ENE	2017-09-30	10:35	0.4	ESE
2017-09-29	20:20	1.8	E	2017-09-30	03:30	2.2	NE	2017-09-30	10:40	2.7	NE
2017-09-29	20:25	2.7	NE	2017-09-30	03:35	0.9	W	2017-09-30	10:45	2.2	E
2017-09-29	20:30	1.3	WSW	2017-09-30	03:40	2.7	NE	2017-09-30	10:50	2.2	W
2017-09-29	20:35	1.3	W	2017-09-30	03:45	0.4	N	2017-09-30	10:55	1.8	NE
2017-09-29	20:40	0.9	ESE	2017-09-30	03:50	2.2	WSW	2017-09-30	11:00	1.3	NW
2017-09-29	20:45	3.6	NE	2017-09-30	03:55	2.2	W	2017-09-30	11:05	0.4	SSW
2017-09-29	20:50	1.3	NNW	2017-09-30	04:00	0.4	ENE	2017-09-30	11:10	2.2	NNE
2017-09-29	20:55	2.2	ENE	2017-09-30	04:05	0.4	SSW	2017-09-30	11:15	1.3	NE
2017-09-29	21:00	2.2	NNE	2017-09-30	04:10	1.8	N	2017-09-30	11:20	0.4	NW
2017-09-29	21:05	2.7	NE	2017-09-30	04:15	2.2	NE	2017-09-30	11:25	0.9	NW
2017-09-29	21:10	2.2	NE	2017-09-30	04:20	1.8	W	2017-09-30	11:30	2.2	NNE
2017-09-29	21:15	2.7	ENE	2017-09-30	04:25	1.3	NE	2017-09-30	11:35	0.4	SSW
2017-09-29	21:20	0.9	NE	2017-09-30	04:30	1.8	E	2017-09-30	11:40	2.2	ENE
2017-09-29	21:25	0.4	NNE	2017-09-30	04:35	0.4	WSW	2017-09-30	11:45	1.8	WNW
2017-09-29	21:30	1.3	NE	2017-09-30	04:40	0.4	ESE	2017-09-30	11:50	0.9	NNE
2017-09-29	21:35	2.2	W	2017-09-30	04:45	0.4	WSW	2017-09-30	11:55	2.7	WSW
2017-09-29	21:40	0.4	NE	2017-09-30	04:50	1.3	NE	2017-09-30	12:00	1.8	W
2017-09-29	21:45	1.8	ENE	2017-09-30	04:55	0.4	WSW	2017-09-30	12:05	2.2	NE
2017-09-29	21:50	0.4	NW	2017-09-30	05:00	2.2	WNW	2017-09-30	12:10	0.4	SSW
2017-09-29	21:55	1.8	NNE	2017-09-30	05:05	0.9	NNE	2017-09-30	12:15	1.8	ENE
2017-09-29	22:00	1.3	NE	2017-09-30	05:10	1.3	NW	2017-09-30	12:20	1.3	NE
2017-09-29	22:05	1.3	NNE	2017-09-30	05:15	0.4	SSW	2017-09-30	12:25	2.2	W
2017-09-29	22:10	3.6	E	2017-09-30	05:20	1.8	ENE	2017-09-30	12:30	3.1	NE
2017-09-29	22:15	1.3	NE	2017-09-30	05:25	1.8	W	2017-09-30	12:35	0.9	WSW
2017-09-29	22:20	1.8	ENE	2017-09-30	05:30	0.9	SE	2017-09-30	12:40	0.4	NNE
2017-09-29	22:25	1.8	ENE	2017-09-30	05:35	1.3	NE	2017-09-30	12:45	1.3	WSW
2017-09-29	22:30	1.3	NNW	2017-09-30	05:40	0.9	NNE	2017-09-30	12:50	1.8	SW
2017-09-29	22:35	1.8	NE	2017-09-30	05:45	0.4	ESE	2017-09-30	12:55	0.4	SSW
2017-09-29	22:40	0.9	NE	2017-09-30	05:50	0.4	SSW	2017-09-30	13:00	0.9	SW
2017-09-29	22:45	0.4	SSW	2017-09-30	05:55	0.4	SSW	2017-09-30	13:05	0.4	N
2017-09-29	22:50	0.4	E	2017-09-30	06:00	0.4	WSW	2017-09-30	13:10	2.2	W
2017-09-29	22:55	0.4	NE	2017-09-30	06:05	2.2	NE	2017-09-30	13:15	0.4	WSW



APPENDIX H

Dolphin Monitoring Results



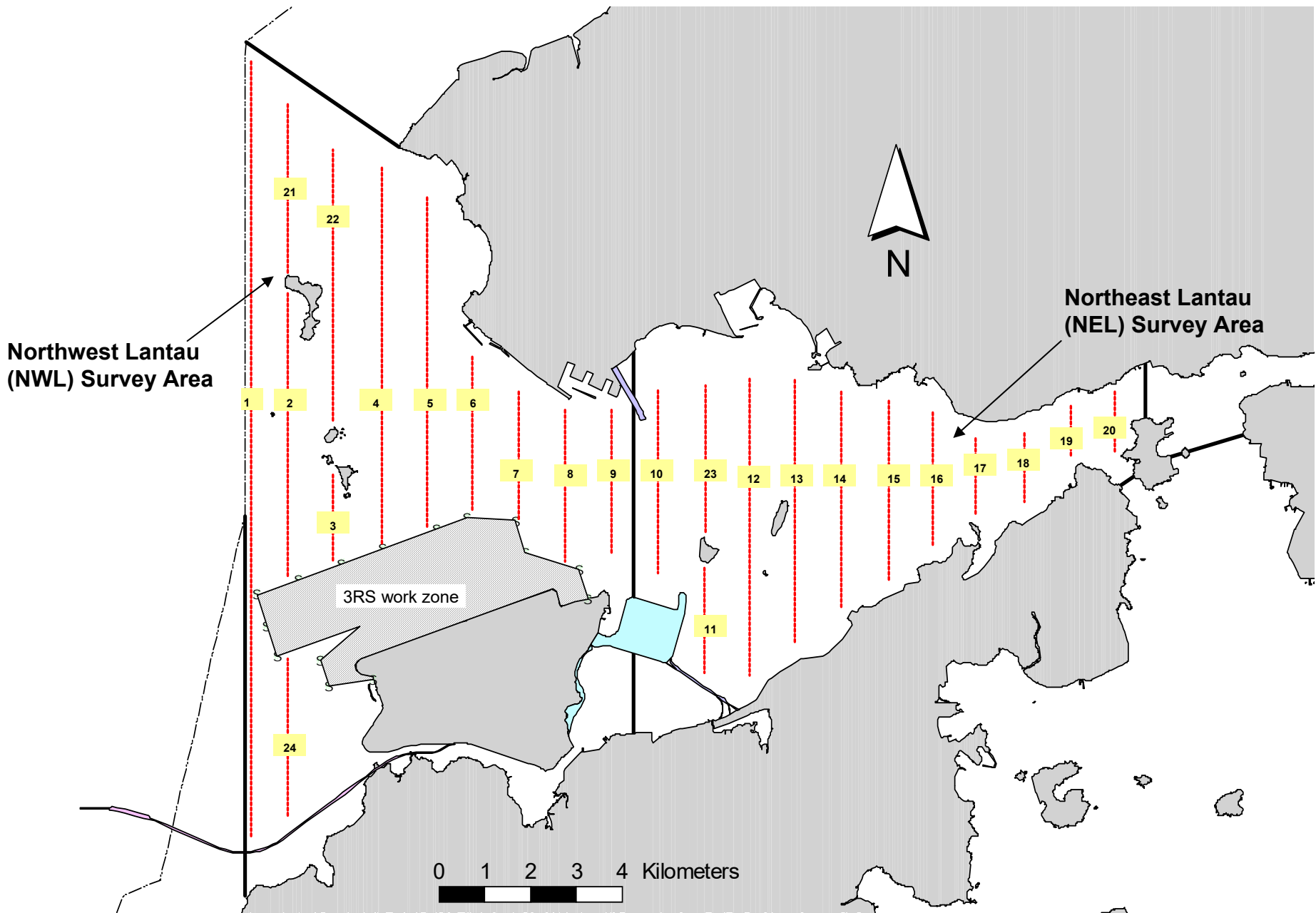


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

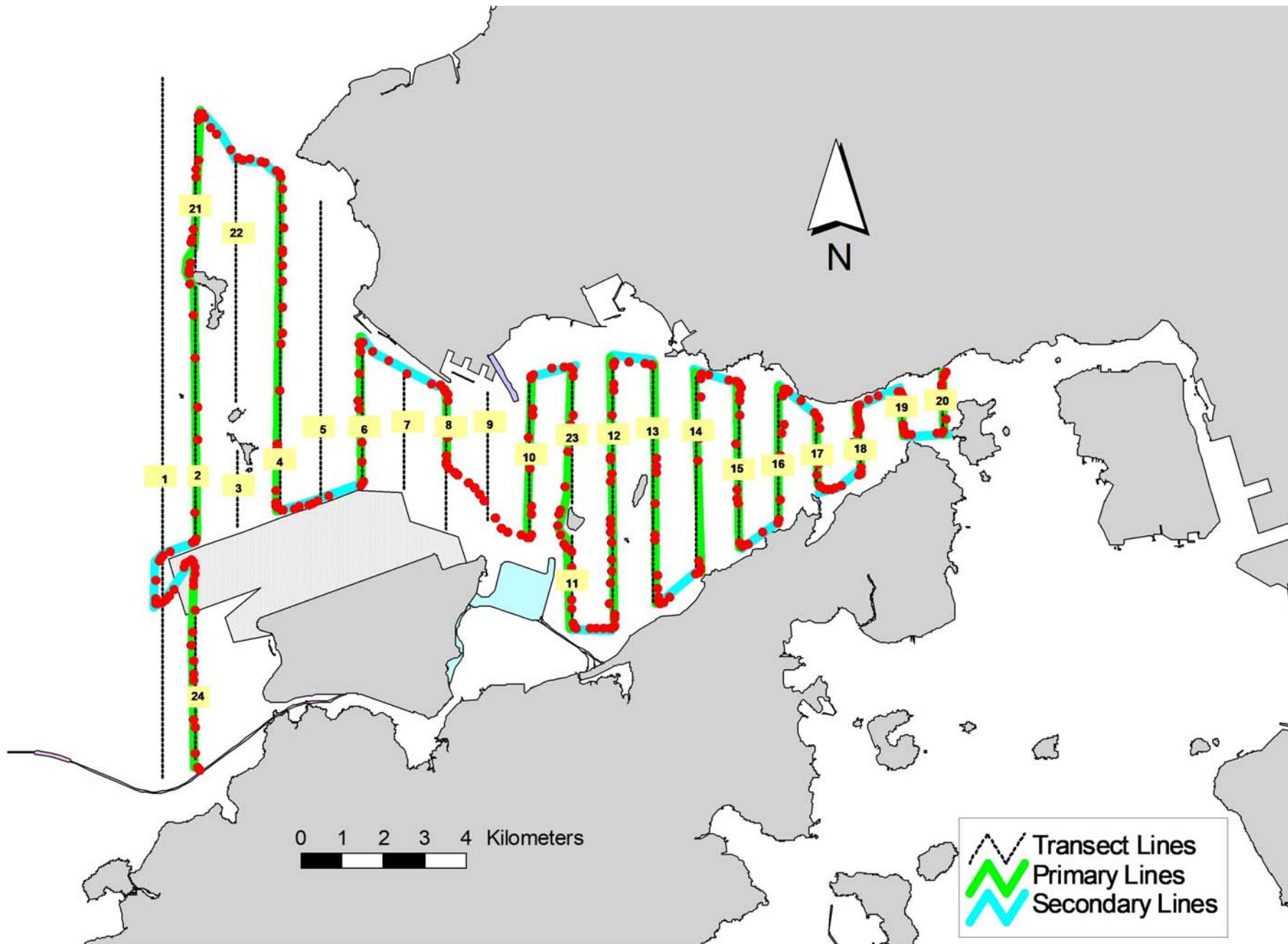


Figure 2. Survey Route on September 15th, 2017

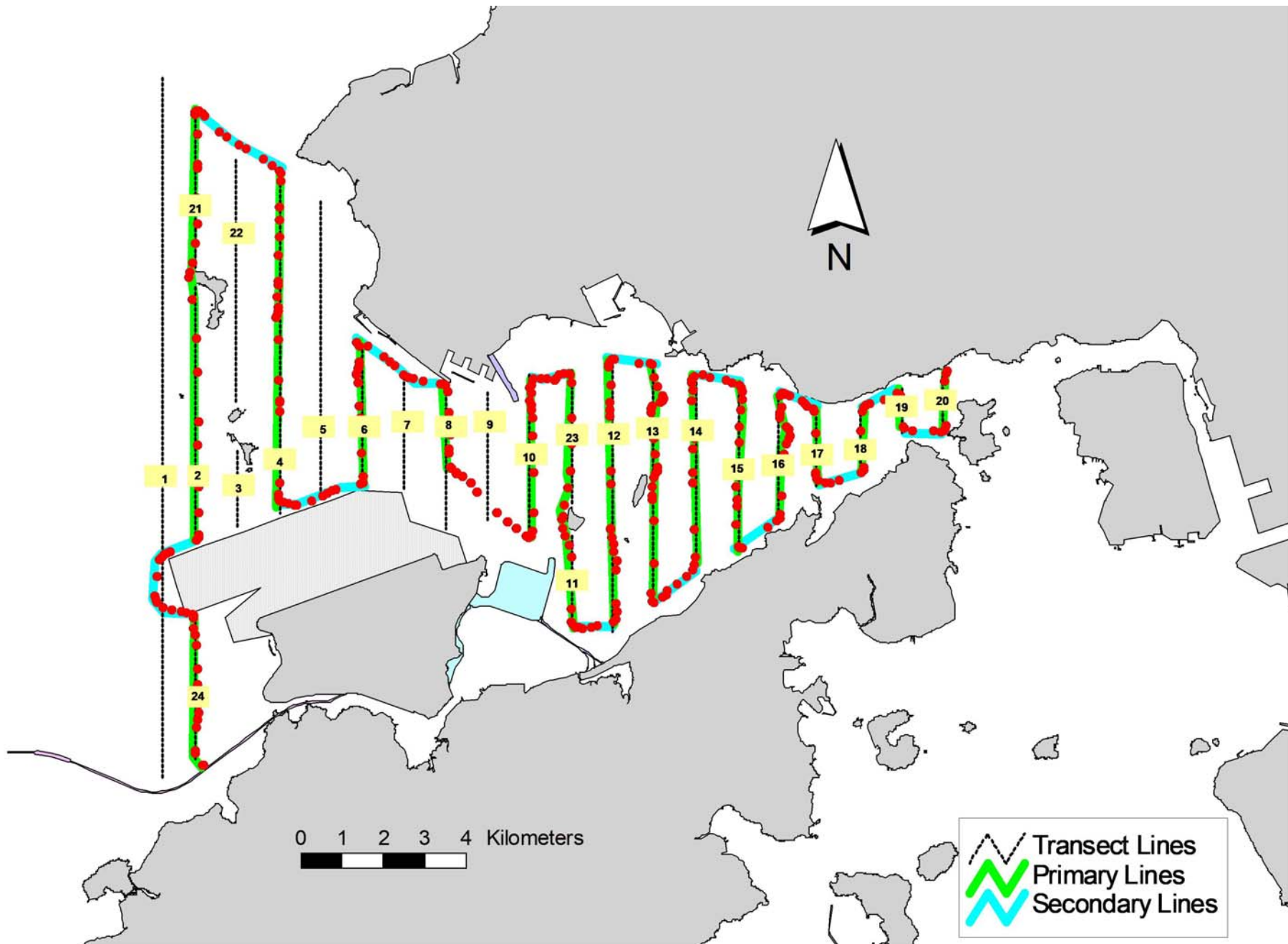


Figure 4. Survey Route on September 22nd, 2017

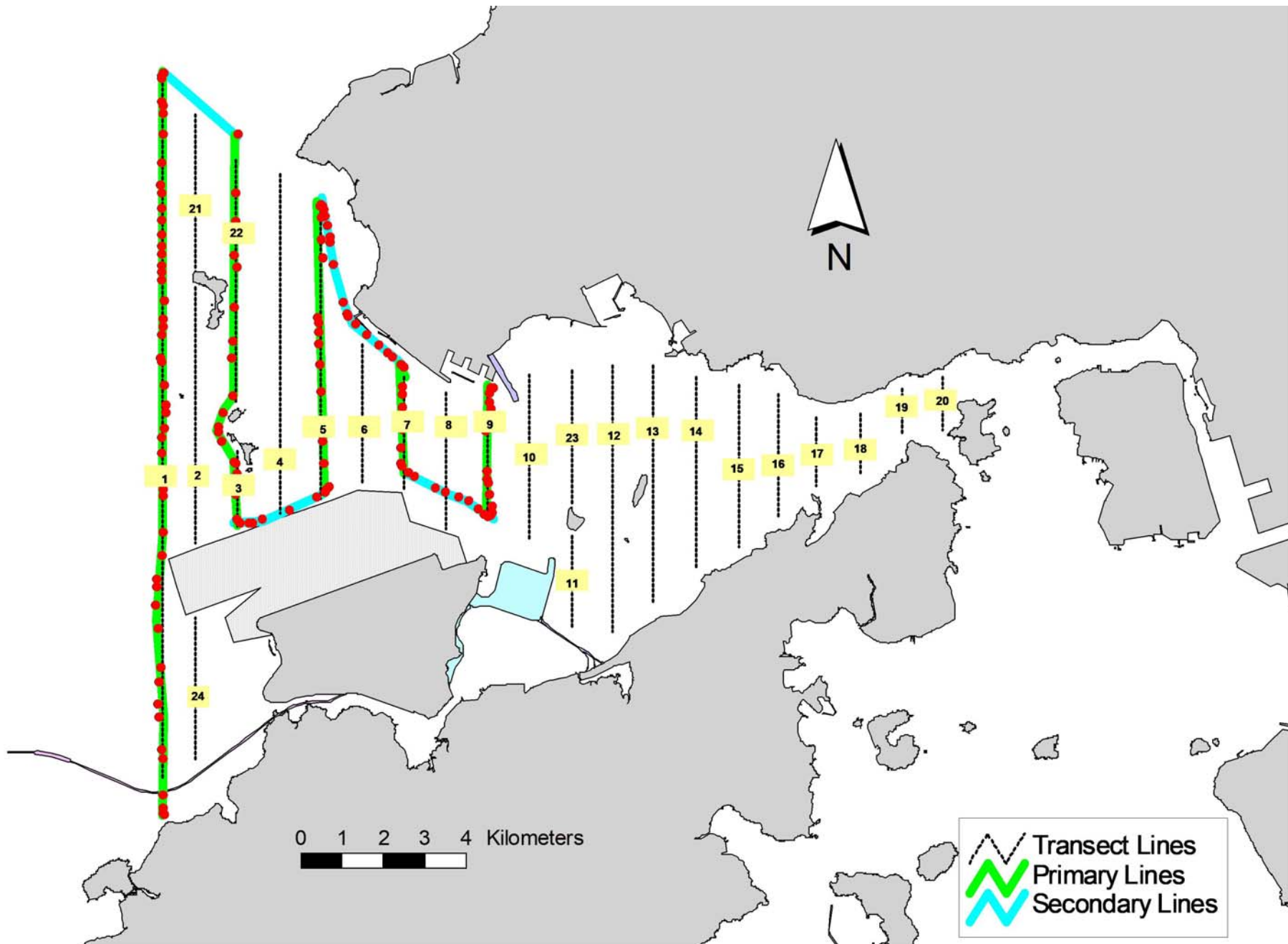


Figure 5. Survey Route on September 29th, 2017

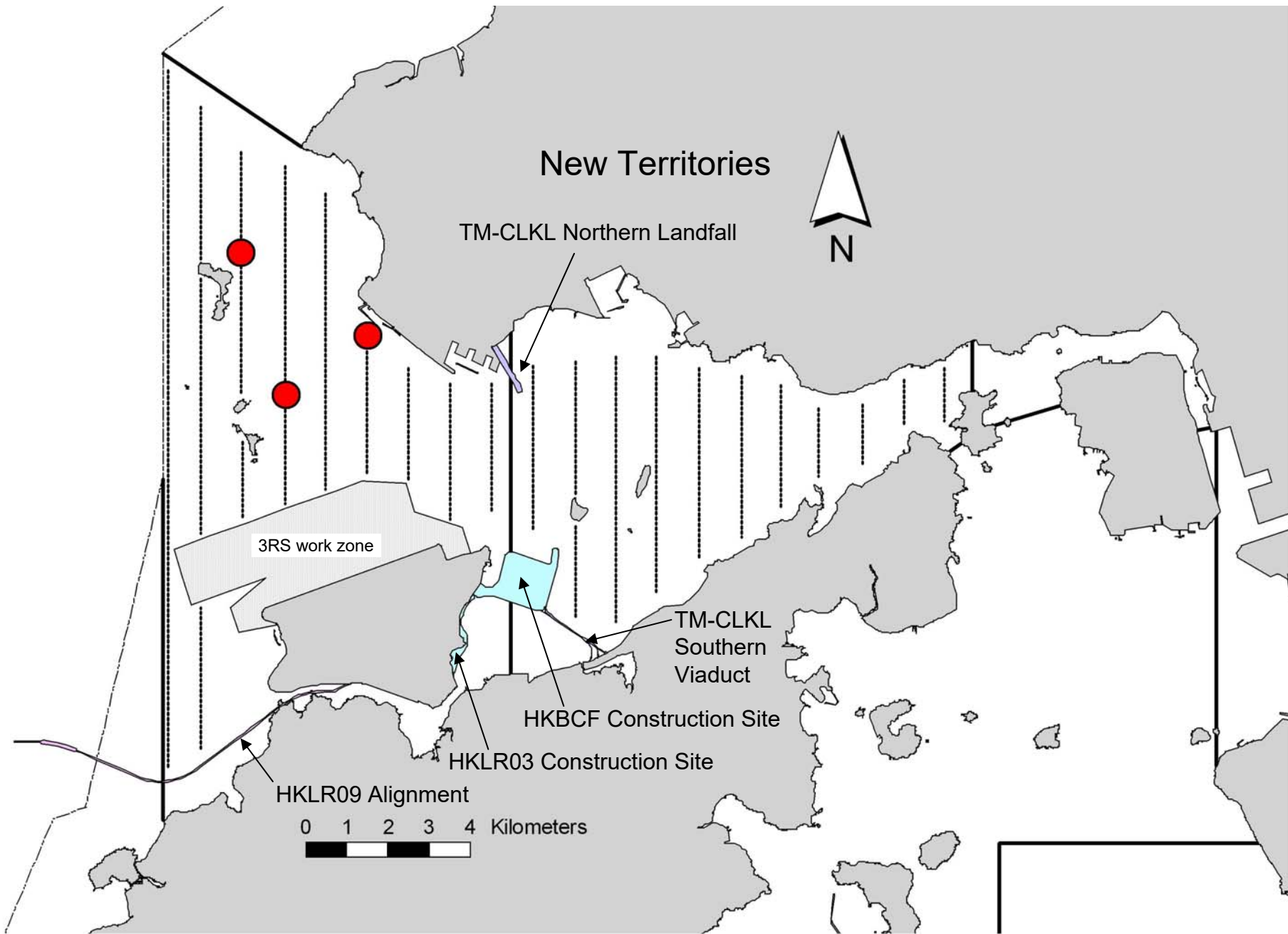


Figure 6. Distribution of Chinese White Dolphin Sightings during September 2017 HKLR03 Monitoring Surveys

