MOTT MACDONALD

Expansion of Hong Kong International Airport into a Three-Runway System

Construction Phase Monthly EM&A Report No.17 (For May 2017)

June 2017

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This Monthly EM&A Report No. 17 has been reviewed and certified by the Environmental Team Leader (ETL) in accordance with Condition 3.5 of Environmental Permit No. EP-489/2014.

Certified by:

Terence Kong
Environmental Team Leader (ETL)
Mott MacDonald Hong Kong Limited

Date 14 June 2017

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By Email

Airport Authority Hong Kong
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Attn: Mr. Lawrence Tsui, Principal Manager

14 June 2017

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No.17 (May 2017)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No.17 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 14 June 2017.

We would like to inform you that we have no adverse comment on the captioned submission. Therefore we write to verify the captioned submission in accordance with the requirement stipulated in Condition 3.5 of EP-489/2014.

Should you have any query, please feel free to contact our Roy Man at 3922 9365 or the undersigned at 3922 9376.

Yours faithfully,
AECOM Asia Co. Ltd.

Jackel Law
Independent Environmental Checker

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Executive Summary

The "Expansion of Hong Kong International Airport into a Three-Runway System" (the Project) serves to meet the future air traffic demands at Hong Kong International Airport (HKIA). On 7 November 2014, the Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-185/2014) for the Project was approved and an Environmental Permit (EP) (Permit No.: EP-489/2014) was issued for the construction and operation of the Project.

Airport Authority Hong Kong (AAHK) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the Updated EM&A Manual (the Manual).

This is the 17th Construction Phase Monthly EM&A Report for the Project which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 31 May 2017.

Key Activities in the Reporting Period

The key activities of the Project carried out in the reporting period included five deep cement mixing (DCM) contracts, two advanced works contracts, and a reclamation contract. The DCM contracts involved DCM works and trials, site office establishment, and laying of geotextile and sand blanket. The advanced works contracts involved cable diversion associated works, and horizontal directional drilling (HDD) works. The reclamation contract involved site office establishment and laying of sand blanket.

EM&A Activities Conducted in the Reporting Period

The monthly EM&A programme was undertaken in accordance with the Manual of the Project. During the reporting period, the ET conducted 36 sets of construction dust measurements, 23 sets of construction noise measurements, 12 events of water quality measurements, two complete sets of small vessel line-transect surveys and five days of land-based theodolite tracking survey effort for Chinese White Dolphin (CWD) monitoring and waste monitoring. Construction works on Sheung Sha Chau Island was suspended during the ardeid's breeding season (between April and July). The ecological monitoring is therefore suspended.

Weekly site inspections of the construction works were carried out by the ET to audit the implementation of proper environmental pollution control and mitigation measures for the Project. Bi-weekly site inspections were also conducted by the Independent Environmental Checker (IEC). Observations have been recorded in the site inspection checklists and provided to the contractors together with the appropriate follow-up actions where necessary.

On the implementation of Marine Mammal Watching Plan (MMWP), silt curtains were in place by the contractors for laying of sand blanket and dolphin observers were deployed in accordance with the plan. On the implementation of Dolphin Exclusion Zone (DEZ) Plan, dolphin observers at 10 to 12 dolphin observation stations were deployed for continuous monitoring of the DEZ by all contractors for DCM and water jetting works for submarine cable diversion in accordance with the DEZ Plan. Trainings for the proposed dolphin observers were provided by the ET prior to the aforementioned works, with the training records kept by the ET. From the contractors' MMWP observation records and DEZ monitoring records, no dolphin or other marine mammals were

observed within or around the silt curtains or the DEZs in this reporting month. Audits of acoustic decoupling for construction vessels were also carried out by the ET.

On the implementation of the Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan), the daily movements of all SkyPier high speed ferries (HSFs) in May 2017 were in the range of 91 to 97 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 864 HSF movements under the SkyPier Plan were recorded in the reporting period. All HSFs had travelled through the Speed Control Zone (SCZ) with average speeds under 15 knots (7.8 to 14.0 knots), which were in compliance with the SkyPier Plan. Four ferry movements with minor deviation from the diverted route are under investigation by ET. The investigation result will be presented in the next monthly EM&A report. In summary, the ET and IEC have audited the HSF movements against the SkyPier Plan and conducted follow up investigation or actions accordingly.

On the implementation of the Marine Travel Routes and Management Plan for Construction and Associated Vessel (MTRMP-CAV), the upgraded Marine Surveillance System (MSS) was launched in March 2017. The MSS automatically recorded the deviation case such as speeding, entering no entry zone, not traveling through the designated gate. ET conducted checking to ensure the MSS records all deviation cases accurately. Training has been provided for the concerned skippers to facilitate them in familiarising with the requirements of the MTRMP-CAV. ET reminded contractors that all vessels shall avoid entering the Brothers Marine Park, which has been designated since 30 December 2016. 3-month rolling programmes for construction vessel activities were also received from contractors.

Results of Impact Monitoring

The monitoring works for construction dust, construction noise, water quality, construction waste and CWD were conducted during the reporting period in accordance with the Manual.

No exceedance of the Action or Limit Levels in relation to construction noise, construction waste and CWD monitoring was recorded in the reporting month.

Three exceedance cases of Limit Level of 1-hour total suspended particulate (TSP) were recorded on 10 May 2017, and the corresponding investigations were conducted accordingly. The investigation findings concluded that the exceedances were likely due to the adverse ambient air quality, but not due to the Project.

The water quality monitoring results for DO, turbidity, total alkalinity, SS, and chromium obtained during the reporting period were in compliance with their corresponding Action and Limit Levels stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme if being exceeded. For nickel, some of the testing results exceeded the relevant Action or Limit Levels, and the corresponding investigations were conducted accordingly. The investigation findings concluded that the exceedances were not due to the Project.

Summary of Upcoming Key Issues

Key activities anticipated in the next reporting period for the Project will include the following:

Advanced Works:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

- HDD works; and
- Stockpiling of excavated materials from HDD operation.

DCM Works:

Contract 3201 to 3205 DCM Works

- Laying of geotextile and sand blanket; and
- DCM works and trials.

Reclamation Works:

Contract 3206 Main Reclamation Works

- Site office establishment; and
- Laying of sand blanket.

The key environmental issues will be associated with construction dust, construction noise, water quality, construction waste management and CWD. The implementation of required mitigation measures by the contractor will be monitored by the ET.

Photo Shoot for Photo Identification of CWD

Skipper Training Conducted by Contractor

Tool Box Talk for Handling Chemical Spillage by Contractor

Summary Table

The following table summarizes the key findings of the EM&A programme during the reporting period from 1 to 31 May 2017:

	Yes	No	Details	Analysis / Recommendation / Remedial Actions
Exceedance of Limit Level^		✓	No exceedance of project-related limit level was recorded.	Nil
Exceedance of Action Level^		✓	No exceedance of project-related action level was recorded.	Nil
Complaints Received	✓		A complaint on exhaust air emissions from construction vessels was received on 9 May 2017.	The complaint investigation was carried out in accordance with the Complaint Management Plan. The investigation detail is presented in S7.8.1.
			A complaint on discharges from construction vessel was received on 22 May 2017.	The case is currently under investigation in accordance with the Complaint Management Plan
Notification of any summons and status of prosecutions		✓	No notifications of summons or prosecution were received.	Nil
Changes that affect the EM&A		✓	There were no changes to the construction works that may affect the EM&A	Nil

Remarks: ^Only exceedance of action/ limit level related to Project works will be highlighted.

1 Introduction

1.1 Background

On 7 November 2014, the Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-185/2014) for the "Expansion of Hong Kong International Airport into a Three-Runway System" (the Project) was approved and an Environmental Permit (EP) (Permit No.: EP-489/2014) was issued for the construction and operation of the Project.

Airport Authority Hong Kong (AAHK) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the Updated EM&A Manual (the Manual) submitted under EP Condition 3.1. The Manual is available on the Project's dedicated website (accessible at: http://env.threerunwaysystem.com/en/index.html). AECOM Asia Company Limited (AECOM) was employed by AAHK as the Independent Environmental Checker (IEC) for the Project.

The Project covers the expansion of the existing airport into a three-runway system (3RS) with key project components comprising land formation of about 650 ha and all associated facilities and infrastructure including taxiways, aprons, aircraft stands, a passenger concourse, an expanded Terminal 2, all related airside and landside works and associated ancillary and supporting facilities. The existing submarine aviation fuel pipelines and submarine power cables also require diversion as part of the works.

Construction of the Project is to proceed in the general order of diversion of the submarine aviation fuel pipelines, diversion of the submarine power cables, land formation, and construction of infrastructure, followed by construction of superstructures.

The updated overall phasing programme of all construction works was presented in Appendix A of the Construction Phase Monthly EM&A Report No. 7 and the contract information was presented in Appendix A of the Construction Phase Monthly EM&A Report No.15.

1.2 Scope of this Report

This is the 17th Construction Phase Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 to 31 May 2017.

1.3 Project Organisation

The Project's organization structure presented in Appendix B of the Construction Phase Monthly EM&A Report No.1 remained unchanged during the reporting month. Contact details of the key personnel have been updated and is presented in **Table 1.1**.

Table 1.1: Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Manager's Representative (Airport Authority Hong Kong)	Principal Manager, Environment	Lawrence Tsui	2183 2734

Party	Position	Name	Telephone
Environmental Team (ET) (Mott MacDonald Hong Kong Limited)	Environmental Team Leader	Terence Kong	2828 5919
	Deputy Environmental Team Leader	Heidi Yu	2828 5704
	Deputy Environmental Team Leader	Keith Chau	2972 1721
Independent Environmental Checker (IEC) (AECOM Asia Company Limited)	Independent Environmental Checker	Jackel Law	3922 9376
	Deputy Independent Environmental Checker	Joanne Tsoi	3922 9423
Advanced Works:			
Contract P560(R) Aviation Fuel Pipeline Diversion Works (Langfang Huayuan Mechanical and Electrical Engineering Co., Ltd.)	Project Manager	Wei Shih	2117 0566
	Environmental Officer	Lyn Lau	5172 6543
Contract 3212 11kV Submarine Cable Diversion	Project Director	Colman Chan	6193 4729
	Environmental Officer	Samantha Kong	3995 8141
DCM Works:			
Contract 3201 DCM (Package 1) (Penta-Ocean-China State-Dong-Ah Joint Venture)	Project Director	Tsugunari Suzuki	9178 9689
	Environmental Officer	Sze Ming Chan	9384 5494
Contract 3202 DCM (Package 2) (Samsung-BuildKing Joint Venture)	Project Manager	Ilkwon Nam	9643 3117
	Environmental Officer	Dickson Mak	9525 8408
Contract 3203 DCM (Package 3) (Sambo E&C Co., Ltd)	Project Manager	Seong Jae Park	9683 8693
	Environmental Officer	Calvin Leung	9203 5820
Contract 3204 DCM (Package 4) (CRBC-SAMBO Joint Venture)	Project Manager	Kyung-Sik Yoo	9683 8697
	Environmental Officer	Kanny Cho	9724 6254

Party	Position	Name	Telephone
Contract 3205 DCM (Package 5) (Bachy Soletanche - Sambo Joint Venture)	Deputy Project Director	Min Park	9683 0765
	Environmental Officer	Margaret Chung	9130 3696
Reclamation Works:			
Contract 3206 (ZHEC-CCCC-CDC Joint Venture)	Project Manager	Kim Chuan Lim	3693 2288
	Environmental Officer	Kwai Fung Wong	3693 2252

1.4 Summary of Construction Works

The key activities of the Project carried out in the reporting period included five DCM contracts, two advanced works contracts, and a reclamation contract. The DCM contracts involved DCM works and trials, site office establishment, and laying of geotextile and sand blanket. The advanced works contracts involved cable diversion associated works, and HDD works. The reclamation contract involved site office establishment and laying of sand blanket.

1.5 Summary of EM&A Programme Requirements

The status for all environmental aspects is presented **Table 1.2**. The EM&A requirements remained unchanged during the reporting period and details can be referred to Table 1.2 of the Construction Phase Monthly EM&A Report No. 1.

Table 1.2: Summary of status for all environmental aspects under the Updated EM&A Manual

Parameters	Status
Air Quality	
Baseline Monitoring	The baseline air quality monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Noise	
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Water Quality	
General Baseline Water Quality Monitoring for reclamation, water jetting and field joint works	The baseline water quality monitoring result has been reported in Baseline Water Quality Monitoring Report and submitted to EPD under EP Condition 3.4.
General Impact Water Quality Monitoring for reclamation, water jetting and field joint works	On-going
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	Completed in May 2017 and data analysis in-progress.
Early/ Regular DCM Water Quality Monitoring	On-going
Waste Management	
Waste Monitoring	On-going
Land Contamination	

Parameters	Status
Supplementary Contamination Assessment Plan (CAP)	To be submitted with the relevant construction works.
Contamination Assessment Report (CAR) for Golf Course	The CAR for Golf Course was submitted to EPD.
Terrestrial Ecology	
Pre-construction Egretry Survey Plan	The Egretry Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	Construction works on Sheung Sha Chau Island was suspended during the ardeid's breeding season (between April and July). The ecological monitoring is therefore suspended.
Marine Ecology	
Pre-Construction Phase Coral Dive Survey	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12.
Coral Translocation	The coral translocation was completed.
Post-Translocation Coral Monitoring	On-going
Chinese White Dolphins (CWD)	
Vessel Survey, Land-based Theodolite Tracking and Passive Acoustic Monitoring (PAM)	
Baseline Monitoring	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP Condition 3.4.
Impact Monitoring	On-going
Landscape & Visual	
Baseline Monitoring	The baseline landscape & visual monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Environmental Auditing	
Regular site inspection	On-going
Marine Mammal Watching Plan (MMWP) implementation measures	On-going
Dolphin Exclusion Zone Plan (DEZP) implementation measures	On-going
SkyPier High Speed Ferries (HSF) implementation measures	On-going
Construction and Associated Vessels Implementation measures	On-going
Complaint Hotline and Email channel	On-going
Environmental Log Book	On-going

Taking into account the construction works in this reporting month, impact monitoring of air quality, noise, water quality, waste management and CWD were carried out in the reporting month.

The EM&A programme also involved weekly site inspections and related auditing conducted by the ET for checking the implementation of the required environmental mitigation measures recommended in the approved EIA Report. In order to enhance environmental awareness and closely monitor the environmental performance of the contractors, environmental briefings and regular environmental management meetings were conducted.

The EM&A programme has been following the recommendations presented in the approved EIA Report and the Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix A**.

2 Air Quality Monitoring

2.1 Monitoring Stations

Air quality monitoring was conducted at two representative monitoring stations in the vicinity of air sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Manual. **Table 2.1** describes the details of the monitoring stations. **Figure 2.1** shows the locations of the monitoring stations.

Table 2.1: Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location
AR1A	Man Tung Road Park
AR2	Village House at Tin Sum

2.2 Monitoring Requirements and Schedule

In accordance with the Manual, baseline 1-hour total suspended particulate (TSP) levels at the two air quality monitoring stations were established as presented in the Baseline Monitoring Report. Impact 1-hour TSP monitoring was conducted for three times every 6 days. The Action and Limit Levels of the air quality monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 2.2**.

The air quality monitoring schedule involved in the reporting period is provided in **Appendix B**.

Table 2.2: Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
AR1A	306	500
AR2	298	

2.3 Monitoring Equipment

Portable direct reading dust meter was used to carry out the 1-hour TSP monitoring. Details of equipment are given in **Table 2.3**.

Table 2.3: Air Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date
Portable direct reading dust meter (Laser dust monitor)	SIBATA LD-3B-002 (Serial No. 974350)	26 Oct 2016

2.4 Monitoring Methodology

2.4.1 Measuring Procedure

The measurement procedures involved in the impact 1-hr TSP monitoring can be summarised as follows:

a. The portable direct reading dust meter was mounted on a tripod at a height of 1.2 m above the ground.

b. Prior to the measurement, the equipment was set up for 1 minute span check and 6 second background check.
c. The one hour dust measurement was started. Site conditions and dust sources at the nearby area were recorded on a record sheet.
d. When the measurement completed, the “Count” reading per hour was recorded for result calculation.

2.4.2 Maintenance and Calibration

The portable direct reading dust meter is calibrated every year against high volume sampler (HVS) to check the validity and accuracy of the results measured by direct reading method. The calibration certificates of the portable direct reading dust meter and calibration record of the HVS provided in Appendix B of the Construction Phase Monthly EM&A Report No.11 are still valid. Any updates of calibration certificates will be reported in the Monthly EM&A report if necessary.

2.5 Analysis and Interpretation of Monitoring Results

The monitoring results for 1-hour TSP are summarized in **Table 2.4**. Detailed impact monitoring results are presented in **Appendix C**.

Table 2.4: Summary of 1-hour TSP Monitoring Results

Monitoring Station	1-hr TSP Concentration Range (μg/m^3)	Action Level (μg/m^3)	Limit Level (μg/m^3)
AR1A	23 – 69	306	500
AR2	23 – 605	298	

Three exceedance cases of Limit Level of air quality monitoring were recorded at AR2 on 10 May 2017 in the 1-hour TSP monitoring that started at 09:00am, 10:00am and 11:00am. Actions were taken accordingly based on the established Event and Action Plan as presented in the Manual. Contractors, IEC, AAHK and EPD were informed of the exceedances.

It was confirmed from the field investigation that no major construction dust emission source was observed, whilst Hong Kong was being affected by an airstream with high background pollutant concentration from the Pearl River Delta and poor atmospheric conditions for pollutant dispersion on the monitoring day. The air quality health index in Hong Kong including Tung Chung ranged from 4 (moderate) to 10+ (serious) during the monitoring period.

As confirmed with the contractors, no major dusty construction works was undertaken when the exceedances were measured. Dust suppression measures, including covering stockpiles with canvas and watering on exposed earth by P560(R) contractor, and deploying watering system for sand blanket laying by 3205 and 3206 contractors, were implemented during the monitoring period.

The exceedances of 1-hour TSP were likely due to the adverse ambient air quality, and, therefore, the exceedances were considered not due to 3RS project construction works. The mitigation measures that have been implemented were considered effective and will be implemented continuously.

General meteorological conditions throughout the impact monitoring period were recorded. Wind data including wind speed and wind direction for each monitoring day were collected from the Chek Lap Kok Wind Station.

3 Noise Monitoring

3.1 Monitoring Stations

Noise monitoring was conducted at five representative monitoring stations in the vicinity of noise sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Manual. **Figure 2.1** shows the locations of the monitoring stations and these are described in **Table 3.1** below. As described in Section 4.3.3 of the Manual, monitoring at NM2 will commence when the future residential buildings in Tung Chung West Development become occupied.

Table 3.1: Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Type of measurement
NM1A	Man Tung Road Park	Free field
NM2(1)	Tung Chung West Development	To be determined
NM3A	Site Office	Facade
NM4	Ching Chung Hau Po Woon Primary School	Free field
NM5	Village House in Tin Sum	Free field
NM6	House No. 1, Sha Lo Wan	Free field

Note: (1) As described in Section 4.3.3 of the Manual, noise monitoring at NM2 will only commence after occupation of the future Tung Chung West Development.

3.2 Monitoring Requirements and Schedule

In accordance with the Manual, baseline noise levels at the noise monitoring stations were established as presented in the Baseline Monitoring Report. Impact noise monitoring was conducted once per week in the form of 30-minute measurements of L_{eq}, L_{10} and L_{90} levels recorded at each monitoring station between 0700 and 1900 on normal weekdays. The Action and Limit Levels of the noise monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 3.2**. The construction noise monitoring schedule involved in the reporting period is provided in **Appendix B**.

Table 3.2: Action and Limit Levels for Construction Noise

Monitoring Stations	Time Period	Action Level	Limit Level, $L_{eq(30mins)}$ dB(A)
NM1A, NM2, NM3A, NM4, NM5 and NM6	0700-1900 hours on normal weekdays	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)(i)

Note: (i) Reduced to 70dB(A) for school and 65dB(A) during school examination periods. No school examination took place in the reporting period.

3.3 Monitoring Equipment

Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was used to check the sound level meters by a known sound pressure level for field measurement. Details of equipment are given in **Table 3.3**.

Table 3.3: Noise Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date
Integrated Sound Level Meter	B&K 2238 (Serial No. 2800932)	19 Jul 2016
	B&K 2238 (Serial No. 2381580)	8 Sep 2016
Acoustic Calibrator	B&K 4231 (Serial No. 3003246)	16 May 2017
	B&K 4231 (Serial No. 3004068)	19 Jul 2016

3.4 Monitoring Methodology

3.4.1 Monitoring Procedure

The monitoring procedures involved in the noise impact monitoring can be summarised as follows:

a. The sound level meter was set on a tripod at least a height of 1.2 m above the ground for free-field measurements at monitoring stations NM1A, NM4, NM5 and NM6. A correction of +3 dB(A) was applied to the free field measurements.
b. Façade measurements were made at the monitoring station NM3A.
c. Parameters such as frequency weighting, time weighting and measurement time were set.
d. Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator. If the difference in the calibration level before and after measurement was more than 1 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, L_{eq}, L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a record sheet.
f. Noise measurement results were corrected with reference to the baseline monitoring levels.
g. Observations were recorded when high intrusive noise (e.g. dog barking, helicopter noise) was observed during the monitoring.

3.4.2 Maintenance and Calibration

The maintenance and calibration procedures are summarised below:

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 laboratory accredited under Hong Kong Laboratory Accreditation Scheme (HOKLAS) to check and calibrate at yearly intervals.

Calibration certificates of the sound level meters and acoustic calibrators used in the noise monitoring provided in Appendix B of the Construction Phase Monthly EM&A Report No.8 & 9 are still valid. The acoustic calibrator calibrated in May 2017 is provided in **Appendix D**.

3.5 Analysis and Interpretation of Monitoring Results

The construction noise monitoring results are summarized in **Table 3.4** and the detailed monitoring data are provided in **Appendix C**.

Table 3.4: Summary of Construction Noise Monitoring Results

Monitoring Station	Noise Level Range, dB(A) $L_{eq\ (30\ mins)}$	Limit Level, dB(A) $L_{eq\ (30\ mins)}$
NM1A[(i)]	71 – 73	75
NM3A	60 – 63	75
NM4[(i)]	65 – 68	70[(ii)]
NM5[(i)]	53 – 64	75
NM6[(i)]	64 – 70	75

Note: (i) +3 dB(A) Façade correction included;
(ii) Reduced to 65 dB(A) during school examination periods at NM4. No school examination took place in the reporting period.

As the construction activities were far away from the monitoring stations, major sources of noise dominating the monitoring stations observed during the construction noise impact monitoring were road traffic noise at NM1A, aircraft and helicopter noise at NM3A, road traffic, student activity noise, and noise from Tung Chung Sewage Pumping Station at NM4, helicopter noise at NM5, and aircraft, helicopter, and marine vessel noise at NM6 in this reporting month.

No exceedance of the Action/ Limit Level was recorded at all monitoring stations in the reporting period.

4 Water Quality Monitoring

4.1 Monitoring Stations

Water quality monitoring was conducted at a total of 23 water quality monitoring stations, comprising 12 impact stations, one mobile impact station, seven sensitive receiver stations and three control stations in the vicinity of water quality sensitive receivers around the airport island in accordance with the Manual. **Table 4.1** describes the details of the monitoring stations**. Figure 3.1** shows the locations of the monitoring stations.

Table 4.1: Monitoring Locations and Parameters for Impact Water Quality Monitoring

Monitoring Stations	Description	Coordinates		Parameters
		Easting	Northing	
C1	Control	804247	815620	DO, pH, Temperature, Salinity, Turbidity, SS, Total Alkalinity, Heavy Metals[2]
C2	Control	806945	825682	
C3[3]	Control	817803	822109	
IM1	Impact	806458	818351	
IM2	Impact	806193	818852	
IM3	Impact	806019	819411	
IM4	Impact	805039	819570	
IM5	Impact	804924	820564	
IM6	Impact	805828	821060	
IM7	Impact	806835	821349	
IM8	Impact	807838	821695	
IM9	Impact	808811	822094	
IM10	Impact	809838	822240	
IM11	Impact	810545	821501	
IM12	Impact	811519	821162	
IM13	Impact (for submarine 11 kV cable diversion)	Mobile station (500 m envelope of water jetting works)		DO, pH, Temperature, Salinity, Turbidity, SS
SR1[1]	Future Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812586	820069	DO, pH, Temperature, Salinity, Turbidity, SS
SR2[3]	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	
SR3	Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau	807571	822147	
SR4A	Sha Lo Wan	807810	817189	
SR5A	San Tau Beach SSSI	810696	816593	
SR6	Tai Ho Bay, Near Tai Ho Stream SSSI	814663	817899	
SR7	Ma Wan Fish Culture Zone (FCZ)	823742	823636	
SR8	Seawater Intake for cooling at Hong Kong International Airport (East)	811593	820417	

Notes:

(1) The seawater intakes of SR1 for the future HKBCF is not yet in operation, hence no water quality impact monitoring was conducted at this station. The future permanent location for SR1 during impact monitoring is subject to finalisation after the HKBCF seawater is commissioned.

(2) Details of selection criteria for the two heavy metals for early regular DCM monitoring refer to the Detailed Plan on Deep Cement Mixing available on the dedicated 3RS website http://env.threerunwaysystem.com/en/ep-submissions.html). DCM specific water quality monitoring parameters (total alkalinity and heavy metals) were only conducted at C1 to C3, SR2, and IM1 to IM12 .

(3) According to the Baseline Water Quality Monitoring Report, C3 station is not adequately representative as a control station of impact/ SR stations during the flood tide. The control reference has been changed from C3 to SR2 from 1 September 2016 onwards.

4.2 Monitoring Requirements and Schedule

In accordance with the Manual, baseline water quality levels at the abovementioned representative water quality monitoring stations were established as presented in the Baseline Water Quality Monitoring Report.

General water quality monitoring and early regular DCM water quality monitoring were conducted three days per week, at mid-flood and mid-ebb tides, at the 23 water quality monitoring stations during the reporting period. The sea conditions varied from calm to rough, and the weather conditions varied from sunny to rainy during the monitoring period.

As confirmed by Contract 3212, the 11kv submarine cable diversion and associated works were conducted from 8 to 19, and 21 to 23 May 2017. The cable diversion and associated works were substantially completed on 23 May 2017. Therefore, general water quality monitoring at IM13 was ceased after 23 May 2017.

The water quality monitoring schedule for the reporting period is provided in **Appendix B**.

4.2.1 Action and Limit Levels for Water Quality Monitoring

The Action and Limit Levels for general water quality monitoring and regular DCM monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are presented in **Table 4.2**. The control and impact stations during flood tide and ebb tide for general water quality monitoring and regular DCM monitoring are presented in **Table 4.3**.

Table 4.2: Action and Limit Levels for General Water Quality Monitoring and Regular DCM Monitoring

Parameters	Action Level (AL)		Limit Level (LL)	
Action and Limit Levels for general water quality monitoring and regular DCM monitoring (excluding SR1& SR8)				
DO in mg/L (Surface, Middle & Bottom)	Surface and Middle 4.5 mg/L		Surface and Middle 4.1 mg/L 5 mg/L for Fish Culture Zone (SR7) only	
	Bottom 3.4 mg/L		Bottom 2.7 mg/L	
Suspended Solids (SS) in mg/L	23	or 120% of upstream control station at the same tide of the same day, whichever is higher	37	or 130% of upstream control station at the same tide of the same day, whichever is higher
Turbidity in NTU	22.6		36.1	
Total Alkalinity in ppm	95		99	
Representative Heavy Metals for early regular DCM monitoring (Chromium)	0.2		0.2	
Representative Heavy Metals for early regular DCM monitoring	3.2		3.6	

Parameters	Action Level (AL)	Limit Level (LL)
(Nickel)		
Action and Limit Levels SR1		
SS (mg/l)	To be determined prior to its commissioning	To be determined prior to its commissioning
Action and Limit Levels SR8		
SS (mg/l)	52	60

Notes:

(1) For DO measurement, non-compliance occurs when monitoring result is lower than the limits.

(2)For parameters other than DO, non-compliance of water quality results when monitoring results is higher than the limits.

(3)Depth-averaged results are used unless specified otherwise.

(4)Details of selection criteria for the two heavy metals for early regular DCM monitoring refer to the Detailed Plan on Deep Cement Mixing available on the dedicated 3RS website http://env.threerunwaysystem.com/en/ep-submissions.html)

(5)The action and limit levels for the two representative heavy metals chosen will be the same as that for the intensive DCM monitoring.

Table 4.3: The Control and Impact Stations during Flood Tide and Ebb Tide for General Water Quality Monitoring and Regular DCM Monitoring

Control Station	Impact Stations
Flood Tide	
C1	IM1, IM2, IM3, IM4, IM5, IM6, IM7, IM8, IM13, SR3
SR2^1	IM7, IM8, IM9, IM10, IM11, IM12, SR1A, SR3, SR4A, SR5A, SR6, SR8
Ebb Tide	
C1	SR4A, SR5A, SR6
C2	IM1, IM2, IM3, IM4, IM5, IM6, IM7, IM8, IM9, IM10, IM11, IM12, IM13, SR1A, SR2, SR3, SR7, SR8

^1 As per findings of Baseline Water Quality Monitoring Report, the control reference has been changed from C3 to SR2 from 1 Sep 2016 onwards.

4.3 Monitoring Equipment

Table 4.4 summarises the equipment used for monitoring of specific water quality parameters under the impact water quality monitoring programme.

Table 4.4: Water Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date
Multifunctional Meter (measurement of DO, pH, temperature, salinity and turbidity)	YSI ProDSS (serial no. 16J101715)	16 Mar 2017
	YSI ProDSS (serial no. 16J101716)	16 Mar 2017
	YSI 6920 V2 (serial no. 0001C6B0)	16 Mar 2017
	YSI 6920 V2 (serial no. 000109DF)	16 Mar 2017
Digital Titrator (measurement of total alkalinity)	Titrette Digital Burette 50ml Class A (serial no.10N64701)	17 Mar 2017

Other equipment used as part of the impact water quality monitoring programme are listed in **Table 4.5**

Table 4.5: Other Monitoring Equipment

Equipment	Brand and Model
Water Sampler	Van Dorn Water Sampler
Positioning Device (measurement of GPS)	Garmin eTrex Vista HCx

Equipment	Brand and Model
Current Meter (measurement of current speed and direction, and water depth)	Sontek HydroSurveyor

4.4 Monitoring Methodology

4.4.1 Measuring Procedure

Water quality monitoring samples were taken at three depths (at 1m below surface, at mid-depth, and at 1m above bottom) for locations with water depth >6m. For locations with water depth between 3m and 6m, water samples were taken at two depths (surface and bottom). For locations with water depth <3m, only the mid-depth was taken. Duplicate water samples were taken and analysed.

The water samples for all monitoring parameters were collected, stored, preserved and analysed according to the Standard Methods, APHA 22nd ed. and/or other methods as agreed by the EPD. In-situ measurements at monitoring locations including temperature, pH, DO, turbidity, salinity and water depth were collected by equipment listed in **Table 4.4** and **Table 4.5**. Water samples for heavy metals and SS analysis were stored in high density polythene bottles with no preservative added, packed in ice (cooled to 4 ºC without being frozen), delivered to the laboratory within 24 hours of collection.

4.4.2 Maintenance and Calibration

Calibration of In-situ Instruments

All in-situ monitoring instrument were checked, calibrated and certified by a laboratory accredited under HOKLAS before use. Responses of sensors and electrodes were checked with certified standard solutions before each use.

Wet bulb calibration for a DO meter was carried out before commencement of monitoring and after completion of all measurements each day. Calibration was not conducted at each monitoring location as daily calibration is adequate for the type of DO meter employed. A zero check in distilled water was performed with the turbidity probe at least once per monitoring day. The probe was then calibrated with a solution of known NTU. In addition, the turbidity probe was calibrated at least twice per month to establish the relationship between turbidity readings (in NTU) and levels of suspended solids (in mg/L). Accuracy check of the digital titrator was performed at least once per monitoring day.

Calibration certificates of the monitoring equipment used in the monitoring period provided in Appendix D of the Construction Phase Monthly EM&A Report No.16 are still valid. Any updates of calibration certificates will be reported in the Monthly EM&A report if necessary.

4.4.3 Laboratory Measurement / Analysis

Analysis of SS and heavy metals have been carried out by a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066). Sufficient water samples were collected at all the monitoring stations for carrying out the laboratory SS and heavy metals determination. The SS and heavy metals determination works were started within 24 hours after collection of the water samples. The analysis of SS and heavy metals have followed the standard methods summarised in **Table 4.6.** The QA/QC procedures for laboratory measurement/ analysis of SS and heavy metals were presented in Appendix F of the Construction Phase Monthly EM&A Report No.8.

Table 4.6: Laboratory Measurement/ Analysis of SS and Heavy Metals

Parameters	Instrumentation	Analytical Method	Reporting Limit
Suspended Solid (SS)	Analytical Balance	APHA 2540D	2 mg/L
Heavy Metals			
Chromium (Cr)	ICP-MS	USEPA 6020A	0.2 µg/L
Nickel (Ni)	ICP-MS	USEPA 6020A	0.2 µg/L

4.5 Analysis and Interpretation of Monitoring Results

4.5.1 Summary of Monitoring Results

The water quality monitoring results for DO, turbidity, total alkalinity, SS, and chromium obtained during the reporting period were in compliance with their corresponding Action and Limit Levels stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme if being exceeded. For nickel, some of the testing results exceeded the relevant Action or Limit Levels, and the corresponding investigation were conducted accordingly. Details of the exceedances are presented in **Section 4.5.2**.

4.5.2 Summary of Findings for Investigation of Exceedances

During the reporting period, water quality monitoring was conducted at 12 impact (IM) stations, one mobile IM station, seven sensitive receiver (SR) stations, and three control stations in accordance with the Manual. The purpose of water quality monitoring at the IM stations is to promptly capture any potential water quality impact from the Project before it could become apparent at sensitive receivers (represented by the SR stations).

During the monitoring period, testing results exceeding the corresponding Action or Limit Levels were recorded on four monitoring days. Details of the exceedance cases are presented below.

Findings for Nickel Exceedance (Mid-Ebb Tide)

Table 4.7 presents a summary of the nickel compliance status at IM stations during mid-ebb tide for the reporting month.

Table 4.7: Summary of Nickel Compliance Status at IM Stations (Mid-Ebb Tide)

Date	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
02/05/2017												
06/05/2017												
09/05/2017												
11/05/2017												
13/05/2017												
16/05/2017												
18/05/2017												
20/05/2017												
23/05/2017												
25/05/2017												
27/05/2017												
30/05/2017												
No. of Nickel Exceedances	0	0	0	0	0	0	0	0	0	1	0	0

Note: Detailed results are presented in **Appendix C**.
Legend:

No exceedance of Action Level and Limit Level
Exceedance of Action Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow
Exceedance of Action Level recorded at monitoring station located upstream of the 3RS Project based on dominant tidal flow
Upstream station with respect to 3RS Project during the respective tide based on dominant tidal flow

An exceedance of Action Level was recorded on one monitoring day. However, the exceedance occurred at a monitoring station which was located upstream of the Project during ebb tide would unlikely be affected by the Project.

Findings for Nickel Exceedances (Mid-Flood Tide)

Table 4.8 presents a summary of the nickel compliance status at IM stations during mid-flood tide for the reporting month.

Table 4.8: Summary of Nickel Compliance Status at IM Stations (Mid-Flood Tide)

Date	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
02/05/2017												
06/05/2017												
09/05/2017												
11/05/2017												
13/05/2017												
16/05/2017												
18/05/2017												
20/05/2017												
23/05/2017												
25/05/2017												
27/05/2017												
30/05/2017												
No. of Nickel Exceedances	0	0	0	0	0	1	2	2	1	1	0	0

Note: Detailed results are presented in **Appendix C**.
Legend:

No exceedance of Action Level and Limit Level
Exceedance of Action Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow
Exceedance of Action Level recorded at monitoring station located upstream of the 3RS Project based on dominant tidal flow
Exceedance of Limit Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow
Exceedance of Limit Level recorded at monitoring station located upstream of the 3RS Project based on dominant tidal flow
Upstream station with respect to 3RS Project during the respective tide based on dominant tidal flow

Exceedances of Action or Limit Levels were recorded on three monitoring days. As the exceedances occurred at stations located downstream of the Project during flood tide, which might be affected by the Project's construction activities, exceedance investigation was carried out.

As part of the investigation on the downstream exceedance events, details of the Project's marine construction activities on these monitoring days were collected, as well as any observations during the monitoring. The findings are summarised in **Table 4.9**.

Table 4.9: Summary of Findings from Investigations of Nickel Exceedances during Mid-Flood Tide

Date	Marine construction works nearby	Approximate distance from marine construction works*	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Exceedance due to Project
09/05/2017	DCM works	Around 500m	Silt curtain deployed	No	No	No
18/05/2017	DCM works	Around 500m	Silt curtain deployed	No	No	No
25/05/2017	DCM works	Around 500m	Silt curtain deployed	No	No	No

According to the investigation findings, it was confirmed that DCM activities were operating normally and silt curtains were deployed for DCM works as additional measures and the silt curtains were maintained properly.

For the exceedances at IM6 to IM10 on 9 May 2017, it is noted that no SS exceedance was recorded in the same tide and the concentration (5- 6 mg/L) was well below the Action and Limit Levels. Nickel is a representative heavy metal that indicates the potential for release of contaminants from Contaminated Mud Pits (CMPs) due to the disturbance of marine sediment within CMP by DCM activities. Elevated nickel concentrations due to these activities should be associated with similar elevated SS levels. However, the low SS levels at impact stations indicates that the active DCM works have limited or insignificant effect on downstream water quality. Based on these findings, the exceedances were considered not due to the Project and may be due to natural fluctuation or other sources not related to the Project.

For the exceedances at IM7 on 18 May 2017 and IM8 on 25 May 2017, the exceedances appeared to be isolated cases with no observable temporal and spatial trend to indicate any effect due to Project activities. Furthermore, no exceedance was recorded at other downstream monitoring stations, including IM8 on 18 May 2017 and IM7 on 25 May 2017, which were similarly close to active DCM works during the same monitoring period. Based on these findings, the exceedances were considered not due to the Project.

Conclusions

Based on the findings of the exceedance investigations, it is concluded that the exceedances were not due to the Project. Hence no SR was adversely affected by the Project. All required actions under the Event and Action Plan were followed. Exceedances appeared to be due to natural fluctuation or other sources not related to the Project.

Nevertheless, recognising that the IM stations represent a ‘first line of defence’, the non-project related exceedances identified at IM stations were attended to as a precautionary measure. As part of the EM&A programme, the construction methods and mitigation measures for water quality will continue to be monitored and opportunities for further enhancement will continue to be explored and implemented where possible, to strive for better protection of water quality and the marine environment.

In the meantime, the contractors were reminded to implement and maintain all mitigation measures during weekly site inspection and regular environmental management meetings. These include maintaining mitigation measures for DCM works and sand blanket laying works properly as recommended in the Manual.

5 Waste Management

5.1 Monitoring Requirements

In accordance with the Manual, the waste generated from construction activities was audited once per week to determine if wastes are being managed in accordance with the Waste Management Plan (WMP) prepared for the Project, contract-specific WMP, and any statutory and contractual requirements. All aspects of waste management including waste generation, storage, transportation and disposal were assessed during the audits. The Action and Limit levels of the construction waste are provided in **Table 5.1**.

Table 5.1: Action and Limit Levels for Construction Waste

Monitoring Stations	Action Level	Limit Level
Construction Area	When one valid documented complaint is received	Non-compliance of the WMP, contract-specific WMPs, any statutory and contractual requirements

5.2 Waste Management Status

Weekly monitoring on all works contracts were carried out by the ET to check and monitor the implementation of proper waste management practices during the construction phase.

Recommendations including provision and maintenance of spill kits and drip trays, provision of proper storage area for general refuse, chemical and chemical waste; and segregation of recyclables from general refuse. The contractors had taken actions to implement the recommended measures.

Based on the Contractor's information, about 1071m^3 of excavated materials were produced from the HDD launching site under P560(R) in the reporting period. The generated excavated materials were temporarily stored at the stockpiling area. The excavated material will be reused in the Project.

Based on the updated information, around 82 tonnes of general refuse was disposed of to the WENT Landfill by the advanced works contract and DCM contracts in April 2017.

In addition, metal was recycled during the reporting month. Around 83 tonnes of general refuse was disposed of to the WENT Landfill and 0.08 tonnes of chemical waste was disposed of to the Tsing Yi Chemical Waste Treatment by the advanced works contract and DCM contracts in May 2017. Around 615m^3 of Construction and Demolition (C&D) material generated from the DCM contract for site office establishment was disposed of as public fill.

No exceedances of the Action or Limit Levels were recorded in the reporting period.

6 Chinese White Dolphin Monitoring

6.1 CWD Monitoring Requirements

In accordance with the Manual, Chinese White Dolphin (CWD) monitoring by small vessel line-transect survey supplemented by land-based theodolite tracking and passive acoustic monitoring should be conducted during construction phase.

The small vessel line-transect survey as proposed in the Manual should be conducted at a frequency of two full survey per month while land-based theodolite tracking should be conducted at a frequency of one day per month per station during the construction phase. In addition to the land-based theodolite tracking required for impact monitoring as stipulated in the Manual, supplemental theodolite tracking have also been conducted during the implementation for the SkyPier HSF diversion and speed control in order to assist in monitoring the effectiveness of these measures, i.e. in total twice per month at the Sha Chau station and three times per month at the Lung Kwu Chau station.

The Action Level (AL) and Limit Level (LL) for CWD monitoring were formulated by the action response approach using the running quarterly dolphin encounter rates STG and ANI derived from the baseline monitoring data, as presented in the CWD Baseline Monitoring Report. The derived values of AL and LL for CWD monitoring were summarized in **Table 6.1**.

Table 6.1: Derived Values of Action Level (AL) and Limit Level (LL) for Chinese White Dolphin Monitoring

	NEL, NWL, AW, WL and SWL as a Whole
Action Level	Running quarterly* STG < 1.86 & ANI < 9.35
Limit Level	Two consecutive running quarterly^ (3-month) STG < 1.86 & ANI < 9.35

[Notes for Table 6.1 (referring to the baseline monitoring report):
*Action Level – running quarterly STG & ANI will be calculated from the three preceding survey months. For CWD monitoring for May 2017, data from 1 March 2017 to 31 May 2017 will be used to calculate the running quarterly encounter rates STG & ANI;

^Limit Level – two consecutive running quarters mean both the running quarterly encounter rates of the preceding month April 2017 (calculated by data from February 2017 to April 2017) and the running quarterly encounter rates of this month (calculated by data from March 2017 to May 2017).

AL and/or LL will be exceeded if both STG and ANI fall below the criteria.]

6.2 CWD Monitoring Transects and Stations

6.2.1 Small Vessel Line-transect Survey

Small vessel line-transect surveys were conduct along the transects covering Northeast Lantau (NEL), Northwest Lantau (NWL), Airport West (AW), West Lantau (WL) and Southwest Lantau (SWL) areas as proposed in the Manual, which are consistent with the Agriculture, Fisheries and Conservation Department (AFCD) long-term monitoring programme (except the addition of AW). The AW transect has not been previously surveyed in the AFCD programme due to the restrictions of HKIA Exclusion Zone, nevertheless, this transect was established during the EIA of the 3RS Project and refined in the Manual with the aim to collect project specific baseline information within the HKIA Approach Area to fill the data gap that was not covered by the AFCD programme. This provided a larger sample size for estimating the density, abundance and patterns of movements in the broader study area of the project.

The planned vessel survey transect lines follow the waypoints set for construction phase monitoring as proposed in the Manual and depicted in **Figure 6.1** with the waypoint coordinates of all transect lines given in **Table 6.2**, which are subject to on-site refinement based on the actual survey conditions and constraints.

Table 6.2: Coordinates of Transect Lines in NEL, NWL, AW, WL and SWL Survey Areas

Waypoint	Easting	Northing	Waypoint	Easting	Northing
		NEL			
1S	813525	820900	6N	818568	824433
1N	813525	824657	7S	819532	821420
2S	814556	818449	7N	819532	824209
2N	814559	824768	8S	820451	822125
3S	815542	818807	8N	820451	823671
3N	815542	824882	9S	821504	822371
4S	816506	819480	9N	821504	823761
4N	816506	824859	10S	822513	823268
5S	817537	820220	10N	822513	824321
5N	817537	824613	11S	823477	823402
6S	818568	820735	11N	823477	824613
		NWL			
1S	804671	814577	5S	808504	821735
1N	804671	831404	5N	808504	828602
2Sb	805475	815457	6S	809490	822075
2Nb	805476	818571	6N	809490	825352
2Sa	805476	820770	7S	810499	822323
2Na	805476	830562	7N	810499	824613
3S	806464	821033	8S	811508	821839
3N	806464	829598	8N	811508	824254
4S	807518	821395	9S	812516	821356
4N	807518	829230	9N	812516	824254
		AW			
1W	804733	818205	2W	805045	816912
1E	806708	818017	2E	805960	816633
		WL			
1W	800600	805450	7W	800400	811450
1E	801760	805450	7E	802400	811450
2W	800300	806450	8W	800800	812450
2E	801750	806450	8E	802900	812450
3W	799600	807450	9W	801500	813550
3E	801500	807450	9E	803120	813550
4W	799400	808450	10W	801880	814500
4E	801430	808450	10E	803700	814500
5W	799500	809450	11W	802860	815500
5E	801300	809450	12S/11E	803750	815500
6W	799800	810450	12N	803750	818500
6E	801400	810450			
		SWL			
1S	802494	803961	6S	807467	801137
1N	802494	806174	6N	807467	808458
2S	803489	803280	7S	808553	800329

Waypoint	Easting	Northing	Waypoint	Easting	Northing
2N	803489	806720	7N	808553	807377
3S	804484	802509	8S	809547	800338
3N	804484	807048	8N	809547	807396
4S	805478	802105	9S	810542	800423
4N	805478	807556	9N	810542	807462
5S	806473	801250	10S	811446	801335
5N	806473	808458	10N	811446	809436

6.2.2 Land-based Theodolite Tracking

Land-based theodolite tracking stations were set up at two locations, one facing east/south/west on the southern slopes of Sha Chau (SC), and the other facing north/northeast/northwest at Lung Kwu Chau (LKC). The stations (D and E) are depicted in **Figure 6.2** and shown in **Table 6.3** with position coordinates, height of station and approximate distance of consistent theodolite tracking capabilities for CWD.

Table 6.3: Land-based Survey Station Details

Stations	Location	Geographical Coordinates	Station Height (m)	Approximate Tracking Distance (km)
D	Sha Chau (SC)	22° 20' 43.5" N 113° 53' 24.66" E	45.66	2
E	Lung Kwu Chau (LKC)	22° 22' 44.83" N 113° 53' 0.2" E	70.40	3

6.3 CWD Monitoring Methodology

6.3.1 Small Vessel Line-transect Survey

Small vessel line-transect surveys provided data for density and abundance estimation and other assessments using distance-sampling methodologies, specifically, line-transect methods.

The surveys involved small vessel line-transect data collection and have been designed to be similar to, and consistent with, previous surveys for the AFCD for their long-term monitoring of small cetaceans in Hong Kong. The survey was designed to provide systematic, quantitative measurements of density, abundance and habitat use.

As mentioned in **Section 6.2.1**, the transects covered NEL, NWL covering the AW, WL and SWL areas as proposed in the Manual and are consistent with the AFCD long-term monitoring programme (except AW). There are two types of transect lines:

- Primary transect lines: the parallel and zigzag transect lines as shown in **Figure 6.1**; and
- Secondary transect lines: transect lines connecting between the primary transect lines and crossing islands.

All data collected on both primary and secondary transect lines were used for analysis of sighting distribution, group size, activities including association with fishing boat, and mother-calf pair. Only on-effort data collected under conditions of Beaufort 0-3 and visibility of approximately 1200 m or beyond were used for analysis of the CWD encounter rates.

A 15-20 m vessel with a flying bridge observation platform about 4 to 5 m above water level and unobstructed forward view, and a team of three to four observers were deployed to undertake the surveys. Two observers were on search effort at all times when following the transect lines with

a constant speed of 7 to 8 knots (i.e. 13 to 15 km per hour), one using 7X handheld binoculars and the other using unaided eyes and recording data.

During on-effort survey periods, the survey team recorded effort data including time, position (waypoints), weather conditions (Beaufort sea state and visibility) and distance travelled in each series with assistance of a handheld GPS device. The GPS device also continuously and automatically logged data including time, position (Latitude and longitude) and vessel speed throughout the entire survey.

When CWDs were seen, the survey team was taken off-effort, the dolphins were approached and photographed for photo-ID information (using a Canon 7D [or similar] camera and long 300 mm+ telephoto lens), then followed until they left the study area or were lost. At that point, the boat returned (off effort) to the next survey line and began to survey on effort again.

Focal follows of dolphins were conducted where practicable (i.e. when individual dolphins or small stable groups of dolphins with at least one member that could be readily identifiable with unaided eyes during observations and weather conditions are favourable). These involved the boat following (at an appropriate distance to minimize disturbance) an identifiable individual dolphin for an extended period of time, and collecting detailed data on its location, behaviour, response to vessels, and associates.

6.3.2 Photo Identification

CWDs can be identified by their unique features like presence of scratches, nick marks, cuts, wounds, deformities of their dorsal fin and distinguished colouration and spotting patterns.

When CWDs were observed, the survey team was taken off-effort, the dolphins were approached and photographed for photo-ID information (using a Canon 7D [or similar] camera and long 300 mm+ telephoto lens). The survey team attempted to photo both sides of every single dolphin in the group as the colouration and spotting pattern on both sides may not be identical. The photos were taken at the highest available resolution and stored on Compact Flash memory cards for transferring into a computer.

All photos taken were initially examined to sort out those containing potentially identifiable individuals. These sorted-out images would then be examined in detail and compared to the CWD photo-identification catalogue established for 3RS during the baseline monitoring stage.

6.3.3 Land-based Theodolite Tracking

Land-based monitoring obtains fine-scale information on the time of day and movement patterns of the CWDs. A digital theodolite (Sokkia/Sokkisha Model DT5 or similar equipment) with 30-power magnification and 5-s precision was used to obtain the vertical and horizontal angle of each dolphin and vessel position. Angles were converted to geographic coordinates (latitude and longitude) and data were recorded using *Pythagoras* software, Version 1.2. This method delivers precise positions of multiple spatially distant targets in a short period of time. The technique is fully non-invasive, and allows for time and cost-effective descriptions of dolphin habitat use patterns at all times of daylight.