Annex I. HKLR03 Survey Effort Database (September 2017)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
15-Sep-17	NW LANTAU	2	26.51	AUTUMN	STANDARD36826	HKLR	P
15-Sep-17	NW LANTAU	2	10.09	AUTUMN	STANDARD36826	HKLR	S
15-Sep-17	NW LANTAU	3	1.20	AUTUMN	STANDARD36826	HKLR	S
15-Sep-17	NE LANTAU	2	34.49	AUTUMN	STANDARD36826	HKLR	P
15-Sep-17	NE LANTAU	3	2.20	AUTUMN	STANDARD36826	HKLR	P
15-Sep-17	NE LANTAU	2	12.01	AUTUMN	STANDARD36826	HKLR	S
18-Sep-17	NW LANTAU	2	28.84	AUTUMN	STANDARD36826	HKLR	P
18-Sep-17	NW LANTAU	3	7.20	AUTUMN	STANDARD36826	HKLR	P
18-Sep-17	NW LANTAU	2	12.96	AUTUMN	STANDARD36826	HKLR	S
22-Sep-17	NW LANTAU	1	6.05	AUTUMN	STANDARD36826	HKLR	P
22-Sep-17	NW LANTAU	2	18.48	AUTUMN	STANDARD36826	HKLR	P
22-Sep-17	NW LANTAU	3	0.56	AUTUMN	STANDARD36826	HKLR	P
22-Sep-17	NW LANTAU	1	1.58	AUTUMN	STANDARD36826	HKLR	S
22-Sep-17	NW LANTAU	2	9.25	AUTUMN	STANDARD36826	HKLR	S
22-Sep-17	NE LANTAU	2	4.68	AUTUMN	STANDARD36826	HKLR	P
22-Sep-17	NE LANTAU	3	31.06	AUTUMN	STANDARD36826	HKLR	P
22-Sep-17	NE LANTAU	2	3.30	AUTUMN	STANDARD36826	HKLR	S
22-Sep-17	NE LANTAU	3	9.06	AUTUMN	STANDARD36826	HKLR	S
29-Sep-17	NW LANTAU	1	3.40	AUTUMN	STANDARD36826	HKLR	P
29-Sep-17	NW LANTAU	2	13.70	AUTUMN	STANDARD36826	HKLR	P
29-Sep-17	NW LANTAU	3	12.90	AUTUMN	STANDARD36826	HKLR	P
29-Sep-17	NW LANTAU	4	5.60	AUTUMN	STANDARD36826	HKLR	P
29-Sep-17	NW LANTAU	2	1.15	AUTUMN	STANDARD36826	HKLR	S
29-Sep-17	NW LANTAU	3	10.06	AUTUMN	STANDARD36826	HKLR	S

Annex II. HKLR03 Chinese White Dolphin Sighting Database (September 2017)

(Abbreviations: 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 Line)

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
22-Sep-17	1	1152	6	NW LANTAU	2	320	ON	HKLR	823991	807501	AUTUMN	NONE	P
22-Sep-17	2	1244	3	NW LANTAU	1	250	ON	HKLR	825349	809502	AUTUMN	NONE	P
29-Sep-17	1	1309	2	NW LANTAU	4	140	ON	HKLR	827215	806416	AUTUMN	NONE	P

Annex III. Individual dolphins identified during HKLR03 monitoring surveys in September 2017

ID#	DATE	STG#	AREA
NL46	22/09/17	1	NW LANTAU
NL49	22/09/17	1	NW LANTAU
NL123	22/09/17	1	NW LANTAU
NL202	22/09/17	2	NW LANTAU
	29/09/17	1	NW LANTAU
NL242	22/09/17	1	NW LANTAU
NL286	22/09/17	2	NW LANTAU
	29/09/17	1	NW LANTAU
NL296	22/09/17	1	NW LANTAU
WL05	22/09/17	1	NW LANTAU



Annex IV. Photographs of Identified Individual Dolphins in September 2017 (HKLR03)



Annex IV. (cont'd)



APPENDIX I

Mudflat Monitoring Results





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

TC1



TC2



TC3



ST



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

TC1



broken bike and plastic waste



trash gill net

TC3



boat wreckage

ST



trash gill net and hand trolley



a tangled horseshoe crab on a trash net

(record in Jun. 2017)

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

TC1 *Carcinoscorpius rotundicauda*



TC1 *Tachypleus tridentatus*

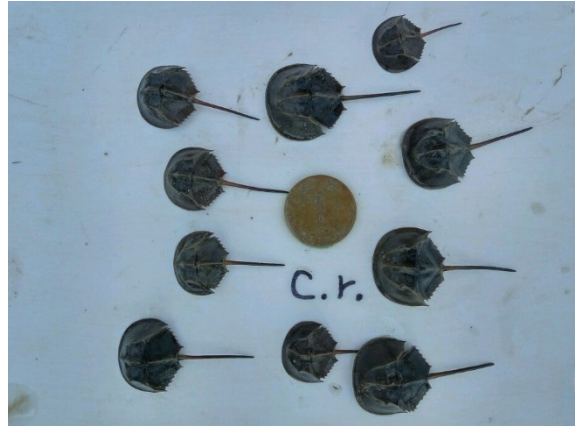


TC2 *Carcinoscorpius rotundicauda*



Figure 3.1. Examples of photographic records of horseshoe crab (Sep. 2017)

TC3 *Carcinoscorpius rotundicauda*



TC3 *Tachypleus tridentatus*



Figure 3.1 (Cont'd). Examples of photographic records of horseshoe crab (*Sep.* 2017)

ST *Carcinoscorpius rotundicauda*



ST *Tachypleus tridentatus*



Figure 3.1 (Cont'd). *Examples of photographic records of horseshoe crab (Sep. 2017)*

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

	TC1	TC2	TC3	ST
Search duration (hr)	2	2	3	3
<i>Carcinoscorpius rotundicauda</i>				
no. of individuals	18	1	72	39
mean prosomal width (mm)	30.91	37.85	35.02	50.18
max. prosomal width (mm)	47.55	\	80.27	78.00
min. prosomal width (mm)	19.99	\	13.30	19.87
Search record (ind. hr ⁻¹ person ⁻¹)	4.5	0.3	12.0	6.5
<i>Tachypleus tridentatus</i>				
no. of individuals	1	0	48	28
mean prosomal width (mm)	38.34	\	47.52	47.21
max. prosomal width (mm)	\	\	88.93	64.36
min. prosomal width (mm)	\	\	34.76	29.61
Search record (ind. hr ⁻¹ person ⁻¹)	0.3	0.0	8.0	4.7

Mar. 2015 - ST



Jun. 2017 – TC2



Female



Male

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

Jun. 2017 - TC3



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

Jun. 2017



Sep. 2017



Figure 3.3. *Photographic records of large individuals (>100 mm) of Carcinoscorpius rotundicauda in ST whose records were excluded from data analysis.*

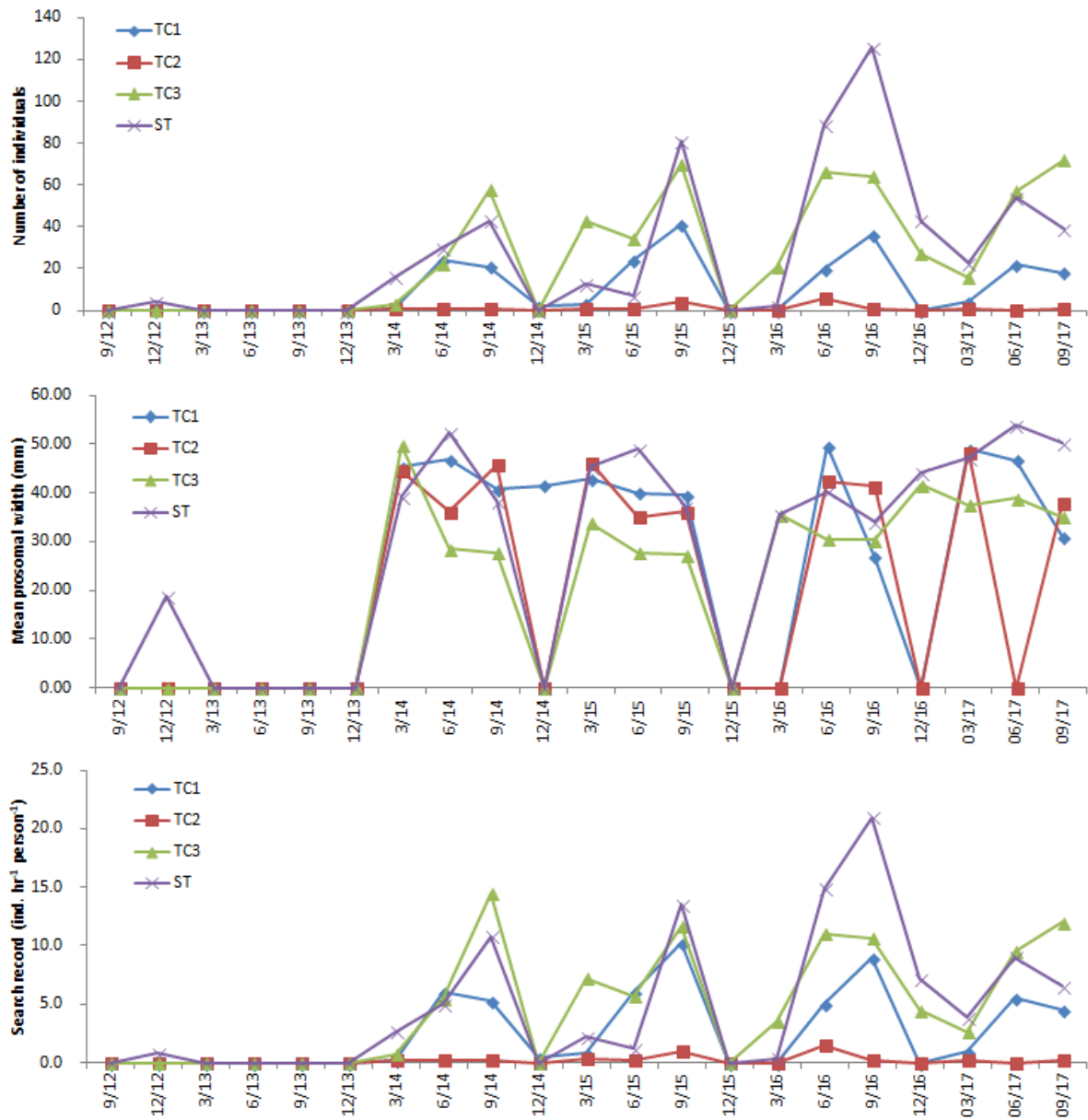


Figure 3.4. Changes of number of individuals, mean prosomal width and search record of horseshoe crab *Carcinoscorpius rotundicauda* in every sampling zone along the sampling months

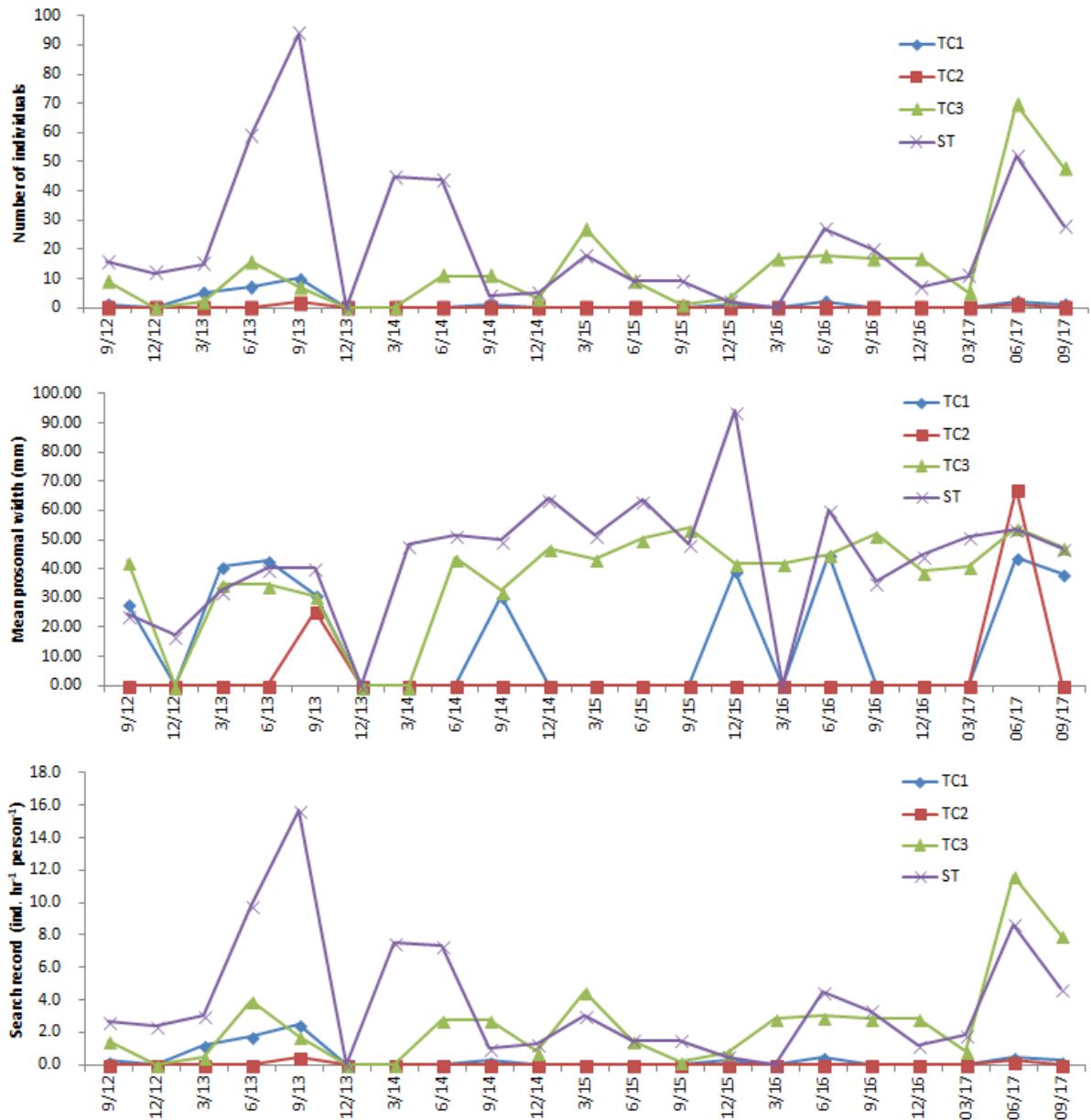


Figure 3.5. Changes of number of individuals, mean prosomal width and search record of horseshoe crab *Tachypleus tridentatus* in every sampling zone along the sampling months

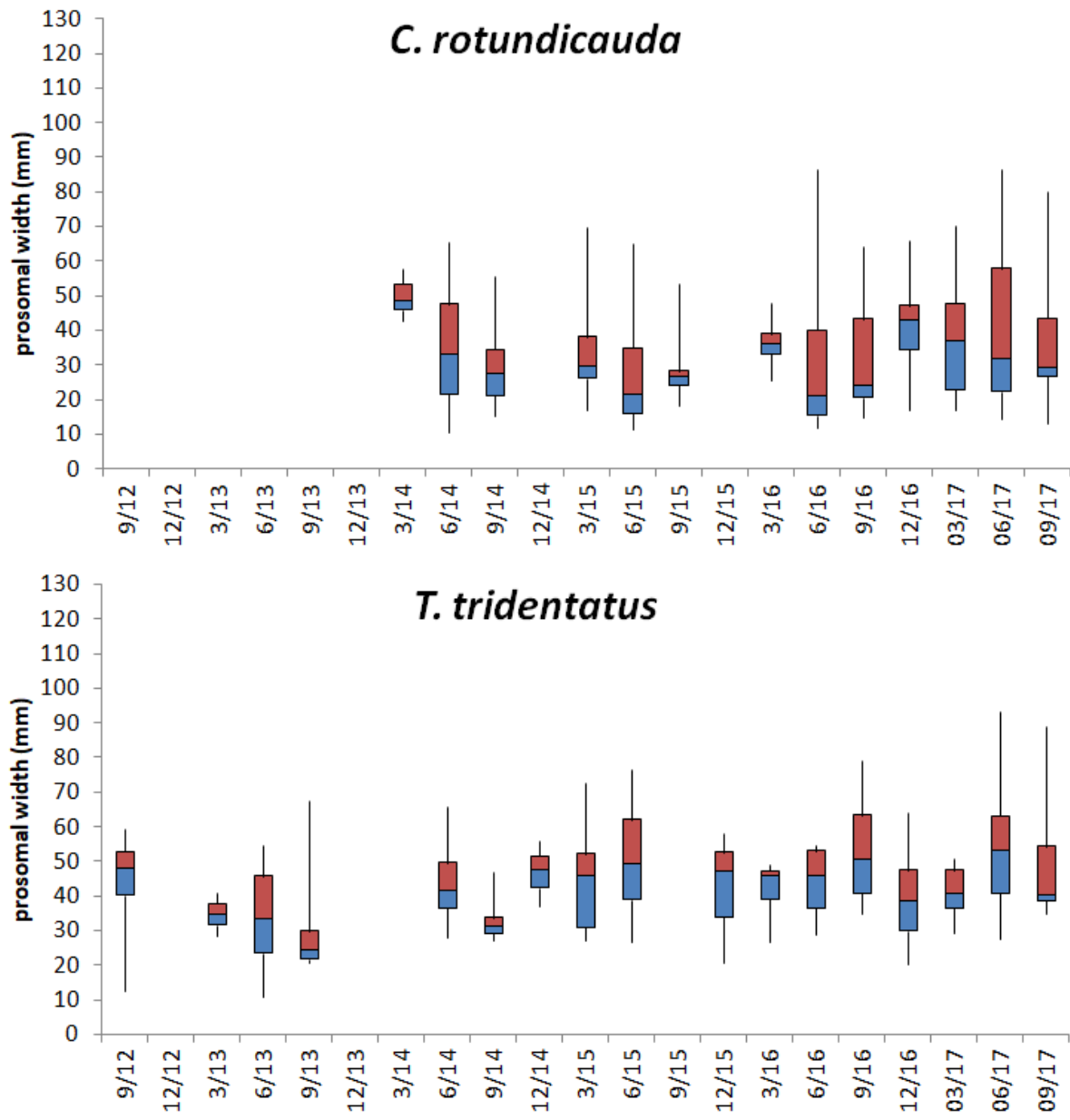


Figure 3.6. Box plot of prosomal width of horseshoe crab in the sampling zone TC3 along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and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

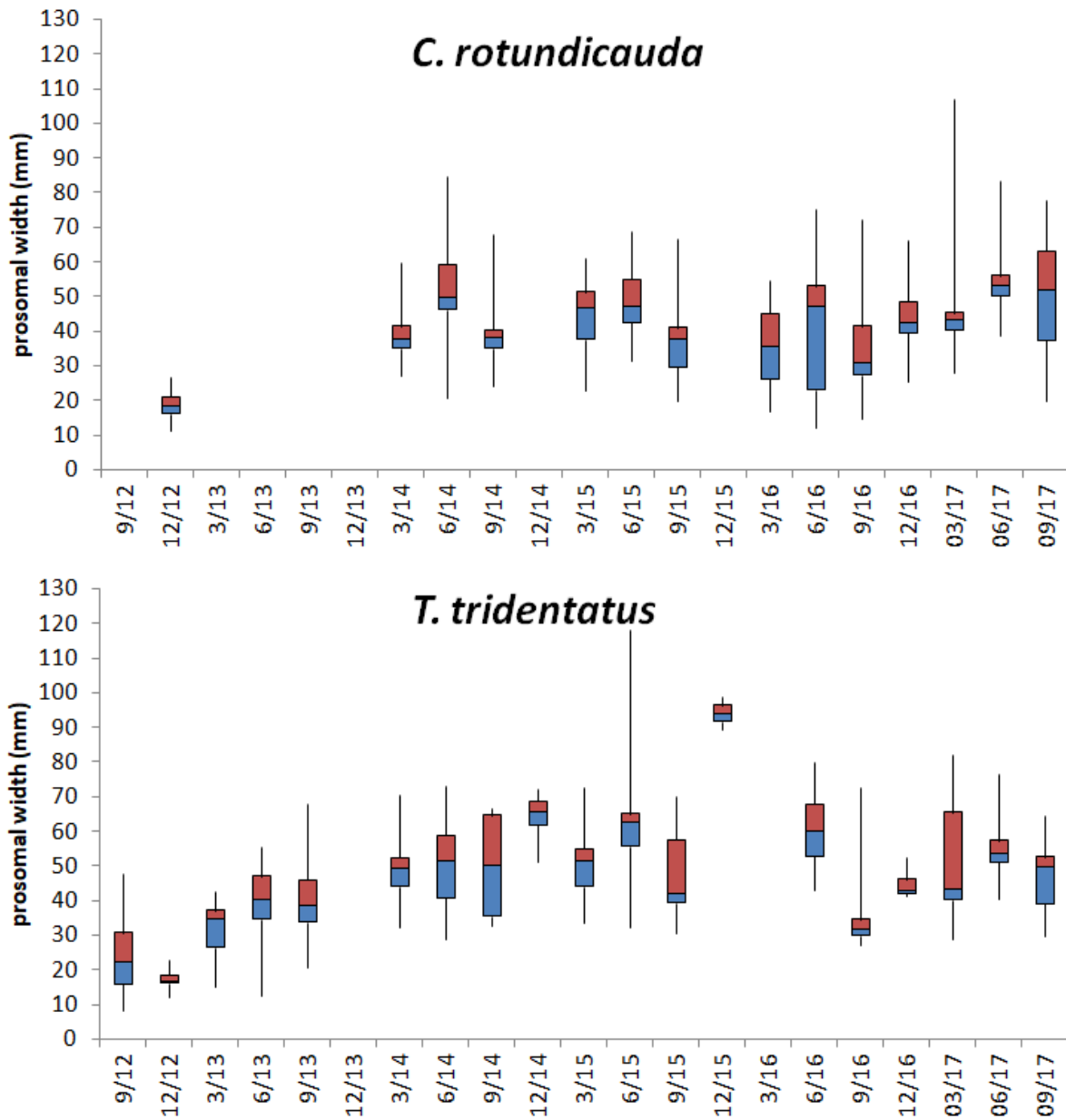


Figure 3.7. Box plot of prosomal width of horseshoe crab in the sampling zone ST along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and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