Three surveyors (one theodolite operator, one computer operator, and one observer) were involved in each survey. Observers searched for dolphins using unaided eyes and handheld binoculars (7X50). Theodolite tracking sessions were initiated whenever an individual CWD or group of CWDs was located. Where possible, a distinguishable individual was selected, based on colouration, within the group. The focal individual was then continuously tracked via the theodolite, with a position recorded each time the dolphin surfaced. In case an individual could

not be positively distinguished from other members, the group was tracked by recording positions based on a central point within the group whenever the CWD surfaced. Tracking continued until animals were lost from view; moved beyond the range of reliable visibility (>1-3 km, depending on station height); or environmental conditions obstructed visibility (e.g., intense haze, Beaufort sea state >4, or sunset), at which time the research effort was terminated. In addition to the tracking of CWD, all vessels that moved within 2-3 km of the station were tracked, with effort made to obtain at least two positions for each vessel.

Theodolite tracking included focal follows of CWD groups and vessels. Priority was given to tracking individual or groups of CWD. The survey team also attempted to track all vessels moving within 1 km of the focal CWD.

6.4 Monitoring Results and Observations

6.4.1 Small Vessel Line-transect Survey

Survey Effort

Within this reporting month, two complete sets of small vessel line-transect surveys were conducted on the 4th, 5th, 8th, 9th, 11th, 17th, 22nd and 23rd May 2017, covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

A total of 449.00 km of survey effort was collected from these surveys, with around 89.99% of the total survey effort being conducted under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of the survey effort are given in **Appendix C**.

Sighting Distribution

In May 2017, 19 groups of CWDs with 111 individuals were sighted. Amongst these sightings, 17 groups of CWDs with 103 animals were recorded during on-effort search under favourable weather conditions (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of cetacean sightings are presented in **Appendix C**.

Distribution of all CWD sightings recorded in May 2017 is illustrated in **Figure 6.3**. In May 2017, CWDs were only sighted in WL and SWL, with more sightings recorded in WL than in SWL. In WL survey area, CWD sightings were recorded from Tai O to Fan Lau. In SWL, CWD sightings were recorded along the coastal waters from Fan Lau to Shek Pik and also in eastern waters of Soko Islands. No sightings of CWDs were recorded in the vicinity of or within the 3RS land-formation footprint.

Figure 6.3: Sightings Distribution of Chinese White Dolphins

[Pink circle: Sighting locations of CWD, White line: Vessel survey transects, Blue polygon: Sha Chau and Lung Kwu Chau Marine Park (SCLKCMP), Green polygon: Brothers Marine Park (BMP) Red polygon: 3RS land-formation footprint, Yellow line: 3RS temporary works area boundary]

Encounter Rate

Two types of dolphin encounter rates were calculated based on the data from May 2017. They included the number of dolphin sightings per 100 km survey effort (STG) and total number of dolphins per 100 km survey effort (ANI) in the whole survey area (i.e. NEL, NWL, AW, WL and SWL). In the calculation of dolphin encounter rates, only survey data collected under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility) were used. The formulae used for calculation of the encounter rates are shown below:

Encounter Rate by Number of Dolphin Sightings (STG)

$$STG = \frac{Total\ No.of\ \ On-effort\ Sightings}{Total\ Amount\ of\ Survey\ Effort\ (km)}\ x\ 100$$

Encounter Rate by Number of Dolphins (ANI)

$$ANI = \frac{Total\ No.of\ Dolphins\ from\ On-effort\ Sightings}{Total\ Amount\ of\ Survey\ Effort\ (km)}\ x\ 100$$

(Notes: Only data collected under Beaufort 3 or below condition was used)

In May 2017, a total of 404.06 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 17 on-effort sightings with a total number of 103 dolphins from on-effort sightings were obtained under such condition. Calculation of the encounter rates in May 2017 are shown in **Appendix C**.

For the running quarter of the reporting month (i.e., from March 2017 to May 2017), a total of 1210.64 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 37 on-effort sightings and a total number of 175 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown in **Appendix C**.

The STG and ANI of CWD in the whole survey area (i.e. NEL, NWL, AW, WL and SWL) during the month of May 2017 and during the running quarter are presented in **Table 6.4** below and compared with the Action Level. The running quarterly encounter rates STG and ANI did not trigger the Action Level (i.e., remained above the Action Level).

Table 6.4: Comparison of CWD Encounter Rates of the Whole Survey Area with Action Levels

	Encounter Rate (STG)	Encounter Rate (ANI)
May 2017	4.21	25.49
Running Quarter from March 2017 to May 2017*	3.06	14.46
Action Level	Running quarterly* < 1.86	Running quarterly* < 9.35

*Running quarterly encounter rates STG & ANI were calculated from data collected in the reporting month and the two preceding survey months, i.e. the data from March 2017 to May 2017, containing six sets of transect surveys for all monitoring areas.

Group Size

In May 2017, 19 groups of CWDs with 111 individuals were sighted, and the average group size of CWDs was 5.84 individuals per group. The number of CWD groups with small-sized (i.e. 1-2 individuals) was five while that of medium-sized (i.e. 3-9 individuals) was 11. Three large CWD groups (i.e. 10 or more individuals) sighted in WL were recorded in this reporting month.

Activities and Association with Fishing Boats

Ten out of 19 sightings of CWDs were recorded engaging in feeding activities in May 2017, whilst none of these sightings was associated with operating fishing boat.

Mother-calf Pair

In May 2017, five sightings of CWDs were recorded with the presence of mother-and-unspotted juvenile pairs. Four out of these five sightings were recorded in WL while the remaining one was recorded in SWL.

6.4.2 Photo Identification

In May 2017, a total number of 35 different CWD individuals were identified for totally 47 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix C**.

Table 6.5: Summary of Photo Identification

Individual ID	Date of Sighting (dd/mm/yyyy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd/mm/yyyy)	Sighting Group No.	Area
NLMM001	**11/05/2017**	3	WL	**WLMM008**	**11/05/2017**	7	WL
NLMM023	**11/05/2017**	1	WL	**WLMM018**	**11/05/2017**	8	WL
SLMM007	**11/05/2017**	9	WL	**WLMM042**	**11/05/2017**	3	WL
SLMM010	**11/05/2017**	10	SWL	**WLMM043**	**05/05/2017**	1	WL
SLMM011	**11/05/2017**	11	SWL	**WLMM070**	**11/05/2017**	11	SWL
SLMM015	**04/05/2017**	1	SWL	**WLMM073**	**11/05/2017**	8	WL
SLMM022	**05/05/2017**	4	WL	**WLMM076**	**05/05/2017**	1	WL
		5	WL	**WLMM077**	**05/05/2017**	1	WL
SLMM023	**05/05/2017**	4	WL	**WLMM078**	**05/05/2017**	1	WL
		5	WL	**WLMM079**	**05/05/2017**	4	WL
	11/05/2017	3	WL			5	WL
		8	WL	**WLMM080**	**11/05/2017**	2	WL
SLMM027	**11/05/2017**	3	WL	**WLMM081**	**11/05/2017**	2	WL
		8	WL	**WLMM082**	**11/05/2017**	2	WL
SLMM028	**05/05/2017**	5	WL			4	WL
SLMM047	**11/05/2017**	8	WL	**WLMM083**	**11/05/2017**	2	WL
SLMM052	**05/05/2017**	4	WL	**WLMM084**	**11/05/2017**	3	WL
		5	WL			7	WL
	11/05/2017	10	SWL	**WLMM085**	**11/05/2017**	4	WL
SLMM056	**11/05/2017**	11	SWL	**WLMM086**	**11/05/2017**	5	WL
WLMM004	**05/05/2017**	4	WL	**WLMM087**	**11/05/2017**	5	WL
		5	WL	**WLMM088**	**11/05/2017**	8	WL
WLMM007	**05/05/2017**	1	WL	**WLMM089**	**11/05/2017**	8	WL
	11/05/2017	6	WL				

6.4.3 Land-based Theodolite Tracking

Survey Effort

Land-based theodolite tracking surveys were conducted at LKC on 19th, 25th and 29th May 2017 and at SC on 17th and 22nd May 2017, with a total of five days of land-based theodolite tracking survey effort accomplished in this reporting month. In total, two CWD groups were tracked at LKC station during the surveys. Information of survey effort and CWD groups sighted during these land-based theodolite tracking surveys are presented in **Table 6.6**. Details of the survey effort and CWD groups tracked are presented in **Appendix C**. The first sighting locations of CWD groups tracked at LKC station during land-based theodolite tracking surveys in May 2017 were depicted in **Figure 6.4**. No CWD group was sighted from SC station in this reporting month.

Table 6.6: Summary of Survey Effort and CWD Group of Land-based Theodolite Tracking

Land-based Station	No. of Survey Sessions	Survey Effort (hh:mm)	No. of CWD Groups Sighted	CWD Group Sighting per Survey Hour
Lung Kwu Chau	3	18:00	2	0.11
Sha Chau	2	12:00	0	0
TOTAL	**5**	**30:00**	**2**	**0.07**

Figure 6.4: Plots of First Sightings of All CWD Groups obtained from Land-based Stations
[Green triangle: LKC station; Green square: CWD group off LKC; Blue line: SCLKCMP boundary]

6.5 Progress Update on Passive Acoustic Monitoring

Underwater acoustic monitoring using Passive Acoustic Monitoring (PAM) should be undertaken during land formation related construction works. In this reporting month, the Ecological Acoustic Recorder (EAR) has been retrieved and re-deployed on 13 May 2017 and positioned at south of Sha Chau Island with 20% duty cycle (**Figure 6.5**). The EAR deployment is generally for 4-6 weeks prior to data retrieval for analysis. Acoustic data is reviewed to give an indication of CWDs occurrence patterns and to obtain anthropogenic noise information simultaneously. Analysis (by a specialized team of acousticians) involved manually browsing through every acoustic recording and logging the occurrence of dolphin signals. All data will be re-played by computer as well as listened to by human ears for accurate assessment of dolphin group presence. As the period of data collection and analysis takes more than two months, PAM results could not be reported in monthly intervals.

6.6 Site Audit for CWD-related Mitigation Measures

During the reporting period, silt curtains were in place by the contractors for sand blanket laying works, in which dolphin observers were deployed by each contractor in accordance with the Marine Mammal Watching Plan (MMWP). Teams of at least two dolphin observers were deployed at 10 to 12 dolphin observation stations by the contractors for continuous monitoring of the Dolphin Exclusion Zone (DEZ) by all contractors for DCM and water jetting works for submarine cable diversion in accordance with the DEZ Plan. Trainings for the proposed dolphin observers on the implementation of MMWP and DEZ monitoring were provided by the ET prior to the aforementioned works, with a cumulative total of 327 individuals being trained and the training records kept by the ET. From the contractors' MMWP observation records and DEZ monitoring records, no dolphin or other marine mammals were observed within or around the silt curtains or the DEZs in this reporting month. These contractors' records were also audited by the ET during site inspection.

Audits of acoustic decoupling for construction vessels were carried out during weekly site inspection and the observations are summarised in **Section 7.1**. Audits of SkyPier high speed ferries route diversion and speed control and construction vessel management are presented in **Section 7.2** and **Section 7.3** respectively.

6.7 Timing of Reporting CWD Monitoring Results

Detailed analysis of CWD monitoring results collected by small vessel line-transect survey will be provided in future quarterly reports. Detailed analysis of CWD monitoring results collected by land-based theodolite tracking and PAM will be provided in future annual reports after a larger sample size of data has been collected.

6.8 Summary of CWD Monitoring

Monitoring of CWD was conducted with two complete sets of small vessel line-transect surveys and five days of land-based theodolite tracking survey effort as scheduled. The running quarterly encounter rates STG and ANI in the reporting month did not trigger the Action Level for CWD monitoring.

7 Environmental Site Inspection and Audit

7.1 Environmental Site Inspection

Weekly site inspections of the construction works for the advanced works contracts and DCM contracts were carried out by the ET to audit the implementation of proper environmental pollution control and mitigation measures for the Project. The weekly site inspection schedule of the construction works is provided in **Appendix B**. Bi-weekly site inspections were also conducted by the IEC. Observations have been recorded in the site inspection checklists and provided to the contractors together with the appropriate follow-up actions where necessary.

The key observations from site inspection and associated recommendations were related to provision and maintenance of drip trays and chemical waste storage area, as well as implementation of noise mitigation and dust suppression measures. In addition, recommendations were also provided during site inspection on barges, which included display of Non-road Mobile Machinery Label (NRMM) on generators; display of valid permits and licenses on barges; provision and maintenance of drip trays and spill kits; provision of proper storage area for general refuse, chemicals, and chemical waste; segregation of recyclables from general refuse; implementation of proper wastewater treatment, dust suppression measures, spill and runoff preventive measures, and dark smoke preventive measures; as well as proper installation and maintenance of silt curtains.

A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix A**.

7.2 Audit of Route Diversion and Speed Control of the SkyPier High Speed Ferries

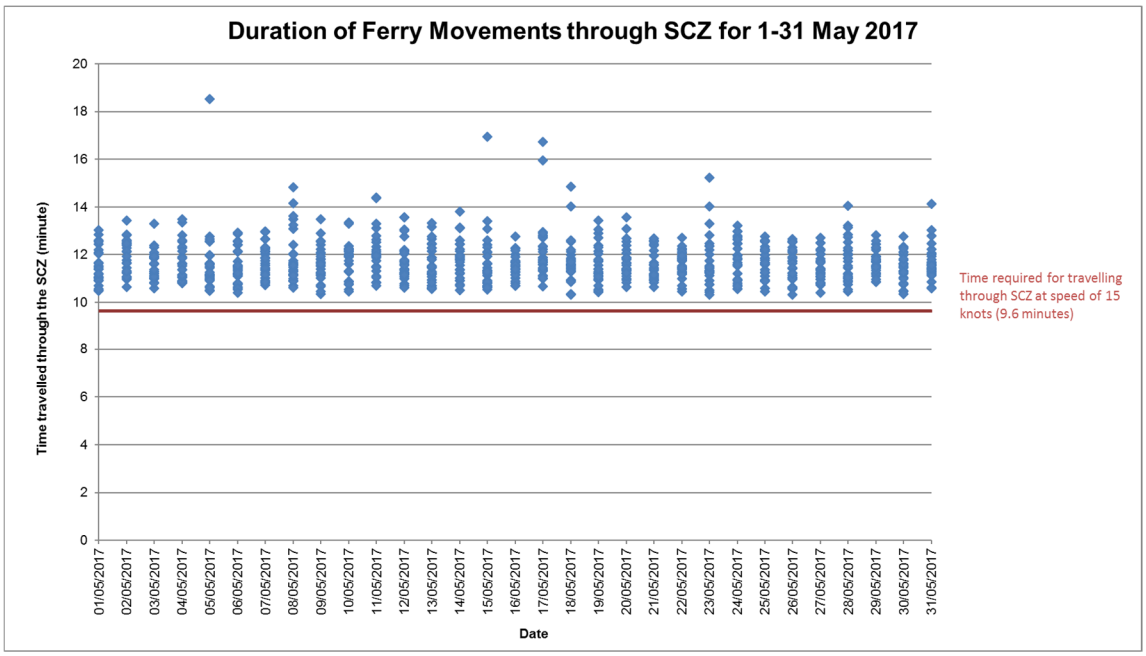
The Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan) was submitted to the Advisory Council on the Environment (ACE) for comment and subsequently submitted to and approved by EPD in November 2015 under EP Condition 2.10. The approved SkyPier Plan is available on the dedicated website of the Project. In the SkyPier Plan, AAHK has committed to implementing the mitigation measure of requiring high speed ferries (HSFs) of SkyPier travelling between HKIA and Zhuhai / Macau to start diverting the route with associated speed control across the area, i.e. Speed Control Zone (SCZ), with high CWD abundance. The route diversion and speed restriction at the SCZ have been implemented since 28 December 2015.

Key audit findings for the SkyPier HSFs travelling to/from Zhuhai and Macau against the requirements of the SkyPier Plan during the reporting period are summarized in **Table 7.1**. The daily movements of all SkyPier HSFs in May 2017 (i.e., 91 to 97 daily movements) were within the maximum daily cap of 125 daily movements. Status of compliance with the annual daily average of 99 movements will be further reviewed in the annual EM&A Report.

In total, 864 ferry movements between HKIA SkyPier and Zhuhai / Macau were recorded in May 2017 and the data are presented in **Appendix G**. The time spent by the SkyPier HSFs travelling through the SCZ in May 2017 were presented in **Figure 7-1**. It will take 9.6 minutes to travel through the SCZ when the SkyPier HSFs adopt the maximum allowable speed of 15 knots within

the SCZ. **Figure 7-1** shows that all of the SkyPier HSFs spent more than 9.6 minutes to travel through the SCZ.

Figure 7-1 Duration of the SkyPier HSFs travelling through the SCZ for May 2017



Note: Data above the red line indicated that the time spent by the SkyPier HSFs travelling through the SCZ is more than 9.6 minutes, which is in compliance with the SkyPier Plan.

Four ferries were recorded with minor deviation from the diverted route on 5, 13, 22 and 24 May 2017. Notices were sent to the ferry operator (FO) and the cases are under investigation by ET. The investigation result will be presented in the next monthly EM&A report

The cases of minor deviation from the diverted route recorded on 2, 8, 14 and 16 April 2017 were followed up after receiving information from the FO. For the cases on 2, 8 and 16 April 2017, ET's investigation found that the vessel captain had to give way to a vessel to ensure safety. After that, the HSF had returned to the normal route following the SkyPier Plan. The remaining minor route deviation case on 14 April 2017 was due to strong tidal wave and current. After that, the HSF had returned to the normal route immediately.

Table 7.1: Summary of Key Audit Findings against the SkyPier Plan

Requirements in the SkyPier Plan	1 May to 31 May 2017
Total number of ferry movements recorded and audited	864
Use diverted route and enter / leave SCZ through Gate Access Points	4 deviations, which are under investigation
Speed control in speed control zone	The average speeds taken within the SCZ of all HSFs were within 15 knots (7.8 knots to 14.0 knots), which complied with the SkyPier Plan. The time used by HSFs to travel through SCZ is presented in **Figure 7-1**.
Daily Cap (including all SkyPier HSFs)	91 to 97 daily movements (within the maximum daily cap - 125 daily movements).

7.3 Audit of Construction and Associated Vessels

The updated Marine Travel Routes and Management Plan for Construction and Associated Vessel (MTRMP-CAV) was submitted and approved in November 2016 by EPD under EP Condition 2.9. The approved Plan is available on the dedicated website of the Project.

ET carried out the following actions during the reporting period:

- Four skipper training sessions were held for contractors' concerned skippers of relevant construction vessels to familiarize them with the predefined routes; general education on local cetaceans; guidelines for avoiding adverse water quality impact; the required environmental practices / measures while operating construction and associated vessels under the Project; and guidelines for operating vessels safely in the presence of CWDs. The list of all trained skippers was properly recorded and maintained by ET.
- Five skipper training sessions were held by contractor's Environmental Officer. Competency test was subsequently conducted with the trained skippers by ET.
- 40 skippers were trained by ET and 8 skippers were trained by contractor's Environmental Officer in May 2017. In total, 659 skippers were trained from August 2016 to May 2017.
- The upgraded Marine Surveillance System (MSS) was launched in March 2017. The MSS automatically recorded deviation cases such as speeding, entering no entry zone, not traveling through the designated gate. ET conducted checking to ensure the MSS records deviation cases accurately.
- Deviations such as speeding in the works area, entering from non-designated gates and entering no-entry zones were identified. All the concerned contractors were reminded to comply with the requirements of the MTRMP-CAV during the bi-weekly MTCC audit.
- 3-month rolling programmes (one month record and two months forecast) for construction vessel activities were received from the contractors in order to help maintain the number of construction and associated vessels on site to a practicable minimal level.

The IEC of the Project had performed audit on the compliance of the requirements as part of the EM&A programme.

7.4 Implementation of Dolphin Exclusion Zone

The DEZ Plan was submitted in accordance with EP Condition 3.1 (v) requirement and Section 10.3 of the Updated EM&A Manual, and approved in April 2016 by EPD. The 24-hour DEZs with a 250m radius for marine works were established and implemented by the contractors for DCM and water jetting works for submarine cable diversion in accordance with the DEZ Plan.

During the reporting period, ET has been notified that no dolphins were sighted within the DEZ by the contractors. ET has checked the relevant records to audit the implementation of DEZ and followed up with contractors on improper practices in DEZ monitoring identified during site inspection.

7.5 Ecological Monitoring

In accordance with the Manual, ecological monitoring shall be undertaken monthly at the Horizontal Directional Drilling (HDD) daylighting location on Sheung Sha Chau Island during the HDD construction works period from August to March. Since the construction works on Sheung Sha Chau is suspended during the ardeid's breeding season between April to July, no ecological monitoring was carried out in this reporting period.

7.6 Status of Submissions under Environmental Permits

The current status of submissions under the EP up to the reporting period is presented in **Table 7.2**.

Table 7.2: Status of Submissions under Environmental Permit

EP Condition	Submission	Status
2.1	Complaint Management Plan	Accepted / approved by EPD
2.4	Management Organizations	
2.5	Construction Works Schedule and Location Plans	
2.7	Marine Park Proposal	
2.8	Marine Ecology Conservation Plan	
2.9	Marine Travel Routes and Management Plan for Construction and Associated Vessels	
2.10	Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier	
2.11	Marine Mammal Watching Plan	
2.12	Coral Translocation Plan	
2.13	Fisheries Management Plan	
2.14	Egretry Survey Plan	
2.15	Silt Curtain Deployment Plan	
2.17	Detailed Plan on Deep Cement Mixing	
2.16	Spill Response Plan	
2.19	Waste Management Plan	
3.1	Updated EM&A Manual	
3.4	Baseline Monitoring Reports	

7.7 Compliance with Other Statutory Environmental Requirements

During the reporting period, environmental related licenses and permits required for the construction activities were checked. No non-compliance with environmental statutory requirements was recorded. The environmental licenses and permits which are valid in the reporting month are presented in **Appendix E**.

7.8 Analysis and Interpretation of Complaints, Notification of Summons and Status of Prosecutions

7.8.1 Complaints

An environment-related complaint was received on 24 April 2017 regarding dolphin watching arrangement for implementation of Dolphin Exclusion Zone (DEZ) in area of Contract 3204 for the period since early March 2017. Investigation was conducted by the ET in accordance with the Updated EM&A Manual and the Complaint Management Plan (CMP) of the Project. The ET's review of checking records indicated that the DEZ monitoring arrangements of Contract 3204 for March and April 2017 were reviewed by the ET and IEC, based on the requirements of the DEZ Plan and prior to the Contractor's implementations and noted the arrangements had followed the DEZ Plan. Furthermore, the implementation of DEZ was checked by the ET on-site during the regular and ad-hoc site inspections for Contract 3204 and noted the site practices had followed the proposed DEZ monitoring arrangements and in line with the DEZ Plan. Based on the investigation results, it is concluded that the 3204 Contractor deployed sufficient dolphin watching arrangements for implementation of DEZ during March and April 2017 and had followed the DEZ

Plan. The complaint case was considered unfounded. Regular monitoring and mitigation measures will be continued.

Another environment-related complaint was received on 9 May 2017 regarding the intermittent release of exhaust air emissions from marine construction vessels of the Project. Investigation was conducted by the ET in accordance with the Manual and the CMP of the Project. The anonymous complainant did not provide any specific information (e.g. date/time) on the case or any details of the mentioned vessel types. There were no observations of dark smoke during ET's site inspection in May 2017. ET will continue the regular auditing involves weekly and ad-hoc site inspections to, among other matters, check for any dark smoke emission from construction vessels, and to inspect vessel's maintenance records. In case where dark smoke emission from a construction vessel is observed, the ET will require the concerned contractor to take immediate action to rectify the situation.

During the reporting period, another complaint was received on 22 May 2017 regarding discharges from construction vessel. The case is currently under investigation by the ET in accordance with the Manual and the CMP.

7.8.2 Notifications of Summons or Status of Prosecution

During the reporting period, neither notifications of summons nor prosecution were received.

7.8.3 Cumulative Statistics

Cumulative statistics on complaints, notifications of summons and status of prosecutions are summarized in **Appendix F**.

8 Future Key Issues and Other EIA & EM&A Issues

8.1 Construction Programme for the Coming Reporting Period

Key activities anticipated in the next reporting period for the Project will include the following:

Advanced Works:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

- HDD works; and
- Stockpiling of excavated materials from HDD operation.

DCM Works:

Contract 3201 to 3205 DCM Works

- Laying of geotextile and sand blanket; and
- DCM trials and works.

Reclamation Works:

Contract 3206 Main Reclamation Works

- Site office establishment; and
- Laying of sand blanket.

8.2 Key Environmental Issues for the Coming Reporting Period

The key environmental issues for the Project in the coming reporting period expected to be associated with the construction activities include:

- Generation of dust from construction works and stockpiles;
- Noise from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Water quality from laying of sand blankets and DCM works ;
- DEZ monitoring for DCM works and implementation of MMWP for silt curtain deployment by the contractors' dolphin observers;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Management of chemicals and avoidance of oil spillage on-site; and
- Acoustic decoupling measures for equipment on marine vessels.

The implementation of required mitigation measures by the contractors will be monitored by the ET.

8.3 Monitoring Schedule for the Coming Reporting Period

A tentative schedule of the planned environmental monitoring work in the next reporting period is provided in **Appendix B**.

9 Conclusion and Recommendation

The key activities of the Project carried out in the reporting period included five DCM contracts, two advanced works contracts, and a reclamation contract. The DCM contracts involved DCM works and trials, site office establishment, laying of geotextile and sand blanket; the advanced works contracts involved articulated pipes installation, post laid burial work and concrete protection slabs installation, and HDD works; and the reclamation contract involved site office establishment and laying of sand blanket.

All the monitoring works for construction dust, construction noise, water quality, construction waste and CWD were conducted during the reporting period in accordance with the Updated EM&A Manual.

No exceedance of the Action or Limit Levels in relation to construction noise, construction waste and CWD monitoring was recorded in the reporting month.

Three exceedances cases involving Limit Level of 1-hour TSP were recorded during the reporting period. The investigation results indicated that the exceedances were possibly due to the adverse ambient air quality, but not related to the Project.

The water quality monitoring results for DO, turbidity, total alkalinity, SS, and chromium obtained during the reporting period were in compliance with their corresponding Action and Limit Levels stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programmer if being exceeded. For nickel, some of the testing results exceeded the relevant Action or Limit Levels, and the corresponding investigations were conducted accordingly. The investigation findings concluded that the exceedances were not due to the Project.

Weekly site inspections of the construction works were carried out by the ET to audit the implementation of proper environmental pollution control and mitigation measures for the Project. Bi-weekly site inspections were also conducted by the IEC. Observations have been recorded in the site inspection checklists, including the observations on the conditions of silt curtains, which have been provided to the contractors together with the appropriate follow-up actions where necessary.

On the implementation of Marine Mammal Watching Plan, silt curtains were in place by the contractors for laying of sand blanket and dolphin observers were deployed in accordance with the plan. On the implementation of DEZ Plan, dolphin observers at 10 to 12 dolphin observation stations were deployed for continuous monitoring of the DEZ by all contractors for DCM and water jetting works for submarine cable diversion in accordance with the DEZ Plan. Trainings for the proposed dolphin observers were provided by the ET prior to the aforementioned works, with the training records kept by the ET. From the contractors' MMWP observation records and DEZ monitoring records, no dolphin or other marine mammals were observed within or around the silt curtains, and no dolphins were sighted within the DEZ. These contractors' records were checked by the ET during site inspection. Audits of acoustic decoupling for construction vessels were also carried out by the ET.

On the implementation of the Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan), the daily movements of all SkyPier high speed ferries (HSFs) in May 2017 were in the range of 91 to 97 daily movements, which are within the maximum daily

cap of 125 daily movements. A total of 864 HSF movements under the SkyPier Plan were recorded in the reporting period. All HSFs had travelled through the Speed Control Zone (SCZ) with average speeds under 15 knots (7.8 to 14.0 knots), which were in compliance with the SkyPier Plan. Four ferry movements with minor deviation from the diverted route are under investigation by ET. The investigation result will be presented in the next monthly EM&A report. In summary, the ET and IEC have audited the HSF movements against the SkyPier Plan and conducted follow up investigation or actions accordingly.

On the implementation of the Marine Travel Routes and Management Plan for Construction and Associated Vessel (MTRMP-CAV), the upgraded Marine Surveillance System (MSS) was launched in March 2017. The MSS automatically recorded the deviation case such as speeding, entering no entry zone, not traveling through the designated gate. ET conducted checking to ensure the MSS records all deviation cases accurately. Training has been provided for the concerned skippers to facilitate them in familiarising with the requirements of the MTRMP-CAV. ET reminded contractors that all vessels shall avoid entering the Brothers Marine Park, which has been designated since 30 December 2016. 3-month rolling programmes for construction vessel activities were also received from contractors.

Figures

824000 N
822000 N
820000 N
818000 N
804000 E
806000 E
808000 E
810000 E
812000 E
814000 E

LEGEND:

- LAND FORMATION
- TEMPORARY WORKS AREA BOUNDARY
- KEY CONSTRUCTION ACTIVITIES
- PROPOSED 11kV SUBMARINE CABLE DIVERSION

RECLAMATION WORKS AREA
(please refer to FIGURE 1.2)

Contract 3212 –
11kV Submarine Cable Diversion

Contract P560(R) –
Launching Site

Contract 3201–3206
and AAHK Site Offices

Contract P560(R) – Site Office

Contract P560(R) – Stockpiling Area

白洲 PAK CHAU

沙洲 SHA CHAU

大鼓洲 TAI MO TO

東涌 TUNG CHUNG

0 250 500 750 1000 m
1 : 30 000 SCALE BAR

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MOTT MACDONALD

Title

LOCATIONS OF KEY CONSTRUCTION ACTIVITIES IN THIS REPORTING PERIOD

Consultant's Signatures for Approval		Date
Design	JC	11MAY17
Checkers	JC / TK	11MAY17
Approver	EC	11MAY17

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No. FIGURE 1.1

Scale at A3 1 : 30000

Rev. B

Filename: J:\355482\REPORT\ENV\CWSLP\FIG 1.1.dgn

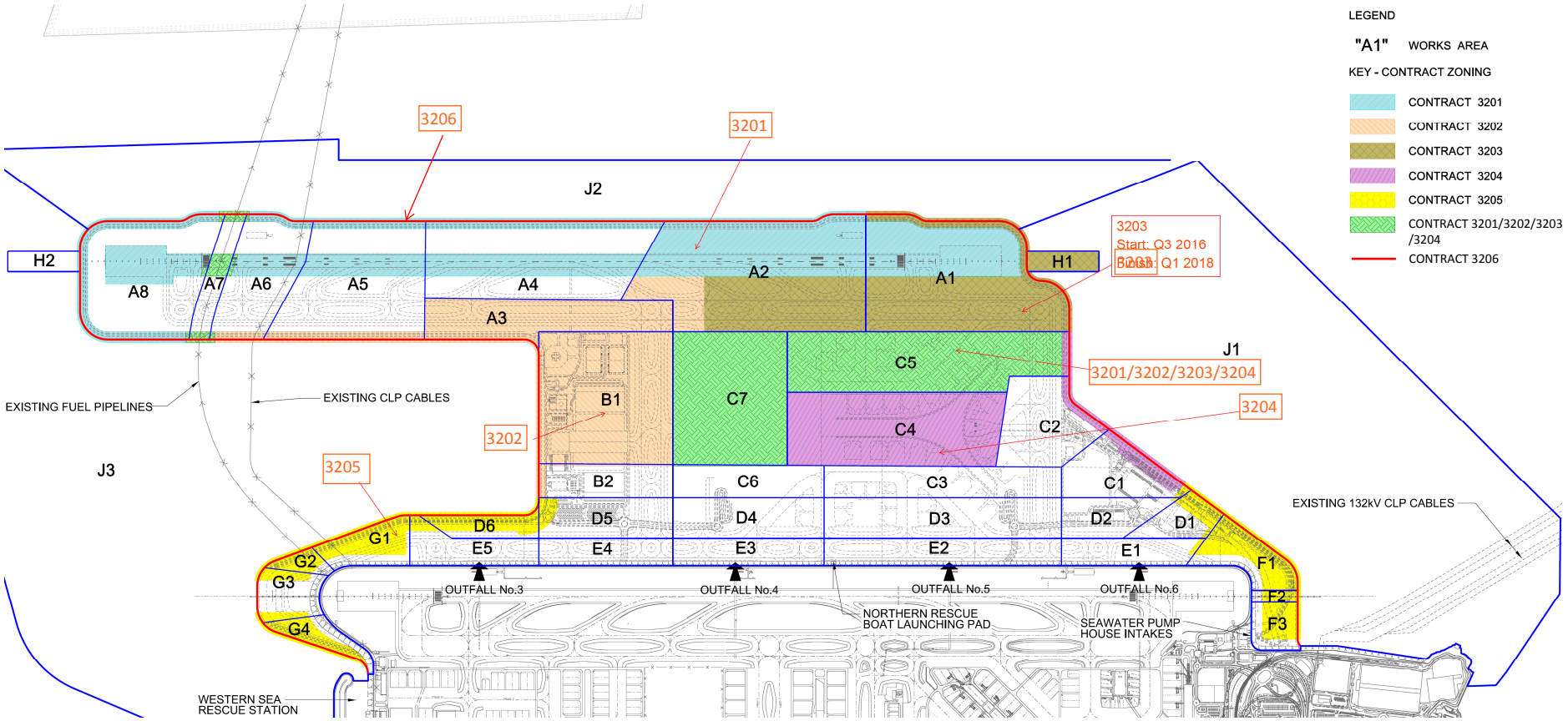

FIGURE 1.2- LOCATIONS OF RECLAMATION WORKS AREA

LEGEND:

- RECLAMATION AREA
- NOISE MONITORING STATION (UPDATED EM&A MANUAL)
- AIR QUALITY MONITORING STATION (UPDATED EM&A MANUAL)
- CHEK LAP KOK WIND STATION

806000 E
808000 E
810000 E
812000 E
814000 E
820000 N
818000 N

NM1A AR1A
NM2
NM3A
NM4
NM5 AR2
NM6

0 200 400 600 800 1000 m
1 : 22 500 SCALE BAR

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Title

LOCATIONS OF AIR AND NOISE MONITORING STATIONS AND CHEK LAP KOK WIND STATION

Consultant's Signatures for Approval		Date
Design	AM	11FEB16
Checkers	AM / TK	11FEB16
Approver	EC	11FEB16

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No.

FIGURE 2.1

Scale at A3 1 : 22500

Rev. C

Filename: J:\355482\REPORT\ENV\EMA\160211\FIG 2.1.dgn

805000 E
810000 E
815000 E
820000 E
825000 N
820000 N
815000 N

HKSAR BOUNDARY

C1
C2
C3

IM1
IM2
IM3
IM4
IM5
IM6
IM7
IM8
IM9
IM10
IM11
IM12
IM13

SR2
SR3
SR4A
SR5A
SR6
SR7
SR8

LEGEND:

- LAND FORMATION FOOTPRINT
- 500m ENVELOPE
- IMPACT STATION
- SENSITIVE RECEIVER
- CONTROL STATION
- MOBILE IMPACT STATION

0 500 1000 1500 2000 m
1 : 60 000 SCALE BAR

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Mott MacDonald

Title

WATER QUALITY MONITORING STATIONS

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EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No.

FIGURE 3.1

Scale at A3 1 : 60000

Rev. C

Filename: J:\355482\REPORT\ENV\EMA\160606\MCL-P132-EMA-5-002.dgn

800000 E
805000 E
810000 E
815000 E
820000 E
825000 E
830000 E
835000 E
840000 E
845000 E
830000 N
825000 N
820000 N
815000 N
810000 N
805000 N

NORTHWEST LANTAU
NORTHEAST LANTAU
SOUTHWEST LANTAU
AIRPORT WEST
WEST LANTAU

LEGEND:
- HKSAR BOUNDARY
- LAND FORMATION FOOTPRINT
- TEMPORARY WORKS AREA BOUNDARY
- DOLPHIN VESSEL SURVEY TRANSECT ROUTE
- DOLPHIN VESSEL SURVEY TRANSECT ROUTE

Remarks: Transects for operation phase monitoring subject to refinement based on the actual boundaries for the extension of Hong Kong International Airport Approach Areas (HKIAAA) and 3RS Marine Park

0 1 2 3 4 km
1 : 125 000 SCALE BAR

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Title
VESSEL BASED DOLPHIN MONITORING TRANSECTS IN CONSTRUCTION, POST-CONSTRUCTION AND OPERATION PHASES

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Design	JC	01MAR17
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EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No. FIGURE 6.1

Scale at A3 1 : 125000

Rev. D

Filename: J:\355482\REPORT\ENV\EMA\170301\MCL-P132-EMA-10-003.dgn

804000 E
806000 E
808000 E
810000 E
812000 E
814000 E
816000 E
818000 E
820000 N
822000 N
824000 N
826000 N

E
D

RAMSTON ROAD

沙洲及龍鼓洲海岸公園
SHA CHAU AND LUNG KWU CHAU MARINE PARK

HKSAR BOUNDARY

LEGEND:
- LAND FORMATION FOOTPRINT
- HONG KONG INTERNATIONAL AIRPORT
- LAND BASED SURVEY LOCATION

0 500 1000 1500 2000 m
1 : 45,000 SCALE BAR

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Title

LAND BASED DOLPHIN MONITORING IN BASELINE AND CONSTRUCTION PHASES

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EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

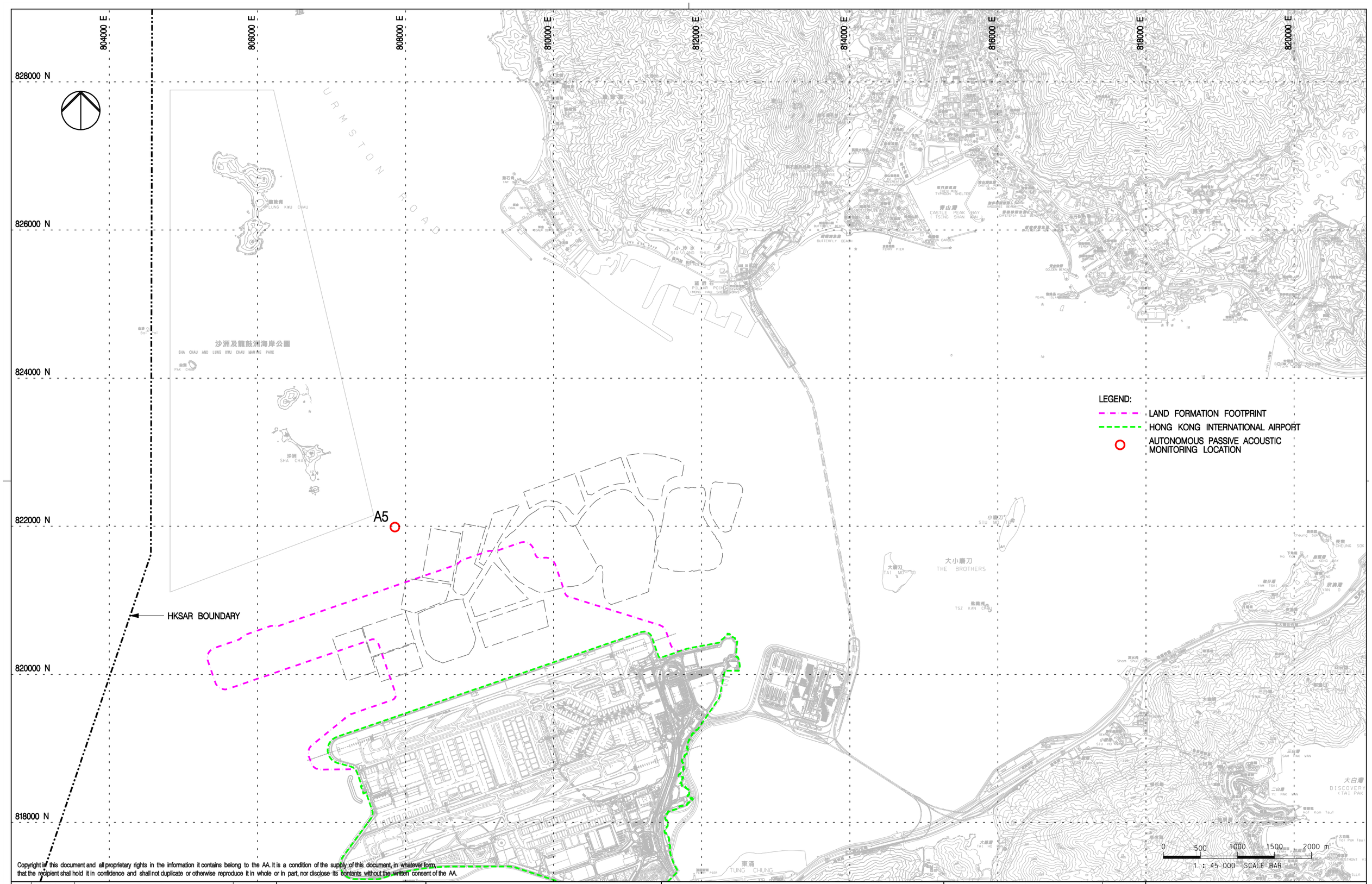
Drawing No.

FIGURE 6.2

Scale at A3 1 : 45000

Rev. B

Filename: J:\355482\REPORT\ENV\EMA\170206\MCL-P132-EMA-10-004.dgn



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Title

LOCATIONS FOR AUTONOMOUS PASSIVE ACOUSTIC MONITORING IN BASELINE AND CONSTRUCTION PHASES

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EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No. FIGURE 6.5

Scale at A3 1 : 45000

Rev. B

Filename: J:\355482\REPORT\ENV\EMA\170206\MCL-P132-EMA-10-005.dgn

Appendix A. Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

Appendix A Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Air Quality Impact – Construction Phase		
5.2.6.2	2.1	-	**Dust Control Measures** ▪ Water spraying for 12 times a day or once every two hours for 24-hour working at all active works area.	Within construction site / Duration of the construction phase	I
5.2.6.3	2.1	-	▪ Covering of at least 80% of the stockpiling area by impervious sheets. Water spraying of all dusty materials immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling.	Within construction site / Duration of the construction phase	I
5.2.6.4	2.1	-	Dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted. These practices include: Good Site Management ▪ Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.	Within construction site / Duration of the construction phase	I
			Disturbed Parts of the Roads ▪ Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or ▪ Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.	Within construction site / Duration of the construction phase	I
			Exposed Earth ▪ Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies.	Within construction site / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Loading, Unloading or Transfer of Dusty Materials ▪ All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.	Within construction site / Duration of the construction phase	I
			Debris Handling ▪ Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides; and ▪ Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.	Within construction site / Duration of the construction phase	I
			Transport of Dusty Materials ▪ Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards.	Within construction site / Duration of the construction phase	I
			Wheel washing ▪ Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.	Within construction site / Duration of the construction phase	I
			Use of vehicles ▪ The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site; ▪ Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels; and ▪ Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.	Within construction site / Duration of the construction phase	I
			Site hoarding ▪ Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.	Within construction site / Duration of the construction phase	I
5.2.6.5	2.1	-	**Best Practices for Concrete Batching Plant** The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2 as well as in the future Specified Process licence should be adopted. The best practices are recommended to be applied to both the land based and floating concrete batching plants. Best practices include: Cement and other dusty materials	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ The loading, unloading, handling, transfer or storage of cement, pulverised fuel ash (PFA) and/or other equally dusty materials shall be carried in a totally enclosed system acceptable to EPD. All dust-laden air or waste gas generated by the process operations shall be properly extracted and vented to fabric filtering system to meet the required emission limit; ▪ Cement, PFA and/or other equally dusty materials shall be stored in storage silo fitted with audible high level alarms to warn of over-filling. The high-level alarm indicators shall be interlocked with the material filling line such that in the event of the silo approaching an overfilling condition, an audible alarm will operate, and after 1 minute or less the material filling line will be closed; ▪ Vents of all silos shall be fitted with fabric filtering system to meet the required emission limit; ▪ Vents of cement/PFA weighing scale shall be fitted with fabric filtering system to meet the required emission limit; and ▪ Seating of pressure relief valves of all silos shall be checked, and the valves re-seated if necessary, before each delivery.		
			Other raw materials ▪ The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rock, sand, stone aggregate, shall be carried out in such a manner to prevent or minimize dust emissions; ▪ The materials shall be adequately wetted prior to and during the loading, unloading and handling operations. Manual or automatic water spraying system shall be provided at all unloading areas, stock piles and material discharge points; ▪ All receiving hoppers for unloading relevant materials shall be enclosed on three sides up to 3 m above the unloading point. In no case shall these hoppers be used as the material storage devices; ▪ The belt conveyor for handling materials shall be enclosed on top and two sides with a metal board at the bottom to eliminate any dust emission due to wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can achieve same performance; ▪ All conveyor transfer points shall be totally enclosed. Openings for the passage of conveyors shall be fitted with adequate flexible seals; ▪ Scrapers shall be provided at the turning points of all conveyors to remove dust adhered to the belt surface; ▪ Conveyors discharged to stockpiles of relevant materials shall be arranged to minimize free fall as far as practicable. All free falling transfer points from conveyors to stockpiles shall be enclosed with chute(s) and water sprayed; ▪ Aggregates with a nominal size less than or equal to 5 mm should be stored in totally enclosed structure such as storage bin and should not be handled in open area. Where there is sufficient buffer area surrounding the concrete batching plant, ground stockpiling may be used;	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ The stockpile shall be enclosed at least on top and three sides and with flexible curtain to cover the entrance side; ▪ Aggregates with a nominal size greater than 5 mm should preferably be stored in a totally enclosed structure. If open stockpiling is used, the stockpile shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping; and ▪ The opening between the storage bin and weighing scale of the materials shall be fully enclosed.		
			Loading of materials for batching ▪ Concrete truck shall be loaded in such a way as to minimise airborne dust emissions. The following control measures shall be implemented: (a) Pre-mixing the materials in a totally enclosed concrete mixer before loading the materials into the concrete truck is recommended. All dust-laden air generated by the pre-mixing process as well as the loading process shall be totally vented to fabric filtering system to meet the required emission limit; and (b) If truck mixing batching or other types of batching method is used, effective dust control measures acceptable to EPD shall be adopted. The dust control measures must have been demonstrated to EPD that they are capable to collect and vent all dust-laden air generated by the material loading/mixing to dust arrestment plant to meet the required emission limit. ▪ The loading bay shall be totally enclosed during the loading process.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Vehicles ▪ All practicable measures shall be taken to prevent or minimize the dust emission caused by vehicle movement; and ▪ All access and route roads within the premises shall be paved and adequately wetted.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Housekeeping ▪ A high standard of housekeeping shall be maintained. All spillages or deposits of materials on ground, support structures or roofs shall be cleaned up promptly by a cleaning method acceptable to EPD. Any dumping of materials at open area shall be prohibited.	Within Concrete Batching Plant / Duration of the construction phase	N/A
5.2.6.6	2.1	-	**Best Practices for Asphaltic Concrete Plant** The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Tar and Bitumen Works (Asphaltic Concrete Plant) BPM 15 (94) as well as in the future Specified Process licence should be adopted. These include: Design of Chimney ▪ The chimney shall not be less than 3 metres plus the building height or 8 metres above ground level, whichever is the greater; ▪ The efflux velocity of gases from the main chimney shall not be less than 12 m/s at full load condition;	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ The flue gas exit temperature shall not be less than the acid dew point; and ▪ Release of the chimney shall be directed vertically upwards and not be restricted or deflected.		
			Cold feed side ▪ The aggregates with a nominal size less than or equal to 5 mm shall be stored in totally enclosed structure such as storage bin and shall not be handled in open area; ▪ Where there is sufficient buffer area surrounding the plant, ground stockpiling may be used. The stockpile shall be enclosed at least on top and three sides and with flexible curtain to cover the entrance side. If these aggregates are stored above the feeding hopper, they shall be enclosed at least on top and three sides and be wetted on the surface to prevent wind-whipping; ▪ The aggregates with a nominal size greater than 5 mm should preferably be stored in totally enclosed structure. Aggregates stockpile that is above the feeding hopper shall be enclosed at least on top and three sides. If open stockpiling is used, the stockpiles shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping; ▪ Belt conveyors shall be enclosed on top and two sides and provided with a metal board at the bottom to eliminate any dust emission due to the wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can be achieve the same performance; ▪ Scrapers shall be provided at the turning points of all belt conveyors inside the chute of the transfer points to remove dust adhered to the belt surface; ▪ All conveyor transfer points shall be totally enclosed. Openings for the passages of conveyors shall be fitted with adequate flexible seals; and ▪ All materials returned from dust collection system shall be transferred in enclosed system and shall be stored inside bins or enclosures.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Hot feed side ▪ The inlet and outlet of the rotary dryer shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter. The particulate and gaseous concentration at the exhaust outlet of the dust collector shall not exceed the required limiting values; ▪ The bucket elevator shall be totally enclosed and the air be extracted and ducted to a dust collection system to meet the required particulates limiting value; ▪ All vibratory screens shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings; ▪ Chutes for carrying hot material shall be rigid and preferably fitted with abrasion resistant plate inside. They shall be inspected daily for leakages;	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ All hot bins shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings. The air shall be extracted and ducted to a dust collection system to meet the required particulates limiting value; and ▪ Appropriate control measures shall be adopted in order to meet the required bitumen emission limit as well as the ambient odour level (2 odour units).		
			Material transportation ▪ The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rocks, sands, stone aggregates, reject fines, shall be carried out in such a manner as to minimize dust emissions; ▪ Roadways from the entrance of the plant to the product loading points and/or any other working areas where there are regular movements of vehicles shall be paved or hard surfaced; and ▪ Haul roads inside the Works shall be adequately wetted with water and/or chemical suppressants by water trucks or water sprayers.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Control of emissions from bitumen decanting ▪ The heating temperature of the particular bitumen type and grade shall not exceed the corresponding temperature limit of the same type listed in Appendix 1 of the Guidance Note; ▪ Tamper-free high temperature cut-off device shall be provided to shut off the fuel supply or electricity in case the upper limit for bitumen temperature is reached; ▪ Proper chimney for the discharge of bitumen fumes shall be provided at high level; ▪ The emission of bitumen fumes shall not exceed the required emission limit; and The air-to-fuel ratio shall be properly controlled to allow complete combustion of the fuel. The fuel burners, if any, shall be maintained properly and free from carbon deposits in the burner nozzles.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Liquid fuel ▪ The receipt, handling and storage of liquid fuel shall be carried out so as to prevent the release of emissions of organic vapours and/or other noxious and offensive emissions to the air.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Housekeeping ▪ A high standard of housekeeping shall be maintained. Waste material, spillage and scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared frequently. The minimum clearing frequency is on a weekly basis.	Within Concrete Batching Plant / Duration of the construction phase	N/A
5.2.6.7	2.1	-	**Best Practices for Rock Crushing Plants** The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Mineral Works (Stone Crushing Plant) BPM 11/1 (95) as well as in the future Specified Process licence should be adopted. These include:	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Crushers ▪ The outlet of all primary crushers, and both inlet and outlet of all secondary and tertiary crushers, if not installed inside a reasonably dust tight housing, shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter; ▪ The inlet hopper of the primary crushers shall be enclosed on top and 3 sides to contain the emissions during dumping of rocks from trucks. The rock while still on the trucks shall be wetted before dumping; ▪ Water sprayers shall be installed and operated in strategic locations at the feeding inlet of crushers; and ▪ Crusher enclosures shall be rigid and be fitted with self-closing doors and close-fitting entrances and exits. Where conveyors pass through the crusher enclosures, flexible covers shall be installed at entries and exits of the conveyors to the enclosure.		
			Vibratory screens and grizzlies ▪ All vibratory screens shall be totally enclosed in a housing. Screenhouses shall be rigid and reasonably dust tight with self-closing doors or close-fitted entrances and exits for access. Where conveyors pass through the screenhouse, flexible covers shall be installed at entries and exits of the conveyors to the housing. Where containment of dust within the screenhouse structure is not successful then a dust extraction and collection system shall be provided; and ▪ All grizzlies shall be enclosed on top and 3 sides and sufficient water sprayers shall be installed at their feeding and outlet areas.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Belt conveyors ▪ Except for those conveyors which are placed within a totally enclosed structure such as a screenhouse or those erected at the ground level, all conveyors shall be totally enclosed with windshield on top and 2 sides; ▪ Effective belt scraper such as the pre-cleaner blades made by hard wearing materials and provided with pneumatic tensioner, or equivalent device, shall be installed at the head pulley of designated conveyor as required to dislodge fine dust particles that may adhere to the belt surface and to reduce carry-back of fine materials on the return belt. Bottom plates shall also be provided for the conveyor unless it has been demonstrated that the corresponding belt scraper is effective and well maintained to prevent falling material from the return belt; and ▪ Except for those transfer points which are placed within a totally enclosed structure such as a screenhouse, all transfer points to and from conveyors shall be enclosed. Where containment of dust within the enclosure is not successful, then water sprayers shall be provided. Openings for any enclosed structure for the passage of conveyors shall be fitted with flexible seals.	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Storage piles and bins ▪ Where practicable, free falling transfer points from conveyors to stockpiles shall be fitted with flexible curtains or be enclosed with chutes designed to minimize the drop height. Water sprays shall also be used where required. ▪ The surface of all surge piles and stockpiles of blasted rocks or aggregates shall be kept sufficiently wet by water spraying wherever practicable; ▪ All open stockpiles for aggregates of size in excess of 5 mm shall be kept sufficiently wet by water spraying where practicable; or ▪ The stockpiles of aggregates 5 mm in size or less shall be enclosed on 3 sides or suitably located to minimize wind-whipping. Save for fluctuations in stock or production, the average stockpile shall stay within the enclosure walls and in no case the height of the stockpile shall exceed twice the height of the enclosure walls. ▪ Scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared regularly.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Rock drilling equipment ▪ Appropriate dust control equipment such as a dust extraction and collection system shall be used during rock drilling activities.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Hazard to Human Life – Construction Phase		
Table 6.40	3.2	-	▪ Precautionary measures should be established to request barges to move away during typhoons.	Construction Site / Construction Period	I
Table 6.40	3.2	-	▪ An appropriate marine traffic management system should be established to minimize risk of ship collision.	Construction Site / Construction Period	I
Table 6.40	3.2	-	▪ Location of all existing hydrant networks should be clearly identified prior to any construction works.	Construction Site / Construction Period	N/A
			Noise Impact – Construction Phase		
7.5.6	4.3	-	**Good Site Practice** Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction: ▪ only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; ▪ machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum;	Within the Project site / During construction phase / Prior to commencement of operation	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; ▪ mobile plant should be sited as far away from NSRs as possible; and ▪ material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.		
7.5.6	4.3	-	**Adoption of QPME** ▪ QPME should be adopted as far as applicable.	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	**Use of Movable Noise Barriers** ▪ Movable noise barriers should be placed along the active works area and mobile plants to block the direct line of sight between PME and the NSRs.	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	**Use of Noise Enclosure/ Acoustic Shed** ▪ Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator.	Within the Project site / During construction phase / Prior to commencement of operation	I
			Water Quality Impact – Construction Phase		