Re-exposed mudflat area between TC3 and ST where used to be an extensive patch of *Halophila ovalis*



Re-exposed mudflat area in ST where used to be co-existing patches of *Halophila ovalis* and *Zostera japonica*



Figure 3.8. Seagrass disappearance between TC3 and ST in present survey

TC3 *Halophila ovalis*



ST *Halophila ovalis*



ST *Zostera japonica*



Figure 3.9. Examples of photographic records of seagrass beds (record in Jun. 2017)

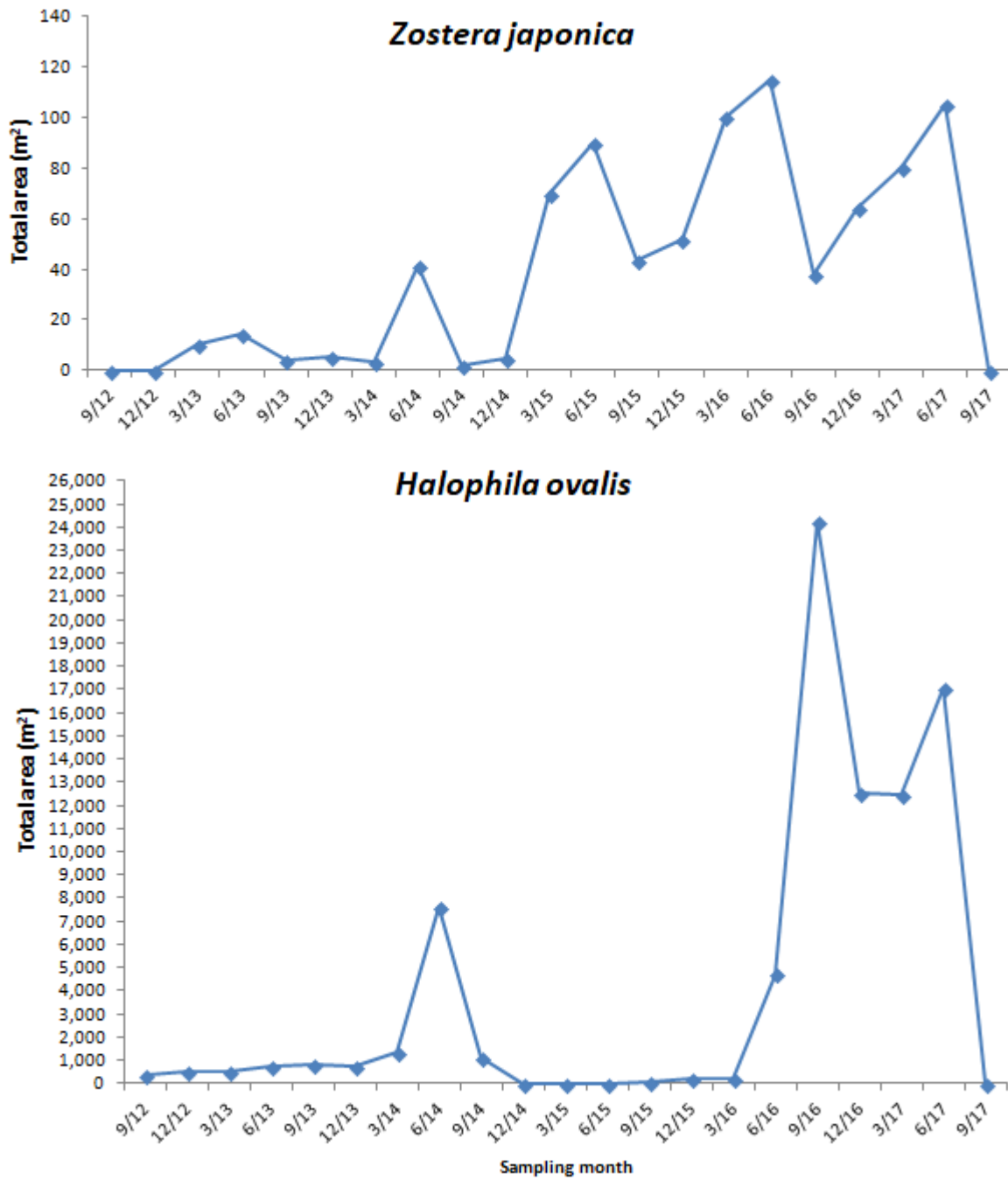


Figure 3.10. Temporal changes of estimated total area of seagrass beds in ST

Jun. 2014



Dec. 2014 (no seagrass)



Sep. 2015



Sep. 2016



Jun. 2017



Sep. 2017 (no seagrass)



Figure 3.11. *Comparison of pictures taken in different sampling months shows the disappearance, recolonization of seagrass beds and disappearance again*

Table 3.2. *Relative distribution (%) of types of substratum along the horizontal transect at every tidal level and in every sampling zone.*

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

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

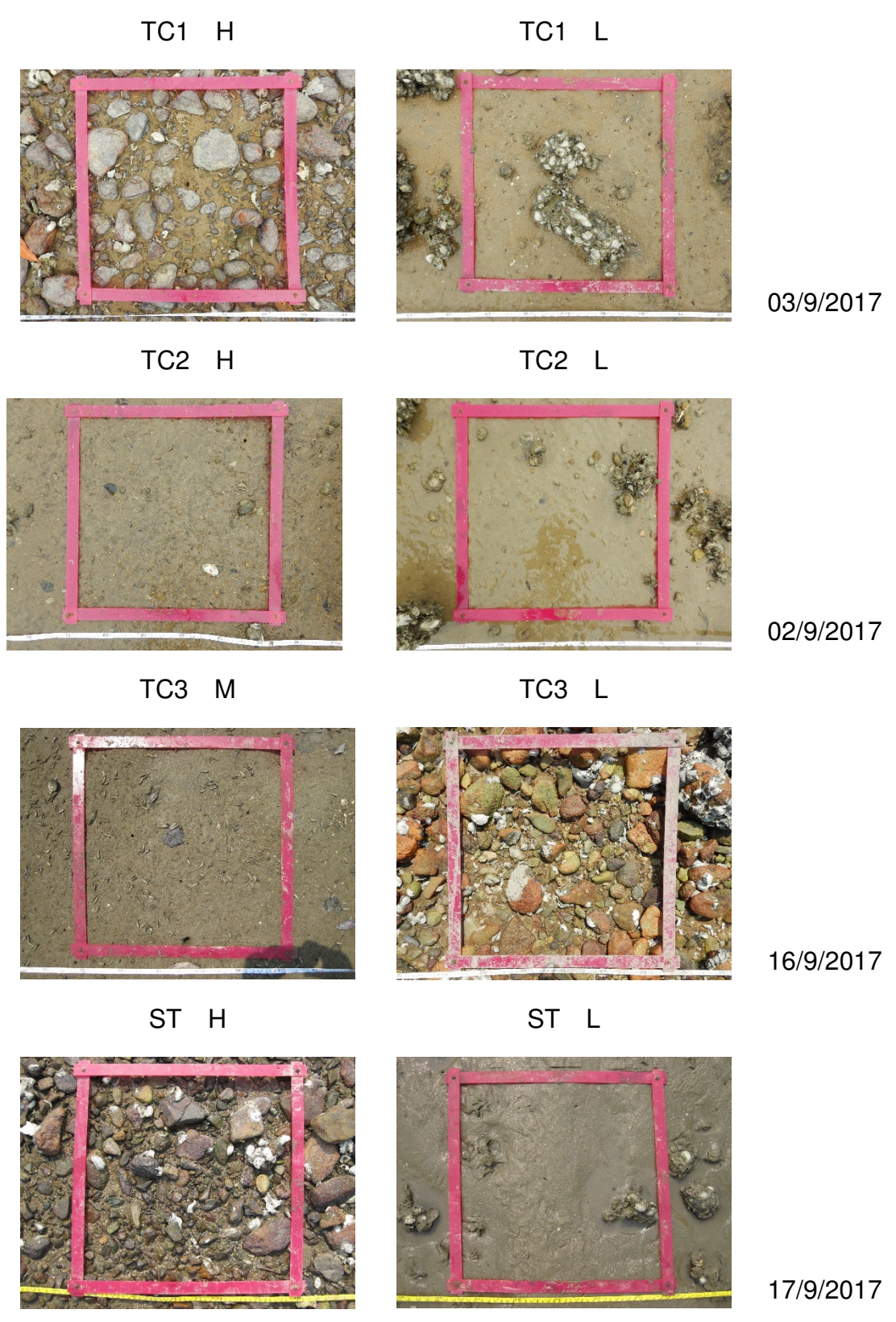


Figure 3.12. *Examples of photographic records of quadrat for intertidal soft shore community survey (H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.)*

Table 3.3. *Total abundance, density and number of taxon of every phylum*

Phylum	Total Abundance	%	Density (ind. m⁻²)	Number of taxon
<i>Sep. 2017</i>				
Mollusca	11160	92.2	372	37
Arthropoda	803	6.6	27	14
Annelida	72	0.6	2	6
Sipuncula	37	0.3	1	1
Cnidaria	11	0.1	0	1
Nemertea	7	0.1	0	1
Chordata	3	0.0	0	2
Echinodermata	3	0.0	0	1
Echiura	3	0.0	0	1
Total	12099			

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

0 ind. m⁻²: Density of the phylum is less than 1 ind. m⁻².

Table 3.4. *The number of individuals, relative abundance (percentage) and density of each phylum in every sampling zone*

Phylum	TC1	%	Density (ind. m ⁻²)	TC2	%	Density (ind. m ⁻²)	TC3	%	Density (ind. m ⁻²)	ST	%	Density (ind. m ⁻²)
Annelida	12	0.3	2	33	1.4	4	26	0.7	3	1	0.1	0
Arthropoda	402	10.0	54	154	6.4	21	140	3.7	19	107	5.8	14
Chordata				1	0.0	0				2	0.1	0
Cnidaria	6	0.1	1	1	0.0	0	1	0.0	0	3	0.2	0
Echinodermata	3	0.1	0									
Echiura							3	0.1	0			
Mollusca	3582	89.0	478	2220	91.9	296	3638	95.2	485	1720	93.6	229
Nemertea	5	0.1	1							2	0.1	0
Sipuncula	16	0.4	2	6	0.2	1	12	0.3	2	3	0.2	0
Sub-total	4026			2415			3820			1838		

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

0 ind. m⁻²: Density of the phylum is less than 1 ind. m⁻² of the sampling zone.

Table 3.5. *The abundant species (relative abundance >10%) in every sampling zone*

Sampling zone TC1	Group	Species	Mean density (ind. m ²)	Relative abundance (%)	Cumulative relative abundance (%)
High	G	<i>Batillaria multiformis</i>	337	63	63
	G	<i>Cerithidea djadjariensis</i>	84	16	78
	G	<i>Cerithidea cingulata</i>	62	11	90
Mid	G	<i>Cerithidea djadjariensis</i>	109	23	23
	Bi	<i>Saccostrea cucullata</i>	106	22	46
	G	<i>Monodonta labio</i>	81	17	63
	G	<i>Batillaria multiformis</i>	59	13	75
	G	<i>Cerithidea cingulata</i>	58	12	88
Low	Bi	<i>Saccostrea cucullata</i>	176	29	29
	Ba	<i>Balanus amphitrite</i>	115	19	49

Ba = Barnacle, Bi = Bivalve, G = Gastropod

Table 3.5 (Cont'd). *The abundant species (relative abundance >10%) in every sampling zone*

Sampling zone TC2	Group	Species	Mean density (ind. m ⁻²)	Relative abundance (%)	Cumulative relative abundance (%)
High	G	<i>Cerithidea djadjariensis</i>	172	40	40
	G	<i>Cerithidea cingulata</i>	89	21	61
	Bi	<i>Saccostrea cucullata</i>	56	13	74
Mid	G	<i>Cerithidea djadjariensis</i>	83	25	25
	G	<i>Batillaria zonalis</i>	63	19	44
	Bi	<i>Saccostrea cucullata</i>	61	18	63
Low	Bi	<i>Saccostrea cucullata</i>	62	29	29
	G	<i>Batillaria zonalis</i>	42	20	49
	G	<i>Cerithidea djadjariensis</i>	32	15	64

Bi = Bivalve, G = Gastropod

Table 3.5 (Cont'd). *The abundant species (relative abundance >10%) in every sampling zone*

Sampling zone TC3	Group	Species	Mean density (ind. m ⁻²)	Relative abundance (%)	Cumulative relative abundance (%)
High	G	<i>Cerithidea djadjariensis</i>	365	58	58
	G	<i>Cerithidea cingulata</i>	163	26	84
	G	<i>Batillaria multiformis</i>	73	12	95
Mid	G	<i>Cerithidea djadjariensis</i>	256	51	51
	G	<i>Cerithidea cingulata</i>	129	26	76
Low	Bi	<i>Saccostrea cucullata</i>	163	42	42
	G	<i>Monodonta labio</i>	126	32	74

Bi = Bivalve, G = Gastropod

Table 3.5 (Cont'd). *The abundant species (relative abundance >10%) in every sampling zone*

Sampling zone ST	Group	Species	Mean density (ind. m ⁻²)	Relative abundance (%)	Cumulative relative abundance (%)
High	G	<i>Batillaria multiformis</i>	56	24	24
	G	<i>Monodonta labio</i>	46	19	43
	Bi	<i>Saccostrea cucullata</i>	35	15	58
Mid	Bi	<i>Saccostrea cucullata</i>	117	33	33
	G	<i>Monodonta labio</i>	63	18	50
	G	<i>Lunella coronata</i>	46	13	63
	G	<i>Cerithidea djadjariensis</i>	41	12	75
Low	Bi	<i>Saccostrea cucullata</i>	28	20	20
	Ba	<i>Balanus amphitrite</i>	25	18	37
	G	<i>Cerithidea djadjariensis</i>	24	17	55
	G	<i>Batillaria zonalis</i>	14	10	64

Ba = Barnacle, Bi = Bivalve, G = Gastropod

Table 3.6. Mean values of species number, density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) at every tidal level and in every sampling zone

Sampling zone	Tidal level	Mean species number (spp. 0.25 m ⁻²)	Mean species number across tidal levels	Mean density (ind. m ⁻²)	Mean density across tidal levels	Mean H'	Mean H' across tidal levels	Mean J	Mean J across tidal levels
TC1	H	7	10	539	537	1.0	1.4	0.6	0.6
	M	11		472		1.6		0.7	
	L	12		599		1.6		0.6	
TC2	H	9	10	426	322	1.4	1.5	0.6	0.7
	M	11		330		1.7		0.8	
	L	9		210		1.5		0.7	
TC3	H	5	7	630	509	0.9	1.1	0.6	0.6
	M	8		506		1.3		0.6	
	L	9		392		1.2		0.6	
ST	H	10	9	237	245	1.8	1.6	0.8	0.8
	M	12		358		1.9		0.8	
	L	7		141		1.2		0.7	

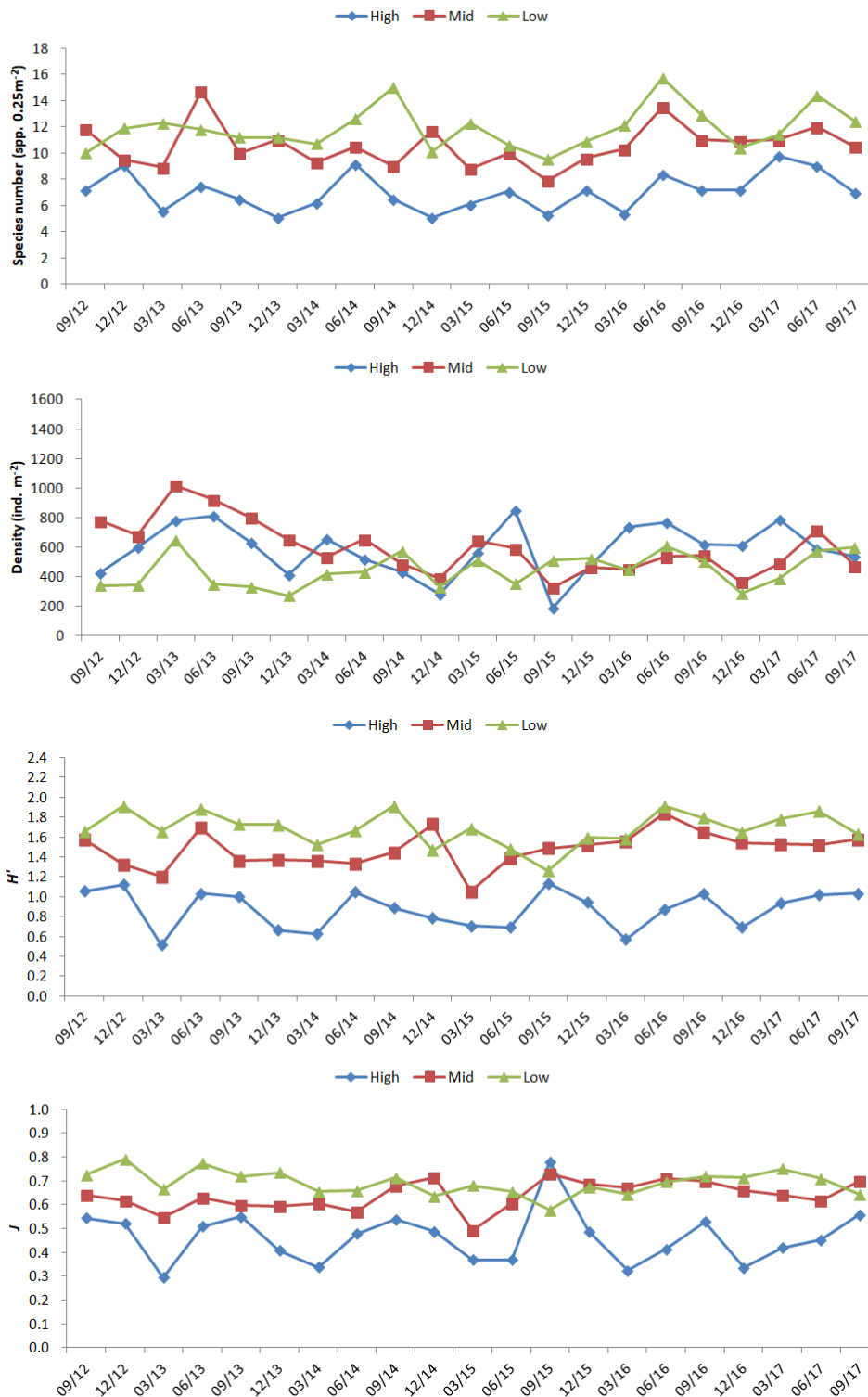


Figure 3.13. Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC1

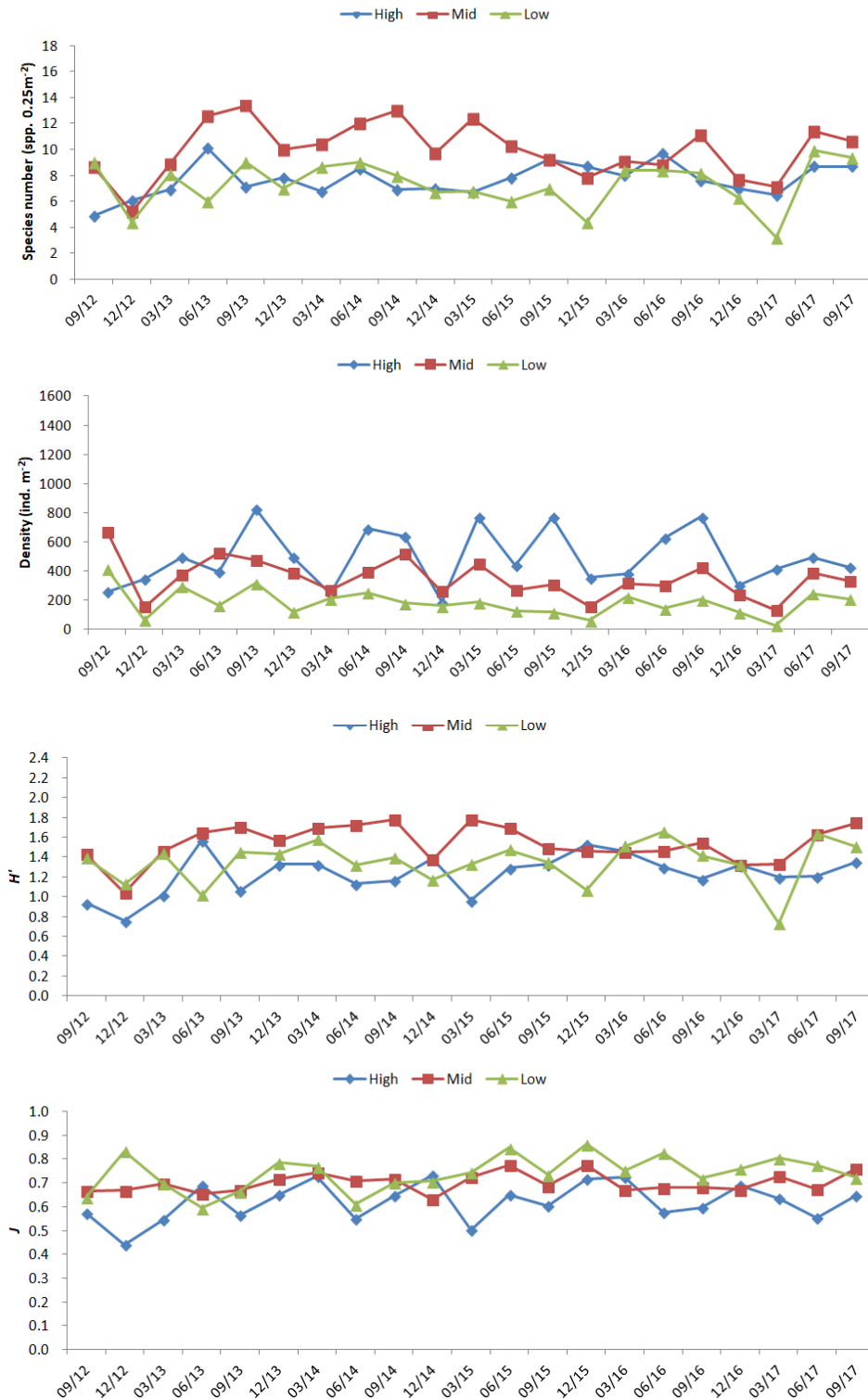


Figure 3.14. Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2

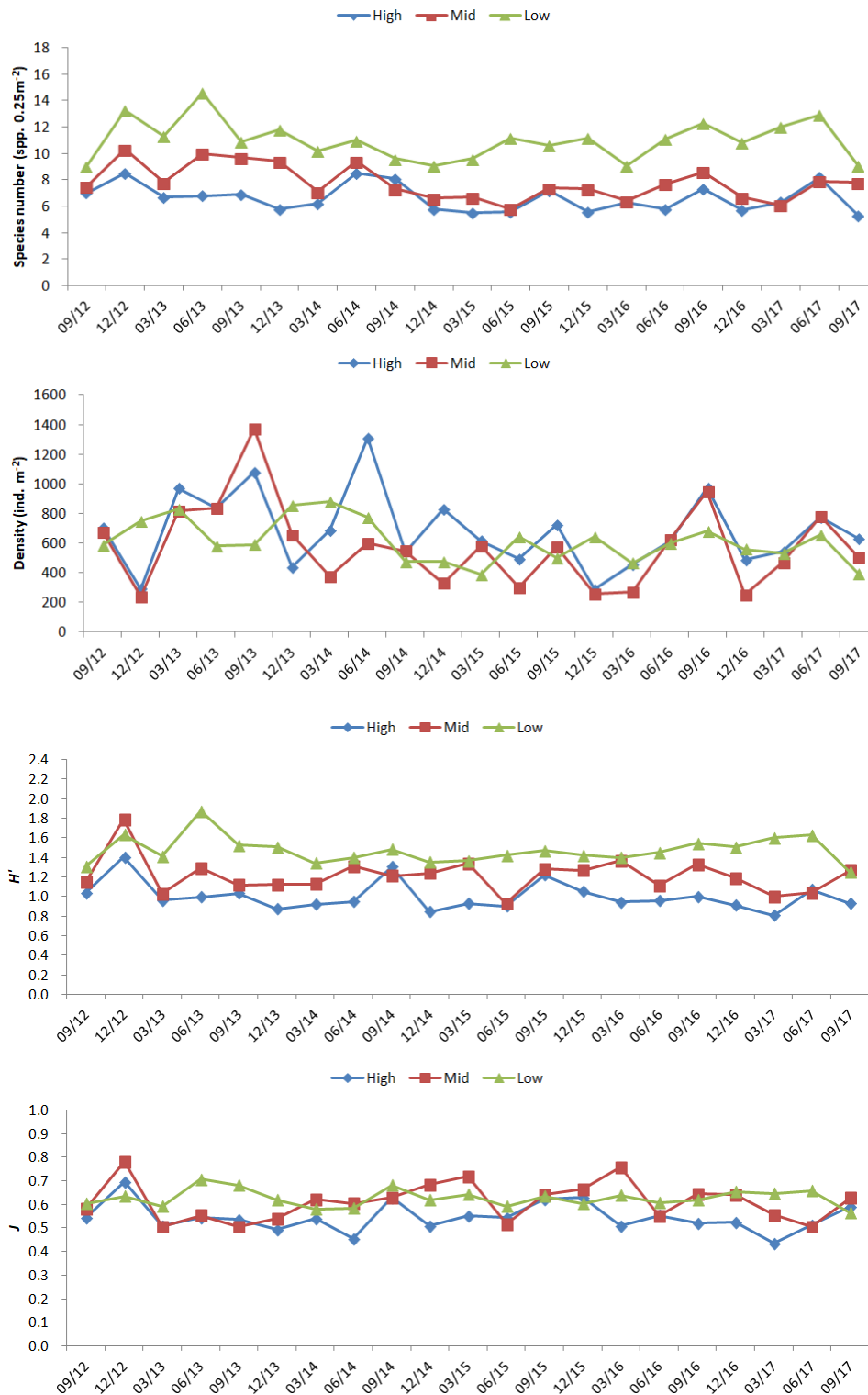


Figure 3.15. Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3

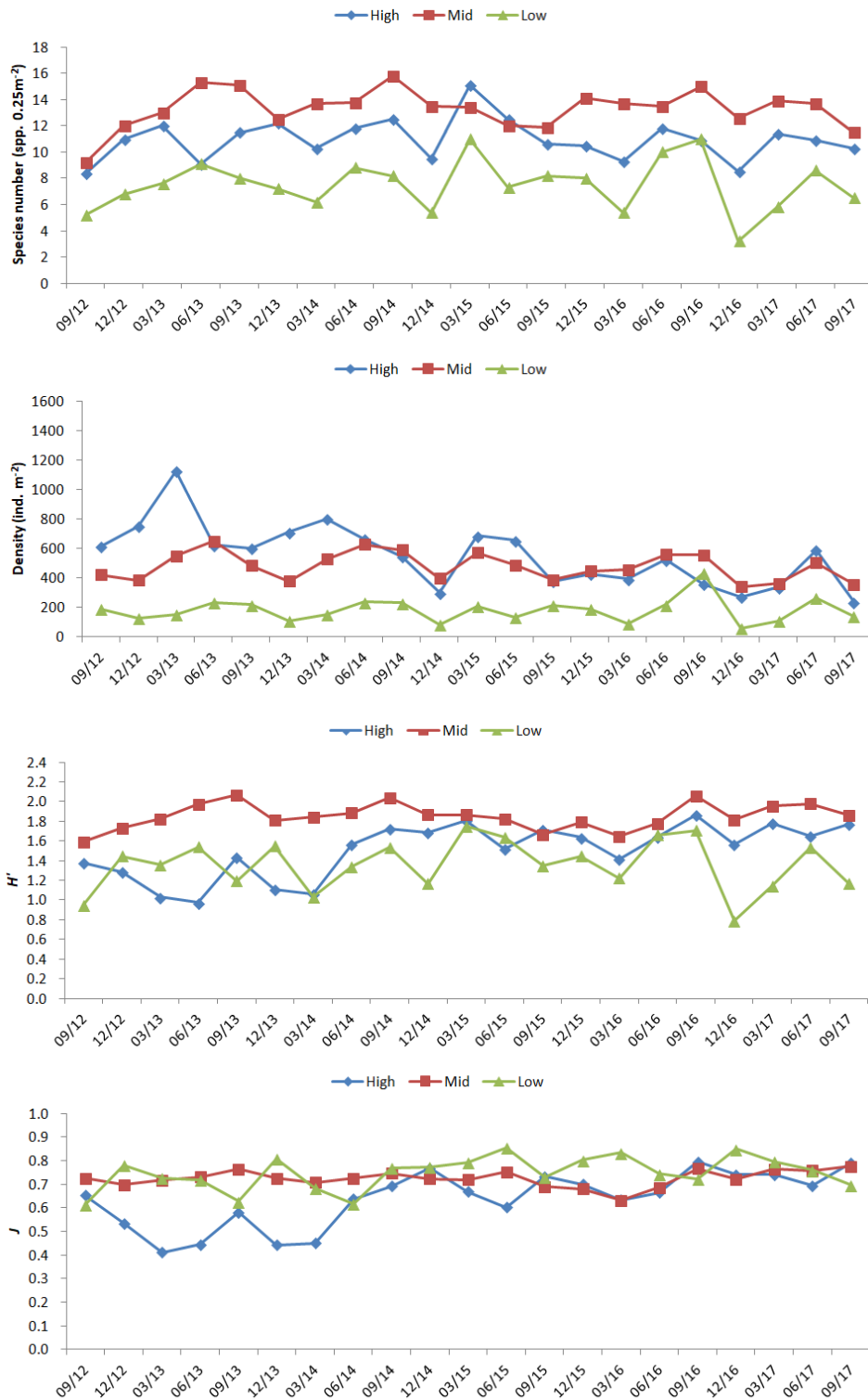


Figure 3.16. Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST

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



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

No.	Sub.	GPS coordinate		Record of prosomal width (mm)					
<u>Sampling site TC1 (Search hour = 2 hrs)</u>				<i>Carcinoscorpius rotundicauda</i>					<i>Tachypleus tridentatus</i>
1	S	22° 16.997' N	113° 55.981' E	20.70	26.73	30.66	31.89	37.78	
2	S	22° 17.008' N	113° 55.988' E	28.02	37.27	24.82			
3	S	22° 17.063' N	113° 56.061' E	22.21	26.03	30.77	36.59		
4	S	22° 17.065' N	113° 56.063' E	19.99	20.07				
5	M	22° 17.082' N	113° 56.050' E	35.90	47.55				
6	S	22° 17.030' N	113° 55.972' E	36.31	43.04				38.34
No. of ind.				18					1
<u>Sampling site TC2 (Search hour = 2 hrs)</u>				<i>Carcinoscorpius rotundicauda</i>					<i>Tachypleus tridentatus</i>
1	M	22° 16.887' N	113° 55.850' E	37.85					
No. of ind.				1					0

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

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

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

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

No.	Sub.	GPS coordinate		Record of prosomal width (mm)															
<u>Sampling site TC3 (Search hour = 3 hrs)</u>				<i>Carcinoscorpius rotundicauda</i>							<i>Tachypleus tridentatus</i>								
1	S	22° 17.017' N	113° 55.639' E	15.34	21.23	30.62	33.61	30.36	29.72	18.24	40.35	53.96	62.22						
				29.58	27.08	20.57	28.33	48.68	26.94	43.57									
				47.62	44.15	21.35													
2	S	22° 17.031' N	113° 55.637' E	65.29	43.63	27.85	29.01	39.90	13.30	28.89	42.17								
3	S	22° 17.066' N	113° 55.646' E	65.65	54.31	50.56	80.27	51.98	43.95	25.25	37.35	35.53	38.30	79.41	88.93	77.01	87.92		
				74.83	28.58	29.11													
4	S	22° 17.052' N	113° 55.629' E	51.37	38.17	33.53	34.66	35.57	31.22	33.51	36.46	38.31	39.53	40.28	39.76	53.87	42.50		
				53.33	48.47						71.79	44.51	37.05	55.53	39.33	41.59	40.96		
											60.72	40.54	40.06	40.29					
5	S	22° 17.071' N	113° 55.616' E	38.54	54.71	37.98					39.10	65.44	38.67	38.76	65.80	41.85	39.79		
											34.76	44.79	36.84	56.04	40.07				
6	S	22° 17.098' N	113° 55.584' E	35.01	28.90	68.20					39.88	41.90	57.11	39.87					
7	S	22° 16.968' N	113° 55.686' E	26.03	27.49														
8	S	22° 16.958' N	113° 55.704' E	27.04	27.67	29.25													

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

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

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

No.	Sub.	GPS coordinate		Record of prosomal width (mm)									
<u>Sampling site TC3 (Search hour = 3 hrs)</u>				<i>Carcinoscorpius rotundicauda</i>						<i>Tachypleus tridentatus</i>			
9	S	22° 16.955' N	113° 55.719' E	21.45	21.88	27.4	21.89	19.58	24.04	26.45			
				25.79	20.57	25.15							
10	S	22° 16.939' N	113° 55.733' E	32.16									
11	S	22° 17.001' N	113° 55.651' E	25.86	30.09	28.78					37.99	38.00	37.99
12	S	22° 17.028' N	113° 55.659' E	27.33	56.02								
13	M	22° 16.962' N	113° 55.670' E	28.43	28.72								
No. of ind.				72						48			

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

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

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

No.	Sub.	GPS coordinate		Record of prosomal width (mm)												
Sampling site ST	(Search hour = 3 hrs)			<i>Carcinoscorpius rotundicauda</i>						<i>Tachypleus tridentatus</i>						
1	M	22° 17.105' N	113° 55.563' E	36.71	36.92	49.95	51.81	38.26		36.99	44.57					
2	M	22° 17.124' N	113° 55.536' E	36.49						36.56						
3	M	22° 17.149' N	113° 55.518' E	60.86	47.97	64.49	45.09	59.87		51.82	39.75	56.52	38.24	50.49	52.15	52.77
										52.64	36.82	44.57	41.10	49.95	49.19	
4	S	22° 17.185' N	113° 55.505' E	38.78	45.93	68.55	61.70	78.00	69.74	57.25	64.36	56.23	51.43	62.14	36.13	
				66.51	71.57	37.74	54.93									
5	S	22° 17.210' N	113° 55.509' E	65.29	68.90	34.57	75.47	44.22	52.29	53.47	50.86					
6	S	22° 17.197' N	113° 55.476' E	34.18	35.47	56.57	65.07									
7	S	22° 17.382' N	113° 55.464' E								49.46					
8	S	22° 17.389' N	113° 55.460' E	41.61							29.61	39.32	55.14			
9	S	22° 17.376' N	113° 55.470' E								38.49					
10	S	22° 17.383' N	113° 55.466' E								54.44					
11	S	22° 17.377' N	113° 55.484' E	52.01												
12	S	22° 17.292' N	113° 55.503' E	<u>160.47</u>												
13	S	22° 17.239' N	113° 55.495' E	20.86	19.87	21.21	36.70									
No. of ind.				40						28						

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

Underlined: size of mating pair (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 area (m²)	Estimated coverage (%)	GPS coordinate	Remark
TC1 (search hour = 2 hrs)			
No record			
TC2 (search hour = 2 hrs)			
No record			
TC3 (search hour = 3 hrs)			
No record			
ST (search hour = 3 hrs)			
No record			

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

Kingdom	Phylum	Class	Order	Family	Species
Animalia	Annelida	Clitellata			Marine oligochaete spp.
Animalia	Annelida	Polychaeta	Eunicida	Onuphidae	Onuphidae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Nereididae	Nereididae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae spp.
Animalia	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae spp.
Animalia	Annelida	Polychaeta		Maldanidae	Maldanidae spp.
Animalia	Arthropoda	Malacostraca	Decapoda	Alpheidae	<i>Alpheus brevicristatus</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Diogenidae	<i>Clibanarius</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Diogenidae	<i>Diogenes</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	<i>Metopograpsus latifrons</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Leucosiidae	<i>Philyra carinata</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Macrophthalmus erato</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Uca borealis</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Uca lactea</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Uca</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Paguridae	<i>Pagurus dubius</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Sesarmidae	<i>Nanosesarma minutum</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus penicillatus</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Etisus laevimanus</i>
Animalia	Arthropoda	Maxillopoda	Sessilia	Balanidae	<i>Balanus amphitrite</i>
Animalia	Chordata	Actinopterygii	Perciformes	Blenniidae	<i>Omobranchus fasciolatoceps</i>
Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	<i>Periophthalmus cantonensis</i>
Animalia	Cnidaria	Anthozoa	Actiniaria	Diadumenidae	<i>Diadumene lineata</i>
Animalia	Echinodermata	Holothuroidea			Sea cucumber spp.
Animalia	Echiura				Echiura spp.
Animalia	Mollusca	Bivalvia	Anomalodesmata	Laternulidae	<i>Laternula anatina</i>
Animalia	Mollusca	Bivalvia	Arcoida	Arcidae	<i>Barbatia virescens</i>
Animalia	Mollusca	Bivalvia	Euheterodonta	Hiatellidae	<i>Hiatella arctica</i>
Animalia	Mollusca	Bivalvia	Mytiloida	Mytilidae	<i>Xenostrobus atratus</i>
Animalia	Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Crassostrea ariakensis</i>
Animalia	Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Saccostrea cucullata</i>
Animalia	Mollusca	Bivalvia	Veneroida	Corbiculidae	<i>Geloina erosa</i>
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	<i>Circe</i> sp.

Annex IV (Cont'd). Taxonomic resolution of every recorded species of intertidal soft shore community survey

Kingdom	Phylum	Class	Order	Family	Species
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	<i>Cyclina sinesis</i>
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	<i>Marcia japonica</i>
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	<i>Ruditapes philippinarum</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	<i>Batillaria bornii</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	<i>Batillaria multiformis</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	<i>Batillaria zonalis</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	<i>Cerithidea cingulata</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	<i>Cerithidea djadjariensis</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	<i>Cerithidea rhizophorarum</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	<i>Terebralia sulcata</i>
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	<i>Clithon faba</i>
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	<i>Clithon oualaniensis</i>
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	<i>Nerita polita</i>
Animalia	Mollusca	Gastropoda	Littorinimorpha	Littorinidae	<i>Littoraria articulata</i>
Animalia	Mollusca	Gastropoda	Littorinimorpha	Rissoinidae	<i>Rissoina plicatula</i>
Animalia	Mollusca	Gastropoda	Neogastropoda	Muricidae	<i>Thais luteostoma</i>
Animalia	Mollusca	Gastropoda	Neogastropoda	Nassariidae	<i>Nassarius festivus</i>
Animalia	Mollusca	Gastropoda	Neogastropoda	Nassariidae	<i>Nassarius hepaticus</i>
Animalia	Mollusca	Gastropoda	Neogastropoda	Nassariidae	<i>Nassarius</i> sp.
Animalia	Mollusca	Gastropoda	Systemmatophora	Onchidiidae	<i>Onchidium</i> sp.
Animalia	Mollusca	Gastropoda		Lottiidae	<i>Nipponacmea concinna</i>
Animalia	Mollusca	Gastropoda		Lottiidae	<i>Patelloida pygmaea</i>
Animalia	Mollusca	Gastropoda		Nacellidae	<i>Cellana grata</i>
Animalia	Mollusca	Gastropoda		Nacellidae	<i>Cellana toreuma</i>
Animalia	Mollusca	Gastropoda		Trochidae	<i>Euchelus scaber</i>
Animalia	Mollusca	Gastropoda		Trochidae	<i>Monodonta labio</i>
Animalia	Mollusca	Gastropoda		Turbinidae	<i>Lunella coronata</i>
Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae	<i>Lepidozona</i> sp.
Animalia	Mollusca	Scaphopoda	Dentaliida	Dentaliidae	<i>Dentalium sinuosum</i>
Animalia	Nemertea				Nemertea spp.
Animalia	Sipuncula	Sipunculidea	Golfingiida	Sipunculidae	<i>Sipunculus nudus</i>

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

Jun 2017 Sampling zone TC 1 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Bi	<i>Saccostrea cucullata</i>			3				2				7		3		1						16
Bi	<i>Xenostrobus atratus</i>											2										2
C	<i>Hemigrapsus penicillatus</i>													2								2
C	<i>Nanosesarma minutum</i>	7				2				1				2		1					1	14
C	<i>Uca lactea</i>																	3		2		5
G	<i>Batillaria multiformis</i>	4		1		9		12		68		254		354		121		12		8		843
G	<i>Cerithidea cingulata</i>	3		81				51		14						6						155
G	<i>Cerithidea djadjariensis</i>	16		28				70		42				18		31				6		211
G	<i>Cerithidea rhizophorarum</i>											1				1						2
G	<i>Clithon faba</i>			2								1		2		4						9
G	<i>Clithon oualaniensis</i>													4		7						11
G	<i>Littoraria articulata</i>	2								3		3		2		2		1				13
G	<i>Lunella coronata</i>							2														2
G	<i>Monodonta labio</i>	2		2		20		3		9		1										37
G	<i>Nipponacmea concinna</i>					1																1
G	<i>Onchidium</i> sp.	3																1				4
G	<i>Rissoina plicatula</i>											1		2		12						15
G	<i>Terebralia sulcata</i>	1																1				2
Ne	Nemertea spp.					1				1												2

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

Sep 2017 Sampling zone TC 1 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C			
Ol	Marine oligochaete spp.	1																				1
S	<i>Alpheus brevicristatus</i>			1																		1
																					Total	1348

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

Sep 2017 Sampling zone TC 1 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>					2							1								1	4
Bi	<i>Barbatia virescens</i>												1		1		1					3
Bi	<i>Geloina erosa</i>																		1			1
Bi	<i>Hiatella arctica</i>					3		1					3		1							8
Bi	<i>Saccostrea cucullata</i>	13				44		24					39		55		50		15		25	265
Bi	<i>Xenostrobus atratus</i>							1					8		22		5				3	39
C	<i>Nanosesarma minutum</i>					1		1					7		1		3				1	14
C	<i>Uca lactea</i>																		1			1
Cn	<i>Diadumene lineata</i>														1							1
Ec	Sea cucumber spp.												2				1					3
G	<i>Batillaria bornii</i>					1																1
G	<i>Batillaria multiformis</i>	34		2				28					11		42		11		7		13	148
G	<i>Batillaria zonalis</i>			7		2																9
G	<i>Cellana grata</i>																		1			1
G	<i>Cellana toreuma</i>					1		2					2				1					6
G	<i>Cerithidea cingulata</i>	24		58		44		5		6						1		4		4	146	
G	<i>Cerithidea djadjariensis</i>	42		31		41		57		25			15		1				34		27	273
G	<i>Cerithidea rhizophorarum</i>												1								3	4
G	<i>Clithon faba</i>																		1		2	3