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
8.8.1.2 and 8.8.1.3	5.1	2.26	**Marine Construction Activities** <u>General Measures to be Applied to All Works Areas</u> ▪ Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; ▪ Use of Lean Material Overboard (LMOB) systems shall be prohibited; ▪ Excess materials shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessels are moved; ▪ Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly; ▪ 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; ▪ 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; and ▪ For ground improvement activities including DCM, the wash water from cleaning of the drilling shaft should be appropriately treated before discharge. The Contractor should ensure the waste water meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted.	Within construction site / Duration of the construction phase	I
			<u>Specific Measures to be Applied to All Works Areas</u> ▪ The daily maximum production rates shall not exceed those assumed in the water quality assessment in the EIA report; ▪ A maximum of 10 % fines content to be adopted for sand blanket and 20 % fines content for marine filling below +2.5 mPD prior to substantial completion of seawall (until end of Year 2017) shall be specified in the works contract document;	Within construction site / Duration of the construction phase	I
			▪ An advance seawall of at least 200m to be constructed (comprising either rows of contiguous permanent steel cells completed above high tide mark or partially completed seawalls with rock core to high tide mark and filter layer on the inner side) prior to commencement of marine filling activities;		N/A
			▪ Closed grab dredger shall be used to excavate marine sediment; ▪ Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and		N/A *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ The Silt Curtain Deployment Plan shall be implemented.		I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<u>Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling Works</u> ▪ Double layer 'Type III' silt curtains to be applied around the active eastern works areas prior to commencement of sand blanket laying activities. The silt curtains shall be configured to minimise SS release during ebb tides. A silt curtain efficiency test shall be conducted to validate the performance of the silt curtains;	Within construction site / Duration of the construction phase	NA *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ Double layer silt curtains to enclose WSRs C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of construction; and		For C7a, I For C8, N/A *(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ The silt curtains and silt screens should be regularly checked and maintained.		I
			<u>Specific Measures to be Applied to Land Formation Activities during Marine Filling Works</u> ▪ Double layer 'Type II' or 'Type III' silt curtains to be applied around the eastern openings between partially completed seawalls prior to commencement of marine filling activities. The silt curtains shall be configured to minimise SS release during ebb tides;	Within construction site / Duration of the construction phase	N/A *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ Double layer silt curtains to be applied at the south-western opening prior to commencement of marine filling activities;		N/A *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ Double layer silt curtain to enclose WSR C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of marine filling activities; and		N/A *(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ The silt curtains and silt screens should be regularly checked and maintained.		N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion ▪ Only closed grabs designed and maintained to avoid spillage shall be used and should seal tightly when operated. Excavated materials shall be disposed at designated marine disposal area in accordance with the Dumping and Sea Ordinance (DASO) permit conditions; and ▪ Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure.	Within construction site / Duration of the construction phase	N/A
8.8.1.4	5.1	-	**Modification of the Existing Seawall** ▪ Silt curtains shall be deployed around the seawall modification activities to completely enclose the active works areas, and care should be taken to avoid splashing of rockfill / rock armour into the surrounding marine environment. For the connecting sections with the existing outfalls, works for these connection areas should be undertaken during the dry season in order that individual drainage culvert cells may be isolated for interconnection works.	At the existing northern seawall / Duration of the construction phase	N/A
8.8.1.5	5.1	-	**Construction of New Stormwater Outfalls and Modifications to Existing Outfalls** ▪ During operation of the temporary drainage channel, runoff control measures such as bunding or silt fence shall be provided on both sides of the channel to prevent accumulation and release of SS via the temporary channel. Measures should also be taken to minimise the ingress of site drainage into the culvert excavations.	Within construction site / Duration of the construction phase	N/A
8.8.1.6 8.8.1.7	5.1	2.27	**Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons** Silt curtains shall be deployed around the piling activities to completely enclose the piling works and care should be taken to avoid spillage of excavated materials into the surrounding marine environment. For construction of the eastern approach lights at the CMPs ▪ Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works; ▪ Steel casings shall be installed to enclose the excavation area prior to commencement of excavation; ▪ The excavated materials shall be removed using a closed grab within the steel casings; ▪ No discharge of the cement mixed materials into the marine environment will be allowed; and ▪ Excavated materials shall be treated and reused on-site.	Within construction site / Duration of the construction phase	N/A
8.8.1.8	5.1	-	**Construction of Site Runoff and Drainage** The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended: ▪ Install perimeter cut-off drains to direct off-site water around the site and implement internal drainage, erosion and sedimentation control facilities. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site	Within construction site / Duration of the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			drainage system should be undertaken by the Contractors prior to the commencement of construction (for works areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform);		
			▪ Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction;		I
			▪ All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly;		I
			▪ Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities;		N/A
			▪ In the event that contaminated groundwater is identified at excavation areas, this should be treated on-site using a suitable wastewater treatment process. The effluent should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge to foul sewers or collected for proper disposal off-site. No direct discharge of contaminated groundwater is permitted; and		N/A
			▪ All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exits. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. All washwater should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge.		I
8.8.1.9	5.1	-	**Sewage Effluent from Construction Workforce** ▪ Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	Within construction site / During construction phase	I
8.8.1.10 8.8.1.11	5.1		**General Construction Activities** ▪ Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used; and	Within construction site / During construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.		
8.8.1.12 8.8.1.13	5.1	2.28	**Drilling Activities for the Submarine Aviation Fuel Pipelines** To prevent potential water quality impacts at Sha Chau, the following measures shall be applied: ▪ A 'zero-discharge' policy shall be applied for all activities to be conducted at Sha Chau; ▪ No bulk storage of chemicals shall be permitted; and ▪ A containment pit shall be constructed around the drill holes. This containment pit shall be lined with impermeable lining and bunded on the outside to prevent inflow from off-site areas.	Within construction site / During construction phase	I
			At the airport island side of the drilling works, the following measures shall be applied for treatment of wastewater: ▪ During pipe cleaning, appropriate desilting or sedimentation device should be provided on site for treatment before discharge. The Contractor should ensure discharge water from the sedimentation tank meet the WPCO/TM requirements before discharge; and ▪ Drilling fluid used in drilling activities should be reconditioned and reused as far as possible. Temporary enclosed storage locations should be provided on-site for any unused chemicals that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.	Within construction site / During construction phase	I
			Waste Management Implication – Construction Phase		
10.5.1.1	7.1	-	Opportunities to minimise waste generation and maximise the reuse of waste materials generated by the project have been incorporated where possible into the planning, design and construction stages, and the following measures have been recommended: ▪ The relevant construction methods (particularly for the tunnel works) and construction programme have been carefully planned and developed to minimise the extent of excavation and to maximise the on-site reuse of inert C&D materials generated by the project as far as practicable. Temporary stockpiling areas will also be provided to facilitate on-site reuse of inert C&D materials;	Project Site Area / During design and construction phase	I
			▪ Priority should be given to collect and reuse suitable inert C&D materials generated from other concurrent projects and the Government's PFRF as fill materials for the proposed land formation works;		I
			▪ Only non-dredged ground improvement methods should be adopted in order to completely avoid the need for dredging and disposal of marine sediment for the proposed land formation work;		I
			▪ Excavation work for constructing the APM tunnels, BHS tunnels and airside tunnels will not be down to the CMPs beneath the fill materials in order to avoid excavating any sediments; and		N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ For the marine sediments expected to be excavated from the piling works of TRC, APM & BHS tunnels, airside tunnels and other facilities on the proposed land formation area, piling work of marine sections of the approach lights and HKIAAA beacons, basement works for some of T2 expansion area and excavation works for the proposed APM depot should be treated and reused on-site as backfilling materials, although required treatment level / detail and the specific re-use mode are under development.		N/A
10.5.1.1	7.1	-	The following good site practices should be performed during the construction activities include: ▪ Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; ▪ Training of site personnel in proper waste management and chemical waste handling procedures; ▪ Provision of sufficient waste disposal points and regular collection for disposal; ▪ Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks by tarpaulin/ similar material or by transporting wastes in enclosed containers. The cover should be extended over the edges of the sides and tailboards; ▪ Stockpiles of C&D materials should be kept wet or covered by impervious sheets to avoid wind-blown dust; ▪ All dusty materials including C&D materials should be sprayed with water immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling at the barging points/ stockpile areas; ▪ C&D materials to be delivered to and from the project site by barges or by trucks should be kept wet or covered to avoid wind-blown dust; ▪ The speed of the trucks including dump trucks carrying C&D or waste materials within the site should be controlled to about 10 km/hour in order to reduce the adverse dust impact and secure the safe movement around the site; and ▪ To avoid or minimise dust emission during transport of C&D or waste materials within the site, each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials. Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.	Project Site Area / Construction Phase	I
10.5.1.3	7.1	-	The following practices should be performed to achieve waste reduction include: ▪ Use of steel or aluminium formworks and falseworks for temporary works as far as practicable; ▪ Adoption of repetitive design to allow reuse of formworks as far as practicable; ▪ Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;	Project Site Area / Construction Phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force; ▪ Any unused chemicals or those with remaining functional capacity should be collected for reused as far as practicable; ▪ Proper storage and site practices to minimise the potential for damage or contamination of construction materials; and ▪ Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.		
10.5.1.5	7.1		▪ Inert and non-inert C&D materials should be handled and stored separately to avoid mixing the two types of materials.	Project Site Area / Construction Phase	I
10.5.1.5	7.1	-	▪ Any recyclable materials should be segregated from the non-inert C&D materials for collection by reputable licensed recyclers whereas the non-recyclable waste materials should be disposed of at the designated landfill site by a reputable licensed waste collector.	Project Site Area / Construction Phase	I
10.5.1.6	7.1	-	▪ A trip-ticket system promulgated shall be developed in order to monitor the off-site delivery of surplus inert C&D materials that could not be reused on-site for the proposed land formation work at the PFRF and to control fly tipping.	Project Site Area / Construction Phase	I
10.5.1.6	7.1	2.32	▪ The Contractor should prepare and implement a Waste Management Plan detailing various waste arising and waste management practices.	Construction Phase	I
10.5.1.16	7.1	-	The following mitigation measures are recommended during excavation and treatment of the sediments: ▪ On-site remediation should be carried out in an enclosed area in order to minimise odour/dust emissions; ▪ The loading, unloading, handling, transfer or storage of treated and untreated sediment should be carried out in such a manner to prevent or minimise dust emissions; ▪ All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission; ▪ Good housekeeping should be maintained at all times at the sediment treatment facility and storage area; ▪ Treated and untreated sediment should be clearly separated and stored separately; and ▪ Surface runoff from the enclosed area should be properly collected and stored separately, and then properly treated to levels in compliance with the relevant effluent standards as required by the Water Pollution Control Ordinance before final discharge.	Project Site Area / Construction Phase	N/A
10.5.1.18	7.1	-	The marine sediments to be removed from the cable field joint area would be disposed of at the designated disposal sites to be allocated by the MFC. The following mitigation measures should be strictly	Project Site Area / Construction Phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal: ▪ Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material; ▪ Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by EPD; and ▪ Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.		
10.5.1.19	7.1	-	Contractor should register with the EPD as a chemical waste producer and to follow the relevant guidelines. The following measures should be implemented: ▪ Good quality containers compatible with the chemical wastes should be used; ▪ Incompatible chemicals should be stored separately; ▪ Appropriate labels must be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc.; and ▪ The contractor will use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Project Site Area / Construction Phase	I
10.5.1.20	7.1	-	▪ General refuse should be stored in enclosed bins or compaction units separated from inert C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site for disposal at designated landfill sites. An enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Project Site Area / Construction Phase	I
10.5.1.21	7.1	-	▪ The construction contractors will be required to regularly check and clean any refuse trapped or accumulated along the newly constructed seawall. Such refuse will then be stored and disposed of together with the general refuse.	Project Site Area / Construction Phase	N/A
			Land Contamination – Construction Phase		
11.10.1.2 to 11.10.1.3	8.1	2.32	For areas inaccessible during site reconnaissance survey ▪ Further site reconnaissance would be conducted once the areas are accessible in order to identify any land contamination concern for the areas.	Project Site Area inaccessible during site reconnaissance / Prior to Construction Phase	I
			▪ Subject to further site reconnaissance findings, a supplementary Contamination Assessment Plan (CAP) for additional site investigation (SI) (if necessary) may be prepared and submitted to EPD for endorsement prior to the commencement of SI at these areas.		I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ After completion of SI, the Contamination Assessment Report (CAR) will be prepared and submitted to EPD for approval prior to start of the proposed construction works at the golf course, the underground and above-ground fuel storage tank areas, emergency power generation units, airside petrol filling station and fuel tank room.		N/A
			▪ Should remediation be required, Remediation Action Plan (RAP) and Remediation Report (RR) will be prepared for EPD's approval prior to commencement of the proposed remediation and any construction works respectively.		N/A
11.8.1.2	8.1	-	If contaminated soil is identified, the following mitigation measures are for the excavation and transportation of contaminated materials (if any): ▪ To minimize the incidents of construction workers coming in contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; ▪ Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when working directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; ▪ Stockpiling of contaminated excavated materials on site should be avoided as far as possible; ▪ The use of any contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; ▪ Vehicles containing any excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; ▪ Truck bodies and tailgates should be sealed to prevent any discharge; ▪ Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; ▪ Speed control for trucks carrying contaminated materials should be exercised. 8km/h is the recommended speed limit; ▪ Strictly observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and obtain all necessary permits where required; and ▪ Maintain records of waste generation and disposal quantities and disposal arrangements.	Project Site Area / Construction Phase	N/A
			Terrestrial Ecological – Construction Phase		
12.10.1.1	9.2	2.14	**Pre-construction Egretry Survey** ▪ Conduct ecological survey for Sha Chau egretry to update the latest boundary of the egretry.	Breeding season (April - July) prior to commencement of HDD drilling works at HKIA	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
12.7.2.3 and 12.7.2.6	9.1	2.30	**Avoidance and Minimisation of Direct Impact to Egretry** ▪ The daylighting location will avoid direct encroachment to the Sheung Sha Chau egretry. The daylighting location and mooring of flat top barge, if required, will be kept away from the egretry; ▪ In any event, controls such as demarcation of construction site boundary and confining the lighting within the site will be practised to minimise disturbance to off-site habitat at Sheung Sha Chau Island; and ▪ The containment pit at the daylighting location shall be covered or camouflaged.	During construction phase at Sheung Sha Chau Island	I
12.7.2.5	9.1	2.30	**Preservation of Nesting Vegetation** ▪ The proposed daylighting location and the arrangement of connecting pipeline will avoid the need of tree cutting, therefore the trees that are used by ardeids for nesting will be preserved.	During construction phase at Sheung Sha Chau Island	I
12.7.2.4 and 12.7.2.6	9.1	2.30	**Timing the Pipe Connection Works outside Ardeid's Breeding Season** ▪ All HDD and related construction works on Sheung Sha Chau Island will be scheduled outside the ardeids' breeding season (between April and July). No night-time construction work will be allowed on Sheung Sha Chau Island during all seasons.	During construction phase at Sheung Sha Chau Island	I
12.10.1.1	9.3	-	**Ecological Monitoring** ▪ During the HDD construction works period from August to March, ecological monitoring will be undertaken monthly at the HDD daylighting location on Sheung Sha Chau Island to identify and evaluate any impacts with appropriate actions taken as required to address and minimise any adverse impact found.	at Sheung Sha Chau Island	I
			Marine Ecological Impact – Pre-construction Phase		
13.11.4.1	10.2.2	-	▪ Pre-construction phase Coral Dive Survey.	HKIAAA artificial seawall	I
			Marine Ecological Impact – Construction Phase		
13.11.1.3 to 13.11.1.6	-	-	**Minimisation of Land Formation Area** ▪ Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population.	Land formation footprint / during detailed design phase to completion of construction	I
13.11.1.7 to 13.11.1.10	-	2.31	**Use of Construction Methods with Minimal Risk/Disturbance** ▪ Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;	During construction phase at marine works area	I
			▪ Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on CWDs, fisheries and the marine environment;		I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway;		N/A
			▪ Avoid bored piling during CWD peak calving season (Mar to Jun);		I
			▪ Prohibition of underwater percussive piling; and		I
			▪ Use of horizontal directional drilling (HDD) method and water jetting methods for placement of submarine cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources.		I
13.11.2.1 to 13.11.2.7	-	-	**Mitigation for Indirect Disturbance due to Deterioration of Water Quality** ▪ Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;	All works area during the construction phase	I
			▪ Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains);		I
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and		N/A
			Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources.		I
13.11.1.12	-	-	**Strict Enforcement of No-Dumping Policy** ▪ A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area; ▪ Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; ▪ Fines for infractions should be implemented; and ▪ Unscheduled, on-site audits shall be implemented.	All works area during the construction phase	I
13.11.1.13	-	-	**Good Construction Site Practices** ▪ Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; ▪ Keep the number of working or stationary vessels present on-site to the minimum anytime; and ▪ Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators.	All works area during the construction phase	I
13.11.1.3 to 13.11.1.6	-	-	**Minimisation of Land Formation Area** ▪ Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population.	Land formation footprint / during detailed design phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
				to completion of construction	
13.11.5.4 to 13.11.5.13	10.3.1	-	**SkyPier High Speed Ferries' Speed Restrictions and Route Diversions** ▪ SkyPier HSFs operating to / from Zhuhai and Macau would divert north of SCLKC Marine Park with a 15 knot speed limit to apply for the part-journeys that cross high CWD abundance grid squares as indicatively shown in **Drawing No. MCL/P132/EIA/13-023** of the EIA Report. Both the alignment of the northerly route and the portion of routings to be subject to the speed limit of 15 knots shall be finalised prior to commencement of construction based on the future review of up-to-date CWD abundance and EM&A data and taking reference to changes in total SkyPier HSF numbers; and ▪ A maximum of 10 knots will be enforced through the designated SCLKC Marine Park area at all times.	Area between the footprint and SCLKC Marine Park during construction phase	I
			Other mitigation measures ▪ The ET will audit various parameters including actual daily numbers of HSFs, compliance with the 15-knot speed limit in the speed control zone and diversion compliance for SkyPier HSFs operating to / from Zhuhai and Macau; and ▪ The effectiveness of the CWD mitigation measures after implementation of initial six month SkyPier HSF diversion and speed restriction will be reviewed.	Area between the footprint and SCLKC Marine Park during construction phase	I
13.11.5.14 to 13.11.5.18	10.3.1	2.31	**Dolphin Exclusion Zone** ▪ Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas;	Marine waters around land formation works area during construction phase	I
			▪ A DEZ would also be implemented during ground improvement works (e.g. DCM), water jetting works for submarine cables diversion, open trench dredging at the field joint locations and seawall construction; and		I
			▪ A DEZ would also be implemented during bored piling work but as a precautionary measure only.		N/A
13.11.5.19	10.4	2.31	**Acoustic Decoupling of Construction Equipment** ▪ Air compressors and other noisy equipment that must be mounted on steel barges should be acoustically-decoupled to the greatest extent feasible, for instance by using rubber or air-filled tyres; and ▪ Specific acoustic decoupling measures shall be specified during the detailed design of the project for use during the land formation works.	Around coastal works area during construction phase	I
13.11.5.20	10.6.1	2.29	**Spill Response Plan** ▪ An oil and hazardous chemical spill response plan is proposed to be established during the construction phase as a precautionary measure so that appropriate actions to prevent or reduce risks to CWDs can be undertaken in the event of an accidental spillage.	Construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
13.11.5.21 to 13.11.5.23	10.6.1	-	**Construction Vessel Speed Limits and Skipper Training** ▪ A speed limit of 10 knots should be strictly observed for construction vessels at areas with the highest CWD densities; and ▪ Vessels traversing through the work areas should be required to use predefined and regular routes (which would presumably become known to resident dolphins) to reduce disturbance to cetaceans due to vessel movements. Specific marine routes shall be specified by the Contractor prior to construction commencing.	All areas north and west of Lantau Island during construction phase	I
			Fisheries Impact – Construction Phase		
14.9.1.2 to 14.9.1.5	-		**Minimisation of Land Formation Area** ▪ Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for fisheries resources.	Land formation footprint / during detailed design phase to completion of construction	I
14.9.1.6	-	-	**Use of Construction Methods with Minimal Risk/Disturbance** ▪ Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;	During construction phase at marine works area	I
			▪ Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on fisheries and the marine environment;		I
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and		N/A
			▪ Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources.		I
14.9.1.11	-		**Strict Enforcement of No-Dumping Policy** ▪ A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area; ▪ Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; ▪ Fines for infractions should be implemented; and ▪ Unscheduled, on-site audits shall be implemented.	All works area during the construction phase	I
14.9.1.12	-		**Good Construction Site Practices** ▪ Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; ▪ Keep the number of working or stationary vessels present on-site to the minimum anytime; and	All works area during the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators.		
14.9.1.13 to 14.9.1.18	-		**Mitigation for Indirect Disturbance due to Deterioration of Water Quality** ▪ Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;	All works area during the construction phase	I
			▪ Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains);		I
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and		N/A
			▪ Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources.		I
			Landscape and Visual Impact – Construction Phase		
Table 15.6	12.3	-	**CM1 -** The construction area and contractor's temporary works areas should be minimised to avoid impacts on adjacent landscape.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM2 -** Reduction of construction period to practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM3 -** Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM4 -** Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM5 -** Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	All works areas for duration of works; Upon handover and completion of works. –	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
				may be disassembled in phases	
Table 15.6	12.3	-	**CM6 -** Avoidance of excessive height and bulk of site buildings and structures.	New passenger concourse, terminal 2 expansion and other proposed airport related buildings and structures under the project; Upon handover and completion of works.	N/A
Table 15.6	12.3	-	**CM7** - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	All works areas for duration of works; Upon handover and completion of works. – may be disassembled in phases	I
Table 15.6	12.3	-	**CM8 -** All existing trees shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas.	All existing trees to be retained; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM9 -** Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme.	All existing trees to be affected by the works; Upon handover and completion of works.	N/A
Table 15.6	12.3	-	**CM10 -** Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical.	All affected existing grass areas around runways and verges/Duration of works; Upon handover and completion of works.	N/A
			Cultural Heritage Impact – Construction Phase		
			Not applicable.		

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Health Impact – Aircraft Emissions		
			Not applicable.		
			Health Impact – Aircraft Noise		
			Not applicable.		

Notes:

I= implemented where applicable;

N/A= not applicable to the construction works implemented during the reporting month.

^ Checked by ET through site inspection and record provided by the Contractor.

Appendix B. Monitoring Schedule

Monitoring Schedule of This Reporting Period

May-17

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2 Site Inspection NM1A/AR1A NM4 NM6 WQ General & Regular DCM mid-ebb: 17:44 mid-flood: 10:30	3	4 Site Inspection CWD Vessel Survey NM5/AR2 NM3A WQ General & Regular DCM^ mid-ebb: 08:48 mid-flood: 13:47	5 Site Inspection CWD Vessel Survey	6 WQ General & Regular DCM mid-ebb: 10:45 mid-flood: 16:20
7	8 CWD Vessel Survey NM1A/AR1A NM4 NM6	9 Site Inspection CWD Vessel Survey WQ General & Regular DCM mid-ebb: 12:20 mid-flood: 18:45	10 Site Inspection NM5/AR2 NM3A	11 Site Inspection CWD Vessel Survey WQ General & Regular DCM mid-ebb: 13:23 mid-flood: 06:51	12 Site Inspection AR1A	13 WQ General & Regular DCM mid-ebb: 14:25 mid-flood: 07:44
14	15 Site Inspection NM5/AR2	16 Site Inspection NM1A/AR1A NM4 WQ General & Regular DCM mid-ebb: 16:16 mid-flood: 09:15	17 CWD Vessel Survey CWD Land-based Survey NM3A	18 Site Inspection NM6 WQ General & Regular DCM mid-ebb: 17:56 mid-flood: 10:45	19 Site Inspection CWD Land-based Survey AR2	20 WQ General & Regular DCM mid-ebb: 09:05 mid-flood: 13:57
21	22 CWD Vessel Survey CWD Land-based Survey NM1A/AR1A NM4	23 Site Inspection CWD Vessel Survey NM6 WQ General & Regular DCM mid-ebb: 11:12 mid-flood: 17:19	24	25 Site Inspection CWD Land-based Survey NM5/AR2 NM3A WQ General & Regular DCM mid-ebb: 12:33 mid-flood: 19:12	26 Site Inspection AR1A	27 WQ General & Regular DCM mid-ebb: 14:04 mid-flood: 07:14
28	29 Site Inspection CWD Land-based Survey NM6	30 WQ General & Regular DCM mid-ebb: 16:32 mid-flood: 09:27	31 Site Inspection NM5/AR2 NM3A			

Notes:

Air quality and Noise Monitoring Station

NM1A/AR1A - Man Tung Road Park
NM3A - Site Office
NM4 - Ching Chung Hau Po Woon Primary School
NM5/AR2 - Village House, Tin Sum
NM6 - House No. 1, Sha Lo Wan

CWD - Chinese White Dolphin
WQ - Water Quality
DCM - Deep Cemenet Mixing

^ Cancelled due to adverse weather

Tentative Monitoring Schedule of Next Reporting Period

Jun-17

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 Site Inspection NM1A/AR1A NM4 WQ General & Regular DCM mid-ebb: 18:35 mid-flood: 11:43	**2**	**3**
4 WQ General & Regular DCM mid-ebb: 10:07 mid-flood: 16:00	**5**	**6** Site Inspection NM5/AR2 NM3A WQ General & Regular DCM mid-ebb: 11:24 mid-flood: 17:52	**7** CWD Vessel Survey NM1A/AR1A NM4	**8** Site Inspection CWD Vessel Survey NM6 WQ General & Regular DCM mid-ebb: 12:30 mid-flood: 19:22	**9** Site Inspection CWD Vessel Survey	**10** WQ General & Regular DCM mid-ebb: 13:35 mid-flood: 20:40
11	**12** CWD Vessel Survey NM5/AR2 NM3A NM6	**13** Site Inspection CWD Vessel Survey NM1A/AR1A NM4 WQ General & Regular DCM mid-ebb: 15:18 mid-flood: 08:23	**14** CWD Vessel Survey	**15** Site Inspection CWD Land-based Survey WQ General & Regular DCM mid-ebb: 16:40 mid-flood: 09:45	**16** Site Inspection CWD Land-based Survey AR2	**17** WQ General & Regular DCM mid-ebb: 06:59 mid-flood: 11:57
18	**19** CWD Vessel Survey NM1A/AR1A NM4	**20** Site Inspection CWD Vessel Survey NM6 WQ General & Regular DCM mid-ebb: 09:57 mid-flood: 16:02	**21** CWD Land-based Survey	**22** Site Inspection CWD Land-based Survey NM5/AR2 NM3A WQ General & Regular DCM mid-ebb: 11:31 mid-flood: 18:14	**23** Site Inspection AR1A	**24** WQ General & Regular DCM mid-ebb: 13:05 mid-flood: 20:10
25	**26** CWD Land-based Survey NM6	**27** Site Inspection WQ General & Regular DCM mid-ebb: 15:28 mid-flood: 08:29	**28** NM5/AR2 NM3A	**29** Site Inspection NM1A/AR1A NM4 WQ General & Regular DCM mid-ebb: 17:05 mid-flood: 10:13	**30** Site Inspection	

Notes:

Air quality and Noise Monitoring Station

NM1A/AR1A - Man Tung Road Park
NM3A - Site Office
NM4 - Ching Chung Hau Po Woon Primary School
NM5/AR2 - Village House, Tin Sum
NM6 - House No. 1, Sha Lo Wan

CWD - Chinese White Dolphin
WQ - Water Quality
DCM - Deep Cemenet Mixing

Appendix C. Monitoring Results

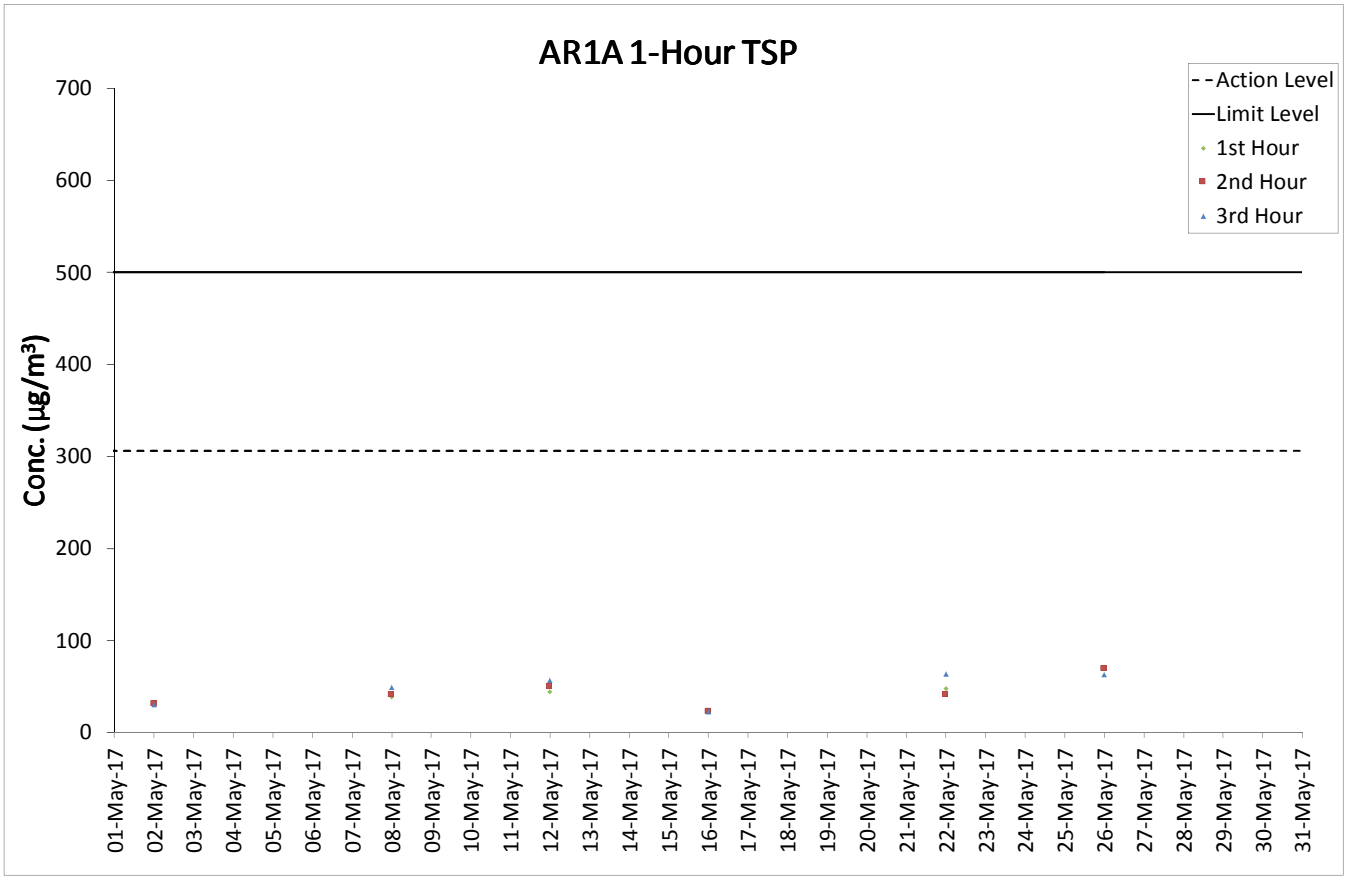
Air Quality Monitoring Results

1-hour TSP Results
Station: AR1A- Man Tung Road Park

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu g/m^3$)	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
02-May-17	14:05	Fine	2.1	183	33	306	500
02-May-17	15:05	Fine	5.8	159	31	306	500
02-May-17	16:05	Fine	5.5	159	30	306	500
08-May-17	14:00	Fine	7.5	155	39	306	500
08-May-17	15:00	Fine	5.8	151	41	306	500
08-May-17	16:00	Fine	8.1	157	49	306	500
12-May-17	13:00	Fine	3.6	282	44	306	500
12-May-17	14:00	Fine	1.5	306	50	306	500
12-May-17	15:00	Fine	3.1	302	57	306	500
16-May-17	14:45	Fine	3.5	117	23	306	500
16-May-17	15:45	Fine	2.7	56	23	306	500
16-May-17	16:45	Fine	6	57	23	306	500
22-May-17	14:05	Cloudy	7.8	92	48	306	500
22-May-17	15:05	Cloudy	7.2	97	41	306	500
22-May-17	16:05	Cloudy	7.8	99	64	306	500
26-May-17	13:10	Cloudy	1.9	309	69	306	500
26-May-17	14:10	Cloudy	2.4	274	69	306	500
26-May-17	15:10	Cloudy	1.7	291	63	306	500

1-hour TSP Results
Station: AR2- Village House, Tin Sum

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu g/m^3$)	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
04-May-17	08:55	Cloudy	4.7	147	57	298	500
04-May-17	09:55	Cloudy	6.1	11	53	298	500
04-May-17	10:55	Cloudy	2.8	238	28	298	500
10-May-17	09:00	Fine	1.7	337	605	298	500
10-May-17	10:00	Fine	2.7	304	598	298	500
10-May-17	11:00	Fine	3.1	302	528	298	500
15-May-17	09:30	Rainy	1.8	290	29	298	500
15-May-17	10:30	Rainy	2.6	61	23	298	500
15-May-17	11:30	Rainy	2.4	62	29	298	500
19-May-17	08:50	Cloudy	4.0	63	42	298	500
19-May-17	09:50	Cloudy	5.0	64	42	298	500
19-May-17	10:50	Cloudy	3.2	66	43	298	500
25-May-17	09:15	Fine	4.6	354	71	298	500
25-May-17	10:15	Fine	2.1	352	58	298	500
25-May-17	11:15	Fine	5.7	348	64	298	500
31-May-17	08:55	Sunny	1.9	327	29	298	500
31-May-17	09:55	Sunny	1.6	333	24	298	500
31-May-17	10:55	Sunny	4.1	283	23	298	500


AR1A 1-Hour TSP
Action Level
Limit Level
1st Hour
2nd Hour
3rd Hour
Conc. (µg/m³)
700
600
500
400
300
200
100
0
01-May-17
02-May-17
03-May-17
04-May-17
05-May-17
06-May-17
07-May-17
08-May-17
09-May-17
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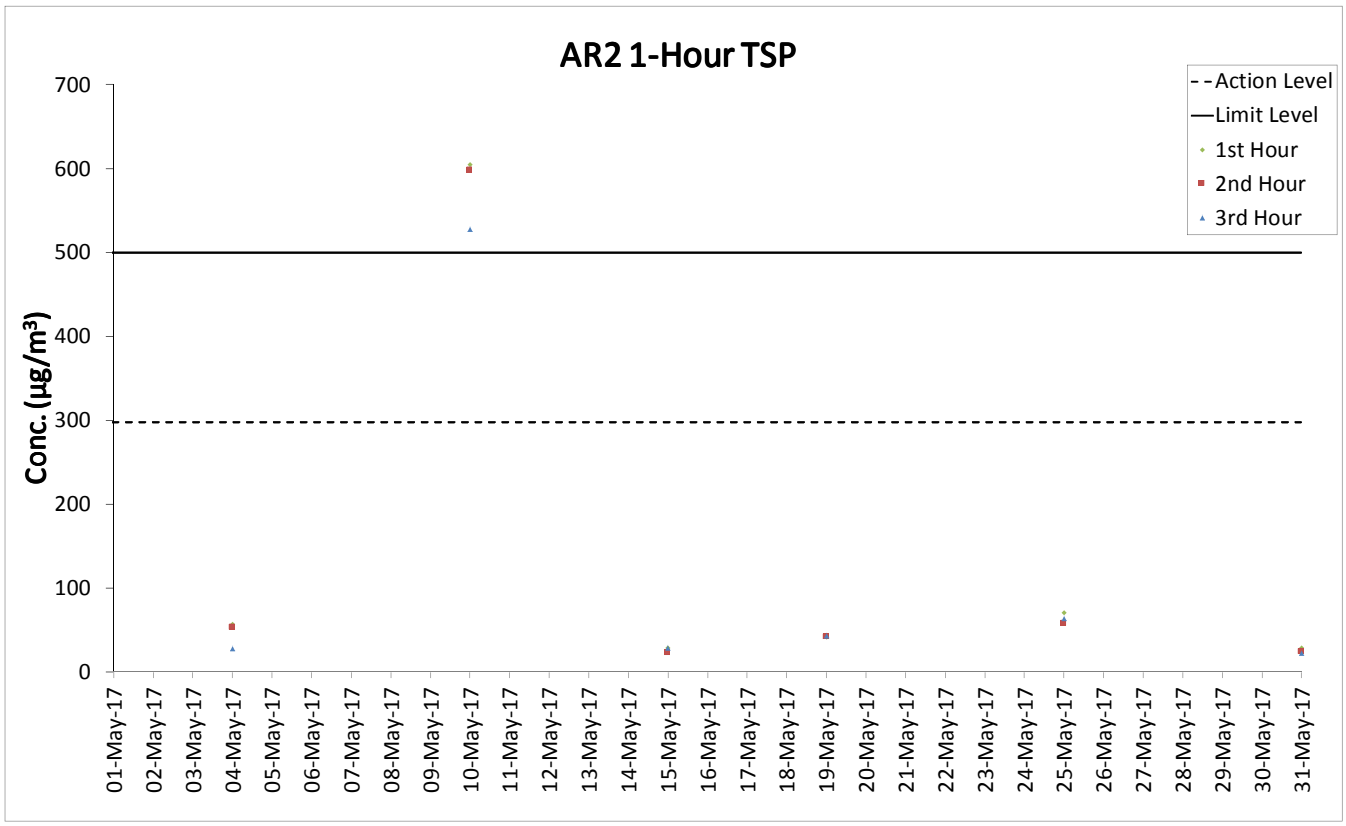
31-May-17


AR2 1-Hour TSP
Action Level
Limit Level
1st Hour
2nd Hour
3rd Hour
Conc. (µg/m³)
700
600
500
400
300
200
100
0
01-May-17
02-May-17
03-May-17
04-May-17
05-May-17
06-May-17
07-May-17
08-May-17
09-May-17
10-May-17
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27-May-17
28-May-17
29-May-17
30-May-17
31-May-17

Noise Monitoring Results

Noise Measurement Results
Station: NM1A- Man Tung Road Park

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
02-May-17	Fine	14:20	71.0	53.0	71
02-May-17	Fine	14:25	69.5	52.5	
02-May-17	Fine	14:30	73.5	54.0	
02-May-17	Fine	14:35	72.5	55.0	
02-May-17	Fine	14:40	69.5	52.5	
02-May-17	Fine	14:45	70.0	53.0	
08-May-17	Sunny	10:45	71.5	53.0	71
08-May-17	Sunny	10:50	70.0	57.0	
08-May-17	Sunny	10:55	70.5	56.0	
08-May-17	Sunny	11:00	72.0	56.5	
08-May-17	Sunny	11:05	70.5	54.5	
08-May-17	Sunny	11:10	73.0	54.5	
16-May-17	Fine	16:30	72.5	56.0	73
16-May-17	Fine	16:35	72.0	57.0	
16-May-17	Fine	16:40	72.0	57.0	
16-May-17	Fine	16:45	72.5	56.5	
16-May-17	Fine	16:50	72.5	56.5	
16-May-17	Fine	16:55	73.0	56.0	
22-May-17	Cloudy	14:50	73.5	55.0	71
22-May-17	Cloudy	14:55	72.0	54.5	
22-May-17	Cloudy	15:00	70.0	55.0	
22-May-17	Cloudy	15:05	71.0	55.0	
22-May-17	Cloudy	15:10	70.5	54.5	
22-May-17	Cloudy	15:15	70.5	54.0	

Remarks:
+3dB (A) correction was applied to free-field measurement.

Noise Measurement Results
Station: NM3A- Site Office

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
04-May-17	Cloudy	16:05	60.5	58.5	60
04-May-17	Cloudy	16:10	60.0	58.5	
04-May-17	Cloudy	16:15	59.5	58.0	
04-May-17	Cloudy	16:20	62.0	59.0	
04-May-17	Cloudy	16:25	61.0	58.5	
04-May-17	Cloudy	16:30	62.5	59.0	
10-May-17	Cloudy	16:05	62.0	59.0	60
10-May-17	Cloudy	16:10	66.0	58.5	
10-May-17	Cloudy	16:15	60.5	58.0	
10-May-17	Cloudy	16:20	60.5	58.5	
10-May-17	Cloudy	16:25	59.0	58.0	
10-May-17	Cloudy	16:30	59.0	58.0	
17-May-17	Sunny	10:50	69.0	63.0	63
17-May-17	Sunny	10:55	68.0	62.5	
17-May-17	Sunny	11:00	67.5	62.5	
17-May-17	Sunny	11:05	67.5	63.0	
17-May-17	Sunny	11:10	68.5	62.0	
17-May-17	Sunny	11:15	68.0	62.5	
25-May-17	Cloudy	14:45	60.5	58.5	63
25-May-17	Cloudy	14:50	62.5	58.5	
25-May-17	Cloudy	14:55	61.5	58.5	
25-May-17	Cloudy	15:00	64.5	60.0	
25-May-17	Cloudy	15:05	69.0	62.5	
25-May-17	Cloudy	15:10	68.0	59.0	
31-May-17	Sunny	15:35	62.5	61.0	62
31-May-17	Sunny	15:40	62.0	61.0	
31-May-17	Sunny	15:45	63.5	61.0	
31-May-17	Sunny	15:50	62.5	61.0	
31-May-17	Sunny	15:55	63.0	61.0	
31-May-17	Sunny	16:00	65.5	61.5	

Noise Measurement Results
Station: NM4- Ching Chung Hau Po Won Primary School

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
02-May-17	Fine	11:02	66.5	59.5	65
02-May-17	Fine	11:07	64.5	60.5	
02-May-17	Fine	11:12	65.0	59.5	
02-May-17	Fine	11:17	62.0	58.0	
02-May-17	Fine	11:22	61.5	57.5	
02-May-17	Fine	11:27	60.0	57.0	
08-May-17	Sunny	14:17	65.5	60.0	66
08-May-17	Sunny	14:22	64.0	60.0	
08-May-17	Sunny	14:27	63.0	59.0	
08-May-17	Sunny	14:32	64.5	59.0	
08-May-17	Sunny	14:37	63.5	58.5	
08-May-17	Sunny	14:42	67.0	63.0	
16-May-17	Cloudy	13:55	69.5	65.5	68
16-May-17	Cloudy	14:00	70.5	65.5	
16-May-17	Cloudy	14:05	69.5	64.5	
16-May-17	Cloudy	14:10	69.0	64.5	
16-May-17	Cloudy	14:15	68.5	64.0	
16-May-17	Cloudy	14:20	67.0	64.0	
22-May-17	Cloudy	13:20	62.5	59.0	65
22-May-17	Cloudy	13:25	63.0	59.5	
22-May-17	Cloudy	13:30	63.0	59.5	
22-May-17	Cloudy	13:35	63.0	60.0	
22-May-17	Cloudy	13:40	63.5	59.5	
22-May-17	Cloudy	13:45	64.0	60.0	

Remarks:
+3dB (A) correction was applied to free-field measurement.

Noise Measurement Results
Station: NM5- Village House, Tin Sum

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
04-May-17	Cloudy	09:30	59.0	52.0	64
04-May-17	Cloudy	09:35	70.0	57.5	
04-May-17	Cloudy	09:40	64.5	58.0	
04-May-17	Cloudy	09:45	58.0	51.0	
04-May-17	Cloudy	09:50	54.5	48.0	
04-May-17	Cloudy	09:55	64.0	49.5	
10-May-17	Cloudy	09:25	59.5	51.5	53
10-May-17	Cloudy	09:30	57.0	51.5	
10-May-17	Cloudy	09:35	62.5	50.5	
10-May-17	Cloudy	09:40	59.0	52.0	
10-May-17	Cloudy	09:45	58.5	50.5	
10-May-17	Cloudy	09:50	58.5	51.5	
15-May-17	Cloudy	10:20	55.5	50.0	59
15-May-17	Cloudy	10:25	55.0	49.5	
15-May-17	Cloudy	10:30	56.0	50.0	
15-May-17	Cloudy	10:35	56.0	50.0	
15-May-17	Cloudy	10:40	56.0	49.0	
15-May-17	Cloudy	10:45	54.0	50.0	
25-May-17	Fine	09:48	59.5	54.0	62
25-May-17	Fine	09:53	59.0	53.5	
25-May-17	Fine	09:58	60.5	50.5	
25-May-17	Fine	10:03	62.5	50.0	
25-May-17	Fine	10:08	67.0	52.5	
25-May-17	Fine	10:13	65.0	54.0	
31-May-17	Sunny	09:40	56.0	49.0	53
31-May-17	Sunny	09:45	56.5	49.0	
31-May-17	Sunny	09:50	65.5	47.0	
31-May-17	Sunny	09:55	53.0	47.5	
31-May-17	Sunny	10:00	67.0	49.0	
31-May-17	Sunny	10:05	59.5	47.5	

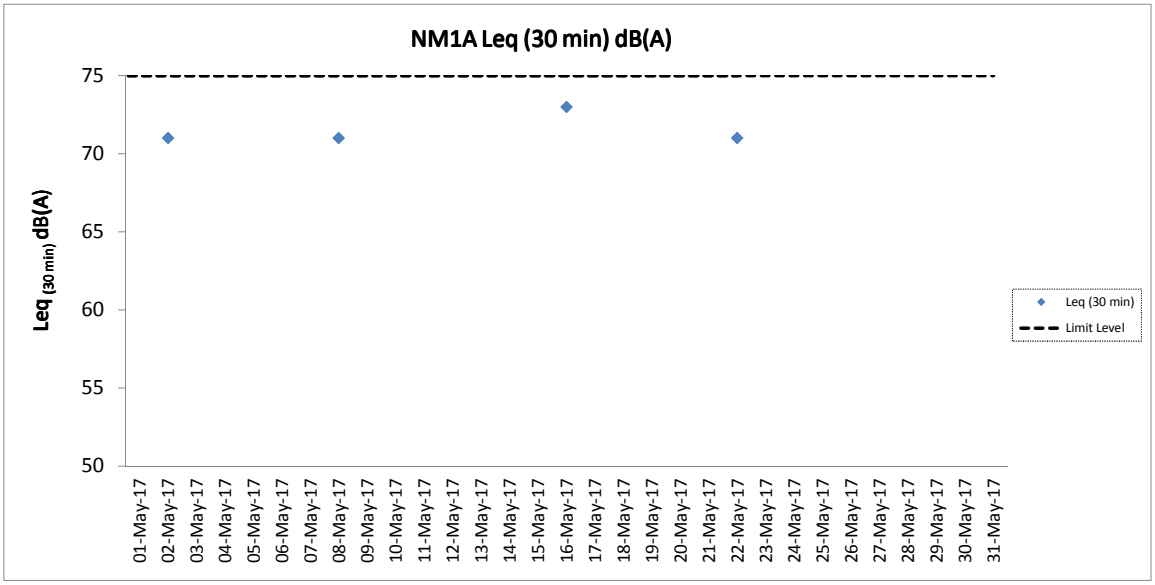
Remarks:
+3dB (A) correction was applied to free-field measurement.