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

Sep 2017 Sampling zone TC 1 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Clithon oualaniensis</i>																		1			1
G	<i>Lepidozona</i> sp.											2										2
G	<i>Littoraria articulata</i>	2						1				4		1		6					3	17
G	<i>Lunella coronata</i>	1		1		3		3													3	11
G	<i>Monodonta labio</i>	18		10		18		16				52		24		47			12		5	202
G	<i>Nerita polita</i>																		1			1
G	<i>Nipponacmea concinna</i>											1				1						2
G	<i>Patelloida pygmaea</i>					3																3
G	<i>Rissoina plicatula</i>																		1			1
Ne	Nemertea spp.					2		1														3
P	Maldanidae spp.										4											4
P	Nereididae spp.													1								1
Sp	<i>Sipunculus nudus</i>			1		1										1						3
																					Total	1181

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

Sep 2017 Sampling zone TC 1 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>	5		41		11		13				60		41		18		59		40		288
Bi	<i>Barbatia virescens</i>	10		7		8		45								11		33		14		128
Bi	<i>Hiatella arctica</i>	4												1				1		3		9
Bi	<i>Ruditapes philippinarum</i>													2								2
Bi	<i>Saccostrea cucullata</i>	23		63		76		153				3		9		57		31		26		441
Bi	<i>Xenostrobus atratus</i>	11		5		39		7				1		6		18		13		46		146
C	<i>Etisus laevimanus</i>																			1		1
C	<i>Hemigrapsus penicillatus</i>															2						2
C	<i>Nanosesarma minutum</i>	17		3		8		5				2				8		12		12		67
Cn	<i>Diadumene lineata</i>													1		2		1		1		5
G	<i>Batillaria bornii</i>			1										5								6
G	<i>Batillaria multiformis</i>	5		1	3	1				2				1								13
G	<i>Batillaria zonalis</i>			6	1	34	1	4		53		5	1	2		8						115
G	<i>Cellana toreuma</i>	1						5										4		1		11
G	<i>Cerithidea cingulata</i>	1		2	2																	5
G	<i>Cerithidea djadjariensis</i>	5		7								1										13
G	<i>Clithon faba</i>																	1				1
G	<i>Euchelus scaber</i>			3		1												2		7		13
G	<i>Lepidozona</i> sp.																	1		2		3

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

Sep 2017 Sampling zone TC 1 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Littoraria articulata</i>																		1			1
G	<i>Lunella coronata</i>	2		11		6		12				1		3		5		11		8		59
G	<i>Monodonta labio</i>	68		8		2		13						4		9		11		10		125
G	<i>Nassarius festivus</i>													1								1
G	<i>Nassarius</i> sp.										1											1
G	<i>Nerita polita</i>	2		1		1		2														6
G	<i>Nipponacmea concinna</i>	4												1				4				9
G	<i>Patelloida pygmaea</i>	3																				3
G	<i>Thais luteostoma</i>																			1		1
Hc	<i>Clibanarius</i> sp.													1				1				2
Hc	<i>Pagurus dubius</i>											1										1
P	Maldanidae spp.				1						1		1									3
P	Nereididae spp.				1																	1
P	Onuphidae spp.										1		1									2
Sp	<i>Sipunculus nudus</i>	5		7																1		13
																					Total	1497

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

Sep 2017 Sampling zone TC 2 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>	1				8		5				5		8								27
Bi	<i>Barbatia virescens</i>					1																1
Bi	<i>Geloina erosa</i>																1					1
Bi	<i>Hiatella arctica</i>					1		1														2
Bi	<i>Saccostrea cucullata</i>	2				94		37						7		1						141
Bi	<i>Xenostrobus atratus</i>					5																5
C	<i>Hemigrapsus penicillatus</i>	5																				5
C	<i>Uca borealis</i>											7		4		4		2		1		18
C	<i>Uca lactea</i>			5														1				6
G	<i>Batillaria multiformis</i>	8				1				1	1	1	1	1	1	3		2		4		24
G	<i>Batillaria zonalis</i>							2		2		1		10	1	4		3	4	18	5	50
G	<i>Cerithidea cingulata</i>		1	7		2		11		62	2	25	1	26	1	30	3	24	7	15	6	223
G	<i>Cerithidea djadjariensis</i>	12	2	51		22		70		111	7	46	6	27	3	26	4	14	10	17	1	429
G	<i>Cerithidea rhizophorarum</i>	6		7		1		4		10	1											29
G	<i>Littoraria articulata</i>					1		2														3
G	<i>Lunella coronata</i>					4												1		1		6
G	<i>Monodonta labio</i>	41				26		1		1				1				1				71
G	<i>Nassarius festivus</i>																			1		1
G	<i>Nerita polita</i>					1																1

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

Sep 2017 Sampling zone TC 2 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total	
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C		
G	<i>Patelloida pygmaea</i>					2																2	
G	<i>Terebralia sulcata</i>					1																1	
Hc	<i>Clibanarius</i> sp.					4																4	
Hc	<i>Pagurus dubius</i>					6																6	
P	Ampharetidae spp.										3				1							1	5
P	Maldanidae spp.										1											1	2
Sp	<i>Sipunculus nudus</i>					1		1														2	
																					Total	1065	

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

Sep 2017 Sampling zone TC 2 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>					1		6		4		6				2				2		21
Bi	<i>Barbatia virescens</i>	1								1		1										3
Bi	<i>Hiatella arctica</i>							3		3										3		9
Bi	<i>Ruditapes philippinarum</i>																			1		1
Bi	<i>Saccostrea cucullata</i>	31				2		40		36		8		4		5		6		20		152
Bi	<i>Xenostrobus atratus</i>	10								4						2				1		17
C	<i>Nanosesarma minutum</i>	1						5		1		3				1				2		13
C	<i>Uca borealis</i>	10		4												3		2				19
G	<i>Batillaria bornii</i>							1														1
G	<i>Batillaria multiformis</i>	1		2		3					1			1						5		13
G	<i>Batillaria zonalis</i>			7		14					11	36		23		6	1	13	2	43	1	157
G	<i>Cellana toreuma</i>									1						1						2
G	<i>Cerithidea cingulata</i>	1		5		8		10		10				6				27		11	1	79
G	<i>Cerithidea djadjariensis</i>			8		40		25		17		8		22	2	1		61	1	21	1	207
G	<i>Cerithidea rhizophorarum</i>					2				2				3				7		1		15
G	<i>Lepidozona</i> sp.									2												2
G	<i>Littoraria articulata</i>	1																				1
G	<i>Lunella coronata</i>							5		2	1	2				2				3	1	16
G	<i>Monodonta labio</i>	7						12		35						2				3		59

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

Sep 2017 Sampling zone TC 2 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Nassarius festivus</i>											1		2				1				4
G	<i>Nerita polita</i>							1		1												2
G	<i>Patelloida pygmaea</i>	2						11		1						3				1		18
P	Ampharetidae spp.						1						2						1			4
P	Maldanidae spp.						4						1		1				2			8
P	Onuphidae spp.												1									1
Sp	<i>Sipunculus nudus</i>	1																				1
																					Total	825

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

Sep 2017 Sampling zone TC 2 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>	4		7										4		7		2		3		27
Bi	<i>Barbatia virescens</i>	1												2								3
Bi	<i>Hiatella arctica</i>	4												1		2		4				11
Bi	<i>Laternula anatina</i>																		1			1
Bi	<i>Marcia japonica</i>																			1		1
Bi	<i>Saccostrea cucullata</i>	67		27						1				27		20		11		1		154
Bi	<i>Xenostrobus atratus</i>	19														6						25
C	<i>Hemigrapsus penicillatus</i>															1						1
C	<i>Nanosesarma minutum</i>													3		1		1				5
C	<i>Uca borealis</i>									1								1				2
Cn	<i>Diadumene lineata</i>	1																				1
F	<i>Periophthalmus cantonensis</i>					1																1
G	<i>Batillaria bornii</i>													1								1
G	<i>Batillaria multiformis</i>	1						1						1		1						4
G	<i>Batillaria zonalis</i>			1	1	11		6		1		4		6		24		19	2	27	2	104
G	<i>Cerithidea cingulata</i>				1			1				4		9		6						21
G	<i>Cerithidea djadjariensis</i>	1			1			3				35		14		19		1		3	3	80
G	<i>Cerithidea rhizophorarum</i>															2						2
G	<i>Euchelus scaber</i>													4		1		1				6

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

Sep 2017 Sampling zone TC 2 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Lepidozona</i> sp.	1												1								2
G	<i>Lunella coronata</i>	4		2		2								4		4			3			19
G	<i>Monodonta labio</i>	8		7										3		1						19
G	<i>Nassarius festivus</i>															1						1
G	<i>Nerita polita</i>	1												1					1			3
G	<i>Nipponacmea concinna</i>															1						1
G	<i>Patelloida pygmaea</i>	2		3										4		2			1			12
G	<i>Thais luteostoma</i>																		2			2
P	Maldanidae spp.						2		4	2				3								11
P	Onuphidae spp.						1							1								2
Sp	<i>Sipunculus nudus</i>	1		1															1			3
																					Total	525

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

Sep 2017 Sampling zone TC 3 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Bi	<i>Circe</i> sp.		4										1				3					8
Bi	<i>Cyclina sinesis</i>																			1		1
Bi	<i>Geloina erosa</i>													2								2
Bi	<i>Saccostrea cucullata</i>			2		5																7
C	<i>Uca lactea</i>											3		18				3		4		28
G	<i>Batillaria multiformis</i>			3		39	5	17		100		1								10	7	182
G	<i>Batillaria zonalis</i>			1																		1
G	<i>Cerithidea cingulata</i>	43		78		47		58		70	1	22		26		11	1	14	2	32	2	407
G	<i>Cerithidea djadjariensis</i>	98		121		74		122		69	1	92		116		46		88		85		912
G	<i>Cerithidea rhizophorarum</i>	4		2								1		4						4		15
G	<i>Clithon faba</i>	1																				1
G	<i>Clithon oualaniensis</i>	1							1		2											4
G	<i>Monodonta labio</i>															1						1
P	Ampharetidae spp.																		1		1	2
P	Maldanidae spp.												1						1			2
P	Nereididae spp.		1																			1
																					Total	1574

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

Sep 2017 Sampling zone TC 3 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>															2		1				3
Bi	<i>Barbatia virescens</i>																		2			2
Bi	<i>Saccostrea cucullata</i>					2										46		8		11		67
Bi	<i>Xenostrobus atratus</i>															1		1		2		4
C	<i>Macrophthalmus erato</i>															1						1
C	<i>Nanosesarma minutum</i>																		1			1
C	<i>Uca lactea</i>	9		14		24		16						8		7		8				86
C	<i>Uca sp.</i>				1			1														2
G	<i>Batillaria multiformis</i>	3		1		3		1	2	4		2				2		2		32		52
G	<i>Batillaria zonalis</i>	2		1		1		4		5	1	6	1	1					1			23
G	<i>Cerithidea cingulata</i>	81		45		35		23	1	20		19		7		17		50		25		323
G	<i>Cerithidea djadjariensis</i>	97		66		80		80		69	1	31		42		76		74		25		641
G	<i>Cerithidea rhizophorarum</i>	6				3				5		1		2		2						19
G	<i>Clithon faba</i>			1																		1
G	<i>Clithon oualaniensis</i>									3												3
G	<i>Lunella coronata</i>																	1		2		3
G	<i>Monodonta labio</i>																			13		13
G	<i>Nassarius hepaticus</i>								1													1
G	<i>Nipponacmea concinna</i>															1		1		2		4

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

Sep 2017 Sampling zone TC 3 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Hc	<i>Diogenes</i> sp.											1										1
P	Maldanidae spp.							2		5			8									15
Sp	<i>Sipunculus nudus</i>																1					1
																					Total	1266

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

Sep 2017 Sampling zone TC 3 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>													2						4		6
Bi	<i>Barbatia virescens</i>											1				2		5				8
Bi	<i>Hiatella arctica</i>			1														4		3		8
Bi	<i>Saccostrea cucullata</i>	49		58		26		66		50		12		40		34		51		22		408
Bi	<i>Xenostrobus atratus</i>													4				8		12		24
C	<i>Etisus laevimanus</i>	1																				1
C	<i>Hemigrapsus penicillatus</i>									1		1		1				2				5
C	<i>Metopograpsus latifrons</i>			1																		1
C	<i>Nanosesarma minutum</i>	1																		3		4
C	<i>Uca lactea</i>					1																1
Cn	<i>Diadumene lineata</i>															1						1
Eh	<i>Echiura</i> spp.											2						1				3
G	<i>Batillaria bornii</i>																			1		1
G	<i>Batillaria multiformis</i>	1				1						2						1				5
G	<i>Batillaria zonalis</i>							8														8
G	<i>Cellana grata</i>											10		4		1						15
G	<i>Cellana toreuma</i>					1																1
G	<i>Cerithidea cingulata</i>	6						5												41		52
G	<i>Cerithidea djadjariensis</i>	2						4		3										11		20

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

Sep 2017 Sampling zone TC 3 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Cerithidea rhizophorarum</i>	1						4										1				6
G	<i>Littoraria articulata</i>					1											2		1			4
G	<i>Lunella coronata</i>	7		1				4		1		2		2		1		12		5		35
G	<i>Monodonta labio</i>	52		17				4		3		38		54		59		61		26		314
G	<i>Nerita polita</i>											5		1				2				8
G	<i>Nipponacmea concinna</i>											2		4		2		11		2		21
G	<i>Patelloida pygmaea</i>															1				2		3
P	Maldanidae spp.									2						1						3
P	Nereididae spp.																	1				1
P	Polynoidae spp.			1												1						2
Sp	<i>Sipunculus nudus</i>									2								9				11
																					Total	980

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

Sep 2017 Sampling zone ST High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Bi	<i>Geloina erosa</i>									1												1
Bi	<i>Hiatella arctica</i>									2								1		3		6
Bi	<i>Ruditapes philippinarum</i>			1																		1
Bi	<i>Saccostrea cucullata</i>	5		3		7		5		19		5		3		6		8		27		88
Bi	<i>Xenostrobus atratus</i>									1								1				2
C	<i>Nanosesarma minutum</i>	3		1						1								1				6
C	<i>Philyra carinata</i>																			1		1
Cn	<i>Diadumene lineata</i>																	1		1		2
G	<i>Batillaria bornii</i>			1				1		1		2		2		1		1		1		10
G	<i>Batillaria multiformis</i>	11		2		2		8		21		2		33		32		15		15		141
G	<i>Cellana grata</i>																	4		6		10
G	<i>Cellana toreuma</i>					1				2		6								1		10
G	<i>Cerithidea cingulata</i>									2		3		21		30				1		57
G	<i>Cerithidea djadjariensis</i>									5		4		9		19		6				43
G	<i>Cerithidea rhizophorarum</i>											2		12		8		1				23
G	<i>Clithon faba</i>			2		5						1		3		2		1		1		15
G	<i>Clithon oualaniensis</i>			1		2		4										1				8
G	<i>Euchelus scaber</i>											1						1				2
G	<i>Lepidozona sp.</i>									3		1										4

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

Sep 2017 Sampling zone ST High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Lunella coronata</i>			1		1				4		13		3		1		2		9		34
G	<i>Monodonta labio</i>	16		10		26		1		21		16		2		1		15		7		115
G	<i>Nerita polita</i>					2		2		2								2				8
G	<i>Nipponacmea concinna</i>																			2		2
G	<i>Patelloida pygmaea</i>											1										1
Hc	<i>Pagurus dubius</i>			1																		1
Ne	Nemertea spp.																	1				1
																				Total	592	

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

Sep 2017 Sampling zone ST Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Bi	<i>Barbatia virescens</i>							2		3			1		2		14					22
Bi	<i>Hiatella arctica</i>	3						2		1			3				7				2	18
Bi	<i>Saccostrea cucullata</i>	32		9		46		17		14			37		21		59		13		45	293
Bi	<i>Xenostrobus atratus</i>	6		1				3		1			1									12
C	<i>Hemigrapsus penicillatus</i>																2				1	3
C	<i>Nanosesarma minutum</i>	4		1						1			11		2							19
C	<i>Philyra carinata</i>	1								1												2
Cn	<i>Diadumene lineata</i>					1																1
G	<i>Batillaria bornii</i>			1						1			1		2							5
G	<i>Batillaria multiformis</i>	1		4				1					5				1					12
G	<i>Batillaria zonalis</i>	2		1		4																7
G	<i>Cellana grata</i>					2		1									6				6	15
G	<i>Cellana toreuma</i>	5		5						3			4		2						2	21
G	<i>Cerithidea cingulata</i>	6		1				17		7			8		5		2		7		1	54
G	<i>Cerithidea djadjariensis</i>	16		12		20		27		4			4		2		4		9		5	103
G	<i>Cerithidea rhizophorarum</i>			4		1		1							1						2	9
G	<i>Clithon faba</i>			1																		1
G	<i>Euchelus scaber</i>					1		1		4												6
G	<i>Lunella coronata</i>	11		9		12		5		17			14		12		24		5		7	116

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

Sep 2017 Sampling zone ST Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Monodonta labio</i>	12		4		3		5		25		32		21		35		4		16		157
G	<i>Nerita polita</i>									4		1								2		7
G	<i>Nipponacmea concinna</i>							1								3				3		7
Hc	<i>Pagurus dubius</i>									1												1
Ne	Nemertea spp.																		1			1
Sp	<i>Sipunculus nudus</i>																			2		2
																					Total	894

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

Sep 2017 Sampling zone ST Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>					14						1		15					32			62
Bi	<i>Barbatia virescens</i>	1												9								10
Bi	<i>Circe</i> sp.						1								1					1		3
Bi	<i>Crassostrea ariakensis</i>													1								1
Bi	<i>Hiatella arctica</i>	1		1															1			3
Bi	<i>Ruditapes philippinarum</i>			1																		1
Bi	<i>Saccostrea cucullata</i>	3		27										24					15			69
Bi	<i>Xenostrobus atratus</i>	2												6								8
C	<i>Nanosesarma minutum</i>					1								4					3			8
F	<i>Omobranchus fasciolatoceps</i>													2								2
G	<i>Batillaria bornii</i>	3		2																		5
G	<i>Batillaria multiformis</i>						1	3								2						6
G	<i>Batillaria zonalis</i>	3				10	1	15		2						3			1			35
G	<i>Cerithidea cingulata</i>	4		17						1									2		2	26
G	<i>Cerithidea djadjariensis</i>	22		38													1					61
G	<i>Cerithidea rhizophorarum</i>	5		1																		6
G	<i>Dentalium sinuosum</i>								1					1								2
G	<i>Euchelus scaber</i>			7										1								8
G	<i>Lunella coronata</i>	7		11										3		1						22

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

Sep 2017 Sampling zone ST Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Monodonta labio</i>	2		1																		3
G	<i>Nassarius</i> sp.			1																		1
G	<i>Nipponacmea concinna</i>	2																				2
G	<i>Patelloida pygmaea</i>			1																		1
G	<i>Terebralia sulcata</i>									1												1
Hc	<i>Clibanarius</i> sp.	1		1																		2
Hc	<i>Diogenes</i> sp.	1		1																		2
P	Maldanidae spp.														1							1
Sp	<i>Sipunculus nudus</i>													1								1
																					Total	352

Key for faunal groups (Gp):

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



APPENDIX J

Waste Flow Table



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

- Notes:
- (1) The performance target are given in ER Appendix 8J Clause 14
 - (2) The waste flow table shall also include C&D materials that are not specified in the Contract to be imported for use at the Site
 - (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
 - (4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m³.
 - (5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for 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



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

Complaint Register

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

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Complaint Register

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COM-2012-010(3)	15-Nov-2012	-	EPD	Environmental (Noise, water quality & air quality)	The complainant has copied his reply from HyD dated 15 Nov 2012 to EPD and Health Department and he further complained on the following issues: <ul style="list-style-type: none"> Noise nuisance generated by diesel engine; Smell of exhaust pipe gas in his residence; and Suspected marine water pollution (see enclosed photo). The complainant also requested EPD to install noise and air quality monitoring at Le Bleu Deux estate.	WA6 Portion X	Noise from blowing horn from vessels and barges and Metallic Parts thrown on Ground <ul style="list-style-type: none"> Reminded the Contractor to request the captains of the vessels and barges not blowing the horn except in case of emergency or prevention of ship collisions/serious safety matters; The supervision teams would enhance their tight control on the vessels and barges working at that location, and monitor the situation and take corresponding actions; and To enhance the work force of RSS to supervise each step of construction activities and the use of hand tools until the completion of the site office erection. Noise from Engines and Cranes of the Barges during Marine Operation <ul style="list-style-type: none"> Installation of noise covers onto the generators / motors on all working barges; Increase frequency of applying lubricant to all moving parts and gear wheels of the working barges to avoid generation of abnormal sound; and Review of working hours for the reclamation works and switching off all unnecessary machinery and plants at night time and Sundays. Noise from power generators <ul style="list-style-type: none"> All generators shall be either screened or covered by adequate sound reducing materials; All generators situated in front of Le Bleu Deux estate will be switched off at 19:00 hrs, except two generators will be kept running up to 22:00hrs and one generator will be kept running overnight for maintaining minimum power requirement; and Arrangement with CLP Power HK Ltd (CLP) for the permanent power supply to the site offices has been chased in a matter of urgency. The use of power generators will be terminated in phase starting from 6 December 2012. Exhaust Fume Emission <ul style="list-style-type: none"> Tight control on using the machine and generators in the vicinity of Le Bleu Deux estate; and Closely monitor the frequency on engine cleansing and replacement of dust filter. Change of Sea Water in Yellow <ul style="list-style-type: none"> The Contractor was reminded to move their vessels and barges at areas with adequate water depth as practically as possible. 	Closed	-
COM-2012-010(4)	19-Nov-2012	22:25 hrs.	EPD	Environmental (Air quality and Noise)	The complainant filed again a complaint for the strong exhaust pipe fumes smell coming for the construction site in Tung Chung tonight as well as the extremely high level of noise as at 10:30 pm (19/11/12).	WA6			
COM-2012-010(5)	24-Nov-2012	13:42 hrs. 13:49 hrs.	EPD (cc to HyD)	Environmental (Air quality and Noise)	The noise is coming for the following sources: - power generator - engines from the barges used for marine operation - noise from the cranes use of the construction barges. - engine from the boat used to transport staff in and out - boats blowing their horn late in the evening and at night Gas emissions: - power generators - marine operation The complainant file again a complaint against the strong exhaust pipe emission flowing towards le Bleu Deux estate this afternoon 24/11/10 at 13:47. I can assure you that is it not "not that bad" whatever that means for you. And again strong noise of metallic parts being thrown on the ground. <i>I thought you have already sorted out that problem according to your multiple replies to my complaints since July???"</i>	WA6 Portion X			
	25-Nov-2012	22:02 hrs. 22:08 hrs.	EPD (cc to HyD)		A pictures taken this morning (25/11/12) around 9:30am-10am showing the water pollution in different area outside the floating barriers. At 21:56 hrs., boat used by the Highway Department against blew their horn repetitively at close proximity from the residential estate.				
COM-2012-012(1)	13-Nov-2012	22:27 hrs.	HyD	Environmental (Noise)	Once again your site continues to work late. The attached photo was taken at 10.15pm on Tuesday 13 Nov. The machinery used on the barges is very noisy. Why do you continue to work till 10pm and why do you work on a Sunday. Surely this is classified as a construction site for which you are in breach of various ordinances. An early reply is appreciated.	Portion X	The following further mitigation measures during the course of the reclamation works will be taken: <ul style="list-style-type: none"> Installation of noise covers onto the generators / motors on all working barges; Increase frequency of applying lubricant to all moving parts and gear wheels of the working barges to avoid generation of abnormal sound; and Review of working hours for the reclamation works and switching off all unnecessary machinery and plants at nighttime and Sundays. 	Closed	-
COM-2013-015	17-Jan-2013	-	EPD	Environmental (Air)	The complainant raised that construction dust was arising from construction site of China State Construction Engineering (Hong Kong) Ltd near Siu Ho Wan Sewage Treatment Works due to insufficient dust suppression and inadequate wheel washing.	WA3	The Contractor of HY/2011/03 would take the following actions with immediate effect <ul style="list-style-type: none"> To ensure no loosed earth material exposed at the edges of eth stockpiled earth materials i.e. to prevent erosion by wind and water ; To cover the stockpiled earth material by adequate tarpaulin; To enhance the frequency of watering (3 times per day) onto existing haul road and other area as appropriate; and To install a water sprinkler system to enhance the existing dust suppression measures once the water point is ready for water supply by WSD. 	Closed	

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Complaint Register

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

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

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

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COM-2014-065	24-Dec-14	Nil	EPD	Environmental (Water Quality)	A complaint was received on 24 December 2014 regarding the increase of marine refuse (water bottles and debris) along the shore from Yat Tung to Tai O, where the complainant considered might be in relation to the HZMB project(s).	Portion X	Based on the investigation results, it is considered that the complaint is unlikely related to HKLR03 Contract. Nevertheless, the Contractor is reminded to implement all recommended mitigation measures for waste management and avoid dumping rubbish into the sea.	Closed	-
COM-2015-066	08-Apr-15	Nil	EPD (An email forwarded by Arup)	Environmental (Dust)	According to Arup's email to CSCE on 8 April 2015, the ET was informed that a complaint had been received by EPD at about 18:29 hrs on 2 Apr 2015 regarding construction dust from construction site (S15) at Kwo Lo Wan Road, Tung Chung."	S15	Based on the Contractor's information and our investigation, no non-compliance was identified. The Contractor is reminded to continuously implement the dust suppression measures to minimize potential dust impact.	Closed	-
COM-2015-068	10-Apr-15	Nil	EPD (An email forwarded by Arup)	Environmental (Noise)	According to Arup's email to CSCE on 10 April 2015, it is noted that EPD received a noise complaint from a resident of Caribbean Coast. According to the complainant, he was disturbed by noise from construction activities of the HZMB Project during weekends and holidays. The complainant was referring to those activities carried out between Scenic Hill and HKBCF because the complainant mentioned the contractor was China State.	N/A	Based on the information provided and our investigation, the Contractor had complied with the conditions laid down in Construction Noise Permit (CNP) Nos. GW-RS0113-15 and GW-RS0356-15. Hence, no non-compliance was identified. The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours and recommended to implement the following measures to minimize the potential noise impact during restricted hours: minimize the quantities of plant used during restricted hours as far as practicable; and regular review of working duration for restricted hours works and switch off all unnecessary machinery and plant during restricted hours.	Closed	-
COM-2015-074	16-Jul-15	Nil	EPD	Environmental (Wastewater)	According to EPD's email to Highways Department, ET, SOR and ENPO, a complaint was received on 16 July 2015 regarding wastewater splashing from vehicles to pedestrian at Tung Fai Road. The complainant complained that wastewater was splashed to people waiting at the bus stop near Civil Aviation Department Headquarters Office Building when vehicles leaving the HZMB site to Tung Fai Road.	Tung Fai Road	Based on the investigation results, it is considered that the complaint is unlikely related to HKLR03 Contract. The Contractor has been reminded to slow down their vehicles when leaving the concerned construction site.	Closed	-
COM-2015-076	17-Jul-15	Nil	EPD (An email forwarded by ENPO)	Environmental (Noise)	According to EPD's email to ENPO on 17 July 2015, it is noted that EPD received a noise complaint from public. The complainant said that he/she was disturbed by the noise generated from construction sites of the HZMB Project during the daytime period of past few Sundays. Afterwards, EPD contacted the complainant and confirmed that the noise was generated from construction sites along Kwo Lo Wan Road and signs of "China State Construction Engineering (HK) Ltd" were noted.	Kwo Lo Wan Road	Based on the information provided and our investigation, the Contractor complied with the conditions laid down in Construction Noise Permit (CNP) Nos. GW-RS0733-15 and GW-RS0740-15 and no non-compliance was found. The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours and recommended to implement the following measures to minimize the potential noise impact during restricted hours: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plant during restricted hours.	Closed	-
COM-2015-079	07-Dec-15	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Water Quality)	According to ENPO's email to SOR and ET on 7 December 2015, a complaint was received by EPD on 2 December 2015 regarding water quality near HKLR work site. The complainant mentioned that "I moved to Tung Chung since July and it was the second time I saw similar situation polluting the sea. Last time it was even worse in red colour. Please look into this matter and let me know what was being dropped into the sea and whether it was hazardous to the sea.". EPD has contacted the complainant and obtained the additional information from the complainant. EPD suspected that the incident happened in the afternoon on 28 November 2015.	Portion X	According to the information provided by the Contractor, the derrick barge belongs to Contract No. HY/2011/03. The concerned sediment plume was likely to be caused by stirring up of mud in the seabed by the derrick barge sailed at the navigation channel situated at shallow water zone where the water depth ranging from 3.25m – 3.75m. Public fill materials were placed on the derrick barge. The barge was in good conditions with no materials being dumped into the sea. The Contractor has been implementing the mitigation measure as specified in the Implementation Schedule of Environmental Mitigation Measures that is all vessels to be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash. The Contractor is recommended to arrange vessels to move out of the site area during high tide to avoid the disturbance to the seabed as far as practicable and deploy marine vessels effectively in order to minimize the number of trips and disturbance to seabed in shallow waters.	Closed	-
COM-2016-087	28-Jun-16	Nil	EPD	Environmental (Water Quality)	According to EPD's email, a complaint was received on 28 June 2016 regarding polluted water discharge incident opposite to Tung Chung Development Pier.	N/A	The Contractor has designated competent persons to operate, check and maintain individual wastewater treatment plant as an existing control measures. In case of breakdown of wastewater treatment plants, no discharge of wastewater will be allowed until repair is completed to resume the normal operation of the treatment plant. Specific toolbox / refreshment training trainings have been providing for the staff and workers for each of the wastewater treatment plants. The Contractor has been reminded to implement the above control measures and ensure no untreated wastewater will be discharged into open channel.	Closed	-
COM-2016-098	11-Nov-16	16:33	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Water Quality)	According to ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 11 November 2016, it is noted that EPD received a complaint lodged by a member of the public regarding sediment plume generated by a vessel named "長盛308 (Chang Sheng 308)" during the vessel travelling from construction site of Hong Kong- Zhuhai- Macao Bridge near Scenic Hill to Tung Chung New Development Ferry Pier.	Portion X	The Contractor has been reminded to schedule the vessel to move in / out of the construction site during higher tide and minimize number of trips to avoid the stirring up of the seabed mud when the vessel travelling in very shallow water areas as much as practicable. Also, the Contractor was reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule (EMIS).	Closed	-

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Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
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Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2016-099	02-Dec-16	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Other: Slurry on public road)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 2 December 2016 that EPD received a complaint lodged by a member of the public regarding slurry on East Coast Road. The complainant considered the slurry might relate to the construction site of China Harbour Engineering Company Limited next to a hotel.	East Coast Road	During the weekly site inspection undertaken on 7 December 2016, no slurry was observed at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03. The Contractor has constructed wheel washing facilities at all the site accesses, including the one near the site access of China Harbour Engineering Company Limited next to the Marriott Hotel (which is believed to be the hotel mentioned by the complainant), to wash and clean all vehicles before allowing them to leave the construction site to ensure that no mud or other debris would be brought to the public area. In addition, regular watering is conducted by water truck at least twice per day at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03 to minimize dust emission. Based on the investigation results, it is considered that the complaint unlikely related to Contract No. HY/2011/03. Notwithstanding that, the Contractor has been reminded to clean wheels and body of vehicles as usual before allowing them to leave construction site.	Closed	-
COM-2016-100	14-Dec-16	Nil	ENPO (Contract No. HY/2010/02 project team received an environmental complaint referred by Government's hotline (1823) on 2 December 2016. ENPO forwarded the Complaint to Contract No. HY/2011/03.)	Environmental (Other: mud/ debris on public road)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 14 December 2016 that EPD received a complaint lodged by a member of the public regarding mud/debris on public road. The complainant complained that "the whole stretch of East Coast Road & Tung Fai Road is truly disgusting. The stone debris big and small and the mud is a nuisance to those who use the road every day. When dry there is a lot of dust and when it rains or when the road washing trucks are out it becomes a muddy mess. Cars and pedestrians are covered in dust or mud, cars are hit by stones is a daily hazard. Washing of construction vehicles is inadequate as the sand and soil is carried out onto the roads. Oversight of road conditions are not carried out by the Airport Authority. An alternative route should be created for the large number of construction vehicles as they drive fast."	East Coast Road and Tung Fai Road	During the ET's inspection on 7 December 2016 (weekly routine inspection) and 16 December 2016, no mud or debris was observed at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03 as well as the section of Tung Fai Road leading to the site access of Contract No. HY/2011/03. The Contractor provided wheel washing facilities at all the site accesses, including the one accessing East Coast Road and the one accessing Tung Fai Road, to wash and clean all vehicles before allowing them to leave the construction site to ensure that no mud or debris would be brought to the public area. It was observed that the areas of the wheel washing facilities and the respective road section between the wheel washing facilities and the site accesses of East Coast Road and of Tung Fai Road were paved with concrete. High pressure jets were also provided at the wheel washing facilities for cleaning of vehicles before the vehicles were allowed to leave the construction site. In addition, regular watering at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03 was conducted by water trucks at least twice per day to minimize dust emission. Based on our investigation result, it is considered that the complaint is unlikely related to Contract No. HY/2011/03. Notwithstanding that, the Contractor has been reminded to clean the wheels and body of vehicles as usual before allowing them to leave construction site.	Closed	-
COM-2016-103	14-Dec-16	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Noise)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 14 December 2016 that EPD received a noise complaint lodged by a member of public. The complaint was about hammering noise generated from construction sites at midnight in the past month. The complainant could not identify the source but suspected that the noise was generated from HZMB Project. It was also noted from ENPO's email on 21 December 2016 that EPD supplemented that the complainant lives in Seaview Crescent. The complainant sometimes heard noise created by impacting metals or metal/ground, particularly in December 2016.	N/A	The Contractor confirmed that no hammering works was conducted and no impact noise was generated at midnight in November 2016 and December 2016. The Contractor complied with the conditions laid down CNP No. GW-RS740-16 and no non-compliance was found. Based on our investigation result, it is considered that the complaint is unlikely related to Contract No. HY/2011/03. In this case, no follow up action is required. However, the Contractor has been reminded to comply with the conditions stipulated in the Construction Noise Permit for construction works undertaken during restricted hours and has been recommended to implement the following measures to minimize the potential noise impact during restricted hours: - minimize the number of machinery and plant used during restricted hours as far as practicable; - regularly review the working duration for restricted hours works; and - switch off all unnecessary machinery and plant during restricted hours.	Closed	-
COM-2017-104	09-Jan-17	Nil	IEC (EPD referred the email from Complainant to IEC)	Environmental (Other: Cleanliness problem at East Coast Road and Tung Fai Road)	It was noted from IEC's email to the Environmental Team, Supervising Officer's Representative and Contractor on 9 January 2017 that EPD received a complaint lodged by a member of the public (a bus operator at the HKIA) regarding cleanliness problem at East Coast Road and Tung Fai Road.	East Coast Road and Tung Fai Road	During the ET's inspection on 10 January 2017, it was observed that the Contractor provided wheel washing facilities at all the site accesses, including the one accessing East Coast Road and the one accessing Tung Fai Road, to wash and clean all vehicles before allowing them to leave the construction site to ensure that no mud or debris would be brought to the public area. No mud was observed at the section of Tung Fai Road leading to the site access of Contract No. HY/2011/03. However, some mud was observed at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03. Based on our investigation result, although there is no direct evidence showing that the complaint is related to Contract No. HY/2011/03, the Contractor has been reminded to clean the wheels and body of vehicles as usual before allowing them to leave construction site. Road sweeper will be employed to sweep along the East Coast Road twice per week and remove the deposited mud underneath the water-filled barrier to facilitate the road-washing water to be drained away from the carriageway. It should be of note that the ground level of site boundary of HY/2011/03 adjoining the East Coast Road is lower than that of East Coast Road and the Site of HY/2011/03 receives unidirectional flow of surface runoff from the East Coast Road. In addition, the following measures will be implemented to enhance dust suppression: 1. Stockpile along East Coast Road will be reduced in height and compacted as far as practicable 2. Haul road will be demarcated to prevent vehicles from going into non-wetted surface. 3. Site access S16 will be thoroughly cleaned and all vehicles will be stopped for second washing after being washed in the wheel washing bay. 4. Water sprinklers will be installed and operated at the stockpiles behind the water-filled barriers along East Coast Road.	Closed	-
COM-2017-108	23 February 2017 and 2 March 2017	Nil	Airport Authority Hong Kong (AAHK) via SOR / Referred to ENPO by HyD	Environmental (Air quality, Water quality and Other: Cleanliness problem at East Coast Road)	AAHK stated in their email to SOR on 23 February 2017 that there was sand/muddy water accumulating along the water barriers at East Coast Road Southbound. AAHK also lodged a complaint to HyD, which HyD referred to ENPO on 1 March 2017 (received by ET on 2 March 2017). AAHK reported that the cleanliness of East Coast Road remained unsatisfactory with dust all over the water barriers/traffic aids, and sands accumulating along the carriageway.	East Coast Road	During ET's observation on 3 and 13 March 2017, properly functioning wheel washing facilities were provided to wash all vehicles prior to leaving the site. The section of road between the wheel washing facilities and the site access (S25) was hard paved and no mud/silt was observed at the concerned road section and the site access. As the ground level of site boundary of HY/2011/03 adjoining the East Coast Road is lower than that of East Coast Road, the possibility of muddy water seepage from S25 to East Coast Road is low. Based on our investigation result, the complaint is unlikely to be related to Contract No. HY/2011/03. Nevertheless, the Contractor has been reminded to strictly upkeep the proper practice of washing all vehicles leaving the site access (S25). Also, the Contractor has raised the majority of the temporary traffic signs to a higher level to avoid muddy water splashing on them. Also, the temporary traffic signs will be cleaned regularly.	Closed	-

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Complaint Register

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

HyD Contract No.HY/2011/03
 Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
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Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2016-095(4)	15-Aug-17	Nil	HyD	Environmental (Noise)	HyD received a complaint concerning the rock breaking works near CNAC Buildings, as described below: "I am writing to let you know re-captioned works interrupted seriously our staff daily office works. Understand the rock encountered was much stronger than the original expected, the rock breaking works near CNAC Tower has been never ending. Recently a bulldozer is working nearby and no noise barriers/sound proofs were set up. Please take corrective action asap. Kindly advise us when this bulldozing work is scheduled to complete."	Near Dragonair / CNAC (Group) Building (HKIA)	<p>The major rock breaking works near CNAC Tower were substantially completed on 31 May 2017. However, survey record revealed that minor rock breaking/trimming work was required at the formation level for the construction of box culvert no. PR14. Hence, the Contractor used a hydraulic breaker for minor rock breaking/trimming work in the afternoon on 15 August 2017. According to the photos provided by the complainant, movable noise barriers were not located near the noise source (rock breaking/trimming work). As such, noise generated by rock breaking/ trimming work was not efficiently screened by the noise barriers. According to the Contractor's records and the photos provided by the complainant, no bulldozer was used at PR14 on 15 August 2017. In addition, no bulldozing work is scheduled at PR14 in near future.</p> <p>ET conducted an investigation on 16 August 2017. The minor rock breaking/ rock trimming work was completed. Only one excavator was operating for forming the haul road at the concerned location. No significant noisy activity was observed during the investigation on 16 August 2017. Also, bulldozer was not observed on the site.</p> <p>Based on our investigation result, it was likely that concerned noise emission was due to the minor rock breaking/ trimming works by the hydraulic breaker. It is considered that the complaint is likely related to Contract No. HY/2011/03. According to Contractor's information, no substantial rock breaking works will be conducted at near CNAC Tower. Only minor rock breaking/ trimming work may be occasionally conducted at the concerned work area. The Contractor has been recommended to implement the following measures to minimize the potential noise impact when minor rock breaking/ trimming work to be conducted:</p> <ul style="list-style-type: none"> - Schedule noisy work (i.e. rock breaking) during non-office hours as far as practicable subject to actual site progress; - Cover the breaker tip with acoustic material; - Locate noise barriers as close as possible to the noise source. Also, gaps and openings at joints in the barriers material should be minimized; - Regular review of working duration and switch off all unnecessary machinery and plant; - Speed up of construction works in order to shorten the duration noise impact/nuisance to the surrounding; and - Minimize the quantities of noisy plant as far as practicable. 	Closed	-
COM-2017-102	03-Oct-17	Nil	1823 Integrated Call Centre received a complaint lodged by a member of the public on 30 September 2017. SOR referred the complaint details from 1823 - HyD to ET on 3 Oct 2017	Environmental (Other: Cleanliness problem at Tung Fai Road)	1823 Integrated Call Centre received a complaint lodged by a member of the public regarding cleanliness problem at Tung Fai Road, as described below: "投訴大嶼山赤繩角東聯路11號港龍大廈對出，巴士站附近，是港珠澳大橋地盤其中一個出入口，經常有大量重型工程車輛進出地盤。每逢有巴士或重型車輛經過時，路面沙塵揚起引起"沙塵暴"，等候巴士的乘客便遭殃。以前有灑水車噴水減低沙塵，現在灑水車都沒有出現。要求部門改善沙塵問題。"	S16	Complaint is under investigation	Complaint is under investigation	



APPENDIX L

Environmental Licenses and Permits





Summary of Environmental Licences and Permits Application and Status

Environmental Permit

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

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

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

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

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

Billing Account for Disposal of Construction Waste

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

Chemical Waste Producer Registration

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



Wastewater Discharge License

Item No.	Date Application Submitted	Area Applied	Status	Expiry Date
1	22.06.2012	Site Office for Supervising Officer (WA6)	Application Ref. No. 346651 Letter from the EPD (Ref: EP/RS/0000346267) dated 19.07.2012 confirming that license under WPCO is not required.	N/A
2	04.07.2012	Site Office for China States (WA6)	Application Ref. No. 346982 Water Discharge License WT00014182-2012 was granted on 20 Sep 2012 Renewal of water discharge license is in progress. Application Ref No. 419562	Valid until 30/09/2017
3.	15.01.2013	WA 3	Application Ref No.356237 Water Discharge License Ref. WT00015423-2013 was granted on 4 Mar 2013	Valid until 31/03/2018
4.	15.01.2013	WA 4	Application Ref No. 356240 Water Discharge License Ref. WT00016158-2013 was granted on 30 Jul 2013	Valid until 31/07/2018
5	02.04.2013	Airport Road (Southern)	Water discharge license Ref. WT00015866-2013 was granted on 29 Apr 2013	Valid until 30/04/2018
6	26.10.2015	Airport Road (Northern)	Water discharge license Ref. WT00023165-2015 was granted on 21 Dec 2015	Valid until 30/04/2018
7	10.03.2017	WA7	Application Ref. No. 414487 Water Discharge License Ref. WT00015865-2013 was granted on 13 Jun 2017	Valid until 30/6/2022



Construction Noise Permit

Item No.	Date Application Submitted	Works Area Applied	Description	Status	CNP No.	Validity of CNP	
						From	To
1.	04.07.2017	SHT & HAT	Percussive Piling	CNP issued on 18.07.2017	PP-RS0014-17	24.07.2017 0700	20.01.2018 1900
2.	20.04.2017	Reclamation Area	Marine Works	CNP issued on 08.05.2017	GW-RS0411-17	10.05.2017 1900	02.11.2017 2400
3.	05.04.2017	Airport Road	Road Works	CNP issued on 19.04.2017	GW-RS0361-17	01.05.2017 0000	30.10.2017 0700
4.	24.02.2017	Shaft 4	Tunnel Works	CNP issued on 10.03.2017	GW-RS0186-17 (Superseded by Item No. 5)	14.03.2017 2400	13.09.2017 1900
5.	06.09.2017	Shaft 4	Tunnel works	CNP issued on 20.09.2017	GW-RS0807-17	22.09.2017 1900	19.03.2018 2400
6.	10.03.2017	WA4	Loading/Unloading of stockpiles	CNP issued on 24.03.2017	GW-RW0149-17 (Superseded by item No. 7)	30.03.2017 0000	29.09.2017 2400
7.	12.09.2017	WA4	Loading/ Unloading of stockpiles	CNP issued on 26.09.2017	GW-RW0507-17	30.09.2017 0000	29.03.2018 2400
8.	10.03.2017	WA3	Stockpiling/wastewater treatment	CNP issued on 24.03.2017	GW-RS0270-17 (Superseded by item No. 9)	28.03.2017 0000	27.09.2017 2400