Noise Measurement Results

Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
02-May-17	Fine	09:38	73.5	63.0	70
02-May-17	Fine	09:43	71.5	61.0	
02-May-17	Fine	09:48	69.5	61.5	
02-May-17	Fine	09:53	68.0	61.5	
02-May-17	Fine	09:58	72.5	62.0	
02-May-17	Fine	10:03	74.0	62.0	
08-May-17	Sunny	09:40	66.0	55.0	64
08-May-17	Sunny	09:45	64.5	54.5	
08-May-17	Sunny	09:50	63.0	54.5	
08-May-17	Sunny	09:55	64.5	55.0	
08-May-17	Sunny	10:00	59.0	53.5	
08-May-17	Sunny	10:05	65.0	55.5	
18-May-17	Sunny	09:41	73.5	59.5	66
18-May-17	Sunny	09:46	71.5	55.0	
18-May-17	Sunny	09:51	68.5	54.0	
18-May-17	Sunny	09:56	70.5	54.5	
18-May-17	Sunny	10:01	65.5	54.0	
18-May-17	Sunny	10:06	69.5	56.5	
23-May-17	Cloudy	09:36	69.5	54.5	68
23-May-17	Cloudy	09:41	70.0	56.5	
23-May-17	Cloudy	09:46	72.0	57.0	
23-May-17	Cloudy	09:51	69.0	58.0	
23-May-17	Cloudy	09:56	73.5	57.5	
23-May-17	Cloudy	10:01	74.0	59.0	
29-May-17	Sunny	09:43	67.0	57.0	67
29-May-17	Sunny	09:48	64.0	54.5	
29-May-17	Sunny	09:53	67.0	57.0	
29-May-17	Sunny	09:58	68.0	52.0	
29-May-17	Sunny	10:03	68.5	55.0	
29-May-17	Sunny	10:08	66.0	52.0	

Remarks:
+3dB (A) correction was applied to free-field measurement.


NM1A Leq (30 min) dB(A)
Leq (30 min) dB(A)
75
70
65
60
55
50
01-May-17
02-May-17
03-May-17
04-May-17
05-May-17
06-May-17
07-May-17
08-May-17
09-May-17
10-May-17
11-May-17
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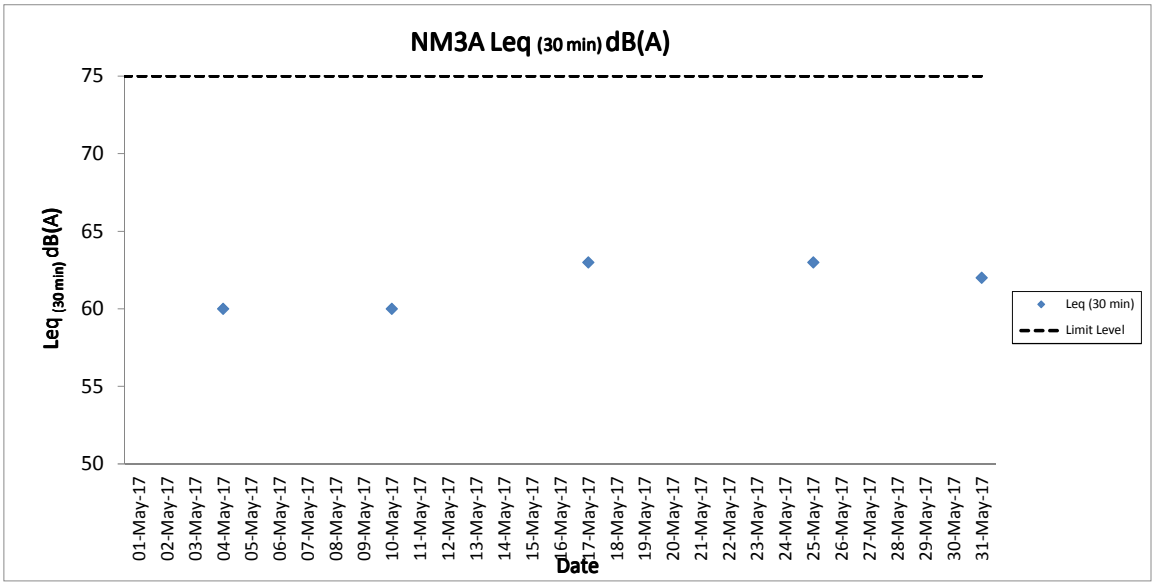
22-May-17
23-May-17
24-May-17
25-May-17
26-May-17
27-May-17
28-May-17
29-May-17
30-May-17
31-May-17
Leq (30 min)
Limit Level


NM3A Leq (30 min) dB(A)
Leq (30 min) dB(A)
75
70
65
60
55
50
01-May-17
02-May-17
03-May-17
04-May-17
05-May-17
06-May-17
07-May-17
08-May-17
09-May-17
10-May-17
11-May-17
12-May-17
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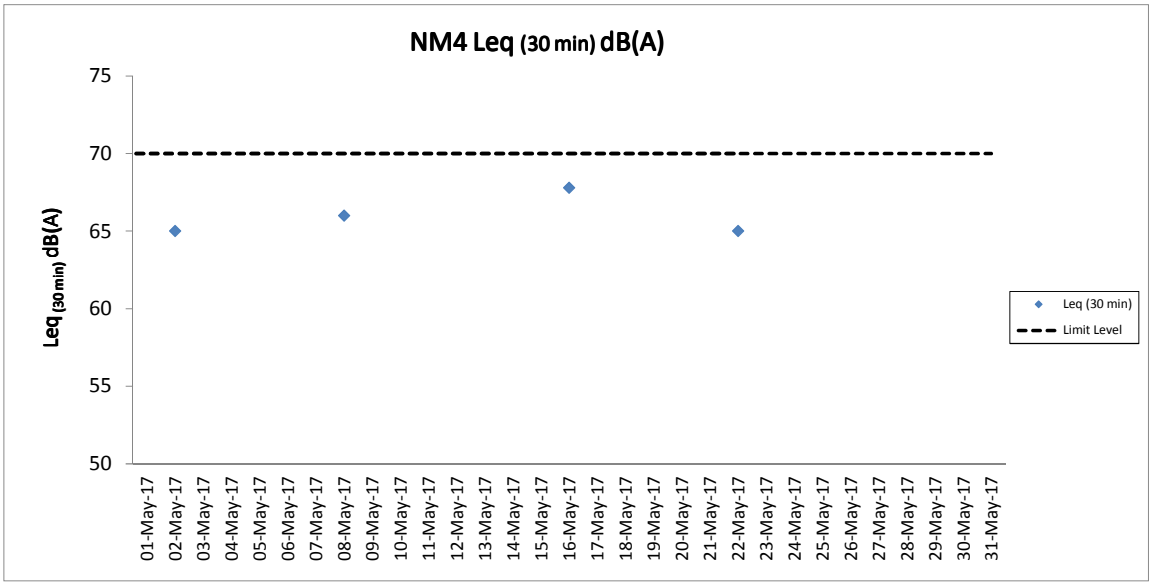
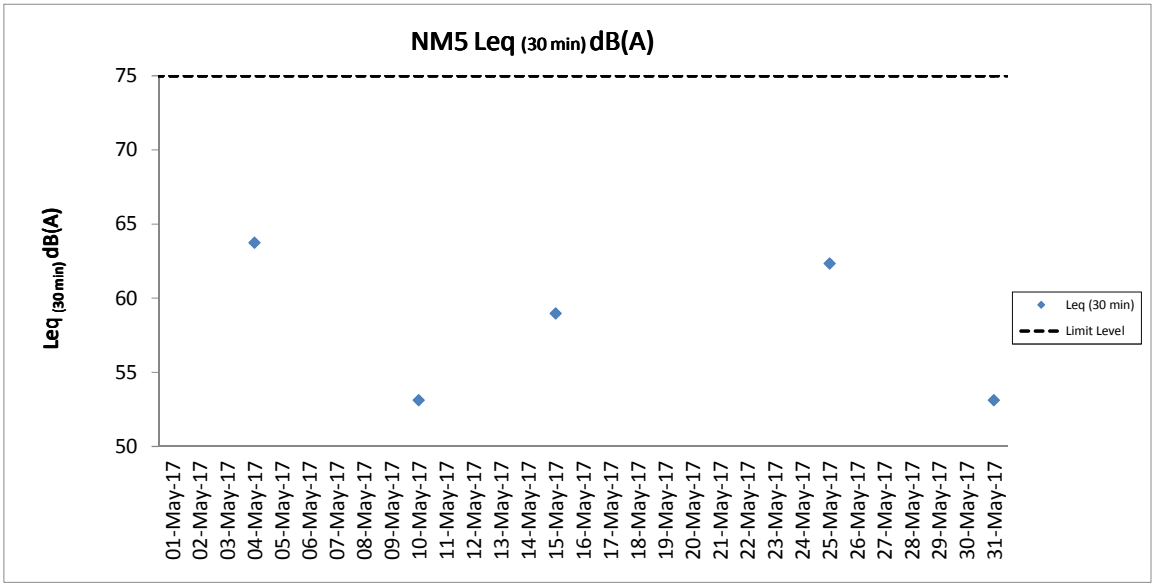
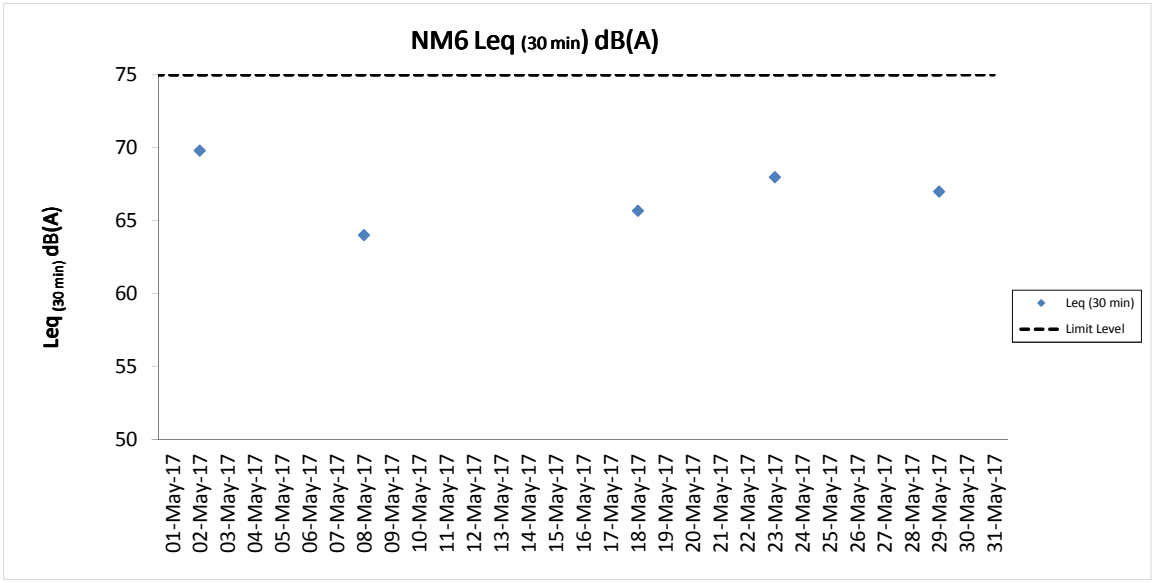
19-May-17
20-May-17
21-May-17
22-May-17
23-May-17
24-May-17
25-May-17
26-May-17
27-May-17
28-May-17
29-May-17
30-May-17
31-May-17
Date
Leq (30 min)
Limit Level


NM4 Leq (30 min) dB(A)
Leq (30 min) dB(A)
75
70
65
60
55
50
01-May-17
02-May-17
03-May-17
04-May-17
05-May-17
06-May-17
07-May-17
08-May-17
09-May-17
10-May-17
11-May-17
12-May-17
13-May-17
14-May-17
15-May-17
16-May-17
17-May-17
18-May-17
19-May-17
20-May-17
21-May-17
22-May-17
23-May-17
24-May-17
25-May-17
26-May-17
27-May-17
28-May-17
29-May-17
30-May-17
31-May-17
Leq (30 min)
Limit Level


NM5 Leq (30 min) dB(A)
Leq (30 min) dB(A)
75
70
65
60
55
50
01-May-17
02-May-17
03-May-17
04-May-17
05-May-17
06-May-17
07-May-17
08-May-17
09-May-17
10-May-17
11-May-17
12-May-17
13-May-17
14-May-17
15-May-17
16-May-17
17-May-17
18-May-17
19-May-17
20-May-17
21-May-17
22-May-17
23-May-17
24-May-17
25-May-17
26-May-17
27-May-17
28-May-17
29-May-17
30-May-17
31-May-17
Leq (30 min)
Limit Level


NM6 Leq (30 min) dB(A)
Leq (30 min) dB(A)
75
70
65
60
55
50
01-May-17
02-May-17
03-May-17
04-May-17
05-May-17
06-May-17
07-May-17
08-May-17
09-May-17
10-May-17
11-May-17
12-May-17
13-May-17
14-May-17
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19-May-17
20-May-17
21-May-17
22-May-17
23-May-17
24-May-17
25-May-17
26-May-17
27-May-17
28-May-17
29-May-17
30-May-17
31-May-17
Leq (30 min)
Limit Level

Water Quality Monitoring Results

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 02 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	10:11	8.7	Surface	1.0	0.4	192	24.5	24.5	8.1	8.1	26.8	26.8	99.8	99.8	7.1	7.0	6.4	10.3	6	9	73	75	815622	804260	<0.2	<0.2	1.3	1.2
						1.0	0.4	192	24.5		8.1		26.8		99.7		7.1		6.6		7		73				<0.2		1.2	
					Middle	4.4	0.4	198	24.1	24.2	8.1	8.1	27.8	27.8	95.6	95.6	6.9		8.4		9		75				<0.2		1.3	
						4.4	0.4	213	24.2		8.1		27.7		95.6		6.9		8.5		11		75				<0.2		1.4	
					Bottom	7.7	0.4	184	24.0	24.0	8.1	8.1	28.6	28.6	94.4	94.5	6.7	6.8	16.0		12		75				<0.2		1.1	
						7.7	0.4	197	24.0		8.1		28.6		94.5		6.8		16.1		11		76				<0.2		1.0	
C2	Cloudy	Moderate	11:33	13.9	Surface	1.0	0.4	188	24.9	24.9	8.1	8.1	21.8	21.8	102.5	102.5	7.5	7.4	3.3	4.8	4	5	73	75	825668	806960	<0.2	<0.2	2.4	2.3
						1.0	0.4	199	24.9		8.1		21.8		102.5		7.5		3.5		4		73				<0.2		2.6	
					Middle	7.0	0.3	192	24.7	24.7	8.1	8.1	23.5	23.5	99.4	99.4	7.2		4.9		7		75				<0.2		2.3	
						7.0	0.3	208	24.7		8.1		23.5		99.3		7.2		5.1		5		75				<0.2		2.5	
					Bottom	12.9	0.4	188	24.3	24.3	8.1	8.1	26.5	26.5	97.2	97.3	7.0	7.0	6.1		5		77				<0.2		2.1	
						12.9	0.4	203	24.3		8.1		26.4		97.3		7.0		5.7		5		77				<0.2		2.1	
C3	Cloudy	Moderate	09:18	13.6	Surface	1.0	0.3	224	24.2	24.2	8.1	8.1	26.0	26.0	90.9	90.9	6.6	6.6	2.4	2.8	7	7	73	75	822107	817812	<0.2	<0.2	1.6	1.6
						1.0	0.3	239	24.2		8.1		26.0		90.9		6.6		2.4		6		73				<0.2		1.5	
					Middle	6.8	0.4	244	24.2	24.2	8.1	8.1	26.0	26.0	89.9	89.9	6.5		3.0		8		75				<0.2		1.5	
						6.8	0.4	244	24.2		8.1		26.0		89.8		6.5		3.0		6		76				<0.2		1.6	
					Bottom	12.6	0.3	150	24.1	24.1	8.1	8.1	26.7	26.7	90.6	90.6	6.5	6.5	2.9		7		76				<0.2		1.6	
						12.6	0.3	150	24.1		8.1		26.7		90.6		6.5		2.9		7		76				<0.2		1.8	
IM1	Cloudy	Moderate	10:22	8.5	Surface	1.0	0.4	205	25.4	25.4	8.1	8.1	25.3	25.3	105.8	105.8	7.5	7.4	2.9	5.5	5	6	73	75	818336	806456	<0.2	<0.2	2.3	2.1
						1.0	0.4	209	25.4		8.1		25.3		105.7		7.5		3.0		4		73				<0.2		2.2	
					Middle	4.3	0.3	150	24.5	24.5	8.1	8.1	26.0	26.0	100.7	100.7	7.3		3.9		4		75				<0.2		1.9	
						4.3	0.4	159	24.5		8.1		26.0		100.7		7.3		3.9		6		75				<0.2		2.2	
					Bottom	7.5	0.3	136	24.2	24.2	8.1	8.1	28.2	28.2	97.5	97.6	7.0	7.0	9.6		7		76				<0.2		2.0	
						7.5	0.3	136	24.2		8.1		28.2		97.6		7.0		9.5		8		77				<0.2		2.1	
IM2	Cloudy	Moderate	10:27	9.3	Surface	1.0	0.3	214	25.0	25.0	8.1	8.1	25.1	25.1	103.0	102.9	7.4	7.2	4.5	4.5	3	6	73	75	818848	806202	<0.2	<0.2	2.2	2.0
						1.0	0.3	233	25.0		8.1		25.1		102.8		7.4		4.5		5		73				<0.2		2.3	
					Middle	4.7	0.4	166	24.3	24.3	8.1	8.1	26.9	26.9	97.8	97.8	7.0		3.9		6		75				<0.2		2.0	
						4.7	0.4	173	24.3		8.1		26.9		97.8		7.0		3.5		4		76				<0.2		1.9	
					Bottom	8.3	0.3	128	24.2	24.2	8.1	8.1	28.0	28.0	97.5	97.6	7.0	7.0	5.4		8		77				<0.2		1.9	
						8.3	0.3	133	24.2		8.1		28.0		97.6		7.0		5.3		7		77				<0.2		1.9	
IM3	Cloudy	Moderate	10:34	9.5	Surface	1.0	0.3	221	24.6	24.6	8.1	8.1	24.7	24.7	105.6	105.6	7.6	7.3	2.8	7.2	6	8	73	75	819407	806001	<0.2	<0.2	2.1	2.1
						1.0	0.3	229	24.6		8.1		24.7		105.6		7.6		2.7		8		74				<0.2		2.4	
					Middle	4.8	0.3	167	24.3	24.3	8.1	8.1	26.1	26.1	96.0	96.0	6.9		6.6		7		75				<0.2		2.0	
						4.8	0.3	175	24.3		8.1		26.1		95.9		6.9		6.6		6		75				<0.2		1.9	
					Bottom	8.5	0.3	135	24.1	24.1	8.1	8.1	27.9	27.9	95.3	95.4	6.8	6.8	12.3		8		77				<0.2		2.1	
						8.5	0.3	145	24.1		8.1		27.9		95.4		6.8		12.1		10		77				<0.2		2.0	
IM4	Cloudy	Moderate	10:42	8.7	Surface	1.0	0.3	207	24.7	24.7	8.1	8.1	24.9	24.9	106.7	106.7	7.7	7.2	3.3	10.1	7	7	73	75	819550	805046	<0.2	<0.2	1.9	1.8
						1.0	0.4	221	24.7		8.1		24.9		106.6		7.7		3.3		7		73				<0.2		2.0	
					Middle	4.4	0.3	182	24.0	24.0	8.1	8.1	27.0	27.0	92.6	92.6	6.7		7.4		8		75				<0.2		2.0	
						4.4	0.4	185	24.0		8.1		27.0		92.6		6.7		7.6		7		76				<0.2		1.9	
					Bottom	7.7	0.3	163	23.9	23.9	8.1	8.1	28.7	28.7	92.5	92.5	6.6	6.6	19.5		8		77				<0.2		1.5	
						7.7	0.4	170	23.9		8.1		28.7		92.5		6.6		19.5		7		77				<0.2		1.6	
IM5	Cloudy	Moderate	10:51	8.0	Surface	1.0	0.3	222	24.7	24.7	8.1	8.1	23.9	23.9	106.7	106.7	7.7	7.2	3.7	10.9	5	7	73	75	820557	804921	<0.2	<0.2	2.3	1.9
						1.0	0.3	239	24.7		8.1		23.9		106.6		7.7		3.8		4		73				<0.2		2.2	
					Middle	4.0	0.3	216	24.0	24.0	8.1	8.1	27.9	27.9	92.5	92.5	6.7		11.2		4		75				<0.2		1.7	
						4.0	0.3	219	24.0		8.1		27.8		92.5		6.7		11.3		6		76				<0.2		1.7	
					Bottom	7.0	0.3	161	23.9	23.9	8.1	8.1	28.5	28.5	94.3	94.4	6.8	6.8	18.4		11		77				<0.2		1.7	
						7.0	0.3	174	23.9		8.1		28.5		94.4		6.8		17.1		11		77				<0.2		1.7	
IM6	Cloudy	Moderate	10:59	7.5	Surface	1.0	0.4	264	24.7	24.7	8.1	8.1	23.9	23.9	104.7	104.6	7.6	7.2	4.1	10.4	5	7	73	75	821064	805811	<0.2	<0.2	2.2	1.9
						1.0	0.4	284	24.7		8.1		23.9		104.5		7.6		4.1		4		75				<0.2		2.0	
					Middle	3.8	0.4	213	24.3	24.3	8.1	8.1	25.5	25.5	94.3	94.3	6.8		9.2		7		76				<0.2		1.8	
						3.8	0.4	227	24.3		8.1		25.5		94.2		6.8		9.5		9		77				<0.2		1.8	
					Bottom	6.5	0.3	178	24.1	24.1	8.1	8.1	27.7	27.7	94.2	94.3	6.8	6.8	17.8		8		77				<0.2		1.7	
						6.5	0.3	182	24.1		8.1		27.7		94.3		6.8		17.9		10		73				<0.2		1.9	
IM7	Cloudy	Moderate	11:18	8.5	Surface	1.0	0.4	248	24.9	24.9	8.1	8.1	22.5	22.5	103.2	103.2	7.5	7.3	2.0	3.5	6	7	73	75	821351	806839	<0.2	<0.2	2.5	2.2
						1.0	0.4	265	24.9		8.1		22.5		103.2		7.5		2.0		6		73				<0.2		2.3	
					Middle	4.3	0.3	220	24.4	24.4	8.1	8.1	25.2	25.2	98.6	98.6	7.1		4.6		7		75				<0.2		2.0	
						4.3	0.3	222	24.4		8.1		25.2		98.6		7.1		4.6		7		76				<0.2		2.2	
					Bottom	7.5	0.4	164	24.4	24.4	8.1	8.1	25.7	25.7	100.9	101.0	7.3	7.3	3.9		8		77				<0.2		2.2	
						7.5	0.4	169	24.4		8.1		25.7		101.1		7.3		3.9		9		77				<0.2		2.2	
IM8	Cloudy	Moderate	11:01	7.2	Surface	1.0	0.5	192	24.9	24.9	8.0	8.0	21.6	21.6	101.3	101.3	7.4	7.3	4.9	8.0	6	7	73	76	821694	807838	<0.2	<0.2	2.4	2.2
						1.0	0.5	203	24.9		8.0		21.6		101.3		7.4		5.1		5		74				<0.2		2.3	
					Middle	3.6	0.3	211	24.5	24.5	8.1	8.1	24.5	24.5	98.5	98.4	7.2		8.7		7		76				<0.2		2.1	
						3.6	0.3	212	24.5		8.1		24.5		98.2		7.1		9.1		5		76				<0.2		2.3	
					Bottom	6.2	0.3	162	24.4	24.4	8.1	8.1	26.2	26.2	98.0	98.0	7.1	7.1	10.7		9		77				<0.2		2.0	
						6.2	0.3	163	24.4		8.1		26.2		98.0		7.1		9.7		11		77				<0.2		1.9	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 02 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	10:52	8.0	Surface	1.0	0.3	208	24.5	24.5	8.1	8.1	22.3	22.3	91.4	91.4	6.7	6.7	3.7	3.9	6	8	74	76	822103	808799	<0.2	<0.2	2.2	2.3
						1.0	0.4	216	24.5		8.1		22.3		91.4		6.7		3.7		5		74				<0.2		2.2	
					Middle	4.0	0.2	219	24.3	24.3	8.1	8.1	23.0	23.0	90.1	90.1	6.6		3.9		5		75				<0.2		2.3	
						4.0	0.2	235	24.3		8.1		23.0		90.1		6.6		3.9		7		76				<0.2		2.3	
					Bottom	7.0	0.3	177	24.3	24.3	8.1	8.1	24.4	24.4	91.7	91.7	6.7	6.7	4.0		13		77				<0.2		2.3	
						7.0	0.3	182	24.3		8.1		24.4		91.7		6.7		4.0		12		77				<0.2		2.3	
IM10	Cloudy	Moderate	10:42	7.5	Surface	1.0	0.4	199	24.4	24.4	8.1	8.1	23.3	23.3	88.8	88.8	6.5	6.5	3.0	4.2	5	12	73	75	822224	809835	<0.2	<0.2	2.4	2.3
						1.0	0.4	209	24.4		8.1		23.3		88.8		6.5		3.0		6		73				<0.2		2.1	
					Middle	3.8	0.3	201	24.3	24.3	8.1	8.1	23.5	23.5	87.3	87.3	6.4		4.9		7		75				<0.2		2.3	
						3.8	0.3	218	24.3		8.1		23.5		87.3		6.4		4.9		6		75				<0.2		2.1	
					Bottom	6.5	0.3	179	24.1	24.1	8.1	8.1	25.5	25.5	89.2	89.3	6.5	6.5	4.8		26		77				<0.2		2.3	
						6.5	0.3	183	24.1		8.1		25.5		89.3		6.5		4.7		23		77				<0.2		2.3	
IM11	Cloudy	Moderate	10:33	8.5	Surface	1.0	0.3	191	24.3	24.3	8.1	8.1	23.9	23.9	87.2	87.2	6.4	6.3	4.5	8.2	4	7	73	75	821520	810527	<0.2	<0.2	2.3	2.1
						1.0	0.4	195	24.3		8.1		23.9		87.2		6.4		4.5		4		73				<0.2		2.1	
					Middle	4.3	0.3	206	24.0	24.0	8.1	8.1	25.8	25.8	85.0	85.0	6.2		10.0		4		75				<0.2		2.0	
						4.3	0.3	212	24.0		8.1		25.8		85.0		6.2		10.0		4		76				<0.2		2.0	
					Bottom	7.5	0.3	172	24.0	24.0	8.1	8.1	26.2	26.2	89.3	89.3	6.5	6.5	10.1		14		77				<0.2		1.9	
						7.5	0.3	172	24.0		8.1		26.2		89.3		6.5		10.1		14		77				<0.2		2.1	
IM12	Cloudy	Moderate	10:26	7.3	Surface	1.0	0.3	197	24.4	24.4	8.1	8.1	22.9	22.9	89.8	89.8	6.6	6.5	3.2	10.6	6	8	73	75	821176	811500	<0.2	<0.2	2.2	2.2
						1.0	0.3	208	24.4		8.1		22.9		89.8		6.6		3.2		6		73				<0.2		2.3	
					Middle	3.7	0.3	218	24.1	24.1	8.1	8.1	25.4	25.4	86.4	86.4	6.3		7.6		9		75				<0.2		2.0	
						3.7	0.3	227	24.1		8.1		25.4		86.4		6.3		7.6		8		76				<0.2		2.0	
					Bottom	6.3	0.3	177	23.8	23.8	8.1	8.1	26.9	26.9	83.2	83.2	6.0	6.0	20.9		9		76				<0.2		2.2	
						6.3	0.3	186	23.8		8.1		26.9		83.2		6.0		20.9		8		77				<0.2		2.4	
IM13	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
SR2	Cloudy	Moderate	09:58	4.4	Surface	1.0	0.4	224	24.8	24.8	8.2	8.2	23.1	23.1	96.6	96.6	7.0	7.0	5.7	8.7	5	6	73	74	821444	814165	<0.2	<0.2	1.6	1.9
						1.0	0.4	225	24.8		8.2		23.1		96.6		7.0		5.7		4		74				<0.2		1.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.3	236	24.2	24.2	8.1	8.1	25.5	25.5	88.2	88.2	6.4	6.4	11.5		8		75				<0.2		2.1	
						3.4	0.3	239	24.2		8.1		25.5		88.1		6.4		11.7		6		75				<0.2		2.0	
SR3	Cloudy	Moderate	11:17	8.1	Surface	1.0	0.4	216	25.0	25.0	8.0	8.0	21.4	21.4	102.1	102.1	7.5	7.4	4.1	6.0	3	3	-	-	822134	807558	-	-	-	-
						1.0	0.4	232	25.0		8.0		21.4		102.1		7.5		4.0		3		-				-		-	
					Middle	4.1	0.3	172	24.6	24.6	8.1	8.1	24.2	24.2	100.2	100.2	7.3		4.1		4		-				-		-	
						4.1	0.3	184	24.6		8.1		24.2		100.1		7.3		4.3		3		-				-		-	
					Bottom	7.1	0.3	166	24.3	24.3	8.1	8.1	26.4	26.4	97.5	97.6	7.0	7.0	9.8		2		-				-		-	
						7.1	0.3	180	24.3		8.1		26.4		97.6		7.0		9.9		3		-				-		-	
SR4A	Cloudy	Moderate	09:56	8.8	Surface	1.0	0.4	242	24.7	24.7	8.1	8.1	25.4	25.4	100.7	100.7	7.2	7.2	4.7	5.2	4	4	-	-	817179	807805	-	-	-	-
						1.0	0.4	253	24.7		8.1		25.4		100.7		7.2		4.7		4		-				-		-	
					Middle	4.4	0.3	216	24.7	24.7	8.1	8.1	25.4	25.4	99.1	99.1	7.1		5.0		4		-				-		-	
						4.4	0.4	218	24.7		8.1		25.4		99.0		7.1		4.9		5		-				-		-	
					Bottom	7.8	0.3	178	24.6	24.6	8.1	8.1	25.5	25.5	97.9	98.0	7.1	7.1	6.0		4		-				-		-	
						7.8	0.3	192	24.6		8.1		25.5		98.0		7.1		6.0		4		-				-		-	
SR5A	Cloudy	Moderate	09:42	5.6	Surface	1.0	0.2	208	24.7	24.7	8.1	8.1	25.2	25.2	99.9	99.9	7.2	7.2	6.4	6.0	7	7	-	-	816593	810698	-	-	-	-
						1.0	0.2	208	24.7		8.1		25.2		99.9		7.2		6.0		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.2	226	24.6	24.6	8.0	8.0	25.2	25.2	96.7	96.8	7.0	7.0	5.8		6		-				-		-	
						4.6	0.2	240	24.6		8.0		25.2		96.8		7.0		5.9		6		-				-		-	
SR6	Cloudy	Moderate	09:15	5.1	Surface	1.0	0.1	190	24.6	24.6	8.0	8.0	23.0	23.0	95.3	95.3	7.0	7.0	4.6	6.7	7	7	-	-	817902	814648	-	-	-	-
						1.0	0.1	204	24.6		8.0		23.0		95.3		7.0		4.6		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.1	230	24.3	24.3	8.0	8.0	25.1	25.1	91.2	91.3	6.6	6.6	8.7		7		-				-		-	
						4.1	0.1	237	24.3		8.0		25.1		91.3		6.6		8.8		9		-				-		-	
SR7	Cloudy	Moderate	08:45	19.6	Surface	1.0	0.1	203	24.1	24.1	8.0	8.0	25.6	25.6	89.7	89.7	6.5	6.3	2.5	2.4	4	4	-	-	823630	823739	-	-	-	-
						1.0	0.2	212	24.1		8.0		25.6		89.7		6.5		2.2		3		-				-		-	
					Middle	9.8	0.2	150	23.7	23.7	8.0	8.0	28.5	28.5	83.1	83.1	6.0		2.0		4		-				-		-	
						9.8	0.2	153	23.7		8.0		28.5		83.1		6.0		2.0		4		-				-		-	
					Bottom	18.6	0.2	186	23.5	23.5	8.0	8.0	30.1	30.1	82.2	82.2	5.9	5.9	2.9		3		-				-		-	
						18.6	0.2	188	23.5		8.0		30.1		82.2		5.9		2.9		5		-				-		-	
SR8	Cloudy	Moderate	10:13	5.4	Surface	1.0	0.5	228	24.6	24.6	8.2	8.2	23.2	23.2	94.9	94.9	6.9	6.9	11.9	13.9	4	5	-	-	820408	811580	-	-	-	-
						1.0	0.5	230	24.6		8.2		23.2		94.9		6.9		11.9		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.3	175	24.4	24.4	8.1	8.1	25.8	25.8	96.9	96.9	7.0	7.0	15.8		4		-				-		-	
						4.4	0.3	184	24.4		8.1		25.8		96.9		7.0		15.8		4		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 02 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	17:40	7.0	Surface	1.0	0.3	221	25.6	25.6	8.2	8.2	26.1	26.1	110.2	110.1	7.8	7.6	2.9	4.1	6	6	73	75	815610	804231	<0.2	<0.2	2.1	1.6
						1.0	0.3	240	25.6		8.2		26.1		109.9		7.8		3.0		7		73				<0.2		2.0	
					Middle	3.5	0.2	218	24.3	24.3	8.1	8.1	28.5	28.5	103.1	103.0	7.3		3.0		6		75				<0.2		1.5	
						3.5	0.2	229	24.3		8.1		28.5		102.9		7.3		3.1		6		75				<0.2		1.4	
					Bottom	6.0	0.2	228	24.1	24.1	8.1	8.1	29.6	29.6	98.4	98.5	7.0	7.0	6.5		5		76				<0.2		1.2	
						6.0	0.2	236	24.1		8.1		29.6		98.5		7.0		6.0		5		76				<0.2		1.3	
C2	Cloudy	Moderate	15:59	13.6	Surface	1.0	0.2	151	25.0	25.0	8.2	8.2	22.9	22.9	118.3	118.2	8.6	8.1	3.1	5.7	5	7	73	75	825699	806927	<0.2	<0.2	2.6	2.3
						1.0	0.2	153	25.0		8.2		22.9		118.1		8.6		3.2		5		73				<0.2		2.4	
					Middle	6.8	0.3	92	24.6	24.6	8.1	8.1	25.8	25.8	104.9	104.9	7.5		4.3		3		75				<0.2		2.4	
						6.8	0.3	93	24.6		8.1		25.8		104.8		7.5		4.5		5		76				<0.2		2.1	
					Bottom	12.6	0.3	91	24.2	24.2	8.1	8.1	27.2	27.2	97.8	97.9	7.0	7.0	9.9		10		77				<0.2		2.1	
						12.6	0.4	95	24.2		8.1		27.2		98.0		7.0		9.4		11		77				<0.2		2.1	
C3	Cloudy	Moderate	17:28	11.2	Surface	1.0	0.6	90	24.2	24.2	8.1	8.1	25.9	25.9	91.4	91.4	6.6	6.6	2.3	2.5	6	8	73	75	822116	817807	<0.2	<0.2	1.8	1.9
						1.0	0.6	95	24.2		8.1		25.9		91.4		6.6		2.3		8		74				<0.2		2.0	
					Middle	5.6	0.5	76	24.2	24.2	8.1	8.1	26.0	26.0	90.9	90.9	6.6		2.4		8		75				<0.2		1.9	
						5.6	0.5	80	24.2		8.1		26.0		90.9		6.6		2.4		9		76				<0.2		2.0	
					Bottom	10.2	0.5	103	24.2	24.2	8.1	8.1	26.5	26.5	90.9	90.9	6.6	6.6	2.8		8		76				<0.2		1.9	
						10.2	0.5	112	24.2		8.1		26.5		90.9		6.6		2.8		7		77				<0.2		2.0	
IM1	Cloudy	Moderate	17:26	7.7	Surface	1.0	0.1	196	24.7	24.7	8.1	8.1	27.1	27.1	106.8	106.8	7.6	7.4	4.0	4.4	5	9	73	75	818347	806443	<0.2	<0.2	1.6	1.5
						1.0	0.1	205	24.7		8.1		27.0		106.7		7.6		4.1		7		74				<0.2		1.6	
					Middle	3.9	0.2	181	24.3	24.4	8.1	8.1	28.7	28.7	100.3	100.3	7.1		3.6		10		76				<0.2		1.7	
						3.9	0.2	183	24.4		8.1		28.6		100.2		7.1		3.5		8		75				<0.2		1.7	
					Bottom	6.7	0.1	179	24.1	24.1	8.1	8.1	28.9	28.9	96.8	96.9	6.9	6.9	5.6		12		76				<0.2		1.2	
						6.7	0.1	181	24.1		8.1		28.9		96.9		6.9		5.6		10		77				<0.2		1.1	
IM2	Cloudy	Moderate	17:17	9.1	Surface	1.0	0.3	207	24.8	24.8	8.1	8.1	26.5	26.5	109.9	109.8	7.8	7.5	2.4	4.1	8	9	74	75	818853	806197	<0.2	<0.2	2.4	1.8
						1.0	0.3	210	24.8		8.1		26.5		109.7		7.8		2.5		6		74				<0.2		2.3	
					Middle	4.6	0.2	198	24.3	24.3	8.1	8.1	28.6	28.6	101.4	101.4	7.2		3.6		8		75				<0.2		1.6	
						4.6	0.2	199	24.3		8.1		28.6		101.4		7.2		3.7		11		75				<0.2		1.8	
					Bottom	8.1	0.1	213	24.1	24.1	8.1	8.1	28.7	28.7	97.6	97.7	7.0	7.0	6.1		11		77				<0.2		1.1	
						8.1	0.1	221	24.1		8.1		28.7		97.8		7.0		6.2		12		77				<0.2		1.3	
IM3	Cloudy	Moderate	17:08	8.6	Surface	1.0	0.2	150	25.3	25.3	8.2	8.2	26.4	26.4	111.6	111.4	7.9	7.4	3.2	6.6	6	7	73	75	819425	806027	<0.2	<0.2	2.3	1.8
						1.0	0.2	150	25.3		8.2		26.4		111.2		7.9		3.3		6		74				<0.2		2.0	
					Middle	4.3	0.1	117	24.0	24.0	8.1	8.1	28.9	28.9	95.7	95.8	6.8		7.6		9		76				<0.2		1.8	
						4.3	0.1	127	24.0		8.1		28.9		95.8		6.8		7.7		7		75				<0.2		1.9	
					Bottom	7.6	0.1	135	24.1	24.1	8.1	8.1	29.0	29.0	99.7	99.8	7.1	7.1	8.9		8		77				<0.2		1.4	
						7.6	0.1	139	24.1		8.1		29.0		99.9		7.1		9.0		8		77				<0.2		1.2	
IM4	Cloudy	Moderate	16:57	7.1	Surface	1.0	0.2	154	25.3	25.3	8.2	8.2	25.5	25.5	115.1	115.0	8.2	7.5	3.4	7.9	5	8	73	75	819560	805046	<0.2	<0.2	1.6	1.5
						1.0	0.2	162	25.3		8.2		25.5		114.8		8.2		3.5		3		73				<0.2		1.7	
					Middle	3.6	0.2	162	24.0	24.0	8.1	8.1	29.0	29.0	93.4	93.4	6.7		11.9		5		75				<0.2		1.6	
						3.6	0.2	168	24.0		8.1		29.0		93.4		6.7		11.7		6		76				<0.2		1.8	
					Bottom	6.1	0.1	171	24.0	24.0	8.1	8.1	29.2	29.2	96.4	96.4	6.9	6.9	8.5		15		77				<0.2		0.9	
						6.1	0.1	186	24.0		8.1		29.2		96.4		6.9		8.3		14		77				<0.2		1.2	
IM5	Cloudy	Moderate	16:46	7.5	Surface	1.0	0.2	148	25.3	25.3	8.2	8.2	24.8	24.8	120.5	120.4	8.6	7.8	2.8	6.3	5	7	73	75	820547	804934	<0.2	<0.2	1.6	1.7
						1.0	0.3	160	25.3		8.2		24.8		120.3		8.6		2.6		5		73				<0.2		1.9	
					Middle	3.8	0.2	119	24.3	24.3	8.1	8.1	27.1	27.1	97.6	97.5	7.0		6.6		9		75				<0.2		1.7	
						3.8	0.2	127	24.3		8.1		27.1		97.4		7.0		6.9		8		76				<0.2		1.7	
					Bottom	6.5	0.1	105	24.0	24.0	8.1	8.1	28.9	29.0	95.8	95.9	6.8	6.8	9.4		7		76				<0.2		1.4	
						6.5	0.1	113	24.0		8.1		29.0		95.9		6.8		9.5		8		76				<0.2		1.6	
IM6	Cloudy	Moderate	16:34	7.3	Surface	1.0	0.1	191	25.4	25.4	8.2	8.2	23.5	23.5	121.2	121.2	8.7	8.0	2.5	5.8	5	7	73	75	821077	805835	<0.2	<0.2	2.4	2.1
						1.0	0.1	195	25.4		8.2		23.5		121.2		8.7		2.6		4		73				<0.2		2.4	
					Middle	3.7	0.2	79	24.3	24.3	8.1	8.1	26.7	26.7	100.7	100.7	7.2		4.4		6		75				<0.2		2.5	
						3.7	0.2	84	24.3		8.1		26.7		100.6		7.2		4.4		8		76				<0.2		2.2	
					Bottom	6.3	0.2	113	24.0	24.0	8.1	8.1	28.4	28.4	94.8	94.8	6.8	6.8	10.5		8		77				<0.2		1.5	
						6.3	0.2	118	24.0		8.1		28.4		94.8		6.8		10.5		8		77				<0.2		1.8	
IM7	Cloudy	Moderate	16:25	8.5	Surface	1.0	0.1	151	25.0	25.0	8.2	8.2	24.1	24.1	119.5	119.4	8.6	8.3	2.6	5.2	6	8	73	75	821333	806828	<0.2	<0.2	2.4	2.2
						1.0	0.1	156	25.0		8.2		24.1		119.3		8.6		2.8		4		73				<0.2		2.4	
					Middle	4.3	0.2	70	24.7	24.8	8.1	8.1	26.2	26.2	111.1	111.1	7.9		3.5		8		75				<0.2		2.5	
						4.3	0.2	76	24.8		8.1		26.2		111.0		7.9		3.7		6		76				<0.2		2.3	
					Bottom	7.5	0.3	104	24.0	24.0	8.1	8.1	28.1	28.1	95.9	96.0	6.9	6.9	9.3		12		76				<0.2		1.8	
						7.5	0.3	114	24.0		8.1		28.1		96.1		6.9		9.1		11		77				<0.2		1.8	
IM8	Cloudy	Moderate	16:20	7.4	Surface	1.0	0.3	103	24.4	24.4	8.0	8.0	24.3	24.3	99.1	99.1	7.2	7.3	5.6	4.5	6	9	73	75	821694	807833	<0.2	<0.2	2.2	1.8
						1.0	0.3	108	24.4		8.0		24.3		99.1		7.2		5.5		6		74				<0.2		1.9	
					Middle	3.7	0.2	61	24.5	24.5	8.1	8.1	25.5	25.5	102.3	102.2	7.4		3.9		9		75				<0.2		1.7	
						3.7	0.2	61	24.5		8.1		25.4		102.1		7.4		3.8		11		75				<0.2		1.6	
					Bottom	6.4	0.2	72	24.3	24.3	8.1	8.1	26.6	26.6	99.6	99.6	7.2	7.2	4.2		11		77				<0.2		1.7	
						6.4	0.2	78	24.3		8.1		26.6		99.6		7.2		4.1		10		77				<0.2		1.9	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 02 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	16:26	6.4	Surface	1.0	0.4	160	25.2	25.2	8.2	8.2	21.8	21.8	101.0	101.0	7.4	7.1	2.1	3.9	7	8	73	76	822097	808800	<0.2	<0.2	1.7	1.7
						1.0	0.4	162	25.2		8.2		21.8		101.0		7.4		2.1		8		74				<0.2		1.7	
					Middle	3.2	0.2	120	24.2	24.2	8.2	8.2	25.0	25.0	93.7	93.7	6.8		4.5		9		76				<0.2		1.6	
						3.2	0.2	126	24.2		8.2		25.0		93.7		6.8		4.5		7		76				<0.2		1.7	
					Bottom	5.4	0.2	75	24.1	24.1	8.2	8.2	27.2	27.2	93.4	93.4	6.7	6.7	5.0		8		77				<0.2		1.8	
						5.4	0.3	79	24.1		8.2		27.2		93.4		6.7		5.0		8		77				<0.2		1.9	
IM10	Cloudy	Moderate	16:34	7.1	Surface	1.0	0.4	122	25.1	25.1	8.2	8.2	22.3	22.3	98.7	98.7	7.2	7.0	2.7	4.9	5	5	73	76	822227	809846	<0.2	<0.2	2.0	1.9
						1.0	0.4	133	25.1		8.2		22.3		98.7		7.2		2.7		4		74				<0.2		2.0	
					Middle	3.6	0.3	105	24.3	24.3	8.2	8.2	25.3	25.3	93.6	93.6	6.8		5.1		6		76				<0.2		1.8	
						3.6	0.3	111	24.3		8.2		25.3		93.6		6.8		5.1		4		76				<0.2		2.0	
					Bottom	6.1	0.3	97	24.2	24.2	8.2	8.2	26.7	26.7	92.9	92.9	6.7	6.7	6.9		4		77				<0.2		1.9	
						6.1	0.3	102	24.2		8.2		26.7		92.9		6.7		6.9		4		77				<0.2		1.8	
IM11	Cloudy	Moderate	16:38	7.0	Surface	1.0	0.2	129	24.6	24.6	8.1	8.1	22.7	22.7	94.9	94.9	6.9	6.9	2.1	3.3	3	5	73	75	821492	810560	<0.2	<0.2	1.9	1.9
						1.0	0.3	131	24.6		8.1		22.7		94.9		6.9		2.2		3		74				<0.2		1.9	
					Middle	3.5	0.6	120	24.3	24.3	8.2	8.2	24.5	24.5	95.0	95.0	6.9		3.9		4		75				<0.2		2.0	
						3.5	0.6	130	24.3		8.2		24.5		95.0		6.9		3.9		6		76				<0.2		2.0	
					Bottom	6.0	0.3	106	24.3	24.3	8.2	8.2	25.7	25.7	94.1	94.1	6.8	6.8	3.8		7		77				<0.2		1.9	
						6.0	0.3	112	24.3		8.2		25.7		94.1		6.8		3.8		5		77				<0.2		1.8	
IM12	Cloudy	Moderate	16:44	8.8	Surface	1.0	0.5	120	24.8	24.8	8.2	8.2	22.5	22.5	101.2	101.2	7.4	7.2	3.3	6.5	6	8	73	76	821160	811522	<0.2	<0.2	2.1	2.0
						1.0	0.5	121	24.8		8.2		22.5		101.2		7.4		3.3		6		74				<0.2		2.2	
					Middle	4.4	0.4	110	24.6	24.6	8.2	8.2	25.1	25.1	97.2	97.2	7.0		6.8		8		76				<0.2		1.9	
						4.4	0.4	117	24.6		8.2		25.1		97.2		7.0		6.8		7		76				<0.2		2.0	
					Bottom	7.8	0.2	140	24.4	24.4	8.2	8.2	26.5	26.5	95.6	95.6	6.9	6.9	9.4		9		77				<0.2		1.8	
						7.8	0.2	144	24.4		8.2		26.5		95.6		6.9		9.4		11		77				<0.2		2.0	
IM13	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
SR2	Cloudy	Moderate	17:12	4.9	Surface	1.0	0.4	77	24.5	24.5	8.2	8.2	23.3	23.3	90.3	90.3	6.6	6.6	6.7	12.2	5	5	74	74	821468	814177	<0.2	<0.2	2.1	2.1
						1.0	0.4	82	24.5		8.2		23.3		90.3		6.6		6.7		4		73				<0.2		2.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.1	65	24.2	24.2	8.1	8.1	25.6	25.6	88.3	88.3	6.4	6.4	17.7		5		75				<0.2		2.1	
						3.9	0.1	65	24.2		8.1		25.6		88.3		6.4		17.7		4		75				<0.2		2.1	
SR3	Cloudy	Moderate	16:12	8.2	Surface	1.0	0.2	142	25.0	25.0	8.2	8.2	23.0	23.0	116.5	116.5	8.5	8.0	2.8	5.2	7	8	-	-	822149	807553	-	-	-	-
						1.0	0.2	155	25.0		8.2		22.9		116.4		8.4		2.9		6		-				-		-	
					Middle	4.1	0.3	93	24.5	24.5	8.1	8.1	26.0	26.0	104.5	104.5	7.5		5.3		9		-				-		-	
						4.1	0.3	94	24.5		8.1		26.0		104.4		7.5		5.4		7		-				-		-	
					Bottom	7.2	0.3	92	24.2	24.2	8.1	8.1	27.2	27.2	107.8	108.1	7.7	7.8	7.5		8		-				-		-	
						7.2	0.3	94	24.2		8.1		27.2		108.3		7.8		7.3		10		-				-		-	
SR4A	Cloudy	Moderate	17:56	8.6	Surface	1.0	0.1	62	24.7	24.7	8.1	8.1	27.5	27.5	97.3	97.3	6.9	6.8	7.3	10.0	8	11	-	-	817184	807791	-	-	-	-
						1.0	0.1	65	24.7		8.1		27.5		97.2		6.9		7.4		8		-				-		-	
					Middle	4.3	0.1	39	24.2	24.2	8.1	8.1	28.5	28.5	94.3	94.3	6.7		9.7		12		-				-		-	
						4.3	0.1	39	24.2		8.1		28.5		94.3		6.7		9.7		11		-				-		-	
					Bottom	7.6	0.1	73	24.1	24.1	8.1	8.1	28.8	28.8	93.1	93.1	6.6	6.6	12.9		13		-				-		-	
						7.6	0.1	74	24.1		8.1		28.8		93.1		6.6		12.9		12		-				-		-	
SR5A	Cloudy	Moderate	18:16	5.4	Surface	1.0	0.0	335	25.1	25.1	8.1	8.1	25.3	25.3	105.8	105.8	7.6	7.6	6.3	6.9	10	9	-	-	816584	810690	-	-	-	-
						1.0	0.0	353	25.1		8.1		25.3		105.8		7.6		6.3		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.2	130	24.9	24.9	8.1	8.1	26.4	26.4	102.6	102.6	7.3	7.3	7.5		8		-				-		-	
						4.4	0.2	142	24.9		8.1		26.4		102.5		7.3		7.6		9		-				-		-	
SR6	Cloudy	Moderate	18:25	5.2	Surface	1.0	0.1	22	25.2	25.2	8.1	8.1	25.2	25.2	108.3	108.3	7.7	7.7	5.2	5.3	10	10	-	-	817892	814664	-	-	-	-
						1.0	0.1	23	25.2		8.1		25.2		108.2		7.7		5.3		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.2	136	25.1	25.1	8.1	8.1	26.2	26.2	107.2	107.2	7.6	7.6	5.4		10		-				-		-	
						4.2	0.2	147	25.1		8.1		26.2		107.2		7.6		5.4		11		-				-		-	
SR7	Cloudy	Moderate	17:59	18.6	Surface	1.0	1.1	61	24.8	24.8	8.1	8.1	24.5	24.5	100.3	100.3	7.3	6.8	2.0	2.3	6	6	-	-	823653	823739	-	-	-	-
						1.0	1.1	61	24.8		8.1		24.5		100.2		7.2		1.9		6		-				-		-	
					Middle	9.3	0.7	68	24.0	24.0	8.0	8.0	27.4	27.4	87.9	87.9	6.3		2.4		5		-				-		-	
						9.3	0.7	74	24.0		8.0		27.4		87.8		6.3		2.5		5		-				-		-	
					Bottom	17.6	0.1	75	23.7	23.7	8.0	8.0	29.8	29.9	89.3	89.3	6.4	6.4	2.4		6		-				-		-	
						17.6	0.1	78	23.7		8.0		29.9		89.3		6.4		2.3		8		-				-		-	
SR8	Cloudy	Moderate	16:51	4.3	Surface	1.0	0.3	68	24.5	24.5	8.2	8.2	23.4	23.4	93.0	92.9	6.8	6.8	6.3	7.7	6	8	-	-	820434	811603	-	-	-	-
						1.0	0.3	68	24.5		8.2		23.4		92.8		6.8		6.6		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.2	12	24.3	24.3	8.1	8.1	25.6	25.6	94.7	94.7	6.8	6.8	8.9		11		-				-		-	
						3.3	0.2	12	24.3		8.1		25.6		94.7		6.8		8.9		9		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 06 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	15:30	6.3	Surface	1.0	0.1	105	26.8	26.8	8.1	8.1	20.6	20.6	102.6	102.4	7.3	6.9	2.5	5.3	4	5	73	75	815606	804259	<0.2	<0.2	2.6	2.3
						1.0	0.1	113	26.8		8.1		20.6		102.2		7.3		2.7		4		73				<0.2		2.5	
					Middle	3.2	0.2	48	25.0	25.0	8.1	8.1	25.8	25.9	90.3	90.3	6.4		5.9		4		75				<0.2		2.3	
						3.2	0.2	48	25.0		8.1		25.9		90.3		6.4		5.8		6		75				<0.2		2.3	
					Bottom	5.3	0.3	23	24.9	24.9	8.1	8.1	29.2	29.2	93.1	93.2	6.5	6.6	7.8		7		77				<0.2		2.0	
						5.3	0.3	24	24.9		8.1		29.2		93.3		6.6		7.3		5		77				<0.2		2.1	
C2	Cloudy	Moderate	14:35	13.1	Surface	1.0	0.3	212	26.8	26.8	8.0	8.0	18.9	18.9	93.5	93.6	6.7	6.5	2.3	6.0	3	3	73	75	825682	806946	<0.2	<0.2	2.7	2.4
						1.0	0.3	230	26.7		8.0		18.9		93.6		6.7		2.5		2		73				<0.2		2.7	
					Middle	6.6	0.2	251	24.9	24.9	8.0	8.0	23.7	23.7	85.4	85.4	6.2		5.9		3		75				<0.2		2.2	
						6.6	0.3	269	24.9		8.0		23.7		85.3		6.2		6.0		5		75				<0.2		2.3	
					Bottom	12.1	0.1	241	24.9	24.9	8.0	8.0	24.7	24.7	85.0	85.0	6.1	6.1	9.6		4		76				<0.2		2.2	
						12.1	0.1	260	24.9		8.0		24.7		85.0		6.1		9.5		3		77				<0.2		2.2	
C3	Cloudy	Moderate	16:06	13.5	Surface	1.0	0.4	212	25.2	25.2	8.2	8.2	24.4	24.4	90.7	90.7	6.5	6.4	1.9	1.9	5	6	73	75	822095	817793	<0.2	<0.2	1.8	1.8
						1.0	0.4	231	25.2		8.2		24.4		90.7		6.5		1.9		6		73				<0.2		1.9	
					Middle	6.8	0.4	253	24.6	24.6	8.1	8.1	26.6	26.6	86.5	86.5	6.2		1.6		4		75				<0.2		1.8	
						6.8	0.4	270	24.6		8.1		26.6		86.5		6.2		1.6		5		76				<0.2		2.0	
					Bottom	12.5	0.2	282	24.1	24.1	8.1	8.1	30.2	30.2	88.6	88.6	6.3	6.3	2.2		8		77				<0.2		1.5	
						12.5	0.3	305	24.1		8.1		30.2		88.6		6.3		2.2		6		77				<0.2		1.6	
IM1	Cloudy	Moderate	15:18	7.4	Surface	1.0	0.1	-	26.0	26.0	8.1	8.1	24.9	24.9	91.1	91.0	6.4	6.3	3.4	4.8	3	5	73	75	818367	806455	<0.2	<0.2	1.8	1.5
						1.0	0.1	-	26.0		8.1		24.9		90.9		6.4		3.3		4		74				<0.2		1.8	
					Middle	3.7	0.2	11	24.8	24.8	8.1	8.1	28.1	28.1	86.8	86.8	6.1		5.4		5		75				<0.2		1.4	
						3.7	0.2	11	24.8		8.1		28.1		86.8		6.1		5.2		4		75				<0.2		1.4	
					Bottom	6.4	0.2	16	24.7	24.7	8.1	8.1	29.5	29.5	89.6	89.7	6.3	6.3	5.6		6		77				<0.2		1.5	
						6.4	0.2	16	24.7		8.1		29.5		89.8		6.3		5.6		6		77				<0.2		1.2	
IM2	Cloudy	Moderate	15:11	8.4	Surface	1.0	0.2	301	25.4	25.4	8.1	8.1	24.8	24.8	91.3	91.3	6.5	6.3	3.6	5.3	4	6	73	75	818843	806206	<0.2	<0.2	1.5	1.3
						1.0	0.2	327	25.4		8.1		24.8		91.2		6.5		3.7		5		73				<0.2		1.7	
					Middle	4.2	0.3	2	24.6	24.6	8.1	8.1	28.7	28.7	84.4	84.4	6.0		5.6		8		75				<0.2		1.2	
						4.2	0.3	2	24.6		8.1		28.7		84.4		6.0		5.7		6		75				<0.2		1.1	
					Bottom	7.4	0.3	6	24.6	24.6	8.1	8.1	29.4	29.4	85.0	85.0	6.0	6.0	6.6		8		77				<0.2		1.3	
						7.4	0.3	6	24.6		8.1		29.3		85.0		6.0		6.3		7		77				<0.2		1.2	
IM3	Cloudy	Moderate	15:05	8.0	Surface	1.0	0.2	259	25.9	25.9	8.1	8.1	22.0	22.0	92.7	92.7	6.7	6.4	3.4	6.5	4	7	73	75	819418	806019	<0.2	<0.2	2.0	1.7
						1.0	0.2	264	25.9		8.1		22.0		92.7		6.7		3.5		5		73				<0.2		2.2	
					Middle	4.0	0.2	22	24.7	24.7	8.1	8.1	27.6	27.6	84.3	84.3	6.0		8.4		5		75				<0.2		1.6	
						4.0	0.2	24	24.7		8.1		27.6		84.3		6.0		8.6		7		76				<0.2		1.6	
					Bottom	7.0	0.2	9	24.5	24.5	8.1	8.1	29.1	29.1	84.7	84.8	6.0	6.0	7.5		10		77				<0.2		1.2	
						7.0	0.2	9	24.5		8.1		29.1		84.8		6.0		7.5		12		77				<0.2		1.3	
IM4	Cloudy	Moderate	14:58	7.4	Surface	1.0	0.2	313	26.8	26.8	8.0	8.0	20.1	20.3	94.2	94.2	6.7	6.5	3.3	5.8	6	7	73	75	819558	805039	<0.2	<0.2	2.4	2.0
						1.0	0.2	329	26.8		8.0		20.4		94.1		6.7		3.5		6		73				<0.2		2.3	
					Middle	3.7	0.2	298	25.0	25.0	8.1	8.1	25.3	25.3	86.0	86.0	6.2		6.0		7		75				<0.2		2.1	
						3.7	0.2	302	25.0		8.1		25.2		86.0		6.2		6.0		6		76				<0.2		2.0	
					Bottom	6.4	0.2	14	24.5	24.5	8.0	8.0	29.0	29.0	82.9	83.0	5.9	5.9	8.1		10		77				<0.2		1.7	
						6.4	0.2	14	24.5		8.0		29.0		83.0		5.9		8.1		8		77				<0.2		1.7	
IM5	Cloudy	Moderate	14:47	6.5	Surface	1.0	0.3	292	26.7	26.7	8.0	8.0	19.4	19.4	97.7	97.7	7.0	6.8	2.8	5.2	5	7	73	75	820561	804938	<0.2	<0.2	2.2	2.0
						1.0	0.3	293	26.7		8.0		19.4		97.6		7.0		2.6		4		73				<0.2		2.4	
					Middle	3.3	0.4	302	25.6	25.6	8.0	8.0	22.5	22.5	91.1	91.1	6.6		7.8		7		75				<0.2		2.1	
						3.3	0.4	325	25.6		8.0		22.4		91.0		6.6		7.9		6		76				<0.2		2.2	
					Bottom	5.5	0.2	325	25.1	25.1	8.0	8.0	26.2	26.2	91.9	92.0	6.5	6.6	5.1		10		77				<0.2		1.7	
						5.5	0.2	341	25.1		8.0		26.2		92.1		6.6		5.0		9		77				<0.2		1.6	
IM6	Cloudy	Moderate	14:41	6.1	Surface	1.0	0.2	267	26.1	26.1	8.0	8.0	21.6	21.6	94.3	94.3	6.8	6.6	4.7	6.3	3	5	73	75	821044	805837	<0.2	<0.2	1.7	1.6
						1.0	0.2	281	26.1		8.0		21.6		94.2		6.8		4.9		3		74				<0.2		1.7	
					Middle	3.1	0.3	284	25.3	25.3	8.0	8.0	22.7	22.7	89.1	89.1	6.4		5.2		6		75				<0.2		1.6	
						3.1	0.3	298	25.3		8.0		22.7		89.0		6.4		5.4		5		76				<0.2		1.7	
					Bottom	5.1	0.2	305	24.7	24.7	8.0	8.0	27.5	27.5	84.5	84.6	6.0	6.0	8.9		6		77				<0.2		1.5	
						5.1	0.2	324	24.7		8.0		27.5		84.6		6.0		8.9		7		77				<0.2		1.5	
IM7	Cloudy	Moderate	14:35	7.7	Surface	1.0	0.3	259	25.6	25.6	8.0	8.0	21.5	21.5	91.4	91.4	6.6	6.5	2.9	3.7	4	8	73	75	821361	806821	<0.2	<0.2	1.7	1.6
						1.0	0.4	277	25.5		8.0		21.5		91.3		6.6		3.1		3		73				<0.2		1.7	
					Middle	3.9	0.3	279	25.1	25.1	8.0	8.0	23.2	23.2	87.4	87.4	6.3		3.2		10		75				<0.2		1.6	
						3.9	0.4	289	25.1		8.0		23.2		87.4		6.3		3.3		9		75				<0.2		1.6	
					Bottom	6.7	0.1	310	24.9	24.9	8.0	8.0	24.8	24.8	86.3	86.3	6.2	6.2	4.7		10		77				<0.2		1.5	
						6.7	0.1	339	24.9		8.0		24.8		86.3		6.2		4.8		10		77				<0.2		1.5	
IM8	Cloudy	Moderate	14:55	7.1	Surface	1.0	0.3	202	25.7	25.7	8.0	8.0	21.5	21.5	94.8	94.8	6.8	6.7	1.9	2.9	5	4	73	75	821711	807840	<0.2	<0.2	2.3	2.3
						1.0	0.3	206	25.7		8.0		21.5		94.7		6.8		1.9		4		74				<0.2		2.5	
					Middle	3.6	0.3	203	25.2	25.2	8.0	8.0	23.4	23.4	89.8	89.8	6.5		2.6		4		75				<0.2		2.2	
						3.6	0.3	208	25.2		8.0		23.4		89.8		6.5		2.7		3		76				<0.2		2.1	
					Bottom	6.1	0.2	240	25.1	25.1	8.0	8.0	23.8	23.8	88.9	88.9	6.4	6.4	4.2		4		77				<0.2		2.3	
						6.1	0.2	261	25.1		8.0		23.8		88.9		6.4		4.3		5		77				<0.2		2.2	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 06 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	15:02	7.4	Surface	1.0	0.0	211	25.6	25.6	8.1	8.1	20.1	20.1	91.2	91.2	6.7	6.7	1.2	3.1	4	4	73	75	822075	808824	<0.2	<0.2	2.7	2.6
						1.0	0.0	215	25.6		8.1		20.1		91.2		6.7		1.2		3		73				<0.2		2.7	
					Middle	3.7	0.1	264	25.2	25.2	8.1	8.1	22.3	22.3	90.6	90.6	6.6		2.8		4		75				<0.2		2.6	
						3.7	0.1	282	25.2		8.1		22.3		90.6		6.6		2.8		4		76				<0.2		2.4	
					Bottom	6.4	0.3	305	25.0	25.0	8.2	8.2	24.7	24.7	90.1	90.1	6.5	6.5	5.2		5		77				<0.2		2.5	
						6.4	0.3	323	25.0		8.2		24.7		90.1		6.5		5.2		6		77				<0.2		2.6	
IM10	Cloudy	Moderate	15:10	7.2	Surface	1.0	0.1	2	26.0	26.0	8.1	8.1	19.4	19.4	92.6	92.6	6.7	6.6	1.8	4.3	5	5	73	75	822244	809856	<0.2	<0.2	2.6	2.6
						1.0	0.1	2	26.0		8.1		19.4		92.6		6.7		1.8		4		73				<0.2		2.6	
					Middle	3.6	0.2	335	25.2	25.2	8.2	8.2	23.1	23.1	90.4	90.4	6.5		4.2		4		75				<0.2		2.4	
						3.6	0.2	351	25.2		8.2		23.1		90.4		6.5		4.2		4		76				<0.2		2.6	
					Bottom	6.2	0.1	323	24.9	24.9	8.2	8.2	25.1	25.1	91.4	91.4	6.6	6.6	7.0		5		77				<0.2		2.5	
						6.2	0.2	326	24.9		8.2		25.1		91.4		6.6		7.0		5		77				<0.2		2.8	
IM11	Cloudy	Moderate	15:16	8.3	Surface	1.0	0.3	293	25.7	25.7	8.2	8.2	22.1	22.1	96.5	96.5	7.0	6.6	1.9	6.4	5	6	73	75	821486	810529	<0.2	<0.2	1.9	1.8
						1.0	0.4	301	25.7		8.2		22.1		96.5		7.0		1.9		4		74				<0.2		1.8	
					Middle	4.2	0.3	282	24.7	24.7	8.2	8.2	25.5	25.5	86.4	86.4	6.2		7.8		4		75				<0.2		2.0	
						4.2	0.3	298	24.7		8.2		25.5		86.4		6.2		7.8		5		76				<0.2		1.8	
					Bottom	7.3	0.2	297	24.5	24.5	8.1	8.1	26.9	26.9	92.0	92.0	6.6	6.6	9.6		8		77				<0.2		1.7	
						7.3	0.3	311	24.5		8.1		26.9		92.0		6.6		9.6		9		77				<0.2		1.7	
IM12	Cloudy	Moderate	15:23	8.2	Surface	1.0	0.5	286	25.0	25.1	8.2	8.2	23.8	23.7	89.9	89.8	6.5	6.4	1.9	5.0	5	5	73	75	821173	811500	<0.2	<0.2	1.6	1.7
						1.0	0.5	303	25.1		8.2		23.6		89.7		6.5		2.0		4		74				<0.2		1.6	
					Middle	4.1	0.5	283	25.0	25.0	8.2	8.2	24.9	24.9	86.8	86.8	6.2		3.2		7		75				<0.2		1.5	
						4.1	0.6	290	25.0		8.2		24.9		86.8		6.2		3.2		5		75				<0.2		1.6	
					Bottom	7.2	0.4	285	24.3	24.3	8.1	8.1	28.0	28.0	88.5	88.5	6.3	6.3	9.8		5		77				<0.2		1.9	
						7.2	0.4	298	24.3		8.1		28.0		88.5		6.3		9.8		6		77				<0.2		2.0	
IM13	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
SR2	Cloudy	Moderate	15:49	5.1	Surface	1.0	0.5	338	25.3	25.3	8.2	8.2	24.4	24.4	94.1	94.1	6.7	6.7	1.9	2.8	4	5	73	74	821460	814185	<0.2	<0.2	1.0	1.1
						1.0	0.5	351	25.3		8.2		24.4		94.1		6.7		1.9		6		73				<0.2		1.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.2	282	25.0	25.0	8.2	8.2	25.8	25.8	98.0	98.0	7.0	7.0	3.7		4		75				<0.2		1.2	
						4.1	0.2	291	25.0		8.2		25.8		98.0		7.0		3.7		5		75				<0.2		1.0	
SR3	Cloudy	Moderate	14:46	8.4	Surface	1.0	0.4	217	26.0	26.0	8.0	8.0	20.6	20.6	92.3	92.3	6.7	6.5	2.1	4.7	2	3	-	-	822166	807571	-	-	-	-
						1.0	0.4	219	26.0		8.0		20.6		92.2		6.7		2.1		2		-				-		-	
					Middle	4.2	0.3	248	24.9	24.9	8.0	8.0	23.9	23.9	85.9	85.9	6.2		5.2		2		-				-		-	
						4.2	0.3	264	24.9		8.0		23.9		85.9		6.2		5.3		2		-				-		-	
					Bottom	7.4	0.2	312	24.9	24.9	8.0	8.0	24.9	24.9	86.6	86.7	6.2	6.2	6.6		4		-				-		-	
						7.4	0.2	317	24.9		8.0		24.9		86.7		6.2		6.8		3		-				-		-	
SR4A	Cloudy	Moderate	15:45	9.1	Surface	1.0	0.3	263	25.6	25.6	8.1	8.1	24.5	24.5	89.8	89.7	6.4	6.3	4.6	6.2	2	6	-	-	817190	807822	-	-	-	-
						1.0	0.4	282	25.6		8.1		24.5		89.5		6.4		4.6		4		-				-		-	
					Middle	4.6	0.2	268	25.1	25.1	8.1	8.1	26.1	26.1	85.8	85.8	6.1		6.7		6		-				-		-	
						4.6	0.2	291	25.1		8.1		26.1		85.7		6.1		6.7		4		-				-		-	
					Bottom	8.1	0.1	280	24.6	24.6	8.1	8.1	28.6	28.6	85.9	86.0	6.1	6.1	7.2		9		-				-		-	
						8.1	0.1	283	24.6		8.1		28.6		86.0		6.1		7.3		10		-				-		-	
SR5A	Cloudy	Moderate	16:04	5.6	Surface	1.0	0.2	320	25.5	25.5	8.0	8.0	24.6	24.7	87.1	87.0	6.2	6.2	6.9	8.0	5	5	-	-	816577	810694	-	-	-	-
						1.0	0.2	335	25.4		8.0		24.7		86.9		6.2		7.1		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.1	294	25.0	25.0	8.0	8.0	26.0	26.0	86.5	86.6	6.2	6.2	9.1		6		-				-		-	
						4.6	0.1	317	25.0		8.0		26.0		86.6		6.2		8.9		4		-				-		-	
SR6	Cloudy	Moderate	16:33	5.4	Surface	1.0	0.2	344	25.1	25.1	8.0	8.0	25.5	25.5	86.1	86.1	6.2	6.2	6.6	6.7	3	4	-	-	817892	814648	-	-	-	-
						1.0	0.2	355	25.1		8.0		25.5		86.1		6.2		6.5		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.1	340	25.2	25.2	8.0	8.0	25.7	25.7	87.6	87.6	6.2	6.2	6.8		5		-				-		-	
						4.4	0.1	350	25.2		8.0		25.7		87.6		6.2		6.8		5		-				-		-	
SR7	Cloudy	Moderate	16:34	18.3	Surface	1.0	0.1	105	24.9	24.9	8.1	8.1	25.9	25.9	89.6	89.6	6.4	6.1	2.0	2.1	<2	2	-	-	823616	823757	-	-	-	-
						1.0	0.1	111	24.9		8.1		25.9		89.5		6.4		2.2		<2		-				-		-	
					Middle	9.2	0.0	60	24.1	24.1	8.0	8.0	30.3	30.3	81.5	81.5	5.8		2.6		<2		-				-		-	
						9.2	0.0	64	24.1		8.0		30.3		81.5		5.8		2.7		<2		-				-		-	
					Bottom	17.3	0.2	211	24.1	24.2	8.0	8.0	30.6	30.6	84.9	85.0	6.0	6.0	1.5		3		-				-		-	
						17.3	0.2	217	24.2		8.0		30.5		85.1		6.0		1.5		2		-				-		-	
SR8	Cloudy	Moderate	15:35	5.6	Surface	1.0	0.1	60	26.1	26.1	8.2	8.2	21.9	21.9	94.1	93.5	6.7	6.7	4.2	6.1	5	5	-	-	820431	811612	-	-	-	-