Item No.	Date Application Submitted	Works Area Applied	Description	Status	CNP No.	Validity of CNP	
						From	To
9.	12.09.2017	WA3	Stockpiling/ wastewater treatment	CNP issued on 26.09.2017	GW-RS0833-17	28.09.2017 0000	27.03.2018 2400
10.	20.04.2017	West Portal	Tunnel / Building Works	CNP issued on 08.05.2017	GW-RS0410-17	09.05.2017 0000	08.11.2017 2400
11.	18.04.2017	Shaft 1-3	Tunnel works	CNP issued on 08.05.2017	GW-RS0409-17	10.05.2017 1900	02.11.2017 0700
12.	04.07.2017	Shaft 2-3	Box-Jacking	CNP issued on 18.07.2017	GW-RS0607-17	19.07.2017 0000	18.01.2018 0500
13.	26.06.2017	Airport Road	Maintenance Works (Special Case)	CNP issued on 10.07.2017	GW-RS0581-17	12.07.2017 1900	31.12.2017 0700
14.	18.09.2017	Airport Road	Road Marking (Special Case)	CNP issued on 18.09.2017	GW-RS0832-17	19.09.2017 2300	20.09.2017 0500
15.	22.08.2017	East Coast Road	Cross Road Duct Laying (Special Case)	CNP issued on 05.09.2017	GW-RS0755-17	07.09.2017 2200	21.09.2017 0500
16.	12.09.2017	East Coast Road	Installation of Sign Gantry (Special Case)	CNP issued on 26.09.2017	GW-RS0819-17	28.09.2017 0200	10.10.2017 0600



APPENDIX M

Implementation Schedule of Environmental Mitigation Measures



EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
Air Quality							
S5.5.6.1	A1	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	Partially implemented
S5.5.6.2	A2	2) Proper watering of exposed spoil should be undertaken throughout the construction phase: <ul style="list-style-type: none"> •Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; •Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; •A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones. •The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; •Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; 	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	Partially Implemented
S5.5.6.2	A2	•When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S5.5.6.2	A2	<ul style="list-style-type: none"> •The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; •Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; •Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; •Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; •Any skip hoist for material transport should be totally enclosed by impervious sheeting; •Every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; 	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	Partially implemented
S5.5.6.2	A2	<ul style="list-style-type: none"> • Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; • Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and • Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies. 	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	Control construction dust	Contractor	All construction sites	Construction stage	√
S5.5.6	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period	Contractor	Selected representative dust monitoring station	Construction stage	√
S5.5.71	A6	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant:</p> <ul style="list-style-type: none"> • Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; • All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; • Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; • The materials which may generate airborne dusty emissions should be wetted by water spray system; • All receiving hoppers should be enclosed on three sides up to 3m above unloading point; • All conveyor transfer points should be totally enclosed; • All access and route roads within the premises should be paved and wetted; and • Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body. 	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period	Contractor	Selected representative dust monitoring station	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S5.5.2.7	A7	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</p> <ul style="list-style-type: none"> •All road surface within the barging facilities will be paved; •Dust enclosures will be provided for the loading ramp; •Vehicles will be required to pass through designated wheels wash facilities; and •Continuous water spray at the loading points. 	Control construction dust	Contractor	All construction sites	Construction stage	√
Noise							
S6.4.10	N1	<p>1) Use of good site practices to limit noise emissions by considering the following:</p> <ul style="list-style-type: none"> •only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; •machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; •plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; •silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works •mobile plant should be sited as far away from NSRs as possible and practicable; •material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Control construction airborne noise by means of good site practices	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S6.4.11	N2	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites	Construction stage	√
S6.4.12	N3	3) Install movable noise barriers (typically density @ 14kg/m ²), acoustic mat or full enclosure close to noisy plants including air compressor, generators, saw.	Screen the noisy plant items to be used at all construction sites	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	√
S6.4.13	N4	4) Select .Quiet plants. which comply with the BS 5228 Part 1 or TM standards.	Reduce the noise levels of plant items	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	√
S6.4.14	N5	5) Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	√
	N6	6) Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected representative noise monitoring station	Construction stage	√
Waste Management (Construction waste)							
S8.3.8	WM1	<u>Construction and Demolition Material</u> The following mitigation measures should be implemented in handling the waste: <ul style="list-style-type: none"> •Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; •Carry out on-site sorting; •Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; •Adopt .Selective Demolition. technique to demolish the existing structures and facilities 	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
		<p>with a view to recovering broken concrete effectively for recycling purpose, where possible;</p> <ul style="list-style-type: none"> •Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and •Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005. Environmental Management on Construction Sites. to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. •In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation 					
S8.3.9-S8.3.11	WM2	<p>C&D Waste</p> <ul style="list-style-type: none"> •Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. •The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage. 	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S8.2.12- S8.3.15	WM3	<p>Chemical Waste</p> <ul style="list-style-type: none"> •Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. •Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation.. •The storage area for chemical wastes should be clearly labeled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated. •Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD. 	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S8.3.16	WM4	<p><u>Sewage</u></p> <ul style="list-style-type: none"> • Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state, which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly. 	Proper handling of sewage from worker to avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	√
S8.3.17	WM5	<p><u>General Refuse</u></p> <ul style="list-style-type: none"> • General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. • A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. • Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible. • Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided. • Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. 	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	Partially implemented

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
Water quality (Construction Phase)							
S9.11.1-S9.11.1.2	W1	<ul style="list-style-type: none"> Mitigation during the marine works to reduce impacts to within acceptable levels have been recommended and will comprise a series of measures that restrict the method and sequencing of filling work, as well as protection measures. Details of the measures are provided below and summarised in the Environmental Mitigation Implementation Schedule in EM&A Manual. Construction of seawalls to be advanced by at least 100-200m before the filling can commence. It should be noted that the protection by advanced seawall is a dynamic process depending on the progress of the construction activities. The part of the works where such measures can be undertaken for the majority of the time includes the following locations: <ul style="list-style-type: none"> - TMCLKL northern reclamation; - TMCLKL southern reclamation (after formation of the nips); - Reclamation filling for Portion 1 of HKLR; 	To control construction water quality	Contractor	During seawall filling	Construction stage	√
S9.11.1-S9.11.1.2	W1	<ul style="list-style-type: none"> Single layer silt curtains will be applied around all works; silt curtain shall be fully maintained throughout the works. 	To control construction water quality	Contractor	During seawall filling	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S9.11.1-S9.11.1.2	W1	<ul style="list-style-type: none"> •excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; •all vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; and •the works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site. 	To control construction water quality	Contractor	During seawall filling	Construction stage	√
S9.11.1-S9.11.1.2	W1	<ul style="list-style-type: none"> •Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted; •barges shall have tight fitting seals to their bottom openings to prevent leakage of material; • any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; •loading of barges shall be controlled to prevent splashing of filling materials to the surrounding water. •Barges shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; •adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; •all vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; and •the works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site . 	To control construction water quality	Contractor	During seawall filling	Construction stage	Partially implemented

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
		into the drainage system, and to prevent storm run-off from getting into foul sewers; <ul style="list-style-type: none"> •discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system. 					
S9.14	W3	<ul style="list-style-type: none"> •Implement a water quality monitoring programme 	Control water quality	Contractor	At identified monitoring	During construction	√
Ecology (Construction Phase)							
S10.7	E1	<ul style="list-style-type: none"> •Good site practices to avoid runoff entering woodland habitats in Scenic Hill; •Reinstate works areas in Scenic Hill; •Avoid stream modification in Scenic Hill. 	Avoid potential disturbance on habitat of Romer.s Tree Frog in Scenic Hill	Designer; Contractor	Scenic Hill	During construction	√
S10.7	E2	<ul style="list-style-type: none"> •Install silt curtain during the construction; •Construct seawall prior to reclamation filling where practicable; •Good site practices; •Site runoff control; •Spill response plan. 	Minimise marine water quality impacts	Contractor	Seawall, reclamation area	During construction	√
S10.7	E4	<ul style="list-style-type: none"> •Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater. 	Prevent Sedimentation from Land-based works areas	Contractor	Land-based works areas	During construction	√
S10.7	E5	<ul style="list-style-type: none"> •Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time 	Prevent disturbance to terrestrial fauna and habitats	Contractor	Land-based works areas	During construction	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S10.7	E6	<ul style="list-style-type: none"> •Dolphin Exclusion Zone; •Dolphin watching plan . 	Minimize temporary marine habitat loss impact to dolphins	Contractor	Marine works	During marine works	√
S10.7	E7	<ul style="list-style-type: none"> •Decouple compressors and other equipment on working vessels; • Avoidance of percussive piling; •Marine underwater noise monitoring; •Temporal suspension of drilling bored pile casing in rock during peak dolphin calving season in May and June; •Handling with care for the installation of sheet piling for reclamation site 	Minimize temporary marine habitat loss impact to dolphins	Contractor	Marine works	During marine works	√
S10.7	E8	<ul style="list-style-type: none"> •Control vessel speed; •Skipper training; •Predefined and regular routes for working vessels; avoid Brothers Islands. 	Minimise marine traffic disturbance on dolphins	Contractor	Marine traffic	During marine works	√
S10.10	E9	<ul style="list-style-type: none"> •Dolphin vessel monitoring; • Mudflat ecological monitoring. 	Minimise marine traffic disturbance on dolphins	Contractor	North Lantau and West Lantau	Prior to construction, during construction, and 1 year after operation	√
Ecology (Operation Phase)							
S10.7	E10	<ul style="list-style-type: none"> •Preconstruction dive survey for corals 	Minimise impacts on marine ecology	Contractor	The marine pier sites nearest to intertidal zone and along the shore of the HKLR eclamation site	Prior to marine construction works in these locations	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
Fisheries							
S11.7	F2	<ul style="list-style-type: none"> •Reduce re-suspension of sediments •Good site practices •Spill response plan 	Minimise marine water quality impacts	Contractor	Seawall, reclamation area	During construction	√
S11.7	F3	<ul style="list-style-type: none"> •Install silt-grease trap in the drainage system collecting surface runoff 	Minimise impacts on marine water quality impacts	Designer	Reclamation area	During construction	√
S11.7	F4	<ul style="list-style-type: none"> •Maritime Oil Spill Response Plan (MOSRP); •Contingency plan. 	Minimise impacts on marine water quality impacts	Management	HKLR	During operation stage	√
Landscape & Visual (Detailed Design Phase)							
S14.3.3.1	LV1	<p>General design measures include:</p> <ul style="list-style-type: none"> •Roadside planting and planting along the edge of the reclamation is proposed; •Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting; •Protection measures for the trees to be retained during construction activities; •Optimizing the sizes and spacing of the bridge columns; •Fine-tuning the location of the bridge columns to avoid visually sensitive locations; •Aesthetic design of the bridge form and its structural elements for HKLR, e.g. parapet, soffit, columns, lightings and so on; <p>Considering the decorative urban design elements for HKLR, e.g. decorative road lightings;</p>	Minimise visual & landscape impact	Detailed designer	HKLR	Design stage	.

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
		<ul style="list-style-type: none"> •Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed; •Providing planting area around peripheral of HKLR for tree planting screening effect. 					
S14.3.3.1	LV1	<ul style="list-style-type: none"> •Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline. •Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline. •For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and •reclamation (e.g. subtle colour tone and slim form for viaduct to minimize the bulkiness of the structure and to blend the viaduct better with the background environment, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment (refer to Figure 14.4.3). 	Minimise visual & landscape impact	Detailed designer	HKLR	Design stage	-
Landscape & Visual (Construction Phase)							
S14.3.3.3	LV2	<p>Mitigate both Landscape and Visual Impacts</p> <p>G1. Grass-hydroseed bare soil surface and stock pile areas.</p> <p>G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge or footbridge to screen bridge and traffic.</p> <p>G3. For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and reclamation (e.g. subtle colour tone and slim form for viaduct, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment.</p> <p>G4. Vegetation reinstatement and upgrading to disturbed areas.</p>	Minimise visual & landscape impact	Contractor	HKLR	Construction stage	√

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



APPENDIX N

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



Contract No. HY/2011/03 - Hong Kong- Zhuhai- Macao Bridge
Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities
Notifications of Environmental Quality Limits Exceedances Notification No.: 244s ver 0

Date of Notification: 13 September 2017

Works Inspected: Data collected from water sampling works on 4 September 2017 and the results were issued on 11 September 2017

Monitoring Location: Water Quality Monitoring Station

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

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

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	IS(Mf)6	DA	23.5 and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: (See Note 4) for mid ebb AND CS(Mf)5: 8.22 x 120% = 9.9 for mid flood)	34.4 and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: (See Note 4) for mid ebb AND CS(Mf)5: 8.22 x 130% = 10.7 for mid flood)	See Note 4	25.9

Notes:
 1) DA means depth average.
 2) ***Bold Italic*** means AL exceedances.
 3) ***Bold Italic with underline*** means LL exceedances.
 4) The water quality monitoring on 4 Sep 2017 during mid-ebb tide was cancelled as a Strong Wind Signal No. 3 was hoisted by the Hong Kong Observatory.

Possible reason for Action Level Non-compliance:

On 4 September 2017, an Action Level exceedance of suspended solid was recorded at station IS(Mf)6 during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

1. Removal of surcharge at Zone 1; road and drainage construction at Zones 1 and 2; box culvert construction at Zone 2; seawall construction at Zones 2 and 3; and transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at station IS(Mf)6 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide		Range of Suspended Solid (mg/L) Mid-Flood Tide	
	7.1	to 19	8.5	to 35
IS(Mf)6	7.1	to 19	8.5	to 35

The measured value for mid-flood tide at station IS(Mf)6 was within the range of suspended solid for mid-flood tide during baseline monitoring.

3. There was no marine transportation at Zones 1, 2, and 3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. Also, there was no muddy plume observed at station IS(Mf)6 during sampling exercise.
4. No leakage of turbid water, abnormality or malpractice for the contract works was observed during the sampling exercise.

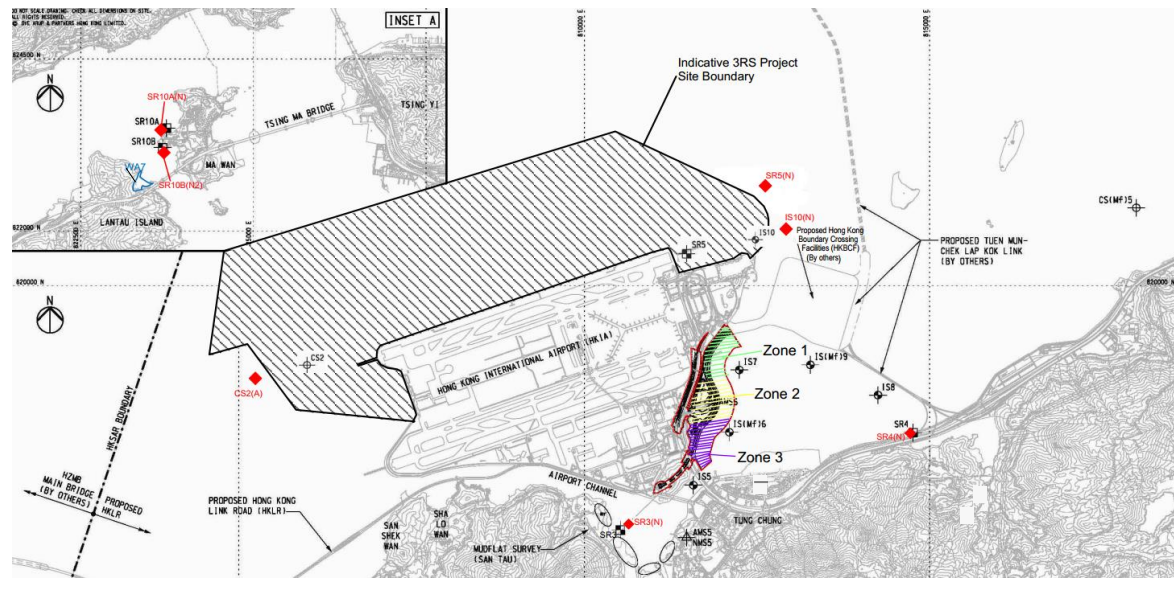
As such, the exceedance of suspended solid level is considered to be attributed to other external factors such as sea condition, rather than the contract works.

Actions taken/ to be taken:

As the suspended solid level recorded beyond the water quality criteria was not related to the contract works, no immediate actions are considered necessary. However, the Contractor is reminded to ensure that the silt curtain is fully maintained

throughout the construction works and construction works are carried out under stringent supervision to prevent any water quality impacts to the seawater.

Location Plan:



Reviewed by : Willie Wong

Title : Deputy ET Leader



Date : 6 October 2017

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

Date of Notification: 20 September 2017

Works Inspected: Data collected from water sampling works on 13 September 2017 and the results were issued on 20 September 2017

Monitoring Location: Water Quality Monitoring Station

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

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

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	SR3(N)	DA	<p>23.5 and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: 6.35 x 120% = 7.6 for mid ebb AND CS(Mf)5: 4.27 x 120% = 5.1 for mid flood)</p>	<p>34.4 and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: 6.35 x 130% = 8.3 for mid ebb AND CS(Mf)5: 4.27 x 130% = 5.6 for mid flood)</p>	6.2	<u>38.7</u>

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

Possible reason for Limit Level Non-compliance:

On 13 September 2017, a Limit Level exceedance of suspended solid was recorded at station SR3(N) during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

1. Removal of surcharge, road and drainage construction at Zone 1; box culvert construction at Zone 2; seawall construction at Zones 2 and 3; and transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at station SR3(N) during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide	Range of Suspended Solid (mg/L) Mid-Flood Tide
SR3(N)	6.7 to 31	7.6 to 28

The measured value for mid-flood tide at station SR3(N) was out of the range of suspended solid for mid-flood tide during baseline monitoring.

3. There was no marine transportation at Zones 1, 2, and 3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. Also, there was no muddy plume observed at station SR3(N) during sampling exercise.
4. No leakage of turbid water, abnormality or malpractice for the contract works was observed during the sampling exercise.

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

Actions taken/ to be taken:

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

Summary of Notifications of Summons and Prosecutions

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



APPENDIX O

Location of Works Areas



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805000 E

810000 E

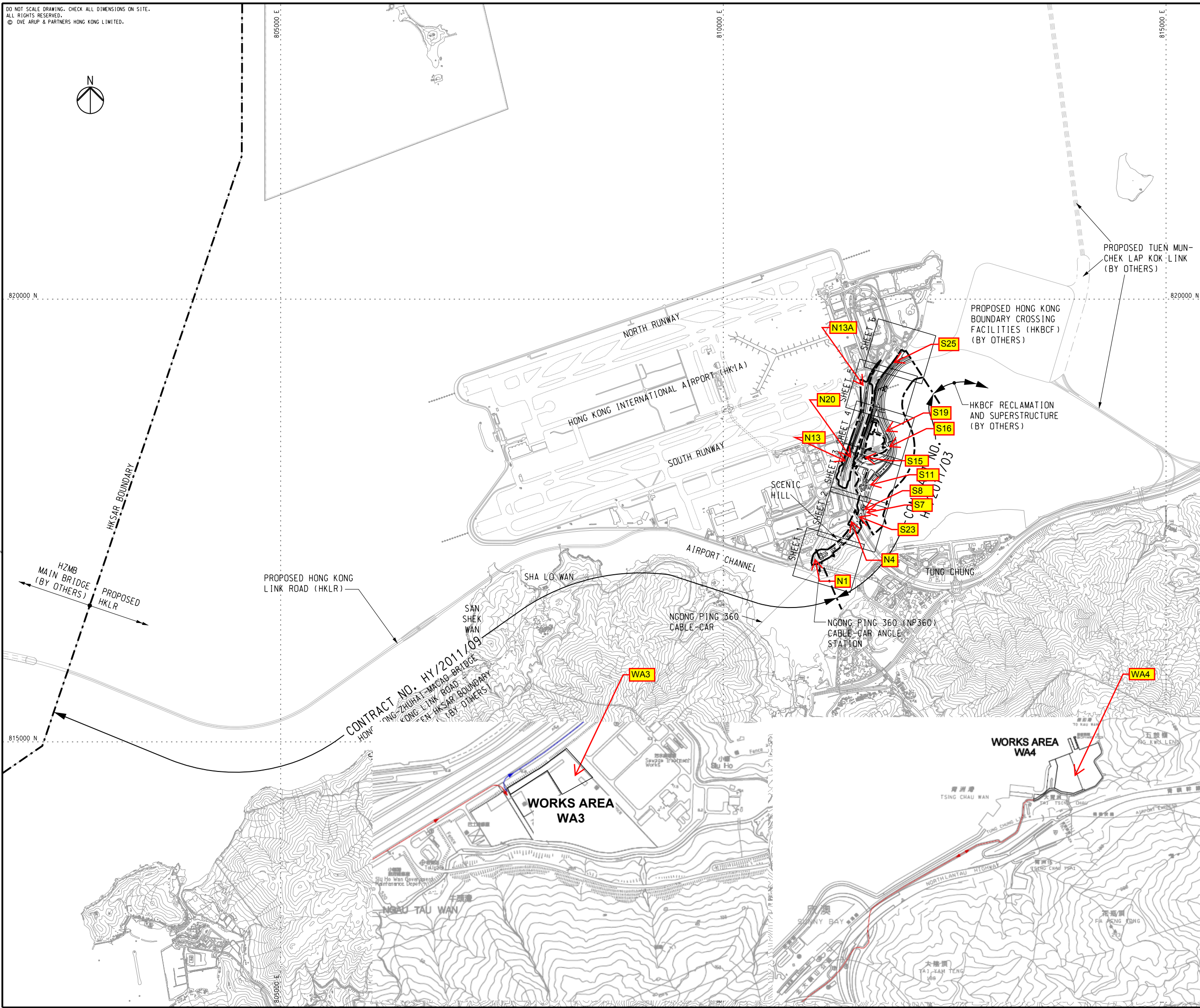
815000 E

820000 N

820000 N

815000 N

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NOTES

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

LEGEND

--- SITE BOUNDARY

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Rev	Description	By	Date

Consultant
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Ove Arup & Partners Hong Kong Limited

Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
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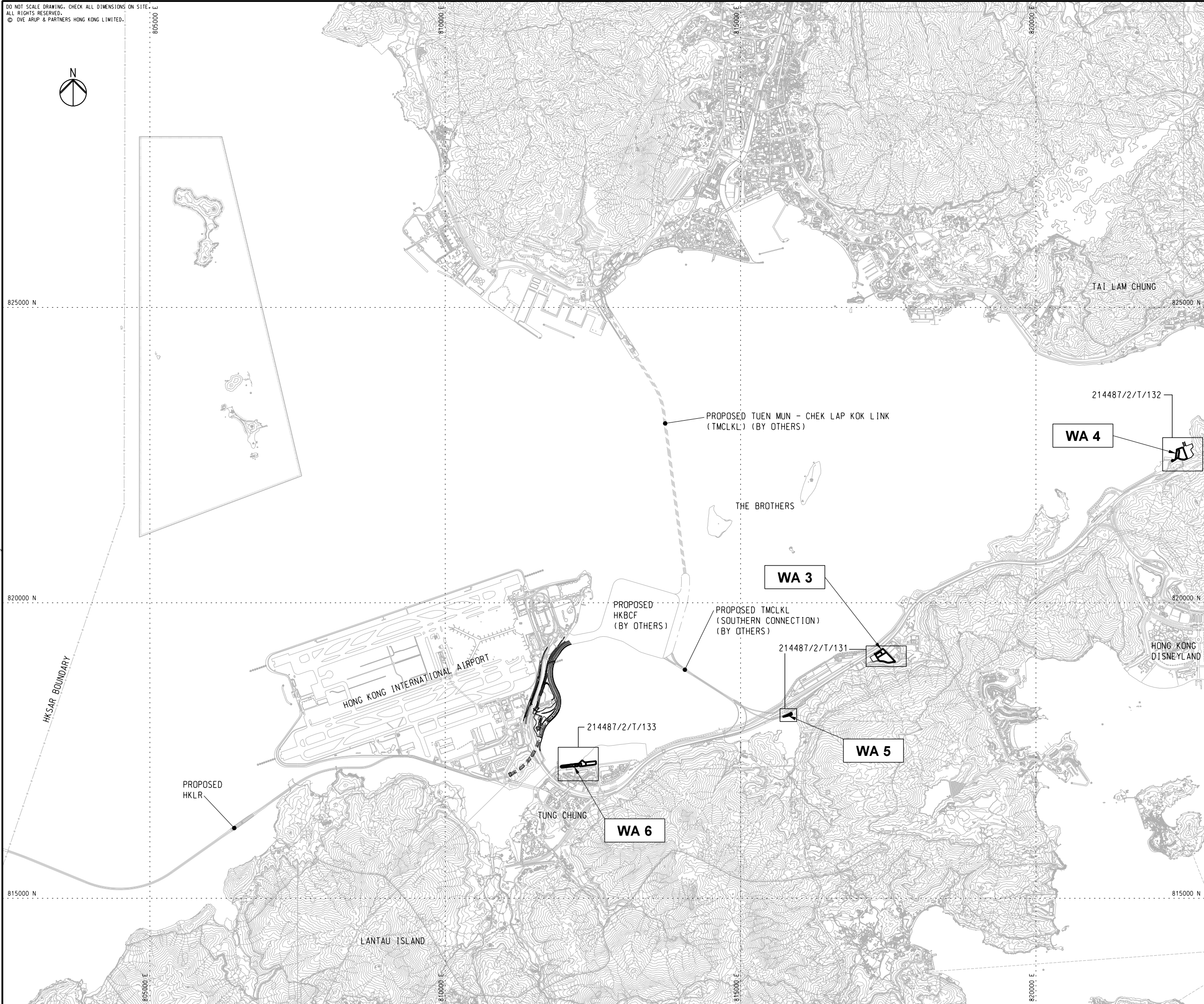
Drawing title
**GENERAL LAYOUT
KEY PLAN**

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Checked	IL	Approved	SK
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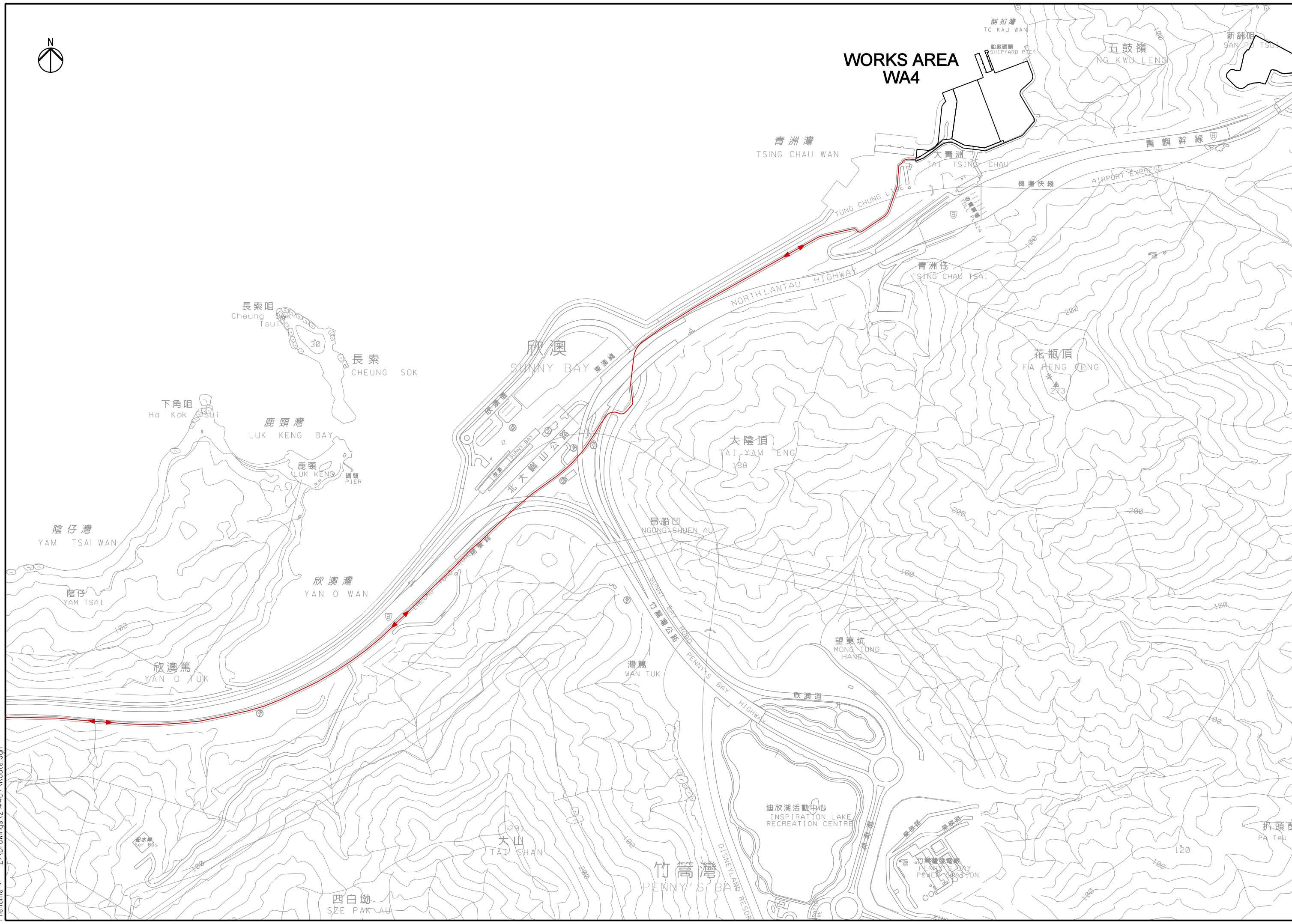
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Rev	Description	By	Date	
Consultant				
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Drawing title				
WORKS AREAS KEY PLAN				
Drawing no.		214487/2/T/130		Rev. A
Drawn	Date	Checked	Approved	
RY	02/12	IL	SK	
Scale	Status		TENDER	
1:30000 @A1				

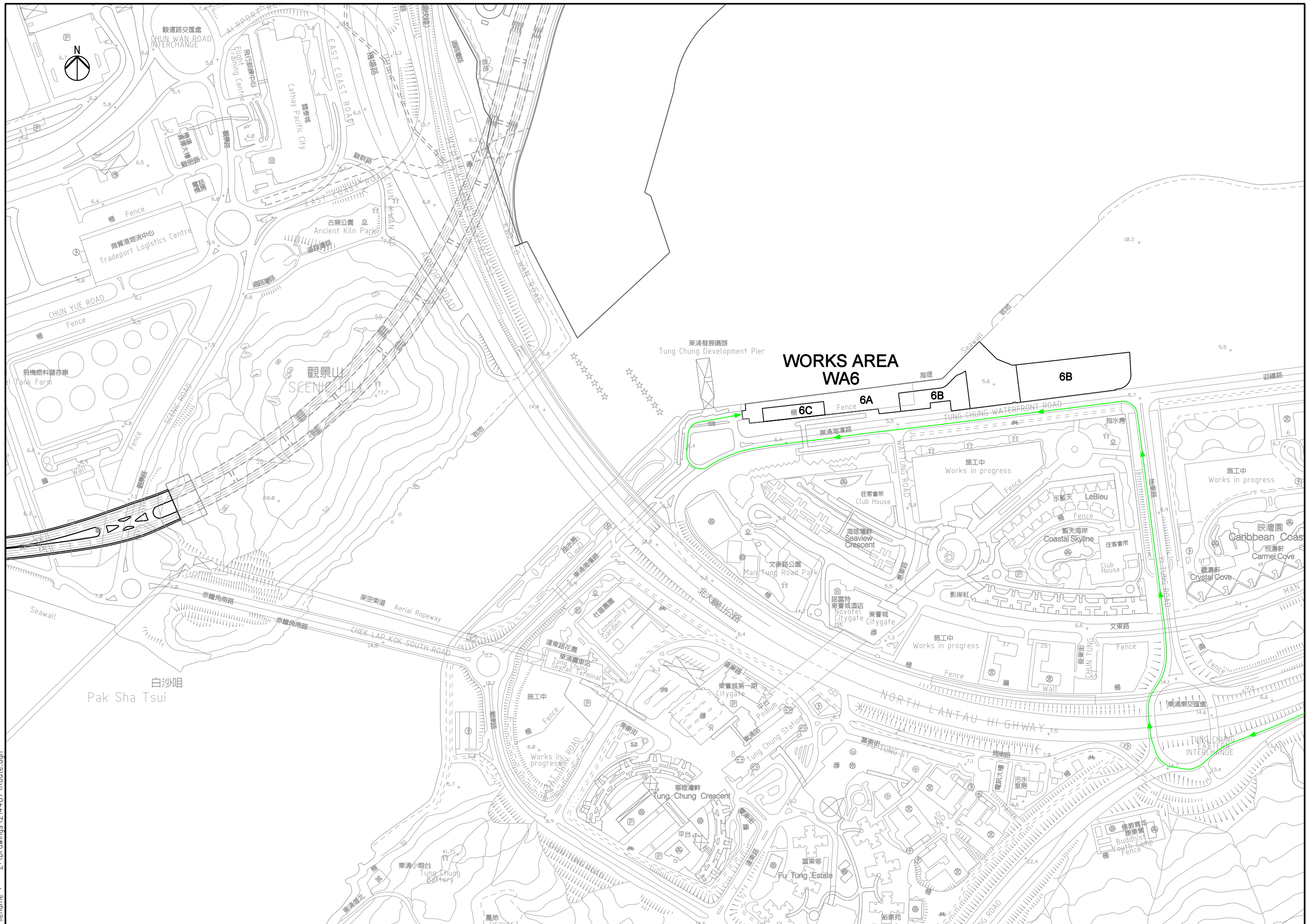
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WORKS AREA WA4





白沙咀
Pak Sha Tsui

WORKS AREA WA6

東涌發展碼頭
Tung Chung Development Pier

6B
6A
6C

TUNG CHUNG WATERFRONT ROAD

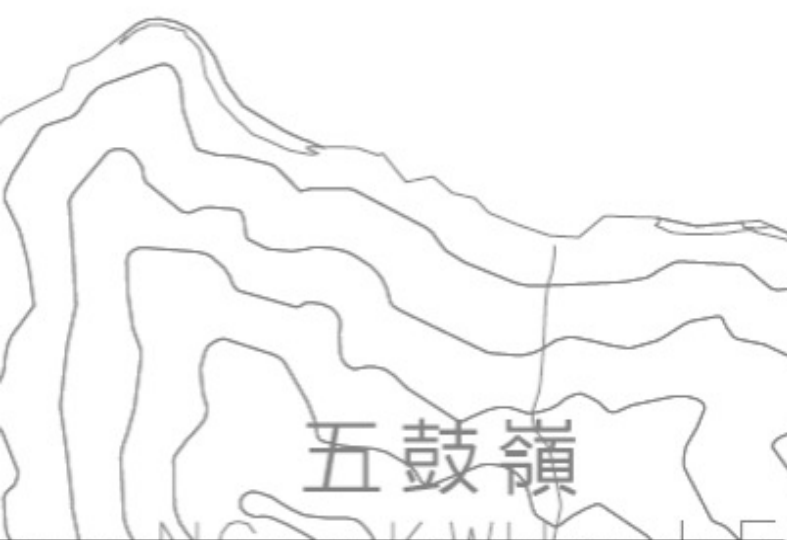
NORTH LANTAU HI GHWAY

TUNG CHUNG EASTERN INTERCHANGE

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

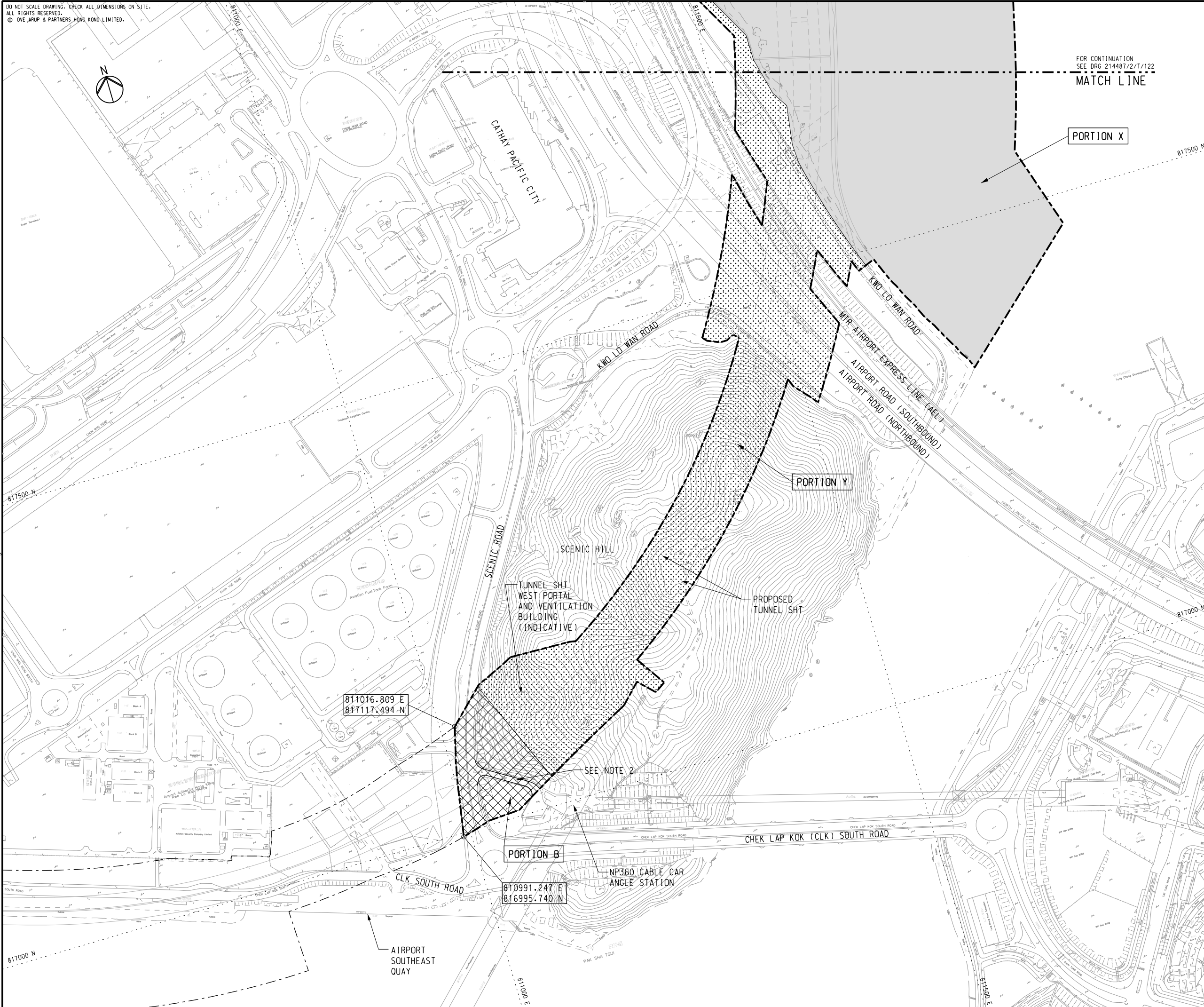


Kwai Shek



PLAN
SCALE 1:4000

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NOTES

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

LEGEND

- SITE BOUNDARY
- PORTION X
- PORTION Y
- PORTION B
- PORTION C
- PORTION D1

FOR CONTINUATION
SEE DRG 214487/2/T/122
MATCH LINE

PORTION X

PORTION Y

PORTION B

811016.809 E
817117.494 N

810991.247 E
816995.740 N

SEE NOTE 2

AIRPORT
SOUTHEAST
QUAY

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Drawing title			
PORTION OF SITE (SHEET 1 OF 3)			
Drawing no.		Rev.	
214487/2/T/121		A	
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HONG KONG INTERNATIONAL AIRPORT
SOUTH RUNWAY

PORTION Y

CIVIL AVIATION DEPARTMENT
(CAD) NEW HEADQUARTERS

FOR CONTINUATION
SEE DRG 214487/2/T/123
MATCH LINE

EXISTING
DRAGONAIR
HEADQUARTERS

EXISTING
CNAC TOWER

PORTION X

MATCH LINE
FOR CONTINUATION
SEE DRG 214487/2/T/121

NOTES

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

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Drawing title
**PORTION OF SITE
(SHEET 2 OF 3)**

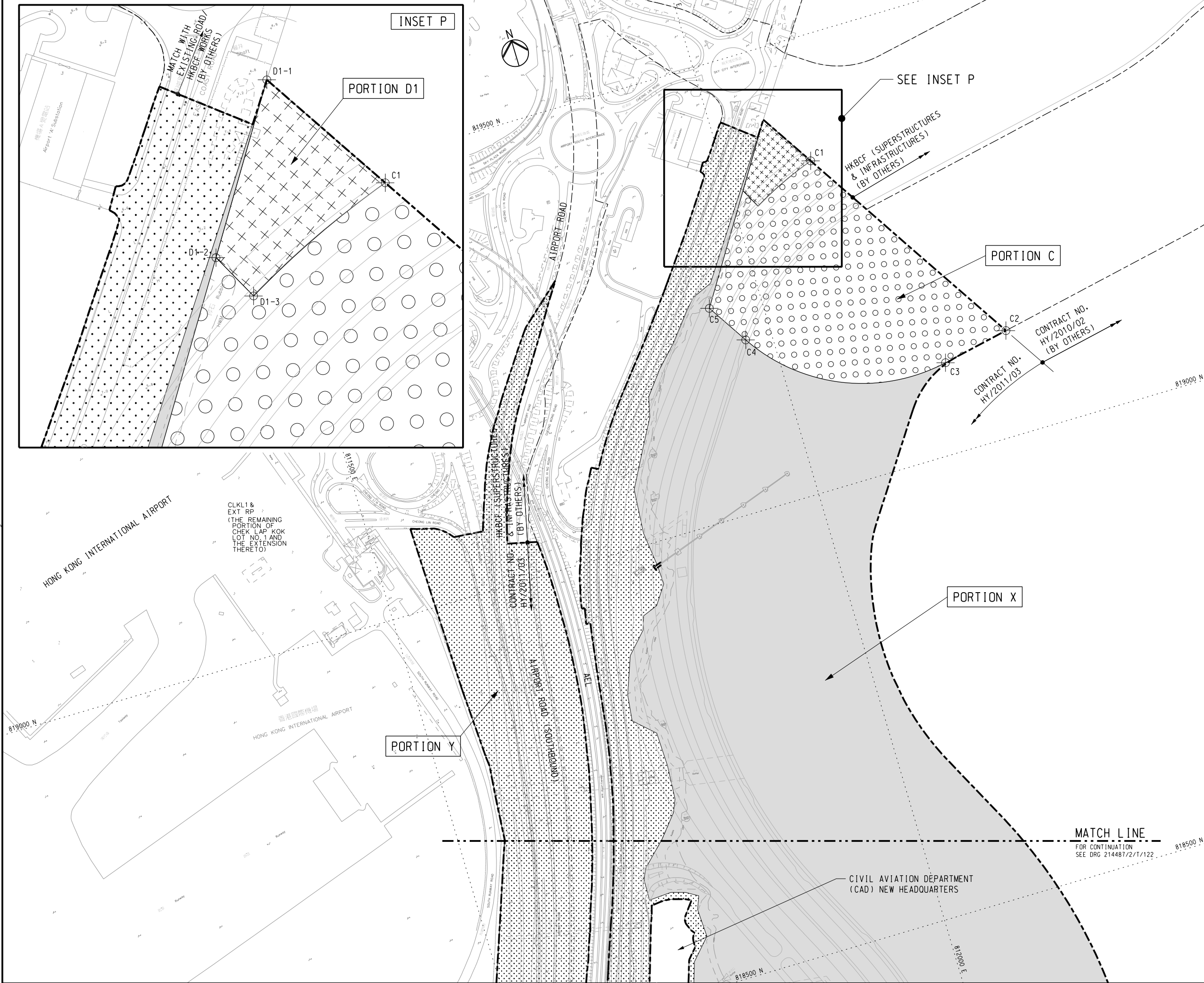
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NOTES

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

SETTING OUT CO-ORDINATES OF SITE PORTION C

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

SETTING OUT CO-ORDINATES OF SITE PORTION D1

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

Rev	Description	By	Date
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Contract No. and Title:
Contract No. HY/2011/03
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Drawing title
**PORTION OF SITE
(SHEET 3 OF 3)**

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