						1.0	0.1	61	26.1		8.2		21.9		92.8		6.6		4.6		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.1	152	24.7	24.7	8.1	8.1	25.9	25.9	90.7	90.7	6.5	6.5	7.8		5		-				-		-	
						4.6	0.1	164	24.7		8.1		25.9		90.7		6.5		7.8		5		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 06 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	10:01	6.3	Surface	1.0	0.2	209	25.0	25.0	8.1	8.1	25.6	25.6	89.7	89.7	6.4	6.3	2.3	5.2	3	4	73	75	815634	804264	<0.2	<0.2	1.1	1.2
						1.0	0.2	224	25.0		8.1		25.6		89.7		6.4		2.3		3		73				<0.2		1.2	
					Middle	3.2	0.3	197	24.6	24.6	8.1	8.1	29.5	29.5	87.6	87.7	6.2		5.3		4		75				<0.2		1.5	
						3.2	0.3	214	24.6		8.1		29.5		87.7		6.2		5.4		3		75				<0.2		1.6	
					Bottom	5.3	0.2	191	24.5	24.5	8.1	8.1	30.4	30.4	87.0	87.1	6.1	6.1	7.9		5		76				<0.2		0.8	
						5.3	0.2	196	24.5		8.1		30.4		87.1		6.1		7.8		5		76				<0.2		1.0	
C2	Cloudy	Moderate	11:12	12.6	Surface	1.0	0.5	177	25.5	25.5	8.0	8.0	21.1	21.1	90.3	90.3	6.6	6.3	2.5	4.6	3	5	73	75	825699	806954	<0.2	<0.2	2.1	1.8
						1.0	0.5	177	25.5		8.0		21.1		90.3		6.6		2.6		4		73				<0.2		2.0	
					Middle	6.3	0.2	202	24.8	24.8	8.0	8.0	25.4	25.4	83.8	83.8	6.0		5.0		4		75				<0.2		1.8	
						6.3	0.2	220	24.8		8.0		25.4		83.8		6.0		5.1		5		75				<0.2		1.8	
					Bottom	11.6	0.1	278	24.6	24.6	8.1	8.1	27.9	27.9	83.2	83.2	5.9	5.9	6.3		5		76				<0.2		1.5	
						11.6	0.1	279	24.6		8.1		27.9		83.2		5.9		6.3		7		77				<0.2		1.4	
C3	Cloudy	Moderate	09:26	13.1	Surface	1.0	0.2	113	24.6	24.6	8.0	8.0	25.8	25.8	85.0	85.0	6.1	6.0	1.4	2.4	3	5	73	75	822095	817822	<0.2	<0.2	1.3	1.3
						1.0	0.2	116	24.6		8.0		25.8		85.0		6.1		1.4		5		73				<0.2		1.4	
					Middle	6.6	0.1	308	24.1	24.1	8.0	8.0	29.1	29.1	81.1	81.1	5.8		2.2		6		75				<0.2		1.3	
						6.6	0.1	335	24.1		8.0		29.1		81.1		5.8		2.2		4		75				<0.2		1.5	
					Bottom	12.1	0.1	81	23.9	23.9	8.0	8.0	29.4	29.4	83.5	83.5	6.0	6.0	3.5		5		77				<0.2		1.3	
						12.1	0.1	81	23.9		8.0		29.4		83.5		6.0		3.5		5		77				<0.2		1.2	
IM1	Cloudy	Moderate	10:15	6.9	Surface	1.0	0.2	161	25.1	25.1	8.1	8.1	25.0	25.0	89.3	89.3	6.4	6.3	2.5	4.4	4	7	73	75	818338	806446	<0.2	<0.2	1.9	1.3
						1.0	0.2	175	25.1		8.1		25.0		89.2		6.4		2.4		5		73				<0.2		1.7	
					Middle	3.5	0.3	173	24.6	24.6	8.1	8.1	29.0	29.0	86.4	86.5	6.1		5.5		4		75				<0.2		1.1	
						3.5	0.3	179	24.6		8.1		29.0		86.5		6.1		5.4		5		75				<0.2		1.1	
					Bottom	5.9	0.2	159	24.5	24.5	8.1	8.1	29.5	29.5	88.7	88.8	6.3	6.3	5.3		12		77				<0.2		0.8	
						5.9	0.2	166	24.5		8.1		29.5		88.8		6.3		5.3		10		77				<0.2		1.0	
IM2	Cloudy	Moderate	10:28	8.3	Surface	1.0	0.3	198	25.3	25.3	8.1	8.1	21.8	21.8	88.7	88.7	6.4	6.3	2.5	4.6	2	5	73	75	818846	806201	<0.2	<0.2	2.0	1.5
						1.0	0.3	199	25.3		8.1		21.8		88.6		6.4		2.5		4		73				<0.2		2.0	
					Middle	4.2	0.2	211	24.6	24.6	8.1	8.1	28.5	28.5	85.7	85.7	6.1		5.7		3		75				<0.2		0.9	
						4.2	0.2	216	24.6		8.1		28.5		85.7		6.1		6.0		5		75				<0.2		1.0	
					Bottom	7.3	0.1	163	24.5	24.5	8.1	8.1	29.2	29.2	84.8	84.8	6.0	6.0	5.5		8		77				<0.2		1.6	
						7.3	0.1	168	24.5		8.1		29.2		84.8		6.0		5.6		6		77				<0.2		1.6	
IM3	Cloudy	Moderate	10:39	8.4	Surface	1.0	0.3	222	25.1	25.1	8.1	8.1	24.3	24.3	87.5	87.5	6.3	6.2	3.2	6.3	5	5	73	75	819427	806034	<0.2	<0.2	2.0	1.7
						1.0	0.3	224	25.1		8.1		24.3		87.4		6.3		3.3		3		73				<0.2		2.0	
					Middle	4.2	0.3	193	24.7	24.7	8.1	8.1	27.6	27.6	84.9	84.9	6.0		6.6		4		75				<0.2		1.5	
						4.2	0.3	201	24.7		8.1		27.6		84.8		6.0		6.7		4		76				<0.2		1.8	
					Bottom	7.4	0.1	203	24.5	24.5	8.1	8.1	29.3	29.3	84.8	84.9	6.0	6.0	8.9		6		77				<0.2		1.5	
						7.4	0.1	209	24.5		8.1		29.3		84.9		6.0		8.9		6		77				<0.2		1.5	
IM4	Cloudy	Moderate	10:49	7.5	Surface	1.0	0.3	204	25.3	25.3	8.1	8.1	21.6	21.6	88.1	88.1	6.4	6.2	3.9	7.1	7	9	73	75	819560	805029	<0.2	<0.2	2.1	1.6
						1.0	0.4	215	25.3		8.1		21.6		88.0		6.4		4.1		7		74				<0.2		1.9	
					Middle	3.8	0.4	194	24.7	24.7	8.1	8.1	27.2	27.2	84.6	84.6	6.0		8.8		7		75				<0.2		1.6	
						3.8	0.4	211	24.7		8.1		27.1		84.6		6.0		8.8		8		76				<0.2		1.7	
					Bottom	6.5	0.2	173	24.5	24.5	8.1	8.1	28.8	28.8	86.0	86.1	6.1	6.1	8.6		14		77				<0.2		1.0	
						6.5	0.2	185	24.5		8.1		28.8		86.2		6.1		8.6		13		77				<0.2		1.1	
IM5	Cloudy	Moderate	10:53	6.7	Surface	1.0	0.4	210	25.4	25.4	8.1	8.1	21.5	21.5	89.4	89.4	6.5	6.3	3.4	6.1	6	8	73	75	820566	804933	<0.2	<0.2	1.7	1.5
						1.0	0.4	225	25.4		8.1		21.4		89.4		6.5		3.6		6		74				<0.2		1.8	
					Middle	3.4	0.3	188	24.6	24.6	8.1	8.1	27.8	27.8	84.1	84.1	6.0		7.2		9		75				<0.2		1.4	
						3.4	0.3	196	24.6		8.1		27.8		84.1		6.0		7.2		9		75				<0.2		1.4	
					Bottom	5.7	0.2	180	24.6	24.6	8.1	8.1	28.4	28.4	85.7	85.8	6.1	6.1	7.5		10		77				<0.2		1.5	
						5.7	0.2	186	24.6		8.1		28.4		85.9		6.1		7.6		10		77				<0.2		1.4	
IM6	Cloudy	Moderate	11:05	6.5	Surface	1.0	0.3	208	25.9	25.9	8.0	8.0	21.1	21.2	88.1	88.0	6.4	6.3	5.0	7.3	5	8	73	75	821045	805830	<0.2	<0.2	1.6	1.6
						1.0	0.3	209	25.8		8.0		21.2		87.9		6.4		5.2		7		73				<0.2		1.7	
					Middle	3.3	0.3	208	25.0	25.0	8.1	8.1	23.6	23.6	84.5	84.5	6.1		8.3		8		76				<0.2		1.5	
						3.3	0.4	228	25.0		8.1		23.6		84.4		6.1		8.2		9		76				<0.2		1.5	
					Bottom	5.5	0.2	173	24.7	24.7	8.1	8.1	26.9	26.9	83.3	83.3	5.9	5.9	8.6		11		77				<0.2		1.4	
						5.5	0.2	181	24.7		8.1		26.9		83.3		5.9		8.6		9		77				<0.2		1.7	
IM7	Cloudy	Moderate	11:11	6.9	Surface	1.0	0.3	202	25.5	25.5	8.0	8.0	22.3	22.3	87.1	87.1	6.3	6.2	4.2	6.6	5	7	73	75	821347	806821	<0.2	<0.2	1.9	1.5
						1.0	0.3	206	25.5		8.0		22.3		87.0		6.3		4.3		5		74				<0.2		1.7	
					Middle	3.5	0.3	206	24.9	24.9	8.1	8.1	24.1	24.1	84.2	84.2	6.1		7.7		7		75				<0.2		1.3	
						3.5	0.4	213	24.8		8.1		24.1		84.1		6.1		7.9		9		76				<0.2		1.4	
					Bottom	5.9	0.2	192	24.7	24.7	8.0	8.0	26.7	26.7	83.8	83.8	6.0	6.0	7.9		8		77				<0.2		1.2	
						5.9	0.2	203	24.7		8.0		26.7		83.8		6.0		7.8		9		77				<0.2		1.2	
IM8	Cloudy	Moderate	10:43	8.1	Surface	1.0	0.4	160	25.4	25.5	8.0	8.0	22.6	22.6	90.4	90.4	6.5	6.3	2.8	4.4	6	8	73	75	821700	807826	<0.2	<0.2	2.4	2.1
						1.0	0.4	172	25.5		8.0		22.6		90.3		6.5		2.8		4		74				<0.2		2.3	
					Middle	4.1	0.2	163	24.9	24.9	8.0	8.0	24.7	24.7	84.3	84.3	6.1		4.4		7		75				<0.2		2.2	
						4.1	0.2	163	24.9		8.0		24.7		84.3		6.1		4.5		9		75				<0.2		2.3	
					Bottom	7.1	0.1	119	24.8	24.8	8.1	8.1	25.1	25.1	83.4	83.4	6.0	6.0	6.2		11		77				<0.2		1.7	
						7.1	0.1	120	24.8		8.1		25.1		83.3		6.0		5.8		11		77				<0.2		1.6	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 06 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	10:28	7.2	Surface	1.0	0.4	143	25.3	25.3	8.1	8.1	20.3	20.3	86.8	86.8	6.4	6.3	2.7	4.2	5	5	73	75	822076	808791	<0.2	<0.2	2.5	2.5
						1.0	0.5	149	25.3		8.1		20.3		86.8		6.4		2.7		3		74				<0.2		2.3	
					Middle	3.6	0.4	134	24.7	24.7	8.1	8.1	24.9	24.9	84.5	84.5	6.1		4.2		6		75				<0.2		2.4	
						3.6	0.4	147	24.7		8.1		24.9		84.5		6.1		4.2		4		76				<0.2		2.4	
					Bottom	6.2	0.2	97	24.6	24.6	8.2	8.2	25.9	25.9	86.6	86.6	6.2	6.2	5.7		5		77				<0.2		2.5	
						6.2	0.2	106	24.6		8.2		25.9		86.6		6.2		5.7		5		77				<0.2		2.6	
IM10	Cloudy	Moderate	10:19	7.6	Surface	1.0	0.3	91	25.2	25.2	8.1	8.1	20.1	20.1	87.3	87.3	6.4	6.3	3.0	6.3	4	4	73	75	822239	809832	<0.2	<0.2	2.5	2.6
						1.0	0.3	98	25.2		8.1		20.1		87.3		6.4		3.0		5		73				<0.2		2.6	
					Middle	3.8	0.5	102	24.8	24.8	8.1	8.1	24.4	24.4	84.5	84.5	6.1		6.5		3		75				<0.2		2.6	
						3.8	0.5	105	24.8		8.1		24.4		84.5		6.1		6.5		3		76				<0.2		2.6	
					Bottom	6.6	0.4	86	24.6	24.6	8.2	8.2	26.1	26.1	86.1	86.1	6.2	6.2	9.4		3		77				<0.2		2.6	
						6.6	0.4	90	24.6		8.2		26.1		86.1		6.2		9.4		4		77				<0.2		2.4	
IM11	Cloudy	Moderate	10:09	8.1	Surface	1.0	0.5	85	25.0	25.0	8.1	8.1	20.2	20.2	84.6	84.6	6.2	6.1	3.6	5.8	5	6	73	75	821516	810551	<0.2	<0.2	2.5	2.5
						1.0	0.5	86	25.0		8.1		20.2		84.6		6.2		3.6		4		74				<0.2		2.4	
					Middle	4.1	0.4	107	24.7	24.7	8.2	8.2	25.1	25.1	83.9	83.9	6.0		5.8		6		75				<0.2		2.4	
						4.1	0.4	112	24.7		8.2		25.1		83.9		6.0		5.8		6		76				<0.2		2.6	
					Bottom	7.1	0.4	85	24.7	24.7	8.1	8.1	26.0	26.0	87.3	87.3	6.3	6.3	8.1		9		77				<0.2		2.5	
						7.1	0.5	85	24.7		8.1		26.0		87.3		6.3		8.1		8		77				<0.2		2.6	
IM12	Cloudy	Moderate	09:58	9.6	Surface	1.0	0.4	78	24.9	24.9	8.1	8.1	21.5	21.5	84.1	84.1	6.2	6.1	2.9	4.7	5	5	73	75	821142	811499	<0.2	<0.2	2.6	2.5
						1.0	0.5	83	24.9		8.1		21.5		84.1		6.2		2.9		4		73				<0.2		2.6	
					Middle	4.8	0.4	86	24.7	24.7	8.1	8.1	24.7	24.7	83.7	83.7	6.0		4.3		5		75				<0.2		2.6	
						4.8	0.4	92	24.7		8.1		24.7		83.7		6.0		4.3		5		76				<0.2		2.4	
					Bottom	8.6	0.1	71	24.5	24.6	8.1	8.1	26.5	26.5	87.9	88.0	6.3	6.3	7.0		5		77				<0.2		2.5	
						8.6	0.1	72	24.6		8.1		26.5		88.1		6.3		6.9		4		77				<0.2		2.5	
IM13	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
SR2	Cloudy	Moderate	09:45	4.2	Surface	1.0	0.3	79	24.9	24.9	8.1	8.1	22.7	22.7	87.5	87.5	6.4	6.4	1.9	1.6	5	4	73	74	821462	814146	<0.2	<0.2	1.8	1.8
						1.0	0.3	84	24.9		8.1		22.7		87.5		6.4		1.9		4		73				<0.2		1.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	80	24.8	24.8	8.1	8.1	24.1	24.1	87.6	87.7	6.3	6.3	1.2		4		75				<0.2		1.9	
						3.2	0.2	85	24.8		8.1		24.1		87.7		6.3		1.2		4		75				<0.2		1.6	
SR3	Cloudy	Moderate	10:55	8.3	Surface	1.0	0.5	166	25.8	25.8	8.0	8.0	20.6	20.6	91.6	91.6	6.6	6.3	2.1	4.1	5	6	-	-	822147	807569	-	-	-	-
						1.0	0.6	178	25.8		8.0		20.6		91.6		6.6		2.0		3		-				-		-	
					Middle	4.2	0.2	184	24.8	24.8	8.0	8.0	24.9	24.9	83.8	83.8	6.0		5.3		6		-				-		-	
						4.2	0.2	185	24.8		8.0		24.9		83.8		6.0		4.9		7		-				-		-	
					Bottom	7.3	0.1	282	24.8	24.8	8.0	8.0	25.7	25.7	84.0	84.0	6.0	6.0	5.2		7		-				-		-	
						7.3	0.1	301	24.8		8.0		25.6		84.0		6.0		5.0		9		-				-		-	
SR4A	Cloudy	Moderate	09:46	9.0	Surface	1.0	0.2	60	25.2	25.2	8.0	8.0	24.0	24.0	87.8	87.8	6.3	6.2	4.3	6.9	8	10	-	-	817172	807797	-	-	-	-
						1.0	0.2	61	25.2		8.0		24.0		87.8		6.3		4.2		8		-				-		-	
					Middle	4.5	0.3	61	24.6	24.6	8.1	8.1	28.2	28.2	84.7	84.7	6.0		7.9		9		-				-		-	
						4.5	0.3	62	24.6		8.1		28.2		84.7		6.0		7.9		9		-				-		-	
					Bottom	8.0	0.3	75	24.6	24.6	8.1	8.1	28.3	28.3	84.0	84.0	6.0	6.0	8.6		11		-				-		-	
						8.0	0.3	77	24.6		8.1		28.3		84.0		6.0		8.5		12		-				-		-	
SR5A	Cloudy	Moderate	09:26	4.9	Surface	1.0	0.1	13	25.6	25.6	8.0	8.0	23.0	23.0	92.1	92.1	6.6	6.6	2.5	4.8	4	6	-	-	816574	810707	-	-	-	-
						1.0	0.1	14	25.6		8.0		23.0		92.0		6.6		2.5		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.0	69	25.3	25.3	8.0	8.0	23.7	23.7	92.1	92.2	6.6	6.6	7.1		6		-				-		-	
						3.9	0.0	69	25.3		8.0		23.7		92.2		6.6		7.2		8		-				-		-	
SR6	Cloudy	Moderate	09:02	4.5	Surface	1.0	0.1	56	25.4	25.4	8.0	8.0	22.1	22.1	92.1	92.1	6.7	6.7	1.3	2.3	4	5	-	-	817903	814644	-	-	-	-
						1.0	0.1	58	25.3		8.0		22.1		92.0		6.7		1.3		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	47	25.2	25.2	8.0	8.0	23.0	23.0	90.4	90.4	6.5	6.5	3.1		5		-				-		-	
						3.5	0.1	51	25.2		8.0		23.0		90.4		6.5		3.3		6		-				-		-	
SR7	Cloudy	Moderate	09:01	17.2	Surface	1.0	0.2	73	24.4	24.4	8.0	8.0	28.4	28.4	83.6	83.6	6.0	5.8	1.2	1.9	3	5	-	-	823638	823745	-	-	-	-
						1.0	0.2	75	24.4		8.0		28.4		83.5		5.9		1.3		5		-				-		-	
					Middle	8.6	0.1	46	24.0	24.0	8.0	8.0	30.7	30.7	81.0	81.0	5.7		2.5		5		-				-		-	
						8.6	0.1	49	24.0		8.0		30.7		81.0		5.7		2.5		7		-				-		-	
					Bottom	16.2	0.2	74	23.9	23.9	8.0	8.0	31.2	31.2	81.8	81.8	5.8	5.8	1.9		6		-				-		-	
						16.2	0.2	80	23.9		8.0		31.2		81.8		5.8		2.0		6		-				-		-	
SR8	Cloudy	Moderate	09:53	5.7	Surface	1.0	0.1	1	25.2	25.2	8.1	8.1	20.8	20.8	84.5	84.5	6.2	6.2	2.9	3.5	<2	<2	-	-	820427	811574	-	-	-	-
						1.0	0.1	1	25.2		8.1		20.8		84.4		6.2		3.0		<2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.7	0.1	33	24.7	24.7	8.1	8.1	24.7	24.7	83.1	83.1	6.0	6.0	4.1		<2		-				-		-	
						4.7	0.1	34	24.7		8.1		24.7		83.1		6.0		4.1		<2		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 09 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	17:44	9.0	Surface	1.0	0.3	89	26.2	26.2	8.0	8.0	21.0	21.0	93.4	93.4	6.7	6.6	5.6	7.3	9	9	73	75	815613	804252	<0.2	<0.2	2.7	2.7
						1.0	0.3	93	26.2		8.0		21.0		93.4		6.7		5.6		9		73				<0.2		2.7	
					Middle	4.5	0.3	86	25.8	25.8	8.0	8.0	21.9	21.9	89.5	89.5	6.4		7.5		7		75				<0.2		2.6	
						4.5	0.3	87	25.8		8.0		21.9		89.4		6.4		7.7		9		75				<0.2		2.7	
					Bottom	8.0	0.2	83	25.4	25.4	8.0	8.0	23.7	23.7	94.6	94.8	6.8	6.8	8.6		11		76				<0.2		2.9	
						8.0	0.2	85	25.4		8.0		23.7		94.9		6.8		8.6		10		77				<0.2		2.8	
C2	Cloudy	Moderate	17:00	12.8	Surface	1.0	0.3	165	26.3	26.3	7.9	7.9	17.4	17.4	90.3	90.3	6.6	6.5	5.7	7.0	8	8	73	75	825688	806933	<0.2	<0.2	3.5	3.6
						1.0	0.4	178	26.3		7.9		17.4		90.3		6.6		5.6		8		73				<0.2		3.6	
					Middle	6.4	0.2	120	25.5	25.5	8.0	8.0	22.3	22.3	87.9	88.0	6.4		6.4		8		75				<0.2		3.6	
						6.4	0.2	122	25.5		8.0		22.3		88.0		6.4		6.5		7		76				<0.2		3.5	
					Bottom	11.8	0.2	63	25.5	25.5	8.0	8.0	22.6	22.6	93.7	93.9	6.8	6.8	8.9		8		77				<0.2		3.6	
						11.8	0.2	67	25.5		8.0		22.6		94.1		6.8		8.7		7		77				<0.2		3.7	
C3	Cloudy	Moderate	18:13	12.5	Surface	1.0	0.8	293	26.4	26.4	8.1	8.1	18.0	18.0	93.9	93.9	6.8	6.5	2.1	5.1	6	6	73	75	822109	817794	<0.2	<0.2	1.8	1.8
						1.0	0.8	316	26.4		8.1		18.0		93.8		6.8		2.1		6		73				<0.2		1.8	
					Middle	6.3	0.3	268	25.3	25.3	8.1	8.1	22.5	22.5	85.7	85.7	6.2		6.5		6		75				<0.2		1.7	
						6.3	0.3	285	25.3		8.1		22.5		85.7		6.2		6.5		5		76				<0.2		1.8	
					Bottom	11.5	0.3	282	25.3	25.3	8.1	8.1	22.9	22.9	87.1	87.2	6.3	6.3	6.8		5		76				<0.2		1.8	
						11.5	0.3	290	25.3		8.1		22.9		87.2		6.3		6.8		7		76				<0.2		1.7	
IM1	Cloudy	Moderate	17:38	7.6	Surface	1.0	0.2	68	26.2	26.2	8.0	8.0	21.2	21.2	93.6	93.6	6.7	6.5	5.2	6.6	6	6	73	75	818339	806452	<0.2	<0.2	2.5	2.4
						1.0	0.3	72	26.1		8.0		21.2		93.5		6.7		5.4		4		73				<0.2		2.4	
					Middle	3.8	0.1	75	25.8	25.8	8.0	8.0	21.9	21.9	87.7	87.7	6.3		6.2		5		75				<0.2		2.2	
						3.8	0.1	81	25.8		8.0		21.9		87.6		6.3		6.1		4		76				<0.2		2.5	
					Bottom	6.6	0.1	132	25.3	25.3	8.0	8.0	23.8	23.8	86.6	86.7	6.2	6.2	8.4		8		77				<0.2		2.4	
						6.6	0.1	136	25.3		8.0		23.8		86.7		6.2		8.3		7		77				<0.2		2.5	
IM2	Cloudy	Moderate	17:32	8.4	Surface	1.0	0.2	26	26.1	26.1	8.0	8.0	21.3	21.4	94.1	93.4	6.8	6.6	5.7	7.2	3	5	73	75	818843	806190	<0.2	<0.2	2.4	2.3
						1.0	0.3	27	26.0		8.0		21.5		92.7		6.7		5.3		5		74				<0.2		2.3	
					Middle	4.2	0.1	23	25.7	25.7	8.0	8.0	22.5	22.5	90.1	90.1	6.5		7.3		6		75				<0.2		2.2	
						4.2	0.1	24	25.7		8.0		22.5		90.1		6.5		7.5		4		75				<0.2		2.3	
					Bottom	7.4	0.2	66	25.4	25.4	8.0	8.0	23.8	23.8	93.8	94.0	6.7	6.8	8.5		4		77				<0.2		2.3	
						7.4	0.2	67	25.4		8.0		23.8		94.1		6.8		8.6		5		77				<0.2		2.4	
IM3	Cloudy	Moderate	17:25	8.7	Surface	1.0	0.1	66	26.2	26.2	8.0	8.0	20.8	20.8	93.8	93.8	6.8	6.6	4.4	6.1	4	5	73	75	819403	806000	<0.2	<0.2	2.4	2.8
						1.0	0.1	69	26.2		8.0		20.8		93.7		6.7		4.5		4		73				<0.2		2.5	
					Middle	4.4	0.1	61	25.7	25.7	8.0	8.0	22.5	22.5	89.1	89.1	6.4		6.5		6		75				<0.2		3.0	
						4.4	0.1	64	25.7		8.0		22.5		89.1		6.4		6.8		4		76				<0.2		3.0	
					Bottom	7.7	0.3	56	25.3	25.3	8.0	8.0	23.8	23.8	91.8	92.0	6.6	6.6	7.3		5		76				<0.2		3.2	
						7.7	0.3	58	25.3		8.0		23.8		92.1		6.6		7.3		5		77				<0.2		2.8	
IM4	Cloudy	Moderate	17:18	8.2	Surface	1.0	0.2	144	26.2	26.2	8.0	8.0	20.7	20.7	93.5	93.4	6.7	6.6	4.0	6.3	4	6	73	75	819576	805031	<0.2	<0.2	3.0	3.0
						1.0	0.2	152	26.2		8.0		20.7		93.3		6.7		4.2		6		74				<0.2		3.0	
					Middle	4.1	0.1	134	25.8	25.8	8.0	8.0	22.1	22.1	89.7	89.7	6.4		7.4		7		75				<0.2		3.1	
						4.1	0.1	141	25.8		8.0		22.1		89.6		6.4		7.5		5		76				<0.2		2.9	
					Bottom	7.2	0.1	193	25.3	25.3	8.0	8.0	23.7	23.7	88.4	88.5	6.4	6.4	7.4		8		77				<0.2		2.9	
						7.2	0.1	212	25.3		8.0		23.7		88.5		6.4		7.4		7		77				<0.2		3.1	
IM5	Cloudy	Moderate	17:12	7.3	Surface	1.0	0.3	144	26.2	26.2	8.0	8.0	20.8	20.8	94.7	94.7	6.8	6.7	4.4	6.4	3	5	73	75	820582	804927	<0.2	<0.2	3.0	2.9
						1.0	0.4	157	26.2		8.0		20.8		94.6		6.8		4.3		5		74				<0.2		2.9	
					Middle	3.7	0.2	148	25.9	25.9	8.0	8.0	21.9	21.9	90.9	90.9	6.5		6.5		5		75				<0.2		2.9	
						3.7	0.2	156	25.9		8.0		21.9		90.9		6.5		6.5		6		75				<0.2		2.8	
					Bottom	6.3	0.1	142	25.3	25.3	8.0	8.0	23.7	23.7	90.7	90.8	6.5	6.5	8.2		6		77				<0.2		2.7	
						6.3	0.1	143	25.3		8.0		23.7		90.9		6.5		8.3		7		77				<0.2		2.8	
IM6	Cloudy	Moderate	17:06	7.0	Surface	1.0	0.3	144	26.2	26.2	8.0	8.0	21.0	21.0	94.7	94.7	6.8	6.6	4.2	6.8	6	6	73	75	821047	805817	<0.2	<0.2	3.8	**3.7**
						1.0	0.3	154	26.2		8.0		21.0		94.6		6.8		4.3		5		74				<0.2		3.7	
					Middle	3.5	0.1	153	25.8	25.8	8.0	8.0	22.2	22.2	88.0	87.9	6.3		7.6		5		75				<0.2		3.7	
						3.5	0.1	153	25.8		8.0		22.1		87.8		6.3		7.9		7		75				<0.2		3.6	
					Bottom	6.0	0.1	168	25.4	25.4	8.0	8.0	23.5	23.5	86.9	87.0	6.2	6.3	8.6		4		76				<0.2		3.9	
						6.0	0.1	170	25.4		8.0		23.5		87.0		6.3		8.3		6		77				<0.2		3.7	
IM7	Cloudy	Moderate	17:00	8.5	Surface	1.0	0.4	157	26.2	26.2	8.0	8.0	20.8	20.8	94.9	94.9	6.8	6.6	4.0	6.4	6	5	73	75	821346	806818	<0.2	<0.2	3.3	**3.5**
						1.0	0.4	163	26.2		8.0		20.8		94.8		6.8		3.9		4		74				<0.2		3.2	
					Middle	4.3	0.3	131	25.9	25.9	8.0	8.0	21.5	21.5	88.7	88.7	6.4		7.1		4		75				<0.2		3.6	
						4.3	0.3	142	25.9		8.0		21.5		88.7		6.4		7.1		5		75				<0.2		3.8	
					Bottom	7.5	0.1	91	25.3	25.3	8.0	8.0	23.7	23.7	89.4	89.4	6.4	6.4	8.2		7		76				<0.2		3.4	
						7.5	0.2	93	25.3		8.0		23.7		89.4		6.4		8.2		6		77				<0.2		3.4	
IM8	Cloudy	Moderate	17:22	8.9	Surface	1.0	0.3	169	26.4	26.4	8.0	8.0	20.8	20.8	90.9	90.9	6.8	6.6	4.0	6.4	5	6	73	75	821690	807828	<0.2	<0.2	3.3	**3.4**
						1.0	0.4	172	26.4		8.0		20.8		90.8		6.8		3.9		7		73				<0.2		3.3	
					Middle	4.5	0.3	126	25.6	25.6	8.0	8.0	21.5	21.5	87.7	87.7	6.4		7.1		6		75				<0.2		3.6	
						4.5	0.3	135	25.6		8.0		21.5		87.7		6.4		7.1		6		76				<0.2		3.7	
					Bottom	7.9	0.2	74	25.4	25.4	8.0	8.0	23.5	23.5	89.6	89.6	6.4	6.4	8.2		6		77				<0.2		3.5	
						7.9	0.2	74	25.4		8.0		23.5		89.6		6.4		8.2		6		77				<0.2		3.2	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 09 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
IM9	Cloudy	Moderate	17:26	8.4	Surface	1.0	0.6	109	26.1	26.1	8.1	8.1	17.7	17.9	89.2	89.2	6.6	6.5	3.5	4.5	5	6	73	75	822096	808796	<0.2	<0.2	3.1	**3.4**
						1.0	0.6	109	26.0		8.1		18.0		89.1		6.5		3.5		6		74				<0.2		3.4	
					Middle	4.2	0.5	92	25.7	25.7	8.1	8.1	20.8	20.8	87.5	87.5	6.4		4.9		6		75				<0.2		3.4	
						4.2	0.6	98	25.7		8.1		20.8		87.4		6.3		4.9		7		75				<0.2		3.6	
					Bottom	7.4	0.5	82	25.5	25.6	8.1	8.1	22.1	22.1	88.0	88.1	6.4	6.4	5.2		6		77				<0.2		3.3	
						7.4	0.5	84	25.6		8.1		22.1		88.1		6.4		5.0		6		77				<0.2		3.5	
IM10	Cloudy	Moderate	17:30	8.5	Surface	1.0	0.7	111	26.1	26.1	8.1	8.1	17.2	17.2	89.2	89.2	6.6	6.5	3.3	5.0	4	5	73	75	822236	809856	<0.2	<0.2	3.6	**3.3**
						1.0	0.7	112	26.1		8.1		17.2		89.2		6.6		3.4		5		73				<0.2		3.5	
					Middle	4.3	0.6	90	25.7	25.7	8.1	8.1	20.7	20.7	86.7	86.7	6.3		5.1		3		75				<0.2		3.0	
						4.3	0.6	96	25.7		8.1		20.7		86.6		6.3		5.2		4		75				<0.2		3.0	
					Bottom	7.5	0.5	79	25.4	25.4	8.1	8.1	22.3	22.3	86.8	86.9	6.3	6.3	6.5		6		77				<0.2		3.5	
						7.5	0.5	84	25.4		8.1		22.3		86.9		6.3		6.4		5		77				<0.2		3.4	
IM11	Cloudy	Moderate	17:36	8.4	Surface	1.0	0.7	112	26.2	26.2	8.1	8.1	17.1	17.1	88.6	88.6	6.5	6.4	4.2	6.5	5	5	73	75	821485	810546	<0.2	<0.2	3.1	3.1
						1.0	0.7	117	26.1		8.1		17.1		88.6		6.5		4.3		4		73				<0.2		3.1	
					Middle	4.2	0.5	92	25.5	25.5	8.1	8.1	21.4	21.4	85.8	85.8	6.2		7.2		6		75				<0.2		3.0	
						4.2	0.5	97	25.5		8.1		21.4		85.8		6.2		7.4		5		75				<0.2		3.1	
					Bottom	7.4	0.4	78	25.4	25.4	8.1	8.1	22.4	22.4	86.9	87.0	6.3	6.3	8.0		6		77				<0.2		3.1	
						7.4	0.4	83	25.4		8.1		22.4		87.0		6.3		7.7		5		77				<0.2		3.0	
IM12	Cloudy	Moderate	17:42	9.0	Surface	1.0	0.7	111	25.9	25.9	8.1	8.1	19.9	19.9	88.4	88.4	6.4	6.3	4.1	5.6	4	4	73	75	821149	811513	<0.2	<0.2	3.0	3.1
						1.0	0.8	115	25.9		8.1		19.9		88.3		6.4		4.1		2		74				<0.2		3.1	
					Middle	4.5	0.5	105	25.5	25.5	8.1	8.1	21.3	21.3	85.8	85.8	6.2		6.2		5		75				<0.2		3.1	
						4.5	0.5	113	25.5		8.1		21.3		85.8		6.2		6.3		5		76				<0.2		3.2	
					Bottom	8.0	0.4	82	25.3	25.4	8.1	8.1	22.5	22.5	87.0	87.1	6.3	6.3	6.5		5		77				<0.2		3.0	
						8.0	0.4	82	25.4		8.1		22.5		87.1		6.3		6.3		5		77				<0.2		3.0	
IM13	Cloudy	Moderate	17:22	7.6	Surface	1.0	0.4	66	26.8	26.8	8.1	8.1	20.8	20.8	93.3	93.4	6.7	6.6	6.7	6.4	12	12	-	-	820586	806228	-	-	-	-
						1.0	0.4	68	26.8		8.1		20.8		93.5		6.8		6.7		12		-				-		-	
					Middle	3.8	0.3	69	26.1	26.1	8.1	8.1	21.1	21.1	90.1	90.2	6.5		5.4		11		-				-		-	
						3.8	0.4	64	26.1		8.1		21.1		90.2		6.5		5.4		13		-				-		-	
					Bottom	6.6	0.4	90	25.7	25.7	8.1	8.1	23.2	23.2	88.7	88.5	6.3	6.3	7.2		11		-				-		-	
						6.6	0.3	82	25.7		8.1		23.2		88.3		6.3		7.2		12		-				-		-	
SR2	Cloudy	Moderate	17:59	5.5	Surface	1.0	0.6	295	26.3	26.3	8.0	8.0	18.8	18.8	89.9	89.9	6.5	6.5	2.7	3.1	3	3	73	74	821457	814176	<0.2	<0.2	1.7	1.7
						1.0	0.7	320	26.3		8.0		18.7		89.9		6.5		2.7		3		73				<0.2		1.7	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.5	0.4	292	25.5	25.5	8.1	8.1	21.9	21.9	89.5	89.6	6.5	6.5	3.6		3		75				<0.2		1.7	
						4.5	0.4	318	25.5		8.1		21.9		89.6		6.5		3.5		4		76				<0.2		1.7	
SR3	Cloudy	Moderate	17:08	9.4	Surface	1.0	0.3	161	26.5	26.5	7.9	7.9	19.0	19.0	90.8	90.8	6.6	6.5	4.7	6.1	4	3	-	-	822145	807553	-	-	-	-
						1.0	0.3	175	26.5		7.9		19.0		90.8		6.6		4.8		3		-				-		-	
					Middle	4.7	0.3	107	25.5	25.5	8.0	8.0	22.4	22.4	86.6	86.6	6.3		4.8		3		-				-		-	
						4.7	0.3	116	25.5		8.0		22.4		86.6		6.3		4.9		3		-				-		-	
					Bottom	8.4	0.2	70	25.4	25.4	8.0	8.0	22.6	22.6	89.2	89.3	6.4	6.4	8.7		3		-				-		-	
						8.4	0.2	74	25.4		8.0		22.6		89.3		6.4		8.5		2		-				-		-	
SR4A	Cloudy	Moderate	18:02	8.2	Surface	1.0	0.4	78	26.6	26.6	8.1	8.1	24.5	24.5	89.8	89.7	6.4	6.3	4.6	6.1	2	5	-	-	817171	807804	-	-	-	-
						1.0	0.4	82	26.6		8.1		24.5		89.5		6.4		4.6		4		-				-		-	
					Middle	4.1	0.3	74	25.1	25.1	8.0	8.0	26.1	26.1	85.8	85.8	6.1		6.4		3		-				-		-	
						4.1	0.4	80	25.1		8.0		26.1		85.7		6.1		6.4		3		-				-		-	
					Bottom	7.2	0.3	74	25.6	25.6	8.0	8.0	28.6	28.6	85.9	86.0	6.1	6.1	7.1		7		-				-		-	
						7.2	0.3	76	25.6		8.0		28.6		86.0		6.1		7.2		9		-				-		-	
SR5A	Cloudy	Moderate	18:15	4.1	Surface	1.0	0.3	80	26.1	26.1	8.0	8.0	21.6	21.6	92.0	91.9	6.6	6.6	5.5	7.0	7	8	-	-	816579	810703	-	-	-	-
						1.0	0.4	80	26.1		8.0		21.6		91.8		6.6		5.6		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.3	76	25.2	25.2	8.0	8.0	23.8	23.8	86.5	86.5	6.2	6.2	8.4		9		-				-		-	
						3.1	0.3	78	25.2		8.0		23.8		86.5		6.2		8.6		10		-				-		-	
SR6	Cloudy	Moderate	18:34	4.5	Surface	1.0	0.1	133	25.2	25.2	8.0	8.0	25.5	25.5	86.1	86.1	6.2	6.2	6.6	6.7	9	10	-	-	817905	814663	-	-	-	-
						1.0	0.1	145	25.2		8.0		25.5		86.1		6.2		6.5		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	60	25.1	25.1	8.0	8.0	25.7	25.7	87.6	87.6	6.2	6.2	6.8		11		-				-		-	
						3.5	0.1	61	25.1		8.0		25.7		87.6		6.2		6.8		9		-				-		-	
SR7	Cloudy	Moderate	18:55	18.7	Surface	1.0	0.1	215	26.3	26.3	8.0	8.0	20.8	20.8	93.5	93.5	6.5	6.4	3.7	4.0	5	5	-	-	823644	823739	-	-	-	-
						1.0	0.1	232	26.3		8.0		20.8		93.5		6.5		3.4		5		-				-		-	
					Middle	9.4	0.3	81	25.5	25.5	8.0	8.0	22.3	22.3	91.0	91.1	6.3		4.1		3		-				-		-	
						9.4	0.3	87	25.5		8.0		22.3		91.1		6.3		4.1		4		-				-		-	
					Bottom	17.7	0.2	95	23.3	23.3	8.0	8.0	24.4	24.3	89.8	89.7	6.1	6.1	4.5		6		-				-		-	
						17.7	0.2	100	23.2		8.0		24.1		89.5		6.1		4.3		4		-				-		-	
SR8	Cloudy	Moderate	17:50	6.0	Surface	1.0	0.5	295	26.2	26.2	8.1	8.1	19.8	19.8	91.3	91.3	6.6	6.6	2.4	3.1	<2	<2	-	-	820410	811604	-	-	-	-
						1.0	0.5	322	26.2		8.1		19.8		91.2		6.6		2.4		<2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	5.0	0.3	212	25.6	25.6	8.1	8.1	21.2	21.6	89.2	89.3	6.5	6.5	3.8		<2		-				-		-	
						5.0	0.3	231	25.6		8.1		21.9		89.3		6.4		3.8		<2		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 09 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	11:25	8.5	Surface	1.0	0.6	194	25.7	25.7	8.1	8.1	23.6	23.6	100.5	100.4	7.2	6.9	6.4	8.1	8	9	73	75	815619	804258	<0.2	<0.2	2.1	1.8
						1.0	0.6	198	25.7		8.1		23.6		100.2		7.2		6.7		8		74				<0.2		1.9	
					Middle	4.3	0.5	202	25.3	25.3	8.1	8.1	27.4	27.5	93.9	94.0	6.6		8.1		10		75				<0.2		1.8	
						4.3	0.6	221	25.3		8.1		27.5		94.0		6.6		8.1		8		75				<0.2		1.8	
					Bottom	7.5	0.4	208	25.2	25.2	8.1	8.1	28.4	28.4	95.8	95.9	6.7	6.7	9.5		8		76				<0.2		1.7	
						7.5	0.4	216	25.2		8.1		28.4		95.9		6.7		9.6		9		77				<0.2		1.6	
C2	Cloudy	Moderate	12:11	12.5	Surface	1.0	0.5	149	26.4	26.4	7.9	7.9	18.0	18.0	89.4	89.4	6.5	6.4	7.1	12.0	8	11	73	75	825678	806936	<0.2	<0.2	3.8	3.8
						1.0	0.6	155	26.3		7.9		18.0		89.3		6.5		7.4		6		73				<0.2		3.7	
					Middle	6.3	0.3	146	25.5	25.5	8.0	8.0	22.2	22.2	86.3	86.3	6.2		12.6		12		75				<0.2		3.7	
						6.3	0.3	152	25.5		8.0		22.2		86.3		6.2		12.7		11		75				<0.2		3.9	
					Bottom	11.5	0.3	46	25.4	25.4	8.0	8.0	22.6	22.6	87.0	87.1	6.3	6.3	16.0		15		76				<0.2		3.8	
						11.5	0.3	46	25.4		8.0		22.6		87.1		6.3		16.0		13		77				<0.2		3.8	
C3	Cloudy	Moderate	10:55	12.3	Surface	1.0	0.7	86	25.4	25.4	8.0	8.0	25.6	25.6	89.4	89.4	6.4	6.3	3.8	3.9	10	11	73	75	822122	817792	<0.2	<0.2	2.0	1.5
						1.0	0.8	88	25.4		8.0		25.6		89.4		6.4		3.8		11		73				<0.2		1.8	
					Middle	6.2	0.4	89	25.0	25.0	8.0	8.0	27.5	27.5	86.7	86.7	6.1		3.4		12		75				<0.2		1.2	
						6.2	0.4	92	25.0		8.0		27.5		86.7		6.1		3.4		10		75				<0.2		1.2	
					Bottom	11.3	0.3	68	24.9	24.9	8.0	8.0	28.2	28.2	87.5	87.6	6.2	6.2	4.6		10		76				<0.2		1.3	
						11.3	0.3	74	24.9		8.0		28.2		87.6		6.2		4.6		11		76				<0.2		1.2	
IM1	Cloudy	Moderate	11:36	8.5	Surface	1.0	0.8	196	26.4	26.4	8.2	8.2	22.6	22.6	100.5	100.1	7.1	6.9	5.6	6.9	13	20	73	75	818347	806466	<0.2	<0.2	2.1	1.9
						1.0	0.8	199	26.4		8.2		22.6		99.6		7.1		5.5		14		74				<0.2		2.1	
					Middle	4.3	0.6	191	25.4	25.4	8.1	8.1	26.5	26.5	93.5	93.5	6.6		7.5		24		75				<0.2		2.0	
						4.3	0.6	194	25.4		8.1		26.5		93.5		6.6		7.5		23		75				<0.2		2.2	
					Bottom	7.5	0.5	195	25.3	25.3	8.1	8.1	27.6	27.6	94.8	94.9	6.7	6.7	7.4		24		77				<0.2		1.4	
						7.5	0.5	212	25.3		8.1		27.6		95.0		6.7		7.7		23		77				<0.2		1.4	
IM2	Cloudy	Moderate	11:43	9.5	Surface	1.0	0.8	200	26.3	26.3	8.1	8.1	21.6	21.6	103.1	103.0	7.4	7.1	4.2	6.2	8	10	73	75	818859	806188	<0.2	<0.2	2.4	2.0
						1.0	0.9	214	26.3		8.1		21.6		102.9		7.4		4.1		8		73				<0.2		2.3	
					Middle	4.8	0.7	210	25.5	25.5	8.1	8.1	24.1	24.1	95.5	95.5	6.8		6.1		8		75				<0.2		2.0	
						4.8	0.8	212	25.5		8.1		24.1		95.4		6.8		6.2		8		75				<0.2		2.0	
					Bottom	8.5	0.6	201	25.4	25.4	8.1	8.1	26.2	26.2	94.1	94.2	6.7	6.7	8.3		16		77				<0.2		1.7	
						8.5	0.6	211	25.4		8.1		26.2		94.2		6.7		8.4		14		77				<0.2		1.7	
IM3	Cloudy	Moderate	11:53	9.4	Surface	1.0	0.8	199	26.1	26.1	8.1	8.1	21.5	21.5	98.7	98.5	7.1	6.9	4.9	7.1	6	8	73	75	819407	806001	<0.2	<0.2	2.7	2.4
						1.0	0.9	211	26.1		8.1		21.5		98.2		7.1		4.9		8		74				<0.2		2.5	
					Middle	4.7	0.7	208	25.5	25.5	8.1	8.1	24.4	24.4	93.4	93.4	6.7		7.8		8		75				<0.2		2.5	
						4.7	0.8	213	25.5		8.1		24.4		93.4		6.7		7.6		9		75				<0.2		2.6	
					Bottom	8.4	0.6	206	25.4	25.4	8.1	8.1	25.3	25.3	92.6	92.7	6.6	6.6	8.8		9		77				<0.2		2.0	
						8.4	0.6	213	25.4		8.1		25.3		92.7		6.6		8.6		9		77				<0.2		2.0	
IM4	Cloudy	Moderate	12:07	8.8	Surface	1.0	0.6	189	26.2	26.2	8.1	8.1	21.3	21.3	97.0	97.0	7.0	6.9	6.6	8.1	11	14	73	75	819582	805058	<0.2	<0.2	2.6	2.4
						1.0	0.6	203	26.2		8.1		21.3		97.0		7.0		6.7		12		73				<0.2		2.6	
					Middle	4.4	0.4	207	26.1	26.1	8.1	8.2	21.7	21.7	95.3	95.3	6.8		7.9		10		75				<0.2		2.3	
						4.4	0.5	220	26.1		8.2		21.7		95.2		6.8		8.0		11		75				<0.2		2.4	
					Bottom	7.8	0.3	200	25.7	25.7	8.3	8.3	22.9	22.9	94.7	94.9	6.8	6.8	9.4		20		77				<0.2		2.2	
						7.8	0.3	212	25.7		8.3		22.9		95.0		6.8		9.7		21		77				<0.2		2.2	
IM5	Cloudy	Moderate	12:12	8.0	Surface	1.0	0.7	186	26.1	26.1	8.1	8.1	21.4	21.4	96.3	96.3	6.9	6.9	6.7	7.5	8	11	73	75	820567	804920	<0.2	<0.2	2.3	2.4
						1.0	0.7	186	26.1		8.1		21.4		96.3		6.9		6.9		8		74				<0.2		2.5	
					Middle	4.0	0.5	189	26.0	26.0	8.2	8.2	21.7	21.7	95.5	95.5	6.9		7.3		8		75				<0.2		2.3	
						4.0	0.5	195	26.0		8.2		21.7		95.5		6.9		7.0		8		76				<0.2		2.4	
					Bottom	7.0	0.3	182	25.7	25.7	8.3	8.3	23.1	23.1	93.6	93.7	6.7	6.7	8.6		16		77				<0.2		2.6	
						7.0	0.3	193	25.7		8.3		23.1		93.7		6.7		8.7		17		77				<0.2		2.5	
IM6	Cloudy	Moderate	12:19	7.6	Surface	1.0	0.5	172	26.0	26.0	8.0	8.0	20.1	20.2	92.0	92.0	6.7	6.5	6.1	7.4	8	13	73	75	821062	805845	<0.2	<0.2	2.7	2.6
						1.0	0.5	185	26.0		8.0		20.2		91.9		6.7		6.0		9		73				<0.2		2.5	
					Middle	3.8	0.3	186	25.4	25.4	8.0	8.0	23.0	23.0	86.2	86.2	6.2		7.3		10		75				<0.2		2.6	
						3.8	0.4	201	25.4		8.0		23.0		86.2		6.2		7.3		10		75				<0.2		2.6	
					Bottom	6.6	0.3	190	25.3	25.3	8.0	8.0	23.2	23.2	85.5	85.5	6.2	6.2	8.7		20		77				<0.2		2.6	
						6.6	0.3	207	25.3		8.0		23.2		85.5		6.2		8.9		19		77				<0.2		2.5	
IM7	Cloudy	Moderate	12:28	7.6	Surface	1.0	0.5	186	25.9	25.9	8.0	8.0	20.3	20.3	88.6	88.5	6.4	6.3	7.4	7.4	7	11	73	75	821356	806850	<0.2	<0.2	2.3	2.5
						1.0	0.5	201	25.9		8.0		20.3		88.4		6.4		7.5		8		73				<0.2		2.5	
					Middle	3.8	0.4	157	25.4	25.4	8.0	8.0	23.1	23.1	85.8	85.8	6.2		6.5		7		75				<0.2		2.6	
						3.8	0.4	169	25.4		8.0		23.1		85.8		6.2		6.7		8		75				<0.2		2.4	
					Bottom	6.6	0.3	132	25.3	25.3	8.0	8.0	23.2	23.2	85.9	86.0	6.2	6.2	8.2		18		77				<0.2		2.6	
						6.6	0.3	138	25.3		8.0		23.2		86.0		6.2		8.1		18		77				<0.2		2.6	
IM8	Cloudy	Moderate	11:51	9.0	Surface	1.0	0.3	171	26.8	26.8	7.9	7.9	15.9	15.9	101.4	101.4	7.4	6.9	1.5	6.6	6	8	73	75	821697	807851	<0.2	<0.2	3.7	3.5
						1.0	0.3	174	26.8		7.9		15.9		101.4		7.4		1.5		7		73				<0.2		3.6	
					Middle	4.5	0.3	136	25.5	25.5	8.0	8.0	22.0	22.0	86.9	87.0	6.3		9.9		9		75				<0.2		3.4	
						4.5	0.3	145	25.5		8.0		22.0		87.0		6.3		9.7		8		75				<0.2		3.6	
					Bottom	8.0	0.2	99	25.5	25.5	8.0	8.0	22.1	22.1	87.0	87.0	6.3	6.3	8.4		8		77				<0.2		3.4	
						8.0	0.2	106	25.5		8.0		22.0		87.0		6.3		8.4		9		77				<0.2		3.2	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 09 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	11:46	7.2	Surface	1.0	0.4	186	25.8	25.8	8.1	8.1	21.1	21.1	88.0	88.0	6.4	6.3	3.2	4.5	6	8	73	75	822074	808801	<0.2	<0.2	3.1	3.2
						1.0	0.4	194	25.8		8.1		21.1		87.9		6.4		3.2		7		73				<0.2		3.0	
					Middle	3.6	0.5	133	25.3	25.3	8.1	8.1	23.0	23.0	84.2	84.2	6.1		4.4		7		76				<0.2		3.2	
						3.6	0.5	138	25.3		8.1		23.0		84.2		6.1		4.4		7		76				<0.2		3.1	
					Bottom	6.2	0.2	166	25.2	25.2	8.1	8.1	24.6	24.6	84.3	84.4	6.0	6.0	5.9		9		77				<0.2		3.2	
						6.2	0.2	177	25.2		8.1		24.6		84.4		6.0		5.9		10		77				<0.2		3.4	
IM10	Cloudy	Moderate	11:42	7.2	Surface	1.0	0.4	176	25.9	25.9	8.1	8.1	20.7	20.7	87.4	87.3	6.3	6.3	2.9	3.7	6	6	73	75	822232	809823	<0.2	<0.2	3.0	3.1
						1.0	0.5	188	25.9		8.1		20.7		87.2		6.3		3.0		5		73				<0.2		3.2	
					Middle	3.6	0.5	122	25.3	25.3	8.1	8.1	23.0	23.0	85.2	85.2	6.2		3.8		4		75				<0.2		3.2	
						3.6	0.5	122	25.3		8.1		23.0		85.2		6.2		3.9		6		75				<0.2		3.2	
					Bottom	6.2	0.2	135	25.2	25.2	8.1	8.1	24.5	24.5	86.4	86.5	6.2	6.2	4.4		6		76				<0.2		2.8	
						6.2	0.2	135	25.2		8.1		24.5		86.5		6.2		4.4		6		76				<0.2		3.0	
IM11	Cloudy	Moderate	11:37	8.5	Surface	1.0	0.5	179	25.8	25.8	8.1	8.1	20.7	20.8	87.2	87.1	6.3	6.3	3.0	3.5	6	9	73	75	821509	810564	<0.2	<0.2	3.0	3.3
						1.0	0.5	185	25.7		8.1		20.8		87.0		6.3		3.0		7		73				<0.2		2.9	
					Middle	4.3	0.4	128	25.3	25.3	8.1	8.1	22.8	22.8	85.6	85.6	6.2		3.4		10		75				<0.2		3.2	
						4.3	0.5	134	25.3		8.1		22.8		85.6		6.2		3.5		9		75				<0.2		3.4	
					Bottom	7.5	0.3	133	25.2	25.2	8.1	8.1	24.5	24.6	87.7	87.8	6.3	6.3	4.2		10		77				<0.2		3.8	
						7.5	0.3	133	25.2		8.1		24.6		87.8		6.3		4.1		10		77				<0.2		3.6	
IM12	Cloudy	Moderate	11:30	9.4	Surface	1.0	0.4	170	26.2	26.2	8.1	8.1	20.5	20.5	90.9	90.9	6.6	6.3	2.2	3.7	7	8	73	75	821160	811521	<0.2	<0.2	3.5	3.3
						1.0	0.5	186	26.2		8.1		20.5		90.8		6.5		2.3		9		74				<0.2		3.2	
					Middle	4.7	0.4	129	25.3	25.3	8.1	8.1	23.3	23.3	83.9	83.9	6.1		4.0		8		75				<0.2		3.3	
						4.7	0.4	130	25.2		8.1		23.3		83.9		6.0		4.0		7		75				<0.2		3.3	
					Bottom	8.4	0.3	148	25.2	25.2	8.1	8.1	23.9	23.9	83.7	83.7	6.0	6.0	4.7		9		76				<0.2		3.2	
						8.4	0.3	158	25.2		8.1		23.8		83.7		6.0		4.7		9		77				<0.2		3.2	
IM13	Cloudy	Moderate	12:45	7.8	Surface	1.0	0.2	188	26.0	26.0	8.1	8.1	21.5	21.5	88.8	88.8	7.0	6.9	6.7	6.4	9	10	-	-	820588	805979	-	-	-	-
						1.0	0.2	180	26.0		8.1		21.5		88.8		7.0		6.7		10		-				-		-	
					Middle	3.9	0.4	220	25.4	25.4	8.1	8.1	21.3	21.3	88.6	88.6	6.8		5.3		10		-				-		-	
						3.9	0.3	222	25.4		8.1		21.3		88.6		6.8		5.3		11		-				-		-	
					Bottom	6.8	0.3	210	25.1	25.1	8.1	8.1	21.1	21.1	88.2	88.2	6.4	6.4	7.2		10		-				-		-	
						6.8	0.3	198	25.1		8.1		21.1		88.2		6.4		7.2		11		-				-		-	
SR2	Cloudy	Moderate	11:13	4.4	Surface	1.0	0.6	95	25.4	25.4	8.0	8.0	25.9	25.9	90.6	90.6	6.4	6.4	2.0	1.9	7	8	73	74	821454	814185	<0.2	<0.2	1.7	1.7
						1.0	0.7	101	25.4		8.0		25.9		90.6		6.4		2.0		6		73				<0.2		1.7	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.4	92	25.2	25.2	8.0	8.0	26.5	26.5	90.2	90.2	6.4	6.4	1.7		10		75				<0.2		1.6	
						3.4	0.4	95	25.2		8.0		26.5		90.2		6.4		1.7		9		75				<0.2		1.8	
SR3	Cloudy	Moderate	11:58	9.6	Surface	1.0	0.4	166	26.3	26.3	8.0	8.0	18.2	18.2	90.3	90.3	6.6	6.5	5.8	7.7	5	8	-	-	822153	807565	-	-	-	-
						1.0	0.4	173	26.3		8.0		18.2		90.2		6.6		5.8		4		-				-		-	
					Middle	4.8	0.2	143	25.5	25.5	8.0	8.0	22.3	22.3	86.7	86.7	6.3		8.3		10		-				-		-	
						4.8	0.2	153	25.5		8.0		22.3		86.7		6.3		8.3		9		-				-		-	
					Bottom	8.6	0.3	92	25.4	25.4	8.0	8.0	22.6	22.6	88.1	88.1	6.4	6.4	9.1		9		-				-		-	
						8.6	0.3	94	25.4		8.0		22.6		88.1		6.4		9.1		9		-				-		-	
SR4A	Cloudy	Moderate	11:16	8.1	Surface	1.0	0.2	246	26.1	26.1	8.1	8.1	23.9	23.9	99.0	99.0	7.0	6.7	6.5	7.5	11	14	-	-	817181	807791	-	-	-	-
						1.0	0.2	252	26.1		8.1		23.9		98.9		7.0		6.4		11		-				-		-	
					Middle	4.1	0.2	253	25.3	25.3	8.1	8.1	27.4	27.4	91.1	91.1	6.4		7.3		13		-				-		-	
						4.1	0.2	274	25.3		8.1		27.4		91.1		6.4		7.4		13		-				-		-	
					Bottom	7.1	0.2	261	25.3	25.3	8.1	8.1	27.7	27.7	92.6	93.3	6.5	6.6	8.7		16		-				-		-	
						7.1	0.2	263	25.3		8.1		27.7		93.9		6.6		8.9		18		-				-		-	
SR5A	Cloudy	Moderate	11:00	4.5	Surface	1.0	0.2	324	26.0	26.0	8.1	8.1	24.1	24.1	109.1	109.1	7.7	7.7	4.4	5.3	7	9	-	-	816606	810697	-	-	-	-
						1.0	0.2	325	26.0		8.1		24.1		109.1		7.7		4.4		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	328	26.3	26.3	8.1	8.1	24.5	24.5	113.2	113.2	8.0	8.0	6.4		9		-				-		-	
						3.5	0.2	344	26.3		8.1		24.5		113.2		8.0		6.0		11		-				-		-	
SR6	Cloudy	Moderate	10:35	4.2	Surface	1.0	0.2	334	25.8	25.8	8.1	8.1	23.9	23.9	106.5	106.5	7.6	7.6	4.6	5.4	8	10	-	-	817887	814651	-	-	-	-
						1.0	0.2	337	25.8		8.1		23.9		106.5		7.6		4.4		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	329	25.7	25.7	8.1	8.1	25.5	25.5	104.2	103.6	7.4	7.4	6.4		11		-				-		-	
						3.2	0.2	356	25.7		8.1		25.5		102.9		7.3		6.3		12		-				-		-	
SR7	Cloudy	Moderate	10:35	18.6	Surface	1.0	0.6	82	26.0	26.0	8.0	8.0	20.7	20.7	93.6	93.6	6.5	6.5	2.2	3.4	4	8	-	-	823652	823727	-	-	-	-
						1.0	0.6	88	26.0		8.0		20.7		93.5		6.5		2.2		4		-				-		-	
					Middle	9.3	0.4	57	25.4	25.4	8.0	8.0	22.5	22.5	90.9	90.9	6.4		3.7		9		-				-		-	
						9.3	0.5	62	25.4		8.0		22.5		90.9		6.4		3.8		11		-				-		-	
					Bottom	17.6	0.3	27	25.2	25.2	8.1	8.1	23.7	23.7	89.5	89.6	6.4	6.4	4.1		11		-				-		-	
						17.6	0.3	28	25.2		8.1		23.7		89.7		6.4		4.2		10		-				-		-	
SR8	Cloudy	Moderate	11:24	5.3	Surface	1.0	0.5	95	25.3	25.3	8.0	8.0	26.1	26.1	90.8	90.8	6.4	6.4	2.0	2.0	9	11	-	-	820406	811584	-	-	-	-
						1.0	0.5	100	25.3		8.0		26.1		90.8		6.4		2.0		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.3	112	25.3	25.3	8.0	8.0	26.4	26.4	90.9	90.9	6.4	6.4	1.9		12		-				-		-	
						4.3	0.3	119	25.3		8.0		26.4		90.9		6.4		1.9		11		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 11 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	06:13	6.8	Surface	1.0	0.2	48	25.7	25.7	8.1	8.1	23.3	23.3	92.1	92.1	6.6	6.6	5.5	7.7	5	8	73	75	815629	804255	<0.2	<0.2	1.5	1.8
						1.0	0.2	52	25.7		8.1		23.3		92.1		6.6		5.7		4		74				<0.2		1.7	
					Middle	3.4	0.0	29	25.6	25.6	8.1	8.1	26.0	26.0	91.6	91.6	6.5		8.5		10		75				<0.2		1.4	
						3.4	0.0	29	25.6		8.1		26.0		91.6		6.5		8.6		10		75				<0.2		1.4	
					Bottom	5.8	0.2	68	25.4	25.4	8.1	8.1	28.9	28.9	91.3	91.3	6.4	6.4	8.9		9		77				<0.2		2.2	
						5.8	0.2	72	25.4		8.1		28.9		91.3		6.4		9.0		7		77				<0.2		2.4	
C2	Cloudy	Moderate	07:19	13.5	Surface	1.0	0.3	91	26.2	26.2	8.1	8.1	23.4	23.4	96.8	96.8	6.9	6.8	7.5	13.4	3	7	74	75	825685	806950	<0.2	<0.2	2.5	2.3
						1.0	0.3	99	26.2		8.1		23.4		96.8		6.9		7.5		4		74				<0.2		2.6	
					Middle	6.8	0.3	112	25.7	25.7	8.1	8.1	26.3	26.3	94.5	94.5	6.6		15.0		6		75				<0.2		2.3	
						6.8	0.3	122	25.7		8.1		26.3		94.5		6.6		15.1		4		76				<0.2		2.4	
					Bottom	12.5	0.4	59	25.6	25.7	8.1	8.1	27.5	27.5	94.7	94.8	6.6	6.6	18.5		14		76				<0.2		1.8	
						12.5	0.4	63	25.7		8.1		27.5		94.8		6.6		16.6		12		77				<0.2		1.9	
C3	Cloudy	Moderate	05:40	12.3	Surface	1.0	0.3	280	24.2	24.2	8.1	8.1	25.9	25.9	91.4	91.4	6.6	6.6	2.3	2.5	5	7	73	75	822094	817784	<0.2	<0.2	3.0	3.0
						1.0	0.3	306	24.2		8.1		25.9		91.4		6.6		2.3		6		74				<0.2		3.4	
					Middle	6.2	0.3	277	24.2	24.2	8.1	8.1	26.0	26.0	90.9	90.9	6.6		2.4		8		75				<0.2		3.0	
						6.2	0.3	289	24.2		8.1		26.0		90.9		6.6		2.4		8		76				<0.2		2.8	
					Bottom	11.3	0.2	276	24.2	24.2	8.1	8.1	26.5	26.5	90.9	90.9	6.6	6.6	2.8		7		77				<0.2		2.8	
						11.3	0.2	303	24.2		8.1		26.5		90.9		6.6		2.8		6		76				<0.2		2.7	
IM1	Cloudy	Moderate	06:22	8.4	Surface	1.0	0.3	2	25.7	25.7	8.1	8.1	22.9	22.9	93.3	93.3	6.7	6.7	4.4	9.3	7	7	73	75	818364	806471	<0.2	<0.2	2.2	2.1
						1.0	0.3	2	25.7		8.1		22.9		93.3		6.7		4.4		5		73				<0.2		2.1	
					Middle	4.2	0.2	22	25.7	25.7	8.1	8.1	25.0	25.0	92.4	92.4	6.6		7.6		7		75				<0.2		2.4	
						4.2	0.3	24	25.7		8.1		25.0		92.4		6.6		7.8		6		76				<0.2		2.4	
					Bottom	7.4	0.3	51	25.5	25.5	8.1	8.1	28.2	28.2	92.4	92.5	6.5	6.5	15.8		9		76				<0.2		1.8	
						7.4	0.3	52	25.5		8.1		28.2		92.5		6.5		16.0		8		76				<0.2		1.9	
IM2	Cloudy	Moderate	06:29	9.1	Surface	1.0	0.4	30	25.7	25.7	8.1	8.1	24.0	24.0	91.8	91.8	6.5	6.4	8.9	15.3	5	7	73	75	818837	806181	<0.2	<0.2	2.2	1.8
						1.0	0.5	30	25.7		8.1		24.0		91.8		6.5		8.9		4		74				<0.2		2.2	
					Middle	4.6	0.2	32	25.5	25.5	8.1	8.1	28.3	28.3	90.0	90.0	6.3		17.6		4		75				<0.2		1.8	
						4.6	0.2	34	25.5		8.1		28.3		90.0		6.3		17.8		5		76				<0.2		1.9	
					Bottom	8.1	0.2	36	25.5	25.5	8.1	8.1	28.4	28.4	90.2	90.2	6.3	6.3	19.2		12		77				<0.2		1.4	
						8.1	0.2	37	25.5		8.1		28.4		90.2		6.3		19.3		13		77				<0.2		1.3	
IM3	Cloudy	Moderate	06:36	9.1	Surface	1.0	0.4	39	25.8	25.8	8.1	8.1	23.8	23.7	92.9	92.9	6.6	6.5	4.7	11.5	4	7	73	75	819419	806007	<0.2	<0.2	2.3	1.8
						1.0	0.4	39	25.8		8.1		23.5		92.9		6.6		4.9		5		74				<0.2		2.0	
					Middle	4.6	0.3	28	25.5	25.5	8.1	8.1	28.4	28.4	91.1	91.2	6.4		13.7		7		75				<0.2		2.0	
						4.6	0.3	28	25.5		8.1		28.4		91.2		6.4		13.8		8		76				<0.2		2.1	
					Bottom	8.1	0.2	31	25.5	25.5	8.1	8.1	28.5	28.5	92.0	92.0	6.4	6.4	15.9		10		76				<0.2		1.2	
						8.1	0.2	33	25.5		8.1		28.5		92.0		6.4		16.0		9		76				<0.2		1.2	
IM4	Cloudy	Moderate	06:45	8.6	Surface	1.0	0.1	45	25.5	25.5	8.1	8.1	28.0	28.0	92.1	92.1	6.4	6.4	9.1	15.0	9	10	75	76	819565	805032	<0.2	<0.2	1.6	1.3
						1.0	0.1	47	25.5		8.1		28.0		92.1		6.4		8.9		7		75				<0.2		1.5	
					Middle	4.3	0.1	36	25.4	25.4	8.1	8.1	28.9	28.9	90.3	90.3	6.3		19.6		8		76				<0.2		1.1	
						4.3	0.1	36	25.4		8.1		28.9		90.3		6.3		19.6		7		76				<0.2		1.2	
					Bottom	7.6	0.1	64	25.4	25.4	8.1	8.1	29.1	29.1	91.0	91.0	6.3	6.3	16.5		14		77				<0.2		1.1	
						7.6	0.1	65	25.4		8.1		29.1		91.0		6.3		16.4		12		77				<0.2		1.1	
IM5	Cloudy	Moderate	06:53	7.8	Surface	1.0	0.1	30	25.9	25.9	8.1	8.1	26.0	26.0	93.9	93.9	6.6	6.5	5.4	10.8	6	10	73	75	820581	804922	<0.2	<0.2	1.4	1.3
						1.0	0.1	30	25.9		8.1		26.0		93.9		6.6		5.4		7		74				<0.2		1.5	
					Middle	3.9	0.1	87	25.5	25.5	8.1	8.1	28.4	28.4	91.4	91.4	6.4		13.0		6		76				<0.2		1.3	
						3.9	0.1	92	25.5		8.1		28.4		91.4		6.4		13.1		7		75				<0.2		1.4	
					Bottom	6.8	0.2	69	25.5	25.5	8.1	8.1	28.6	28.6	92.5	92.6	6.5	6.5	14.0		18		76				<0.2		1.2	
						6.8	0.2	73	25.5		8.1		28.6		92.6		6.5		13.8		17		77				<0.2		1.2	
IM6	Cloudy	Moderate	07:02	7.7	Surface	1.0	0.3	88	25.7	25.7	8.1	8.1	25.4	25.4	93.1	93.1	6.6	6.5	7.1	15.1	9	10	73	75	821040	805810	<0.2	<0.2	1.9	1.7
						1.0	0.4	94	25.7		8.1		25.3		93.0		6.6		7.4		8		74				<0.2		2.1	
					Middle	3.9	0.3	83	25.5	25.5	8.1	8.1	28.3	28.3	90.0	90.0	6.3		17.1		6		74				<0.2		1.7	
						3.9	0.3	89	25.5		8.1		28.3		90.0		6.3		17.2		8		75				<0.2		1.6	
					Bottom	6.7	0.2	75	25.5	25.5	8.1	8.1	28.3	28.3	89.9	89.9	6.3	6.3	21.1		16		76				<0.2		1.3	
						6.7	0.2	78	25.5		8.1		28.3		89.9		6.3		20.8		14		76				<0.2		1.4	
IM7	Cloudy	Moderate	07:10	8.8	Surface	1.0	0.2	74	26.1	26.1	8.1	8.1	23.4	23.4	95.4	95.3	6.8	6.6	5.6	14.1	4	12	74	75	821345	806854	<0.2	<0.2	2.2	1.6
						1.0	0.2	75	26.0		8.1		23.4		95.2		6.8		5.8		5		74				<0.2		1.9	
					Middle	4.4	0.3	96	25.5	25.5	8.1	8.1	27.9	27.9	90.2	90.2	6.3		17.6		12		75				<0.2		1.5	
						4.4	0.4	101	25.5		8.1		27.9		90.2		6.3		17.8		13		76				<0.2		1.5	
					Bottom	7.8	0.2	104	25.6	25.6	8.1	8.1	27.9	27.9	90.8	90.8	6.3	6.3	19.1		19		76				<0.2		1.2	
						7.8	0.3	105	25.6		8.1		27.9		90.8		6.3		18.6		20		76				<0.2		1.5	
IM8	Cloudy	Moderate	06:50	8.5	Surface	1.0	0.4	115	26.2	26.2	8.1	8.1	22.3	22.3	98.2	98.3	7.0	6.9	3.6	10.4	8	8	73	75	821678	807845	<0.2	<0.2	2.9	2.5
						1.0	0.4	123	26.2		8.1		22.3		98.3		7.0		3.6		6		74				<0.2		3.0	
					Middle	4.3	0.3	87	25.9	25.9	8.1	8.1	24.6	24.6	95.3	95.3	6.7		8.6		8		75				<0.2		2.3	
						4.3	0.3	88	25.9		8.1		24.6		95.2		6.7		8.6		10		75				<0.2		2.2	
					Bottom	7.5	0.4	70	25.6	25.6	8.1	8.1	26.8	26.8	94.3	94.3	6.6	6.6	18.7		7		76				<0.2		2.3	
						7.5	0.4	72	25.6		8.1		26.8		94.3		6.6		19.0		8		76				<0.2		2.1	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 11 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
IM9	Cloudy	Moderate	06:41	8.3	Surface	1.0	0.4	28	25.7	25.7	8.1	8.1	21.2	21.2	87.3	87.3	6.3	6.3	2.7	4.8	6	6	73	75	822093	808813	<0.2	<0.2	2.8	3.0
						1.0	0.4	29	25.7		8.1		21.2		87.3		6.3		2.7		5		74				<0.2		3.1	
					Middle	4.2	0.5	44	25.6	25.6	8.2	8.2	24.5	24.5	87.5	87.5	6.2		5.7		5		75				<0.2		3.1	
						4.2	0.5	47	25.6		8.2		24.5		87.5		6.2		5.7		6		76				<0.2		3.1	
					Bottom	7.3	0.4	57	25.6	25.6	8.2	8.2	27.2	27.2	88.6	88.6	6.2	6.2	6.1		6		76				<0.2		2.8	
						7.3	0.4	58	25.6		8.2		27.2		88.6		6.2		6.1		8		77				<0.2		3.1	
IM10	Cloudy	Moderate	06:34	8.3	Surface	1.0	0.4	27	25.7	25.7	8.1	8.1	21.4	21.4	86.8	86.8	6.3	6.3	2.4	6.2	8	8	74	75	822254	809824	<0.2	<0.2	3.0	3.0
						1.0	0.4	27	25.7		8.1		21.4		86.8		6.3		2.4		10		74				<0.2		2.8	
					Middle	4.2	0.4	43	25.6	25.6	8.2	8.2	25.1	25.1	88.0	88.0	6.2		5.0		7		75				<0.2		3.0	
						4.2	0.4	46	25.6		8.2		25.1		88.0		6.2		5.0		7		75				<0.2		3.0	
					Bottom	7.3	0.6	56	25.5	25.5	8.2	8.2	26.7	26.7	86.7	86.7	6.1	6.1	11.2		9		76				<0.2		3.1	
						7.3	0.6	57	25.5		8.2		26.7		86.7		6.1		11.2		8		76				<0.2		3.2	
IM11	Cloudy	Moderate	06:29	7.3	Surface	1.0	0.3	37	25.7	25.7	8.1	8.1	21.9	21.9	84.7	84.7	6.1	6.1	5.8	11.1	10	7	73	76	821510	810527	<0.2	<0.2	2.3	2.7
						1.0	0.4	39	25.7		8.1		21.9		84.7		6.1		5.8		8		74				<0.2		2.6	
					Middle	3.7	0.5	36	25.7	25.7	8.1	8.1	24.0	24.0	85.4	85.4	6.1		9.8		8		76				<0.2		2.6	
						3.7	0.5	38	25.7		8.1		24.0		85.4		6.1		9.8		6		76				<0.2		2.7	
					Bottom	6.3	0.5	58	25.6	25.6	8.2	8.2	25.6	25.6	85.5	85.5	6.1	6.1	17.8		4		77				<0.2		2.9	
						6.3	0.5	59	25.6		8.2		25.6		85.5		6.1		17.8		3		77				<0.2		3.0	
IM12	Cloudy	Moderate	06:22	8.7	Surface	1.0	0.4	30	25.7	25.7	8.1	8.1	22.1	22.1	83.9	83.9	6.0	6.1	4.7	13.9	9	5	73	75	821169	811499	<0.2	<0.2	2.9	2.8
						1.0	0.4	30	25.7		8.1		22.1		83.9		6.0		4.7		7		73				<0.2		2.9	
					Middle	4.4	0.5	45	25.6	25.6	8.1	8.1	24.5	24.5	85.6	85.6	6.1		12.1		4		75				<0.2		2.9	
						4.4	0.6	47	25.6		8.1		24.5		85.6		6.1		12.1		3		75				<0.2		2.6	
					Bottom	7.7	0.4	57	25.6	25.6	8.2	8.2	26.4	26.4	87.1	87.1	6.1	6.1	24.9		4		76				<0.2		2.6	
						7.7	0.4	60	25.6		8.2		26.4		87.1		6.1		24.9		4		76				<0.2		2.8	
IM13	Cloudy	Moderate	07:30	7.8	Surface	1.0	0.4	30	25.8	25.8	8.1	8.1	23.6	23.6	91.0	91.0	6.6	6.5	4.6	11.3	8	7	-	-	821003	806047	-	-	-	-
						1.0	0.4	30	25.8		8.1		23.6		91.0		6.6		4.4		6		-				-		-	
					Middle	3.9	0.4	28	25.5	25.5	8.1	8.1	28.3	28.3	91.0	91.0	6.4		13.7		6		-				-		-	
						3.9	0.4	29	25.5		8.1		28.3		91.0		6.4		14.1		6		-				-		-	
					Bottom	6.8	0.3	26	25.5	25.5	8.1	8.1	28.5	28.5	92.0	92.0	6.4	6.4	15.5		8		-				-		-	
						6.8	0.3	28	25.5		8.1		28.5		92.0		6.4		15.5		8		-				-		-	
SR2	Cloudy	Moderate	06:01	4.6	Surface	1.0	0.4	277	24.5	24.5	8.2	8.2	23.3	23.3	90.3	90.3	6.6	6.6	6.7	12.2	4	4	73	74	821447	814160	<0.2	<0.2	2.6	2.7
						1.0	0.4	278	24.5		8.2		23.3		90.3		6.6		6.7		4		73				<0.2		2.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.3	269	24.2	24.2	8.1	8.1	25.6	25.6	88.3	88.3	6.4	6.4	17.7		3		75				<0.2		2.6	
						3.6	0.3	285	24.2		8.1		25.6		88.3		6.4		17.7		3		75				<0.2		2.8	
SR3	Cloudy	Moderate	07:02	9.7	Surface	1.0	0.3	70	26.2	26.2	8.1	8.1	23.4	23.4	96.4	96.4	6.8	6.7	6.5	13.1	2	5	-	-	822142	807572	-	-	-	-
						1.0	0.4	71	26.2		8.1		23.4		96.3		6.8		6.7		3		-				-		-	
					Middle	4.9	0.4	100	25.6	25.6	8.1	8.1	27.1	27.2	92.3	92.3	6.5		15.6		7		-				-		-	
						4.9	0.4	109	25.6		8.1		27.2		92.2		6.5		15.8		8		-				-		-	
					Bottom	8.7	0.3	87	25.6	25.6	8.1	8.1	27.5	27.5	93.3	93.3	6.5	6.5	17.0		4		-				-		-	
						8.7	0.3	87	25.6		8.1		27.5		93.3		6.5		17.0		6		-				-		-	
SR4A	Cloudy	Moderate	06:01	8.5	Surface	1.0	0.4	86	25.8	25.8	8.1	8.1	24.0	24.0	93.3	93.3	6.6	6.6	8.4	12.9	6	9	-	-	817204	807828	-	-	-	-
						1.0	0.4	94	25.8		8.1		24.0		93.3		6.6		8.6		6		-				-		-	
					Middle	4.3	0.4	69	25.7	25.7	8.1	8.1	25.3	25.3	91.6	91.6	6.5		14.3		8		-				-		-	
						4.3	0.4	70	25.7		8.1		25.2		91.6		6.5		14.5		9		-				-		-	
					Bottom	7.5	0.2	76	25.7	25.7	8.1	8.1	25.8	25.8	92.0	92.0	6.5	6.5	15.8		12		-				-		-	
						7.5	0.2	76	25.7		8.1		25.8		92.0		6.5		15.7		12		-				-		-	
SR5A	Cloudy	Moderate	05:42	5.8	Surface	1.0	0.2	149	26.1	26.1	8.1	8.1	23.6	23.6	98.9	98.9	7.0	7.0	9.0	13.1	8	9	-	-	816609	810679	-	-	-	-
						1.0	0.2	153	26.1		8.1		23.6		98.8		7.0		9.3		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.8	0.2	159	26.0	26.0	8.1	8.1	23.9	23.9	96.8	96.8	6.9	6.9	17.1		9		-				-		-	
						4.8	0.2	160	26.0		8.1		23.9		96.7		6.9		16.8		11		-				-		-	
SR6	Cloudy	Moderate	05:09	5.2	Surface	1.0	0.1	69	25.8	25.8	8.0	8.0	22.4	22.4	90.1	90.1	6.5	6.5	5.6	5.8	4	4	-	-	817914	814643	-	-	-	-
						1.0	0.1	74	25.8		8.0		22.4		90.0		6.5		5.5		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.1	96	25.8	25.8	8.0	8.0	22.9	22.9	89.5	89.6	6.4	6.4	6.1		4		-				-		-	
						4.2	0.1	98	25.8		8.0		22.9		89.6		6.4		6.0		4		-				-		-	
SR7	Cloudy	Moderate	05:08	18.8	Surface	1.0	0.7	64	25.3	25.3	8.0	8.0	27.8	27.8	85.3	85.3	6.0	5.9	3.4	6.6	3	6	-	-	823650	823760	-	-	-	-
						1.0	0.8	64	25.3		8.0		27.8		85.3		6.0		3.5		3		-				-		-	
					Middle	9.4	0.3	31	25.1	25.1	8.0	8.0	30.0	30.0	84.0	84.0	5.8		7.8		5		-				-		-	
						9.4	0.3	31	25.1		8.0		30.0		84.0		5.8		7.9		7		-				-		-	
					Bottom	17.8	0.4	34	25.1	25.1	8.0	8.0	30.7	30.7	83.7	83.7	5.8	5.8	8.4		9		-				-		-	
						17.8	0.4	37	25.1		8.0		30.7		83.7		5.8		8.5		10		-				-		-	
SR8	Cloudy	Moderate	06:14	4.4	Surface	1.0	0.3	307	24.5	24.5	8.2	8.2	23.4	23.4	93.0	92.9	6.8	6.8	6.3	7.7	3	4	-	-	820431	811573	-	-	-	-
						1.0	0.3	313	24.5		8.2		23.4		92.8		6.8		6.6		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.3	321	24.3	24.3	8.1	8.1	25.6	25.6	94.7	94.7	6.8	6.8	8.9		3		-				-		-	
						3.4	0.3	339	24.3		8.1		25.6		94.7		6.8		8.9		5		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 11 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Sunny	Moderate	12:32	6.3	Surface	1.0	0.5	184	25.8	25.8	8.1	8.1	26.2	26.2	98.1	98.1	6.9	6.8	4.2	6.7	11	15	73	75	815636	804239	<0.2	<0.2	1.4	1.3
						1.0	0.5	189	25.8		8.1		26.2		98.1		6.9		4.2		13		73				<0.2		1.4	
					Middle	3.2	0.4	190	25.6	25.6	8.1	8.1	28.9	28.9	94.5	94.5	6.6		7.3		15		79				<0.2		1.4	
						3.2	0.5	191	25.6		8.1		28.9		94.5		6.6		7.5		14		74				<0.2		1.2	
					Bottom	5.3	0.3	182	25.4	25.4	8.1	8.1	29.4	29.4	95.2	95.3	6.6	6.6	8.6		17		75				<0.2		1.2	
						5.3	0.3	191	25.4		8.1		29.4		95.3		6.6		8.6		19		75				<0.2		1.1	
C2	Sunny	Moderate	11:38	9.5	Surface	1.0	0.2	146	26.1	26.1	8.1	8.1	22.4	22.4	97.9	97.9	7.0	6.9	3.0	6.2	10	8	73	74	825672	806934	<0.2	<0.2	1.8	1.7
						1.0	0.2	149	26.1		8.1		22.4		97.9		7.0		3.1		8		73				<0.2		1.9	
					Middle	4.8	0.3	115	25.8	25.8	8.1	8.1	25.0	25.0	95.3	95.3	6.7		6.3		7		74				<0.2		1.3	
						4.8	0.3	120	25.8		8.1		25.0		95.2		6.7		5.9		7		74				<0.2		1.3	
					Bottom	8.5	0.3	76	25.7	25.7	8.1	8.1	27.3	27.3	95.0	95.1	6.6	6.7	9.5		7		75				<0.2		1.7	
						8.5	0.3	78	25.7		8.1		27.3		95.1		6.7		9.2		9		75				<0.2		1.9	
C3	Sunny	Moderate	12:58	11.8	Surface	1.0	0.6	92	24.2	24.2	8.1	8.1	25.9	25.9	91.4	91.4	6.6	6.6	2.3	2.8	8	9	73	74	822108	817821	<0.2	<0.2	2.0	2.2
						1.0	0.6	92	24.2		8.1		25.9		91.4		6.6		2.2		6		73				<0.2		2.2	
					Middle	5.9	0.5	73	24.2	24.2	8.1	8.1	26.0	26.0	90.9	90.9	6.6		2.4		10		74				<0.2		2.4	
						5.9	0.5	75	24.2		8.1		26.0		90.9		6.6		2.5		8		74				<0.2		2.4	
					Bottom	10.8	0.5	98	24.2	24.2	8.1	8.1	26.5	26.5	90.9	90.9	6.6	6.6	3.6		10		75				<0.2		2.2	
						10.8	0.5	103	24.2		8.1		26.5		90.9		6.6		3.7		10		75				<0.2		2.1	
IM1	Sunny	Moderate	12:21	8.9	Surface	1.0	0.4	178	26.2	26.2	8.1	8.1	23.7	23.7	95.3	95.2	6.7	6.6	5.0	7.1	5	7	73	75	818356	806446	<0.2	<0.2	2.0	1.6
						1.0	0.4	187	26.2		8.1		23.6		95.1		6.7		5.1		4		73				<0.2		2.3	
					Middle	4.5	0.3	180	25.5	25.5	8.1	8.1	28.6	28.6	92.8	92.9	6.5		9.1		6		75				<0.2		1.6	
						4.5	0.4	194	25.5		8.1		28.6		92.9		6.5		8.4		8		75				<0.2		1.5	
					Bottom	7.9	0.3	166	25.5	25.5	8.1	8.1	28.7	28.7	95.6	95.7	6.7	6.7	7.4		10		76				<0.2		1.1	
						7.9	0.3	170	25.5		8.1		28.7		95.8		6.7		7.4		8		76				<0.2		0.9	
IM2	Sunny	Moderate	12:17	8.8	Surface	1.0	0.2	220	26.3	26.3	8.1	8.1	22.2	22.2	95.0	94.9	6.8	6.6	5.0	6.7	7	8	72	73	818858	806196	<0.2	<0.2	2.0	1.5
						1.0	0.2	235	26.2		8.1		22.2		94.8		6.8		4.9		6		72				<0.2		1.8	
					Middle	4.4	0.4	189	25.6	25.6	8.1	8.1	28.2	28.2	92.0	92.0	6.4		7.4		6		73				<0.2		1.4	
						4.4	0.4	204	25.6		8.1		28.2		91.9		6.4		7.4		8		73				<0.2		1.6	
					Bottom	7.8	0.4	181	25.5	25.5	8.1	8.1	28.5	28.5	93.7	93.8	6.5	6.5	7.8		11		75				<0.2		1.0	
						7.8	0.4	184	25.5		8.1		28.5		93.8		6.5		7.7		10		75				<0.2		1.0	
IM3	Sunny	Moderate	12:10	8.5	Surface	1.0	0.4	178	26.0	26.0	8.1	8.1	25.9	25.9	95.5	95.5	6.7	6.6	4.0	8.2	8	8	73	74	819398	806014	<0.2	<0.2	1.6	1.4
						1.0	0.4	178	26.0		8.1		25.9		95.5		6.7		4.1		10		74				<0.2		1.9	
					Middle	4.3	0.3	175	25.6	25.6	8.1	8.1	27.9	27.9	93.0	93.0	6.5		8.2		6		74				<0.2		1.4	
						4.3	0.3	185	25.6		8.1		27.9		93.0		6.5		8.4		8		74				<0.2		1.3	
					Bottom	7.5	0.3	166	25.6	25.6	8.1	8.1	28.2	28.2	94.6	94.7	6.6	6.6	12.8		7		75				<0.2		1.2	
						7.5	0.3	180	25.6		8.1		28.2		94.7		6.6		11.9		9		75				<0.2		1.0	
IM4	Sunny	Moderate	12:01	8.0	Surface	1.0	0.5	184	25.8	25.8	8.1	8.1	27.7	27.7	91.8	91.8	6.4	6.4	10.5	9.5	12	14	73	74	819557	805037	<0.2	<0.2	1.1	1.0
						1.0	0.5	185	25.8		8.1		27.7		91.8		6.4		10.6		14		73				<0.2		1.0	
					Middle	4.0	0.4	187	25.5	25.5	8.1	8.1	28.2	28.2	91.1	91.2	6.4		10.1		15		73				<0.2		0.9	
						4.0	0.4	195	25.5		8.1		28.2		91.2		6.4		10.0		16		74				<0.2		1.0	
					Bottom	7.0	0.3	182	25.5	25.5	8.1	8.1	28.7	28.7	93.4	93.5	6.5	6.5	8.0		13		75				<0.2		1.0	
						7.0	0.3	191	25.5		8.1		28.7		93.5		6.5		8.0		12		75				<0.2		0.8	
IM5	Sunny	Moderate	11:53	7.1	Surface	1.0	0.4	178	25.6	25.6	8.1	8.1	27.8	27.8	90.9	90.9	6.3	6.3	9.8	21.0	13	14	72	74	820552	804926	<0.2	<0.2	1.1	1.0
						1.0	0.4	188	25.6		8.1		27.8		90.9		6.3		9.8		11		73				<0.2		1.2	
					Middle	3.6	0.3	175	25.5	25.5	8.1	8.1	28.2	28.2	89.8	89.8	6.3		22.3		14		74				<0.2		1.0	
						3.6	0.4	175	25.5		8.1		28.2		89.8		6.3		22.4		17		74				<0.2		0.7	
					Bottom	6.1	0.3	166	25.5	25.5	8.1	8.1	28.3	28.3	90.3	90.4	6.3	6.3	30.9		16		75				<0.2		0.9	
						6.1	0.3	179	25.5		8.1		28.3		90.4		6.3		30.9		14		75				<0.2		0.9	
IM6	Sunny	Moderate	11:46	7.0	Surface	1.0	0.3	180	26.1	26.1	8.1	8.1	26.1	26.1	95.0	95.0	6.6	6.6	6.1	11.6	12	9	73	74	821067	805818	<0.2	<0.2	1.3	1.2
						1.0	0.3	196	26.1		8.1		26.1		94.9		6.6		6.3		10		73				<0.2		1.2	
					Middle	3.5	0.4	180	25.7	25.8	8.1	8.1	26.8	26.8	92.6	92.6	6.5		11.6		9		74				<0.2		1.3	
						3.5	0.4	184	25.8		8.1		26.8		92.6		6.5		10.8		8		73				<0.2		1.2	
					Bottom	6.0	0.3	172	25.5	25.5	8.1	8.1	27.9	27.9	90.6	90.6	6.3	6.3	17.4		7		75				<0.2		1.2	
						6.0	0.3	177	25.5		8.1		27.9		90.6		6.3		17.5		8		75				<0.2		1.1	
IM7	Sunny	Moderate	11:39	7.9	Surface	1.0	0.2	169	26.4	26.4	8.1	8.1	22.7	22.7	100.6	100.6	7.1	6.9	4.4	10.6	7	10	73	74	821363	806828	<0.2	<0.2	1.4	1.6
						1.0	0.2	182	26.4		8.1		22.7		100.6		7.1		4.5		7		73				<0.2		1.6	
					Middle	4.0	0.2	139	25.8	25.8	8.1	8.1	26.4	26.4	95.2	95.2	6.7		10.5		10		74				<0.2		1.8	
						4.0	0.2	143	25.8		8.1		26.4		95.2		6.7		10.8		8		74				<0.2		1.6	
					Bottom	6.9	0.2	134	25.8	25.8	8.1	8.1	27.5	27.5	96.4	96.5	6.7	6.7	17.1		14		75				<0.2		1.5	
						6.9	0.3	141	25.8		8.1		27.5		96.5		6.7		16.0		16		75				<0.2		1.6	
IM8	Sunny	Moderate	11:58	8.4	Surface	1.0	0.4	113	26.1	26.1	8.1	8.1	23.1	23.1	97.4	97.4	6.9	6.7	3.9	7.9	6	6	73	75	821707	807839	<0.2	<0.2	3.0	2.5
						1.0	0.4	119	26.1		8.1		23.1		97.3		6.9		4.0		8		73				<0.2		3.0	
					Middle	4.2	0.4	82	25.7	25.7	8.1	8.1	26.1	26.1	92.8	92.8	6.5		5.2		5		75				<0.2		2.5	
						4.2	0.5	82	25.7		8.1		26.1		92.8		6.5		5.4		6		76				<0.2		2.3	
					Bottom	7.4	0.4	77	25.7	25.7	8.2	8.2	27.3	27.3	94.0	94.1	6.6	6.6	15.0		6		76				<0.2		2.2	
						7.4	0.4	78	25.7		8.2		27.2		94.1		6.6		13.9		6		76				<0.2		2.2	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 11 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Sunny	Moderate	12:07	7.3	Surface	1.0	0.7	121	25.9	25.9	8.2	8.2	22.3	22.3	89.1	89.1	6.4	6.3	5.8	8.2	8	7	73	74	822086	808802	<0.2	<0.2	2.7	2.7
						1.0	0.8	129	25.9		8.2		22.3		89.1		6.4		5.8		6		73				<0.2		2.6	
					Middle	3.7	0.5	100	25.6	25.6	8.2	8.2	25.9	25.9	87.5	87.5	6.2		9.4		7		74				<0.2		2.8	
						3.7	0.5	106	25.6		8.2		25.9		87.5		6.2		9.4		5		74				<0.2		2.8	
					Bottom	6.3	0.4	77	25.6	25.6	8.2	8.2	26.4	26.4	88.3	88.3	6.2	6.2	9.3		8		75				<0.2		2.6	
						6.3	0.4	78	25.6		8.2		26.4		88.3		6.2		9.3		6		75				<0.2		2.7	
IM10	Sunny	Moderate	12:14	7.1	Surface	1.0	0.7	128	26.1	26.1	8.2	8.2	22.3	22.3	89.2	89.2	6.4	6.3	5.6	8.4	7	7	73	74	822243	809821	<0.2	<0.2	2.9	2.9
						1.0	0.8	138	26.0		8.2		22.3		89.1		6.4		5.8		5		73				<0.2		3.0	
					Middle	3.6	0.5	105	25.6	25.6	8.2	8.2	25.6	25.6	87.7	87.7	6.2		9.5		8		74				<0.2		2.8	
						3.6	0.5	110	25.6		8.2		25.6		87.7		6.2		9.5		6		74				<0.2		2.9	
					Bottom	6.1	0.4	84	25.5	25.5	8.2	8.2	26.6	26.6	88.5	88.5	6.2	6.2	10.1		6		75				<0.2		2.8	
						6.1	0.4	86	25.5		8.2		26.6		88.5		6.2		10.1		7		75				<0.2		3.0	
IM11	Sunny	Moderate	12:21	7.8	Surface	1.0	0.7	122	26.1	26.1	8.2	8.2	22.1	22.1	89.8	89.8	6.4	6.3	5.4	7.6	5	7	73	75	821496	810558	<0.2	<0.2	1.6	1.8
						1.0	0.7	127	26.1		8.2		22.1		89.8		6.4		5.4		7		73				<0.2		1.9	
					Middle	3.9	0.4	106	25.6	25.6	8.2	8.2	25.3	25.3	88.1	88.1	6.2		8.4		9		75				<0.2		1.8	
						3.9	0.4	107	25.6		8.2		25.3		88.1		6.2		8.4		8		76				<0.2		2.0	
					Bottom	6.8	0.2	80	25.6	25.6	8.2	8.2	26.9	26.9	89.1	89.1	6.3	6.3	8.9		7		76				<0.2		1.8	
						6.8	0.2	87	25.6		8.2		26.9		89.1		6.3		8.9		8		76				<0.2		1.6	
IM12	Sunny	Moderate	12:27	7.2	Surface	1.0	0.6	129	26.1	26.1	8.2	8.2	22.1	22.1	90.3	90.3	6.5	6.4	4.9	6.9	6	6	73	75	821174	811530	<0.2	<0.2	1.9	1.9
						1.0	0.7	129	26.1		8.2		22.1		90.3		6.5		4.9		8		73				<0.2		1.7	
					Middle	3.6	0.4	109	25.7	25.7	8.2	8.2	24.9	24.9	88.2	88.2	6.3		7.8		5		75				<0.2		2.0	
						3.6	0.4	110	25.7		8.2		24.9		88.2		6.3		7.8		5		76				<0.2		2.0	
					Bottom	6.2	0.3	85	25.6	25.6	8.2	8.2	26.4	26.4	88.7	88.7	6.3	6.3	7.9		4		76				<0.2		1.8	
						6.2	0.3	91	25.6		8.2		26.4		88.7		6.3		7.9		6		77				<0.2		1.8	
IM13	Sunny	Moderate	12:04	7.7	Surface	1.0	0.4	178	25.6	25.6	8.1	8.1	26.0	26.0	95.5	95.5	6.7	6.6	4.4	7.8	5	8	-	-	820611	806000	-	-	-	-
						1.0	0.4	179	25.6		8.1		26.0		95.5		6.7		4.1		7		-				-		-	
					Middle	3.9	0.4	175	25.6	25.6	8.1	8.1	28.0	28.0	93.0	93.0	6.5		8.2		10		-				-		-	
						3.9	0.4	186	25.6		8.1		28.0		93.0		6.5		8.3		12		-				-		-	
					Bottom	6.7	0.3	177	25.6	25.6	8.1	8.1	28.2	28.2	94.6	94.7	6.6	6.6	11.1		8		-				-		-	
						6.7	0.3	179	25.6		8.1		28.2		94.7		6.6		10.5		8		-				-		-	
SR2	Sunny	Moderate	12:41	3.2	Surface	1.0	0.7	123	26.2	26.2	8.2	8.2	21.9	21.9	92.7	92.7	6.6	6.6	2.6	3.6	7	6	73	74	821474	814151	<0.2	<0.2	1.8	1.9
						1.0	0.8	130	26.2		8.2		21.9		92.7		6.6		2.6		5		73				<0.2		1.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.2	0.6	104	25.8	25.8	8.2	8.2	23.9	23.9	91.5	91.6	6.5	6.5	4.6		5		75				<0.2		2.0	
						2.2	0.6	109	25.8		8.2		23.9		91.6		6.5		4.5		5		75				<0.2		2.0	
SR3	Sunny	Moderate	11:52	8.5	Surface	1.0	0.2	131	26.1	26.1	8.1	8.1	22.7	22.7	98.8	98.8	7.0	6.8	3.7	8.4	7	6	-	-	822163	807581	-	-	-	-
						1.0	0.2	138	26.1		8.1		22.7		98.7		7.0		3.8		6		-				-		-	
					Middle	4.3	0.3	109	25.8	25.8	8.1	8.1	24.4	24.4	93.6	93.6	6.6		8.3		5		-				-		-	
						4.3	0.3	110	25.8		8.1		24.4		93.6		6.6		8.5		7		-				-		-	
					Bottom	7.5	0.3	71	25.6	25.6	8.1	8.1	27.3	27.3	92.5	92.6	6.5	6.5	13.1		4		-				-		-	
						7.5	0.4	76	25.6		8.1		27.3		92.6		6.5		13.0		5		-				-		-	
SR4A	Sunny	Moderate	12:44	8.2	Surface	1.0	0.2	61	25.8	25.8	8.1	8.1	26.9	26.9	92.7	92.7	6.5	6.5	11.7	13.5	8	13	-	-	817203	807812	-	-	-	-
						1.0	0.2	64	25.8		8.1		26.9		92.6		6.5		11.7		10		-				-		-	
					Middle	4.1	0.2	62	25.5	25.5	8.1	8.1	28.2	28.2	91.3	91.4	6.4		14.6		14		-				-		-	
						4.1	0.2	65	25.5		8.1		28.2		91.4		6.4		14.6		13		-				-		-	
					Bottom	7.2	0.2	77	25.5	25.5	8.1	8.1	28.6	28.6	93.7	93.8	6.5	6.5	15.0		18		-				-		-	
						7.2	0.2	83	25.5		8.1		28.6		93.8		6.5		13.2		15		-				-		-	
SR5A	Sunny	Moderate	13:03	5.3	Surface	1.0	0.1	95	26.9	26.9	8.2	8.2	23.7	23.7	104.7	104.5	7.3	7.3	7.8	8.7	7	8	-	-	816594	810695	-	-	-	-
						1.0	0.1	98	26.9		8.2		23.7		104.3		7.3		7.7		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.1	140	26.0	26.0	8.1	8.1	25.1	25.1	100.8	100.9	7.1	7.1	9.6		11		-				-		-	
						4.3	0.1	142	26.0		8.1		25.1		101.0		7.1		9.6		9		-				-		-	
SR6	Sunny	Moderate	13:04	4.8	Surface	1.0	0.1	76	27.0	27.0	8.2	8.2	23.7	23.7	112.3	112.3	7.8	7.8	4.6	6.1	6	8	-	-	817904	814675	-	-	-	-
						1.0	0.1	80	27.0		8.2		23.7		112.2		7.8		4.8		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.2	108	26.1	26.1	8.1	8.1	24.4	24.4	106.6	106.7	7.5	7.5	7.8		9		-				-		-	
						3.8	0.2	116	26.1		8.1		24.4		106.8		7.5		7.1		10		-				-		-	
SR7	Sunny	Moderate	13:31	7.9	Surface	1.0	0.8	77	24.8	24.8	8.1	8.1	24.5	24.5	100.3	100.3	7.3	6.8	2.0	2.3	8	8	-	-	823621	823747	-	-	-	-
						1.0	0.9	79	24.8		8.1		24.5		100.2		7.2		1.9		6		-				-		-	
					Middle	4.0	0.5	84	24.0	24.0	8.0	8.0	27.4	27.4	87.9	87.9	6.3		2.4		8		-				-		-	
						4.0	0.5	86	24.0		8.0		27.4		87.8		6.3		2.5		9		-				-		-	
					Bottom	6.9	0.2	44	23.7	23.7	8.0	8.0	29.8	29.9	89.3	89.3	6.4	6.4	2.4		8		-				-		-	
						6.9	0.2	44	23.7		8.0		29.9		89.3		6.4		2.3		8		-				-		-	
SR8	Sunny	Moderate	12:33	3.6	Surface	1.0	0.7	122	26.3	26.3	8.2	8.2	21.9	21.9	92.0	92.0	6.6	6.6	3.3	4.5	5	6	-	-	820429	811612	-	-	-	-
						1.0	0.8	130	26.3		8.2		21.9		91.9		6.6		3.4		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.6	111	25.8	25.8	8.2	8.2	24.7	24.7	90.9	90.9	6.4	6.4	5.6		6		-				-		-	
						2.6	0.7	120	25.8		8.2		24.7		90.9		6.4		5.6		5		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 13 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	06:56	7.1	Surface	1.0	0.6	30	26.1	26.1	8.1	8.1	23.7	23.7	89.6	89.6	6.4	6.3	6.9	9.0	6	8	73	75	815619	804230	<0.2	<0.2	2.4	2.1
						1.0	0.6	31	26.0		8.1		23.7		89.5		6.4		7.2		7		74				<0.2		2.3	
					Middle	3.6	0.5	38	26.0	26.0	8.1	8.1	26.4	26.4	88.5	88.5	6.2		8.7		7		75				<0.2		1.8	
						3.6	0.6	38	26.0		8.1		26.4		88.5		6.2		8.9		8		75				<0.2		2.0	
					Bottom	6.1	0.4	34	25.8	25.8	8.1	8.1	27.9	27.9	87.6	87.6	6.1	6.1	11.3		9		77				<0.2		2.0	
						6.1	0.4	34	25.8		8.1		27.9		87.6		6.1		11.2		10		77				<0.2		2.1	
C2	Cloudy	Moderate	07:54	9.3	Surface	1.0	0.5	57	26.2	26.2	8.1	8.1	22.0	22.0	89.5	89.5	6.4	6.3	4.6	6.8	6	7	74	76	825670	806929	<0.2	<0.2	1.8	2.5
						1.0	0.5	59	26.2		8.1		22.0		89.4		6.4		4.8		4		74				<0.2		2.0	
					Middle	4.7	0.5	68	26.1	26.1	8.1	8.1	24.6	24.6	87.0	87.0	6.1		7.9		5		75				<0.2		2.3	
						4.7	0.5	68	26.1		8.1		24.6		87.0		6.1		7.9		5		76				<0.2		2.2	
					Bottom	8.3	0.3	66	26.0	26.0	8.1	8.1	26.0	26.0	89.0	89.1	6.2	6.2	8.0		10		77				<0.2		3.2	
						8.3	0.4	69	26.0		8.1		26.0		89.1		6.2		7.6		10		77				<0.2		3.4	
C3	Cloudy	Moderate	06:31	10.9	Surface	1.0	0.5	228	26.1	26.1	8.1	8.1	24.0	24.0	86.3	86.3	6.1	6.0	3.7	4.8	4	4	74	76	822089	817811	<0.2	<0.2	3.2	3.0
						1.0	0.5	233	26.1		8.1		24.0		86.3		6.1		3.7		4		74				<0.2		3.2	
					Middle	5.5	0.4	220	25.9	25.9	8.1	8.1	26.0	26.0	84.4	84.4	5.9		5.2		5		76				<0.2		3.0	
						5.5	0.4	236	25.9		8.1		26.0		84.4		5.9		5.2		4		75				<0.2		3.0	
					Bottom	9.9	0.4	225	25.9	25.9	8.1	8.1	26.5	26.5	84.7	84.7	5.9	5.9	5.6		4		77				<0.2		2.7	
						9.9	0.4	240	25.9		8.1		26.5		84.7		5.9		5.6		4		77				<0.2		2.6	
IM1	Cloudy	Moderate	07:06	8.0	Surface	1.0	0.5	353	26.4	26.4	8.1	8.1	23.1	23.1	90.9	90.9	6.4	6.4	3.5	5.9	3	4	73	76	818370	806462	<0.2	<0.2	3.0	2.8
						1.0	0.5	325	26.4		8.1		23.1		90.8		6.4		3.3		4		74				<0.2		3.3	
					Middle	4.0	0.5	13	26.2	26.2	8.1	8.1	24.6	24.6	89.7	89.8	6.3		5.8		4		76				<0.2		2.6	
						4.0	0.5	13	26.2		8.1		24.6		89.8		6.3		5.6		5		76				<0.2		2.4	
					Bottom	7.0	0.5	27	26.2	26.2	8.1	8.1	26.6	26.6	90.4	90.5	6.3	6.3	8.8		6		77				<0.2		2.7	
						7.0	0.5	28	26.2		8.1		26.5		90.5		6.3		8.3		4		77				<0.2		2.6	
IM2	Cloudy	Moderate	07:14	9.1	Surface	1.0	0.6	16	26.3	26.3	8.1	8.1	23.0	23.1	91.2	91.2	6.5	6.4	3.4	8.8	6	7	73	76	818842	806190	<0.2	<0.2	2.6	2.2
						1.0	0.6	16	26.3		8.1		23.1		91.2		6.5		3.5		6		74				<0.2		2.7	
					Middle	4.6	0.6	35	25.9	25.9	8.1	8.1	26.8	26.8	88.3	88.3	6.2		10.3		4		76				<0.2		2.2	
						4.6	0.6	38	25.9		8.1		26.8		88.3		6.2		10.5		6		76				<0.2		2.5	
					Bottom	8.1	0.4	20	25.9	26.0	8.1	8.1	27.4	27.4	90.1	90.2	6.3	6.3	12.3		11		77				<0.2		1.5	
						8.1	0.4	20	26.0		8.1		27.3		90.2		6.3		12.5		11		77				<0.2		1.6	
IM3	Cloudy	Moderate	07:22	9.1	Surface	1.0	0.6	24	26.2	26.2	8.1	8.1	21.6	21.5	92.6	92.6	6.6	6.3	6.7	9.7	4	6	73	75	819425	806016	<0.2	<0.2	2.6	2.9
						1.0	0.6	24	26.2		8.1		21.4		92.5		6.6		6.9		4		73				<0.2		2.6	
					Middle	4.6	0.5	30	25.8	25.8	8.1	8.1	27.7	27.7	86.7	86.7	6.0		10.2		4		75				<0.2		3.3	
						4.6	0.6	31	25.8		8.1		27.7		86.7		6.0		10.3		5		76				<0.2		3.4	
					Bottom	8.1	0.4	36	25.8	25.8	8.1	8.1	27.7	27.7	87.4	87.5	6.1	6.1	12.1		9		76				<0.2		2.9	
						8.1	0.4	37	25.8		8.1		27.7		87.5		6.1		12.2		10		77				<0.2		2.8	
IM4	Cloudy	Moderate	07:29	8.6	Surface	1.0	0.6	18	26.2	26.2	8.1	8.1	22.8	22.9	91.7	91.7	6.5	6.3	5.6	9.0	5	6	73	76	819566	805039	<0.2	<0.2	2.6	2.4
						1.0	0.6	19	26.2		8.1		22.9		91.6		6.5		5.7		5		74				<0.2		2.7	
					Middle	4.3	0.5	20	25.7	25.7	8.1	8.1	28.0	28.0	87.1	87.1	6.1		9.0		4		76				<0.2		2.6	
						4.3	0.5	21	25.7		8.1		28.0		87.1		6.1		9.1		4		76				<0.2		2.4	
					Bottom	7.6	0.4	26	25.7	25.7	8.1	8.1	28.2	28.2	89.6	89.7	6.2	6.2	12.6		9		77				<0.2		2.0	
						7.6	0.4	26	25.7		8.1		28.2		89.8		6.2		12.1		9		77				<0.2		2.0	
IM5	Cloudy	Moderate	07:39	7.7	Surface	1.0	0.6	27	26.1	26.1	8.1	8.1	23.1	23.1	90.5	90.5	6.4	6.2	5.2	9.0	3	5	73	75	820544	804908	<0.2	<0.2	2.1	2.1
						1.0	0.7	29	26.1		8.1		23.1		90.5		6.4		5.0		5		73				<0.2		2.1	
					Middle	3.9	0.5	23	25.8	25.8	8.1	8.1	27.8	27.8	85.9	85.9	6.0		9.8		3		75				<0.2		2.1	
						3.9	0.5	23	25.8		8.1		27.8		85.9		6.0		9.2		5		75				<0.2		2.0	
					Bottom	6.7	0.4	17	25.8	25.8	8.1	8.1	27.7	27.7	87.4	87.5	6.1	6.1	12.3		7		77				<0.2		2.1	
						6.7	0.4	18	25.8		8.1		27.7		87.5		6.1		12.4		5		77				<0.2		2.0	
IM6	Cloudy	Moderate	07:46	7.3	Surface	1.0	0.4	29	26.1	26.1	8.2	8.2	22.5	22.5	90.3	90.3	6.4	6.2	5.4	8.2	4	6	73	75	821059	805829	<0.2	<0.2	2.2	2.2
						1.0	0.5	30	26.1		8.2		22.5		90.3		6.4		5.4		4		73				<0.2		2.3	
					Middle	3.7	0.6	43	25.9	25.9	8.1	8.1	27.1	27.1	86.5	86.5	6.0		7.7		7		75				<0.2		2.3	
						3.7	0.6	43	25.9		8.1		27.1		86.5		6.0		7.6		7		76				<0.2		2.3	
					Bottom	6.3	0.4	53	25.8	25.8	8.1	8.1	27.5	27.5	87.5	87.6	6.1	6.1	11.5		8		76				<0.2		2.1	
						6.3	0.4	56	25.8		8.1		27.5		87.6		6.1		11.5		8		77				<0.2		2.2	
IM7	Cloudy	Moderate	07:53	8.8	Surface	1.0	0.5	43	26.1	26.1	8.1	8.1	23.5	23.5	89.4	89.4	6.3	6.2	5.0	8.3	3	5	73	75	821360	806818	<0.2	<0.2	2.1	2.2
						1.0	0.5	43	26.1		8.1		23.5		89.3		6.3		5.1		4		73				<0.2		2.0	
					Middle	4.4	0.3	72	26.0	26.0	8.1	8.1	26.2	26.2	87.4	87.4	6.1		9.0		5		75				<0.2		2.1	
						4.4	0.3	78	26.0		8.1		26.2		87.4		6.1		8.6		6		76				<0.2		2.2	
					Bottom	7.8	0.3	60	26.0	26.0	8.1	8.1	26.5	26.5	92.1	92.2	6.4	6.5	10.8		6		77				<0.2		2.5	
						7.8	0.3	61	26.0		8.1		26.5		92.2		6.5		11.0		8		77				<0.2		2.3	
IM8	Cloudy	Moderate	07:33	9.4	Surface	1.0	0.5	52	26.1	26.1	8.1	8.1	23.9	23.9	88.7	88.7	6.3	6.3	7.0	9.6	5	6	73	75	821680	807821	<0.2	<0.2	2.0	1.9
						1.0	0.6	52	26.1		8.1		23.9		88.6		6.3		7.2		3		74				<0.2		2.0	
					Middle	4.7	0.5	70	26.0	26.0	8.1	8.1	26.4	26.4	88.5	88.5	6.2		10.9		8		75				<0.2		2.1	
						4.7	0.5	75	26.0		8.1		26.4		88.5		6.2		10.9		7		76				<0.2		2.0	
					Bottom	8.4	0.3	79	26.0	26.0	8.1	8.1	26.4	26.4	91.2	91.3	6.4	6.4	10.7		6		76				<0.2		1.8	
						8.4	0.4	82	26.0		8.1		26.4		91.4		6.4		10.8		6		77				<0.2		1.7	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 13 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	07:27	7.9	Surface	1.0	0.2	50	26.2	26.2	8.1	8.1	21.4	21.4	82.4	82.4	5.9	5.9	5.0	8.0	4	7	74	76	822096	808822	<0.2	<0.2	2.9	3.1
						1.0	0.2	50	26.2		8.1		21.4		82.4		5.9		5.0		4		73				<0.2		3.0	
					Middle	4.0	0.3	55	26.2	26.2	8.1	8.1	23.2	23.2	83.2	83.2	5.9		7.7		8		76				<0.2		3.1	
						4.0	0.3	58	26.2		8.1		23.2		83.2		5.9		7.8		6		76				<0.2		3.1	
					Bottom	6.9	0.2	61	26.0	26.0	8.1	8.1	25.4	25.4	83.9	83.9	5.9	5.9	11.2		9		77				<0.2		3.0	
						6.9	0.3	63	26.0		8.1		25.4		83.9		5.9		11.2		8		77				<0.2		3.2	
IM10	Cloudy	Moderate	07:21	8.2	Surface	1.0	0.2	90	26.2	26.2	8.1	8.1	21.4	21.4	82.4	82.4	5.9	5.9	4.8	5.5	4	4	73	75	822230	809839	<0.2	<0.2	3.1	3.0
						1.0	0.2	96	26.2		8.1		21.4		82.4		5.9		4.8		5		74				<0.2		3.0	
					Middle	4.1	0.3	49	26.2	26.2	8.1	8.1	23.2	23.2	82.9	82.9	5.9		6.0		4		75				<0.2		2.9	
						4.1	0.3	50	26.2		8.1		23.2		82.9		5.9		6.0		5		75				<0.2		3.1	
					Bottom	7.2	0.3	58	26.1	26.1	8.1	8.1	25.2	25.2	82.7	82.7	5.8	5.8	5.8		3		77				<0.2		3.0	
						7.2	0.3	58	26.1		8.1		25.2		82.7		5.8		5.8		5		77				<0.2		3.1	
IM11	Cloudy	Moderate	07:15	6.5	Surface	1.0	0.2	93	26.2	26.2	8.1	8.1	22.1	22.1	83.0	83.0	5.9	5.9	6.3	6.2	2	5	73	75	821483	810562	<0.2	<0.2	3.2	3.1
						1.0	0.2	102	26.2		8.1		22.1		83.0		5.9		6.3		4		74				<0.2		3.0	
					Middle	3.3	0.3	41	26.1	26.1	8.1	8.1	23.3	23.3	83.1	83.1	5.9		7.3		5		75				<0.2		3.1	
						3.3	0.3	41	26.1		8.1		23.3		83.1		5.9		7.3		7		76				<0.2		3.0	
					Bottom	5.5	0.2	58	26.2	26.2	8.1	8.1	25.2	25.2	81.9	81.9	5.8	5.8	5.1		7		76				<0.2		3.2	
						5.5	0.3	59	26.2		8.1		25.2		81.9		5.8		5.1		7		77				<0.2		3.3	
IM12	Cloudy	Moderate	07:08	7.1	Surface	1.0	0.2	76	26.2	26.2	8.1	8.1	21.6	21.6	82.5	82.5	5.9	5.9	3.7	5.2	6	5	73	75	821177	811502	<0.2	<0.2	3.5	3.4
						1.0	0.2	76	26.2		8.1		21.6		82.5		5.9		3.7		6		74				<0.2		3.5	
					Middle	3.6	0.3	60	26.1	26.1	8.1	8.1	23.2	23.2	82.8	82.8	5.9		6.2		6		76				<0.2		3.4	
						3.6	0.3	65	26.1		8.1		23.2		82.8		5.9		6.2		4		75				<0.2		3.1	
					Bottom	6.1	0.3	66	26.2	26.2	8.1	8.1	25.2	25.2	82.1	82.1	5.8	5.8	5.8		4		77				<0.2		3.3	
						6.1	0.3	66	26.2		8.1		25.2		82.1		5.8		5.8		6		77				<0.2		3.5	
IM13	Cloudy	Moderate	08:04	8.0	Surface	1.0	0.3	38	26.2	26.2	8.1	8.1	22.2	22.2	92.5	92.5	6.6	6.4	5.6	8.0	4	8	-	-	820844	806333	-	-	-	-
						1.0	0.3	40	26.2		8.1		22.2		92.4		6.6		5.6		4		-				-		-	
					Middle	4.0	0.3	54	25.9	25.9	8.1	8.1	27.2	27.2	87.1	87.1	6.1		6.7		9		-				-		-	
						4.0	0.3	55	25.9		8.1		27.2		87.1		6.1		6.9		9		-				-		-	
					Bottom	7.0	0.3	65	25.8	25.8	8.1	8.1	27.4	27.4	87.8	87.9	6.1	6.1	11.4		10		-				-		-	
						7.0	0.3	71	25.8		8.1		27.4		87.9		6.1		11.5		9		-				-		-	
SR2	Cloudy	Moderate	06:47	5.3	Surface	1.0	0.5	267	26.1	26.1	8.2	8.2	23.9	23.9	85.5	85.5	6.1	6.1	14.2	13.5	<2	<2	73	75	821455	814172	<0.2	<0.2	3.4	3.0
						1.0	0.5	284	26.1		8.2		23.9		85.5		6.1		14.2		<2		74				<0.2		3.7	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.4	260	26.1	26.1	8.2	8.2	24.0	24.0	85.7	85.7	6.1	6.1	13.0		<2		75				<0.2		2.4	
						4.3	0.4	275	26.1		8.2		24.0		85.7		6.1		12.6		<2		76				<0.2		2.6	
SR3	Cloudy	Moderate	07:42	8.2	Surface	1.0	0.4	63	26.1	26.1	8.1	8.1	23.4	23.4	87.9	87.8	6.2	6.2	7.2	11.0	6	5	-	-	822133	807553	-	-	-	-
						1.0	0.4	63	26.1		8.1		23.4		87.7		6.2		7.5		4		-				-		-	
					Middle	4.1	0.5	74	26.0	26.0	8.1	8.1	26.0	26.0	87.7	87.8	6.2		12.0		4		-				-		-	
						4.1	0.5	80	26.0		8.1		26.0		87.8		6.2		12.2		3		-				-		-	
					Bottom	7.2	0.3	72	26.0	26.0	8.1	8.1	26.2	26.2	90.8	90.9	6.4	6.4	13.5		5		-				-		-	
						7.2	0.3	74	26.0		8.1		26.2		91.0		6.4		13.4		6		-				-		-	
SR4A	Cloudy	Moderate	06:42	9.7	Surface	1.0	0.1	71	26.4	26.4	8.0	8.0	23.9	23.9	91.2	91.2	6.4	6.4	5.1	6.5	3	5	-	-	817194	807823	-	-	-	-
						1.0	0.1	76	26.4		8.0		23.9		91.2		6.4		5.0		3		-				-		-	
					Middle	4.9	0.2	81	26.4	26.4	8.0	8.0	24.1	24.1	89.2	89.2	6.3		7.6		4		-				-		-	
						4.9	0.2	81	26.4		8.0		24.1		89.1		6.3		7.8		6		-				-		-	
					Bottom	8.7	0.2	71	26.2	26.2	8.0	8.0	25.2	25.2	88.2	88.2	6.2	6.2	6.8		7		-				-		-	
						8.7	0.2	72	26.2		8.0		25.2		88.2		6.2		6.8		7		-				-		-	
SR5A	Cloudy	Moderate	06:21	5.9	Surface	1.0	0.1	313	26.5	26.5	8.0	8.0	23.5	23.5	93.9	94.0	6.6	6.6	5.5	5.0	2	5	-	-	816590	810697	-	-	-	-
						1.0	0.1	340	26.5		8.0		23.5		94.0		6.6		5.6		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.9	0.1	320	26.5	26.5	8.0	8.0	23.6	23.6	94.1	94.1	6.6	6.6	4.4		7		-				-		-	
						4.9	0.1	336	26.5		8.0		23.6		94.1		6.6		4.5		6		-				-		-	
SR6	Cloudy	Moderate	05:59	5.0	Surface	1.0	0.1	235	26.5	26.5	8.0	8.0	20.9	20.9	89.8	89.8	6.4	6.4	4.3	3.1	4	5	-	-	817880	814667	-	-	-	-
						1.0	0.1	245	26.5		8.0		20.9		89.8		6.4		4.2		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.1	252	26.4	26.4	8.0	8.0	21.3	21.3	92.0	92.1	6.6	6.6	1.9		5		-				-		-	
						4.0	0.1	269	26.4		8.0		21.3		92.2		6.6		2.1		5		-				-		-	
SR7	Cloudy	Moderate	05:59	19.8	Surface	1.0	0.1	162	25.9	25.9	8.0	8.0	26.5	26.5	84.2	84.2	5.9	5.8	3.2	5.7	3	4	-	-	823646	823756	-	-	-	-
						1.0	0.1	172	25.9		8.0		26.5		84.2		5.9		3.3		3		-				-		-	
					Middle	9.9	0.1	96	25.5	25.5	8.0	8.0	29.4	29.4	82.1	82.1	5.7		7.2		6		-				-		-	
						9.9	0.1	100	25.5		8.0		29.4		82.1		5.7		6.8		5		-				-		-	
					Bottom	18.8	0.2	174	25.4	25.4	8.0	8.0	30.4	30.4	82.6	82.6	5.7	5.7	6.8		4		-				-		-	
						18.8	0.2	177	25.4		8.0		30.4		82.6		5.7		6.9		3		-				-		-	
SR8	Cloudy	Moderate	07:00	5.8	Surface	1.0	0.5	288	26.2	26.2	8.1	8.1	23.3	23.4	86.8	86.7	6.2	6.2	6.5	9.1	6	6	-	-	820431	811599	-	-	-	-
						1.0	0.5	316	26.2		8.1		23.4		86.6		6.1		6.6		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.8	0.4	266	26.1	26.1	8.2	8.2	24.0	24.0	86.2	86.2	6.1	6.1	11.6		6		-				-		-	
						4.8	0.4	270	26.1		8.2		24.0		86.2		6.1		11.6		7		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 13 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	13:40	6.6	Surface	1.0	0.4	189	26.2	26.2	8.1	8.1	24.6	24.6	92.4	92.3	6.5	6.3	4.2	6.6	9	9	74	76	815618	804237	<0.2	<0.2	2.0	1.9
						1.0	0.4	194	26.1		8.1		24.6		92.1		6.5		4.1		8		74				<0.2		2.0	
					Middle	3.3	0.4	184	25.7	25.7	8.1	8.1	28.2	28.2	87.9	87.9	6.1		6.3		10		76				<0.2		2.0	
						3.3	0.4	193	25.7		8.1		28.2		87.9		6.1		6.4		8		75				<0.2		2.0	
					Bottom	5.6	0.3	196	25.6	25.6	8.1	8.1	28.6	28.6	88.4	88.5	6.1	6.1	9.4		9		77				<0.2		1.7	
						5.6	0.3	215	25.6		8.1		28.6		88.5		6.1		9.4		8		77				<0.2		1.9	
C2	Cloudy	Moderate	12:48	9.5	Surface	1.0	0.3	142	26.3	26.3	8.1	8.1	21.5	21.5	95.3	95.4	6.8	6.8	5.4	7.7	6	7	73	75	825690	806936	<0.2	<0.2	2.3	2.5
						1.0	0.3	154	26.3		8.1		21.5		95.4		6.8		5.5		4		74				<0.2		2.6	
					Middle	4.8	0.2	81	26.2	26.2	8.1	8.1	22.7	22.7	95.2	95.2	6.8		6.3		5		75				<0.2		2.3	
						4.8	0.2	82	26.2		8.1		22.7		95.2		6.8		6.5		5		76				<0.2		2.3	
					Bottom	8.5	0.2	79	25.9	25.9	8.1	8.1	27.1	27.1	90.7	90.8	6.3	6.3	11.5		9		76				<0.2		2.6	
						8.5	0.2	86	25.9		8.1		27.1		90.8		6.3		11.2		10		77				<0.2		2.8	
C3	Cloudy	Moderate	14:10	10.7	Surface	1.0	0.6	102	26.1	26.1	8.1	8.1	24.5	24.5	86.1	86.1	6.1	6.0	4.4	6.0	5	5	73	76	822125	817787	<0.2	<0.2	2.8	2.9
						1.0	0.7	107	26.1		8.1		24.5		86.1		6.1		4.4		5		74				<0.2		3.1	
					Middle	5.4	0.5	96	25.9	25.9	8.1	8.1	26.0	26.0	84.1	84.1	5.9		5.8		4		76				<0.2		3.1	
						5.4	0.6	97	25.9		8.1		26.0		84.1		5.9		5.8		6		76				<0.2		3.0	
					Bottom	9.7	0.4	97	25.8	25.8	8.1	8.1	26.9	26.9	84.4	84.4	5.9	5.9	7.8		3		77				<0.2		2.4	
						9.7	0.5	97	25.8		8.1		26.9		84.4		5.9		7.8		4		77				<0.2		2.7	
IM1	Cloudy	Moderate	13:33	7.7	Surface	1.0	0.3	180	26.5	26.5	8.1	8.1	20.4	20.4	90.4	90.4	6.5	6.3	3.2	6.4	4	5	73	74	818354	806439	<0.2	<0.2	2.6	2.2
						1.0	0.3	197	26.5		8.1		20.4		90.3		6.5		3.3		6		73				<0.2		2.5	
					Middle	3.9	0.3	179	25.8	25.8	8.1	8.1	27.9	27.9	86.2	86.2	6.0		7.5		4		74				<0.2		2.1	
						3.9	0.3	192	25.8		8.1		27.9		86.2		6.0		7.6		6		74				<0.2		2.0	
					Bottom	6.7	0.3	178	25.7	25.7	8.1	8.1	28.1	28.1	88.2	88.3	6.1	6.1	8.4		6		75				<0.2		2.1	
						6.7	0.3	192	25.7		8.1		28.1		88.3		6.1		8.4		6		75				<0.2		2.1	
IM2	Cloudy	Moderate	13:27	8.4	Surface	1.0	0.3	210	26.1	26.1	8.1	8.1	24.9	24.9	90.3	90.3	6.4	6.3	4.0	7.8	6	8	73	75	818841	806174	<0.2	<0.2	2.2	1.8
						1.0	0.4	224	26.1		8.1		24.9		90.2		6.4		4.1		6		73				<0.2		2.1	
					Middle	4.2	0.2	176	25.7	25.7	8.1	8.1	27.8	27.8	87.5	87.5	6.1		7.6		7		75				<0.2		1.8	
						4.2	0.2	181	25.7		8.1		27.8		87.5		6.1		7.7		9		76				<0.2		1.9	
					Bottom	7.4	0.2	157	25.7	25.7	8.1	8.1	28.5	28.5	88.0	88.1	6.1	6.1	11.9		9		76				<0.2		1.4	
						7.4	0.2	168	25.7		8.1		28.5		88.1		6.1		11.7		9		76				<0.2		1.2	
IM3	Rainy	Moderate	13:19	8.8	Surface	1.0	0.2	217	26.1	26.1	8.1	8.1	24.4	24.4	91.9	91.8	6.5	6.4	4.4	8.0	5	9	73	75	819391	806004	<0.2	<0.2	2.2	2.0
						1.0	0.2	218	26.1		8.1		24.4		91.7		6.5		4.5		4		73				<0.2		2.0	
					Middle	4.4	0.4	207	25.8	25.8	8.1	8.1	26.8	26.8	88.9	88.9	6.2		8.5		11		75				<0.2		2.0	
						4.4	0.4	211	25.8		8.1		26.8		88.9		6.2		8.7		9		76				<0.2		2.1	
					Bottom	7.8	0.3	217	25.7	25.7	8.1	8.1	28.0	28.0	90.7	90.8	6.3	6.3	11.1		12		77				<0.2		1.8	
						7.8	0.3	227	25.7		8.1		28.0		90.8		6.3		10.9		10		77				<0.2		2.0	
IM4	Rainy	Moderate	13:11	8.4	Surface	1.0	0.4	198	26.1	26.1	8.1	8.1	23.9	23.9	92.0	91.9	6.5	6.3	5.3	9.7	9	10	73	75	819553	805040	<0.2	<0.2	2.2	2.1
						1.0	0.4	214	26.1		8.1		23.9		91.7		6.5		5.2		9		73				<0.2		2.0	
					Middle	4.2	0.5	178	25.7	25.7	8.1	8.1	27.8	27.8	86.0	86.0	6.0		11.2		10		75				<0.2		2.0	
						4.2	0.5	188	25.7		8.1		27.8		86.0		6.0		11.3		9		76				<0.2		2.3	
					Bottom	7.4	0.4	189	25.7	25.7	8.1	8.1	28.4	28.4	86.8	86.8	6.0	6.0	12.6		10		76				<0.2		1.9	
						7.4	0.4	207	25.7		8.1		28.4		86.8		6.0		12.5		11		76				<0.2		1.9	
IM5	Rainy	Moderate	13:04	7.3	Surface	1.0	0.4	192	26.3	26.3	8.1	8.1	21.5	21.5	94.3	94.3	6.7	6.3	4.4	8.8	7	7	71	74	820575	804938	<0.2	<0.2	2.0	2.4
						1.0	0.4	204	26.3		8.1		21.5		94.2		6.7		4.4		5		73				<0.2		2.7	
					Middle	3.7	0.4	178	25.7	25.7	8.1	8.1	27.8	27.8	85.3	85.3	5.9		9.6		4		74				<0.2		2.9	
						3.7	0.4	191	25.7		8.1		27.8		85.3		6.0		9.6		6		74				<0.2		2.9	
					Bottom	6.3	0.3	172	25.7	25.7	8.1	8.1	27.8	27.8	87.4	87.5	6.1	6.1	12.3		10		76				<0.2		1.9	
						6.3	0.3	181	25.7		8.1		27.8		87.5		6.1		12.3		9		76				<0.2		2.1	
IM6	Rainy	Moderate	12:52	7.5	Surface	1.0	0.2	191	26.2	26.2	8.1	8.1	21.3	21.3	89.6	89.4	6.4	6.2	6.0	9.0	5	6	73	74	821041	805821	<0.2	<0.2	2.8	2.7
						1.0	0.2	197	26.2		8.1		21.3		89.2		6.4		5.7		4		73				<0.2		3.0	
					Middle	3.8	0.3	168	25.8	25.8	8.1	8.1	27.5	27.5	85.5	85.5	6.0		7.9		4		74				<0.2		2.2	
						3.8	0.3	184	25.8		8.1		27.5		85.5		6.0		8.2		6		74				<0.2		2.3	
					Bottom	6.5	0.2	156	25.8	25.8	8.1	8.1	27.6	27.6	86.2	86.2	6.0	6.0	13.2		9		75				<0.2		3.0	
						6.5	0.3	159	25.8		8.1		27.6		86.2		6.0		13.2		7		75				<0.2		2.9	
IM7	Cloudy	Moderate	12:40	8.7	Surface	1.0	0.2	137	26.3	26.3	8.1	8.1	22.3	22.3	101.0	100.9	7.2	6.8	4.2	8.6	10	10	73	75	821352	806832	<0.2	<0.2	3.0	2.6
						1.0	0.2	144	26.3		8.1		22.3		100.8		7.2		4.0		8		73				<0.2		3.0	
					Middle	4.4	0.2	108	26.0	26.0	8.1	8.1	25.6	25.6	91.4	91.4	6.4		9.4		10		75				<0.2		2.4	
						4.4	0.2	114	26.0		8.1		25.6		91.4		6.4		9.4		10		76				<0.2		2.3	
					Bottom	7.7	0.2	91	25.9	25.9	8.1	8.1	27.6	27.6	95.6	95.8	6.7	6.7	12.3		10		76				<0.2		2.6	
						7.7	0.2	93	25.9		8.1		27.6		95.9		6.7		12.2		12		76				<0.2		2.4	
IM8	Rainy	Moderate	13:09	8.8	Surface	1.0	0.3	143	26.3	26.3	8.1	8.1	21.6	21.6	98.2	98.2	7.0	6.8	3.7	7.2	5	6	73	75	821706	807825	<0.2	<0.2	2.7	2.4
						1.0	0.3	146	26.3		8.1		21.6		98.1		7.0		3.8		6		73				<0.2		2.9	
					Middle	4.4	0.2	95	26.2	26.2	8.1	8.1	23.3	23.3	93.7	93.6	6.6		5.6		4		75				<0.2		2.2	
						4.4	0.2	95	26.2		8.1		23.2		93.5		6.6		5.8		5		76				<0.2		2.3	
					Bottom	7.8	0.4	67	25.9	25.9	8.1	8.1	27.2	27.2	93.3	94.1	6.5	6.6	12.4		7		76				<0.2		2.2	
						7.8	0.4	70	25.9		8.1		27.2		94.8		6.6		12.0		7		77				<0.2		2.2	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 13 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Rainy	Moderate	13:14	6.9	Surface	1.0	0.5	144	26.1	26.1	8.1	8.2	21.5	21.5	84.9	84.9	6.1	6.1	4.7	6.9	5	5	73	74	822097	808817	<0.2	<0.2	2.5	2.6
						1.0	0.5	149	26.1		8.2		21.5		84.8		6.1		4.9		6		73				<0.2		2.6	
					Middle	3.5	0.2	132	26.0	26.0	8.2	8.2	25.3	25.3	84.6	84.6	6.0		6.6		4		74				<0.2		2.6	
						3.5	0.2	134	26.0		8.2		25.3		84.6		6.0		6.6		4		74				<0.2		2.6	
					Bottom	5.9	0.2	136	25.9	25.9	8.2	8.2	26.1	26.1	84.7	84.7	5.9	5.9	9.2		5		75				<0.2		2.7	
						5.9	0.3	142	25.9		8.2		26.1		84.7		5.9		9.2		5		75				<0.2		2.8	
IM10	Rainy	Moderate	13:21	7.3	Surface	1.0	0.3	147	26.2	26.2	8.1	8.1	21.4	21.5	85.6	85.6	6.1	6.0	4.2	8.1	5	7	73	74	822246	809823	<0.2	<0.2	2.7	2.8
						1.0	0.3	159	26.2		8.1		21.5		85.5		6.1		4.4		7		73				<0.2		2.7	
					Middle	3.7	0.2	116	25.9	25.9	8.2	8.2	25.5	25.5	84.4	84.4	5.9		8.0		7		74				<0.2		2.9	
						3.7	0.2	123	25.9		8.2		25.5		84.4		5.9		8.0		8		74				<0.2		2.8	
					Bottom	6.3	0.2	77	25.8	25.8	8.2	8.2	27.1	27.1	84.7	84.7	5.9	5.9	12.0		8		75				<0.2		2.7	
						6.3	0.2	77	25.8		8.2		27.1		84.7		5.9		12.0		7		75				<0.2		2.7	
IM11	Rainy	Moderate	13:27	6.8	Surface	1.0	0.5	120	26.2	26.2	8.1	8.1	21.9	21.9	86.4	86.4	6.2	6.2	4.0	9.9	5	5	73	74	821491	810538	<0.2	<0.2	2.2	3.0
						1.0	0.5	128	26.2		8.1		21.9		86.3		6.2		4.1		6		73				<0.2		2.5	
					Middle	3.4	0.4	101	26.2	26.2	8.2	8.2	23.2	23.2	86.9	86.9	6.2		9.7		5		74				<0.2		3.5	
						3.4	0.4	101	26.2		8.2		23.2		86.9		6.2		9.7		6		74				<0.2		3.2	
					Bottom	5.8	0.2	84	26.1	26.1	8.2	8.2	25.0	25.0	87.4	87.4	6.2	6.2	16.0		5		75				<0.2		3.4	
						5.8	0.2	92	26.1		8.2		25.0		87.4		6.2		16.0		4		76				<0.2		3.3	
IM12	Cloudy	Moderate	13:33	8.7	Surface	1.0	0.6	111	26.3	26.3	8.1	8.1	21.9	21.9	87.2	87.2	6.2	6.2	2.2	6.3	4	6	74	76	821145	811525	<0.2	<0.2	2.6	2.8
						1.0	0.7	115	26.3		8.1		21.9		87.2		6.2		2.2		4		74				<0.2		2.3	
					Middle	4.4	0.3	101	26.1	26.1	8.2	8.2	23.9	23.9	86.6	86.6	6.1		5.9		6		76				<0.2		3.3	
						4.4	0.3	103	26.1		8.2		23.9		86.6		6.1		5.9		6		76				<0.2		3.3	
					Bottom	7.7	0.3	65	26.1	26.1	8.2	8.2	24.8	24.8	86.6	86.6	6.1	6.1	10.8		9		77				<0.2		2.6	
						7.7	0.3	68	26.1		8.2		24.8		86.6		6.1		10.8		7		77				<0.2		2.9	
IM13	Rainy	Moderate	12:53	7.6	Surface	1.0	0.2	177	26.3	26.3	8.1	8.1	21.2	21.2	93.3	93.2	6.7	6.4	5.1	8.3	9	9	-	-	820798	805799	-	-	-	-
						1.0	0.2	188	26.3		8.1		21.2		93.0		6.7		5.2		8		-				-		-	
					Middle	3.8	0.3	149	25.8	25.8	8.1	8.1	27.3	27.3	85.8	85.8	6.0		8.3		8		-				-		-	
						3.8	0.3	153	25.8		8.1		27.3		85.8		6.0		8.3		10		-				-		-	
					Bottom	6.6	0.2	156	25.8	25.8	8.1	8.1	27.6	27.6	86.4	86.6	6.0	6.1	11.5		10		-				-		-	
						6.6	0.2	160	25.8		8.1		27.6		86.8		6.1		11.6		10		-				-		-	
SR2	Cloudy	Moderate	13:55	4.8	Surface	1.0	0.7	89	26.2	26.2	8.2	8.2	23.9	23.9	86.1	86.1	6.1	6.1	10.9	12.1	5	7	73	74	821460	814153	<0.2	<0.2	3.2	3.1
						1.0	0.8	91	26.2		8.2		23.9		86.1		6.1		10.9		6		74				<0.2		3.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.6	82	26.1	26.1	8.2	8.2	24.0	24.0	86.3	86.3	6.1	6.1	13.2		8		75				<0.2		2.7	
						3.8	0.6	86	26.1		8.2		24.0		86.3		6.1		13.2		7		75				<0.2		3.0	
SR3	Rainy	Moderate	13:00	8.9	Surface	1.0	0.3	146	26.3	26.3	8.1	8.1	21.9	21.9	87.2	87.2	6.2	6.2	2.2	6.3	6	7	-	-	822157	807558	-	-	-	-
						1.0	0.3	155	26.3		8.1		21.9		87.2		6.2		2.2		5		-				-		-	
					Middle	4.5	0.2	102	26.1	26.1	8.2	8.2	23.9	23.9	86.6	86.6	6.1		5.9		8		-				-		-	
						4.5	0.2	105	26.1		8.2		23.9		86.6		6.1		5.9		7		-				-		-	
					Bottom	7.9	0.2	87	26.1	26.1	8.2	8.2	24.8	24.8	86.6	86.6	6.1	6.1	10.8		8		-				-		-	
						7.9	0.2	91	26.1		8.2		24.8		86.6		6.1		10.8		7		-				-		-	
SR4A	Cloudy	Moderate	13:52	8.3	Surface	1.0	0.3	82	26.0	26.0	8.1	8.1	27.0	27.0	89.1	89.1	6.2	6.2	11.4	10.2	8	13	-	-	817183	807800	-	-	-	-
						1.0	0.3	83	26.0		8.1		27.0		89.0		6.2		11.5		9		-				-		-	
					Middle	4.2	0.3	82	25.8	25.8	8.1	8.1	27.8	27.8	88.6	88.7	6.2		8.5		12		-				-		-	
						4.2	0.3	89	25.8		8.1		27.8		88.7		6.2		8.7		13		-				-		-	
					Bottom	7.3	0.2	79	25.8	25.8	8.1	8.1	28.0	28.0	93.4	93.5	6.5	6.5	10.7		19		-				-		-	
						7.3	0.2	82	25.8		8.1		28.0		93.6		6.5		10.5		18		-				-		-	
SR5A	Cloudy	Moderate	14:10	5.5	Surface	1.0	0.1	328	26.7	26.7	8.1	8.1	23.6	23.6	97.2	97.1	6.8	6.8	7.3	6.9	8	9	-	-	816595	810712	-	-	-	-
						1.0	0.1	332	26.7		8.1		23.6		97.0		6.8		7.4		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.5	0.2	125	26.3	26.3	8.1	8.1	25.1	25.1	97.4	97.5	6.8	6.8	6.4		9		-				-		-	
						4.5	0.2	128	26.3		8.1		25.1		97.6		6.8		6.4		11		-				-		-	
SR6	Cloudy	Moderate	14:11	5.3	Surface	1.0	0.1	10	26.7	26.7	8.1	8.1	23.6	23.6	97.4	97.4	6.8	6.8	8.6	10.5	8	10	-	-	817898	814668	-	-	-	-
						1.0	0.1	10	26.7		8.1		23.6		97.3		6.8		8.8		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.2	117	26.3	26.3	8.1	8.1	24.6	24.6	92.7	92.8	6.5	6.5	12.1		11		-				-		-	
						4.3	0.2	127	26.3		8.1		24.6		92.8		6.5		12.3		10		-				-		-	
SR7	Cloudy	Moderate	15:36	14.6	Surface	1.0	1.3	79	26.3	26.3	8.1	8.1	23.2	23.2	93.8	93.7	6.6	6.4	1.4	3.5	5	7	-	-	823629	823755	-	-	-	-
						1.0	1.5	86	26.3		8.1		23.2		93.6		6.6		1.3		4		-				-		-	
					Middle	7.3	0.4	101	25.9	25.9	8.1	8.1	25.8	25.8	86.8	86.8	6.1		4.1		6		-				-		-	
						7.3	0.4	105	25.9		8.1		25.8		86.8		6.1		4.2		6		-				-		-	
					Bottom	13.6	0.1	38	25.7	25.7	8.0	8.0	28.5	28.5	88.9	88.9	6.2	6.2	5.0		10		-				-		-	
						13.6	0.1	41	25.7		8.0		28.5		88.9		6.2		5.0		11		-				-		-	
SR8	Cloudy	Moderate	13:41	4.4	Surface	1.0	0.8	90	26.2	26.2	8.1	8.1	23.5	23.5	86.6	86.6	6.1	6.1	9.8	11.5	2	4	-	-	820409	811582	-	-	-	-
						1.0	0.8	97	26.2		8.1		23.5		86.6		6.1		9.8		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.6	84	26.1	26.1	8.2	8.2	24.0	24.0	86.5	86.5	6.1	6.1	13.2		6		-				-		-	
						3.4	0.7	86	26.1		8.2		24.0		86.5		6.1		13.2		4		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 16 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	08:22	6.7	Surface	1.0	0.3	58	25.9	25.9	8.0	8.0	21.8	21.8	90.3	90.3	6.5	6.4	4.7	9.4	3	6	73	75	815603	804258	<0.2	<0.2	2.4	2.1
						1.0	0.3	58	25.9		8.0		21.8		90.2		6.5		4.8		4		74				<0.2		2.3	
					Middle	3.4	0.3	60	25.9	25.9	8.0	8.0	22.0	22.0	86.7	86.7	6.2		8.4		7		76				<0.2		2.2	
						3.4	0.3	65	25.9		8.0		22.0		86.6		6.2		8.5		8		75				<0.2		2.0	
					Bottom	5.7	0.3	60	25.9	25.9	8.0	8.0	26.2	26.2	85.1	85.1	6.0	6.0	15.0		6		77				<0.2		2.0	
						5.7	0.3	63	25.9		8.0		26.2		85.1		6.0		15.1		7		77				<0.2		1.9	
C2	Cloudy	Moderate	09:59	10.3	Surface	1.0	0.1	-	26.2	26.2	8.0	8.0	19.3	19.3	84.3	84.3	6.1	6.0	2.4	4.3	4	5	74	76	825679	806943	<0.2	<0.2	2.8	2.7
						1.0	0.1	-	26.2		8.0		19.3		84.3		6.1		2.5		5		74				<0.2		2.6	
					Middle	5.2	0.5	21	26.1	26.1	8.1	8.1	21.4	21.4	82.3	82.3	5.9		3.8		7		76				<0.2		2.7	
						5.2	0.6	21	26.1		8.1		21.4		82.3		5.9		4.1		6		76				<0.2		2.8	
					Bottom	9.3	0.3	43	26.1	26.1	8.1	8.1	24.9	24.9	83.9	83.9	5.9	5.9	6.6		4		77				<0.2		2.6	
						9.3	0.3	44	26.1		8.1		24.8		83.9		5.9		6.2		3		77				<0.2		2.9	
C3	Cloudy	Moderate	08:05	11.1	Surface	1.0	0.5	248	26.0	26.0	8.0	8.0	23.7	23.7	80.7	80.7	5.7	5.6	2.0	2.1	5	7	74	75	822122	817786	<0.2	<0.2	2.4	2.6
						1.0	0.5	263	26.0		8.0		23.7		80.7		5.7		2.0		7		73				<0.2		2.4	
					Middle	5.6	0.2	272	25.7	25.7	8.0	8.0	27.5	27.5	77.9	77.9	5.5		2.1		8		76				<0.2		2.4	
						5.6	0.2	291	25.7		8.0		27.5		77.9		5.5		2.1		6		75				<0.2		2.6	
					Bottom	10.1	0.2	199	25.8	25.8	8.0	8.0	26.7	26.7	78.7	78.7	5.5	5.5	2.1		8		77				<0.2		2.8	
						10.1	0.2	203	25.8		8.0		26.7		78.7		5.5		2.1		6		77				<0.2		3.0	
IM1	Cloudy	Moderate	08:34	7.8	Surface	1.0	0.4	2	26.0	26.0	8.0	8.0	22.3	22.3	88.4	88.4	6.3	6.3	1.9	5.1	9	6	74	76	818356	806457	<0.2	<0.2	2.1	2.2
						1.0	0.4	2	26.0		8.0		22.3		88.4		6.3		2.0		7		73				<0.2		2.1	
					Middle	3.9	0.4	7	26.0	26.0	8.0	8.0	22.3	22.3	86.7	86.7	6.2		4.7		7		76				<0.2		2.1	
						3.9	0.4	7	26.0		8.0		22.3		86.6		6.2		4.7		5		76				<0.2		2.2	
					Bottom	6.8	0.3	5	26.0	26.0	8.0	8.0	25.2	25.2	84.8	84.9	6.0	6.0	8.6		4		77				<0.2		2.3	
						6.8	0.3	5	26.0		8.0		25.2		84.9		6.0		8.6		4		77				<0.2		2.4	
IM2	Cloudy	Moderate	08:40	8.6	Surface	1.0	0.5	22	26.0	26.0	8.0	8.0	22.2	22.2	87.8	87.8	6.3	6.3	3.0	6.7	6	4	74	75	818849	806174	<0.2	<0.2	2.1	1.9
						1.0	0.6	22	26.0		8.0		22.2		87.8		6.3		3.0		4		73				<0.2		1.9	
					Middle	4.3	0.5	23	26.0	26.0	8.0	8.0	22.8	22.9	86.2	86.2	6.2		5.5		4		75				<0.2		1.9	
						4.3	0.5	23	26.0		8.0		22.9		86.2		6.2		5.5		3		75				<0.2		1.9	
					Bottom	7.6	0.3	32	25.9	25.9	8.0	8.0	26.2	26.2	85.8	85.9	6.0	6.0	11.7		3		77				<0.2		1.7	
						7.6	0.3	34	25.9		8.0		26.2		86.0		6.0		11.6		5		76				<0.2		1.8	
IM3	Cloudy	Moderate	08:48	9.0	Surface	1.0	0.5	11	26.1	26.1	8.0	8.0	22.3	22.3	87.9	87.9	6.3	6.1	1.8	6.8	4	5	73	75	819421	806009	<0.2	<0.2	1.8	2.0
						1.0	0.5	12	26.1		8.0		22.3		87.9		6.3		1.9		4		74				<0.2		2.1	
					Middle	4.5	0.4	17	26.0	26.0	8.0	8.0	23.5	23.4	81.6	81.6	5.8		4.9		7		75				<0.2		2.0	
						4.5	0.4	17	26.0		8.0		23.2		81.5		5.8		5.1		7		75				<0.2		2.0	
					Bottom	8.0	0.2	7	25.9	25.9	8.0	8.0	26.4	26.4	84.9	84.9	5.9	5.9	13.4		5		77				<0.2		1.9	
						8.0	0.3	7	25.9		8.0		26.4		84.9		5.9		13.6		3		77				<0.2		1.9	
IM4	Cloudy	Moderate	08:56	8.3	Surface	1.0	0.4	6	26.1	26.1	8.0	8.0	21.7	21.7	86.8	86.8	6.2	6.2	3.4	7.4	4	3	74	76	819584	805051	<0.2	<0.2	2.1	2.4
						1.0	0.4	6	26.1		8.0		21.7		86.8		6.2		3.6		3		74				<0.2		2.2	
					Middle	4.2	0.5	24	26.0	26.0	8.0	8.0	22.0	22.0	84.7	84.7	6.1		5.7		4		76				<0.2		2.0	
						4.2	0.5	25	26.0		8.0		22.0		84.7		6.1		5.7		3		76				<0.2		2.6	
					Bottom	7.3	0.3	7	25.8	25.8	8.0	8.0	27.2	27.2	82.5	82.5	5.8	5.8	12.8		3		76				<0.2		2.6	
						7.3	0.3	7	25.8		8.0		27.2		82.5		5.8		12.9		3		77				<0.2		2.6	
IM5	Cloudy	Moderate	09:04	7.3	Surface	1.0	0.5	3	26.1	26.1	8.0	8.0	21.7	21.7	86.6	86.6	6.2	6.2	1.6	6.1	5	6	73	75	820554	804922	<0.2	<0.2	2.7	2.6
						1.0	0.5	3	26.1		8.0		21.7		86.6		6.2		1.7		3		74				<0.2		2.6	
					Middle	3.7	0.6	1	26.1	26.1	8.0	8.0	21.7	21.7	85.6	85.6	6.1		3.8		8		75				<0.2		2.5	
						3.7	0.6	1	26.1		8.0		21.7		85.5		6.1		3.9		6		75				<0.2		2.5	
					Bottom	6.3	0.4	345	25.8	25.8	8.0	8.0	27.4	27.4	84.7	84.8	5.9	5.9	12.7		6		76				<0.2		2.5	
						6.3	0.4	317	25.8		8.0		27.4		84.9		5.9		12.7		5		76				<0.2		2.5	
IM6	Cloudy	Moderate	09:19	6.4	Surface	1.0	0.4	1	26.1	26.1	8.0	8.0	20.6	20.6	86.0	86.0	6.2	6.1	2.4	5.9	5	4	73	75	821051	805837	<0.2	<0.2	2.9	2.8
						1.0	0.4	1	26.1		8.0		20.6		86.0		6.2		2.5		4		74				<0.2		2.8	
					Middle	3.2	0.4	10	26.1	26.1	8.0	8.0	23.0	23.0	84.4	84.4	6.0		5.7		4		75				<0.2		2.8	
						3.2	0.5	10	26.1		8.0		23.0		84.3		6.0		5.9		4		75				<0.2		2.8	
					Bottom	5.4	0.3	27	26.0	26.0	8.2	8.2	25.0	25.0	84.5	84.6	6.0	6.0	9.4		3		77				<0.2		2.7	
						5.4	0.4	27	26.0		8.2		25.0		84.6		6.0		9.4		4		77				<0.2		2.8	
IM7	Cloudy	Moderate	09:28	8.7	Surface	1.0	0.1	7	26.2	26.2	7.9	7.9	19.2	19.2	85.8	85.8	6.2	6.2	2.5	3.2	3	5	74	75	821355	806854	<0.2	<0.2	3.1	3.0
						1.0	0.1	7	26.2		7.9		19.2		85.8		6.2		2.6		5		73				<0.2		3.2	
					Middle	4.4	0.4	20	26.1	26.1	8.0	8.0	21.1	21.1	85.8	85.8	6.2		3.3		4		75				<0.2		2.9	
						4.4	0.4	20	26.1		8.0		21.1		85.7		6.2		3.2		5		75				<0.2		3.2	
					Bottom	7.7	0.3	5	26.1	26.1	8.0	8.0	24.5	24.5	86.1	86.2	6.1	6.1	3.9		6		77				<0.2		3.0	
						7.7	0.3	5	26.1		8.0		24.5		86.2		6.1		3.6		5		77				<0.2		2.7	
IM8	Cloudy	Moderate	09:45	8.7	Surface	1.0	0.2	43	26.2	26.2	8.0	8.0	19.4	19.4	84.8	84.8	6.2	6.1	1.7	7.2	4	5	73	75	821694	807833	<0.2	<0.2	2.7	2.7
						1.0	0.2	47	26.2		8.0		19.4		84.8		6.2		1.8		6		74				<0.2		2.9	
					Middle	4.4	0.3	30	26.2	26.2	8.0	8.0	21.4	21.4	82.9	82.9	6.0		5.4		6		75				<0.2		2.7	
						4.4	0.3	31	26.2		8.0		21.4		82.9		6.0		5.6		4		75				<0.2		3.1	
					Bottom	7.7	0.4	39	26.1	26.1	8.2	8.2	24.4	24.4	82.8	82.9	5.9	5.9	14.5		3		77				<0.2		2.4	
						7.7	0.4	40	26.1		8.2		24.4		82.9		5.9		14.0		4		77				<0.2		2.4	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 16 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	08:59	8.8	Surface	1.0	0.3	333	26.1	26.1	8.0	8.0	20.4	20.4	83.4	83.4	6.0	6.0	2.6	4.8	8	6	74	75	822082	808809	<0.2	<0.2	2.3	2.6
						1.0	0.3	340	26.1		8.0		20.4		83.4		6.0		2.6		6		73				<0.2		2.8	
					Middle	4.4	0.4	327	26.1	26.1	8.0	8.0	20.4	20.4	82.7	82.7	6.0		3.5		8		75				<0.2		2.7	
						4.4	0.4	341	26.1		8.0		20.4		82.7		6.0		3.5		7		76				<0.2		2.5	
					Bottom	7.8	0.4	322	26.1	26.1	8.0	8.0	23.2	23.2	82.2	82.2	5.8	5.8	8.4		3		77				<0.2		2.5	
						7.8	0.4	349	26.1		8.0		23.2		82.2		5.8		8.4		4		76				<0.2		2.6	
IM10	Cloudy	Moderate	08:53	7.9	Surface	1.0	0.3	338	26.1	26.1	8.0	8.0	20.4	20.4	82.8	82.8	6.0	6.0	3.1	7.1	5	7	73	75	822221	809839	<0.2	<0.2	2.7	2.6
						1.0	0.3	311	26.1		8.0		20.4		82.8		6.0		3.1		5		74				<0.2		2.3	
					Middle	4.0	0.4	331	26.1	26.1	8.0	8.0	20.4	20.4	81.6	81.6	5.9		5.2		5		75				<0.2		2.7	
						4.0	0.4	305	26.1		8.0		20.4		81.6		5.9		5.2		6		76				<0.2		2.6	
					Bottom	6.9	0.4	322	26.1	26.1	8.0	8.0	23.1	23.1	81.5	81.5	5.8	5.8	12.9		11		76				<0.2		2.5	
						6.9	0.4	322	26.1		8.0		23.1		81.5		5.8		12.9		9		77				<0.2		2.5	
IM11	Cloudy	Moderate	08:48	7.2	Surface	1.0	0.3	348	26.1	26.1	8.0	8.0	20.4	20.4	82.8	82.8	6.0	6.0	3.4	8.2	8	7	73	75	821481	810538	<0.2	<0.2	2.8	3.0
						1.0	0.3	320	26.1		8.0		20.4		82.7		6.0		3.4		6		74				<0.2		3.0	
					Middle	3.6	0.4	335	26.1	26.1	8.0	8.0	20.4	20.4	81.2	81.2	5.9		6.6		4		75				<0.2		2.9	
						3.6	0.4	344	26.1		8.0		20.4		81.2		5.9		6.6		4		76				<0.2		3.2	
					Bottom	6.2	0.4	320	26.1	26.1	8.0	8.0	23.1	23.1	80.5	80.5	5.7	5.7	14.5		8		77				<0.2		3.0	
						6.2	0.4	346	26.1		8.0		23.1		80.5		5.7		14.5		10		77				<0.2		2.8	
IM12	Cloudy	Moderate	08:42	8.6	Surface	1.0	0.2	342	26.1	26.1	8.0	8.0	20.4	20.4	82.7	82.7	6.0	6.0	3.0	5.3	6	9	74	75	821145	811520	<0.2	<0.2	2.8	2.8
						1.0	0.2	315	26.1		8.0		20.4		82.6		6.0		3.1		8		73				<0.2		3.1	
					Middle	4.3	0.4	333	26.1	26.1	8.0	8.0	20.5	20.5	81.7	81.7	5.9		5.3		15		76				<0.2		2.8	
						4.3	0.4	306	26.1		8.0		20.5		81.7		5.9		5.3		13		75				<0.2		3.0	
					Bottom	7.6	0.4	316	26.1	26.1	8.0	8.0	23.0	23.0	82.2	82.2	5.8	5.8	7.4		8		77				<0.2		2.6	
						7.6	0.5	346	26.1		8.0		23.0		82.2		5.8		7.4		6		77				<0.2		2.6	
IM13	Cloudy	Moderate	09:14	7.8	Surface	1.0	0.3	351	26.1	26.1	8.0	8.0	21.2	21.2	87.2	87.2	6.3	6.3	2.8	4.5	6	5	-	-	821088	806113	-	-	-	-
						1.0	0.4	323	26.1		8.0		21.2		87.2		6.3		3.0		7		-				-		-	
					Middle	3.9	0.4	355	26.1	26.1	8.0	8.0	23.1	23.1	86.7	86.7	6.2		5.0		3		-				-		-	
						3.9	0.4	327	26.1		8.0		23.1		86.7		6.2		4.6		5		-				-		-	
					Bottom	6.8	0.2	10	26.1	26.1	8.1	8.1	24.2	24.2	89.2	89.3	6.3	6.3	5.7		3		-				-		-	
						6.8	0.3	10	26.1		8.1		24.2		89.4		6.3		5.9		5		-				-		-	
SR2	Cloudy	Moderate	08:22	4.8	Surface	1.0	0.7	264	26.0	26.0	7.9	7.9	22.7	22.7	81.5	81.5	5.8	5.8	2.5	2.9	5	6	74	75	821468	814175	<0.2	<0.2	2.6	2.6
						1.0	0.7	285	26.0		7.9		22.7		81.5		5.8		2.5		6		73				<0.2		2.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.3	245	26.0	26.0	7.8	7.8	24.9	24.9	83.9	83.9	5.9	5.9	3.3		7		76				<0.2		2.7	
						3.8	0.4	247	26.0		7.8		24.9		83.9		5.9		3.3		5		75				<0.2		2.5	
SR3	Cloudy	Moderate	09:58	7.3	Surface	1.0	0.2	4	26.2	26.2	8.0	8.0	19.3	19.3	84.6	84.6	6.1	6.1	3.8	8.9	5	5	-	-	822145	807575	-	-	-	-
						1.0	0.2	4	26.2		8.0		19.3		84.6		6.1		4.0		4		-				-		-	
					Middle	3.7	0.5	27	26.1	26.1	8.1	8.1	21.6	21.6	83.9	83.9	6.0		5.7		5		-				-		-	
						3.7	0.5	29	26.1		8.1		21.6		83.9		6.0		5.9		6		-				-		-	
					Bottom	6.3	0.3	40	26.1	26.1	8.1	8.1	24.6	24.6	84.2	84.3	5.9	6.0	16.6		3		-				-		-	
						6.3	0.3	42	26.1		8.1		24.6		84.3		6.0		17.1		5		-				-		-	
SR4A	Cloudy	Moderate	08:06	9.2	Surface	1.0	0.3	245	26.1	26.1	8.0	8.0	23.4	23.4	86.0	86.0	6.1	6.1	4.5	6.9	10	7	-	-	817185	807791	-	-	-	-
						1.0	0.3	256	26.1		8.0		23.4		86.0		6.1		4.4		9		-				-		-	
					Middle	4.6	0.3	243	26.1	26.1	8.0	8.0	23.5	23.6	84.5	84.5	6.0		6.6		6		-				-		-	
						4.6	0.4	256	26.1		8.0		23.6		84.4		6.0		6.3		5		-				-		-	
					Bottom	8.2	0.2	245	26.1	26.1	8.0	8.0	24.2	24.2	84.6	84.7	6.0	6.0	9.6		7		-				-		-	
						8.2	0.2	263	26.1		8.0		24.2		84.7		6.0		9.8		6		-				-		-	
SR5A	Cloudy	Moderate	07:50	5.4	Surface	1.0	0.2	308	26.2	26.2	8.0	8.0	23.2	23.2	86.2	86.3	6.1	6.1	3.2	2.2	6	7	-	-	816585	810690	-	-	-	-
						1.0	0.2	311	26.2		8.0		23.2		86.3		6.1		3.1		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.2	304	26.2	26.2	8.0	8.0	23.2	23.2	90.5	90.6	6.4	6.4	1.3		7		-				-		-	
						4.4	0.2	323	26.2		8.0		23.2		90.7		6.4		1.3		9		-				-		-	
SR6	Cloudy	Moderate	07:30	4.2	Surface	1.0	0.2	248	26.2	26.2	8.0	8.0	21.5	21.5	85.1	85.1	6.1	6.1	4.6	4.7	6	5	-	-	817903	814645	-	-	-	-
						1.0	0.3	264	26.2		8.0		21.5		85.1		6.1		4.7		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	256	26.2	26.2	7.9	7.9	22.3	22.3	85.9	86.0	6.1	6.1	4.7		5		-				-		-	
						3.2	0.1	261	26.2		7.9		22.3		86.0		6.1		4.7		6		-				-		-	
SR7	Cloudy	Moderate	07:32	15.4	Surface	1.0	0.3	210	26.1	26.1	7.9	7.9	23.7	23.7	83.9	83.9	6.0	5.7	1.2	2.1	4	6	-	-	823653	823754	-	-	-	-
						1.0	0.3	221	26.1		7.9		23.7		83.8		5.9		1.3		5		-				-		-	
					Middle	7.7	0.1	119	25.7	25.7	7.9	7.9	28.4	28.4	77.9	78.0	5.4		2.1		4		-				-		-	
						7.7	0.1	122	25.7		7.9		28.4		78.0		5.4		2.1		6		-				-		-	
					Bottom	14.4	0.2	72	25.6	25.6	7.9	7.9	28.9	28.9	78.6	78.6	5.5	5.5	2.8		7		-				-		-	
						14.4	0.2	76	25.6		7.9		28.9		78.6		5.5		2.9		8		-				-		-	
SR8	Cloudy	Moderate	08:34	5.6	Surface	1.0	0.7	258	26.0	26.0	7.9	7.9	22.8	22.8	77.5	77.5	5.5	5.5	3.6	4.4	6	6	-	-	820436	811583	-	-	-	-
						1.0	0.7	281	26.0		7.9		22.8		77.5		5.5		3.6		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.3	246	25.9	25.9	7.9	7.9	25.5	25.5	76.5	76.6	5.4	5.4	5.2		5		-				-		-	
						4.6	0.3	247	25.9		7.9		25.5		76.6		5.4		5.3		7		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 16 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	15:34	7.5	Surface	1.0	0.1	223	26.0	26.0	8.1	8.1	22.9	22.9	96.2	96.1	6.9	6.4	2.9	5.7	6	7	73	75	815632	804239	<0.2	<0.2	2.6	2.0
						1.0	0.1	234	26.0		8.1		22.9		95.9		6.8		3.0		8		74				<0.2		2.3	
					Middle	3.8	0.2	156	25.4	25.4	8.1	8.1	30.0	30.1	84.9	84.9	5.9		7.1		10		76				<0.2		2.4	
						3.8	0.2	159	25.4		8.1		30.1		84.9		5.9		7.0		8		75				<0.2		2.5	
					Bottom	6.5	0.1	178	25.4	25.4	8.1	8.1	30.4	30.4	86.4	86.5	6.0	6.0	6.9		6		77				<0.2		1.0	
						6.5	0.1	182	25.4		8.1		30.4		86.5		6.0		7.0		6		77				<0.2		1.0	
C2	Cloudy	Moderate	14:36	9.4	Surface	1.0	0.2	113	26.1	26.1	8.0	8.0	20.5	20.5	91.8	91.8	6.6	6.5	2.2	4.9	3	3	74	75	825663	806930	<0.2	<0.2	3.2	3.0
						1.0	0.2	115	26.1		8.0		20.4		91.8		6.6		2.3		3		73				<0.2		3.4	
					Middle	4.7	0.3	69	26.0	26.0	8.1	8.1	22.5	22.5	88.1	88.1	6.3		5.3		2		76				<0.2		3.0	
						4.7	0.3	75	26.0		8.1		22.4		88.0		6.3		5.4		3		75				<0.2		3.1	
					Bottom	8.4	0.3	65	25.9	25.9	8.0	8.0	25.9	25.9	91.3	91.7	6.4	6.5	7.4		3		77				<0.2		2.8	
						8.4	0.3	70	25.9		8.0		25.9		92.0		6.5		6.7		4		77				<0.2		2.7	
C3	Cloudy	Moderate	15:55	6.2	Surface	1.0	0.7	109	26.0	26.0	8.1	8.1	24.8	24.8	86.5	86.5	6.1	5.9	3.4	4.1	5	6	74	75	822099	817818	<0.2	<0.2	2.7	2.7
						1.0	0.8	110	26.0		8.1		24.8		86.5		6.1		3.4		7		73				<0.2		2.4	
					Middle	3.1	0.4	95	25.7	25.7	8.0	8.0	27.5	27.5	81.2	81.2	5.7		4.4		6		75				<0.2		2.6	
						3.1	0.4	95	25.7		8.0		27.5		81.2		5.7		4.4		6		75				<0.2		2.9	
					Bottom	5.2	0.2	69	25.6	25.6	8.0	8.0	28.1	28.1	82.4	82.4	5.7	5.7	4.4		4		77				<0.2		2.7	
						5.2	0.2	74	25.6		8.0		28.1		82.4		5.7		4.4		6		77				<0.2		2.6	
IM1	Cloudy	Moderate	15:33	7.2	Surface	1.0	0.1	211	25.9	25.9	8.1	8.1	23.5	23.5	93.3	93.2	6.6	6.3	2.8	4.5	7	8	73	75	818339	806440	<0.2	<0.2	1.6	2.1
						1.0	0.2	227	25.9		8.1		23.5		93.1		6.6		2.9		6		73				<0.2		1.6	
					Middle	3.6	0.2	153	25.5	25.5	8.1	8.1	29.0	29.0	86.9	86.9	6.0		5.1		8		75				<0.2		2.4	
						3.6	0.2	156	25.5		8.1		29.0		86.9		6.0		5.2		6		76				<0.2		2.3	
					Bottom	6.2	0.2	167	25.4	25.4	8.1	8.1	30.4	30.4	90.8	91.0	6.3	6.3	5.6		10		77				<0.2		2.4	
						6.2	0.2	170	25.4		8.1		30.4		91.1		6.3		5.6		12		77				<0.2		2.5	
IM2	Cloudy	Moderate	15:32	7.3	Surface	1.0	0.2	207	26.0	26.0	8.1	8.1	22.8	22.8	99.6	99.5	7.1	6.5	1.7	4.7	5	5	73	75	818857	806196	<0.2	<0.2	1.6	2.3
						1.0	0.2	207	26.0		8.1		22.8		99.4		7.1		1.8		3		73				<0.2		1.6	
					Middle	3.7	0.2	154	25.5	25.5	8.1	8.1	29.1	29.1	85.4	85.4	5.9		5.0		3		75				<0.2		2.3	
						3.7	0.2	156	25.5		8.1		29.1		85.4		5.9		5.2		4		76				<0.2		2.7	
					Bottom	6.3	0.2	169	25.4	25.4	8.1	8.1	30.4	30.4	86.3	86.4	6.0	6.0	7.2		8		77				<0.2		2.7	
						6.3	0.2	179	25.4		8.1		30.4		86.4		6.0		7.2		6		77				<0.2		2.8	
IM3	Cloudy	Moderate	15:07	8.4	Surface	1.0	0.1	241	26.0	26.0	8.1	8.1	22.3	22.1	88.9	88.7	6.4	6.2	3.8	7.9	3	6	74	76	819419	806018	<0.2	<0.2	3.3	3.0
						1.0	0.1	250	25.9		8.1		21.8		88.5		6.4		3.9		5		74				<0.2		3.2	
					Middle	4.2	0.2	122	25.6	25.6	8.1	8.1	28.1	28.1	86.0	86.0	6.0		7.9		8		76				<0.2		3.1	
						4.2	0.2	127	25.6		8.1		28.1		86.0		6.0		7.9		6		76				<0.2		3.2	
					Bottom	7.4	0.1	131	25.5	25.5	8.1	8.1	29.3	29.3	89.6	89.8	6.2	6.2	11.9		5		77				<0.2		2.7	
						7.4	0.1	138	25.5		8.1		29.3		89.9		6.2		11.8		7		77				<0.2		2.7	
IM4	Cloudy	Moderate	14:59	7.4	Surface	1.0	0.1	290	26.0	26.0	8.1	8.1	21.9	21.9	91.8	91.7	6.6	6.4	4.3	6.8	8	7	74	75	819554	805042	<0.2	<0.2	3.1	2.3
						1.0	0.1	304	26.0		8.1		21.9		91.5		6.6		4.4		10		73				<0.2		2.8	
					Middle	3.7	0.2	184	25.7	25.7	8.1	8.1	26.6	26.6	88.7	88.8	6.2		7.4		6		75				<0.2		2.6	
						3.7	0.2	184	25.7		8.1		26.5		88.8		6.2		7.5		6		76				<0.2		2.5	
					Bottom	6.4	0.2	127	25.7	25.7	8.1	8.1	28.7	28.7	95.7	96.0	6.6	6.7	8.6		5		77				<0.2		1.3	
						6.4	0.2	131	25.7		8.1		28.7		96.2		6.7		8.6		7		77				<0.2		1.5	
IM5	Cloudy	Moderate	14:50	7.3	Surface	1.0	0.1	230	26.2	26.2	8.1	8.1	21.8	21.8	93.1	93.0	6.7	6.2	3.7	7.1	10	7	73	76	820575	804912	<0.2	<0.2	2.6	2.3
						1.0	0.1	238	26.2		8.1		21.8		92.8		6.6		3.7		12		74				<0.2		2.6	
					Middle	3.7	0.0	311	25.7	25.7	8.1	8.1	27.6	27.6	83.2	83.2	5.8		8.7		3		76				<0.2		2.6	
						3.7	0.0	315	25.7		8.1		27.6		83.2		5.8		8.3		5		76				<0.2		2.3	
					Bottom	6.3	0.2	109	25.6	25.6	8.1	8.1	28.3	28.3	84.5	84.6	5.9	5.9	9.1		6		77				<0.2		1.9	
						6.3	0.2	118	25.6		8.1		28.3		84.6		5.9		9.1		8		77				<0.2		1.8	
IM6	Cloudy	Moderate	14:39	7.8	Surface	1.0	0.1	177	26.1	26.1	8.1	8.1	22.2	22.2	93.8	93.7	6.7	6.5	3.5	6.7	4	5	74	75	821065	805822	<0.2	<0.2	2.4	2.2
						1.0	0.1	187	26.1		8.1		22.2		93.6		6.7		3.6		5		73				<0.2		2.3	
					Middle	3.9	0.1	129	25.9	25.9	8.1	8.1	24.9	24.9	87.7	87.7	6.2		6.0		5		76				<0.2		2.3	
						3.9	0.1	133	25.9		8.1		24.9		87.6		6.2		6.1		4		76				<0.2		2.4	
					Bottom	6.8	0.2	65	25.7	25.7	8.1	8.1	27.5	27.5	88.1	88.3	6.2	6.2	10.4		5		77				<0.2		1.9	
						6.8	0.2	70	25.7		8.1		27.5		88.4		6.2		10.3		7		76				<0.2		1.7	
IM7	Cloudy	Moderate	14:31	8.2	Surface	1.0	0.1	168	26.2	26.2	8.1	8.1	20.7	20.7	94.8	94.8	6.8	6.6	2.3	7.2	7	6	74	75	821367	806824	<0.2	<0.2	2.8	2.7
						1.0	0.1	175	26.2		8.1		20.7		94.7		6.8		2.5		5		73				<0.2		3.0	
					Middle	4.1	0.2	73	26.0	26.0	8.1	8.1	23.6	23.6	89.9	90.0	6.4		6.0		7		75				<0.2		2.8	
						4.1	0.2	73	26.0		8.1		23.6		90.0		6.4		6.2		5		75				<0.2		3.1	
					Bottom	7.2	0.3	67	25.8	25.8	8.1	8.1	26.9	26.9	89.3	89.4	6.2	6.3	13.2		5		77				<0.2		2.2	
						7.2	0.3	68	25.8		8.1		26.9		89.5		6.3		13.1		4		76				<0.2		2.2	
IM8	Cloudy	Moderate	14:58	9.4	Surface	1.0	0.3	98	26.1	26.1	8.1	8.1	21.0	21.0	93.8	93.8	6.8	6.6	2.3	5.2	6	7	73	75	821677	807819	<0.2	<0.2	2.3	2.3
						1.0	0.3	103	26.1		8.1		21.0		93.7		6.7		2.4		5		74				<0.2		2.4	
					Middle	4.7	0.2	75	26.0	26.0	8.1	8.1	22.9	22.9	89.0	89.0	6.4		3.7		6		75				<0.2		2.4	
						4.7	0.2	78	26.0		8.1		22.9		88.9		6.3		3.8		6		76				<0.2		2.2	
					Bottom	8.4	0.3	64	25.9	25.9	8.1	8.1	25.5	25.5	88.0	88.0	6.2	6.2	9.4		10		77				<0.2		2.3	
						8.4	0.3	68	25.9		8.1		25.5		88.0		6.2		9.5		8		77				<0.2		2.3	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 16 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	15:03	9.4	Surface	1.0	0.6	101	26.1	26.1	8.1	8.1	21.9	21.9	97.8	97.8	7.0	6.4	2.3	7.4	6	9	73	75	822103	808815	<0.2	<0.2	3.2	3.1
						1.0	0.6	109	26.1		8.1		21.9		97.8		7.0		2.3		8		73				<0.2		3.2	
					Middle	4.7	0.4	86	26.0	26.0	8.1	8.1	23.9	23.9	82.2	82.2	5.8		7.0		7		76				<0.2		3.1	
						4.7	0.5	89	26.0		8.1		23.9		82.2		5.8		7.0		8		75				<0.2		3.0	
					Bottom	8.4	0.2	105	25.9	25.9	7.9	7.9	25.4	25.4	83.8	83.8	5.9	5.9	13.0		12		77				<0.2		3.1	
						8.4	0.2	108	25.9		7.9		25.4		83.8		5.9		13.0		10		77				<0.2		3.0	
IM10	Cloudy	Moderate	15:08	7.5	Surface	1.0	0.6	98	26.1	26.1	8.1	8.1	21.8	21.8	93.3	93.3	6.7	6.4	3.6	6.6	8	8	74	75	822252	809824	<0.2	<0.2	2.5	2.5
						1.0	0.6	103	26.1		8.1		21.8		93.3		6.7		3.6		9		73				<0.2		2.5	
					Middle	3.8	0.4	83	25.9	25.9	8.1	8.1	24.3	24.3	84.9	84.9	6.0		7.9		6		75				<0.2		2.8	
						3.8	0.5	89	25.9		8.1		24.3		84.9		6.0		7.9		8		76				<0.2		2.5	
					Bottom	6.5	0.1	100	25.9	25.9	8.1	8.1	24.8	24.8	88.1	88.1	6.2	6.2	8.3		7		76				<0.2		2.5	
						6.5	0.2	103	25.9		8.1		24.8		88.1		6.2		8.3		8		77				<0.2		2.3	
IM11	Cloudy	Moderate	15:14	7.9	Surface	1.0	0.6	98	26.0	26.0	8.1	8.1	22.0	22.0	86.3	86.3	6.2	6.1	5.7	7.8	6	6	74	76	821483	810557	<0.2	<0.2	2.7	2.8
						1.0	0.6	105	26.0		8.1		22.0		86.3		6.2		5.7		7		74				<0.2		2.5	
					Middle	4.0	0.5	87	25.9	25.9	8.1	8.1	24.5	24.5	82.8	82.8	5.9		8.8		8		75				<0.2		2.8	
						4.0	0.5	91	25.9		8.1		24.5		82.8		5.9		8.8		8		76				<0.2		3.0	
					Bottom	6.9	0.2	108	25.9	25.9	8.0	8.0	25.1	25.1	87.2	87.2	6.2	6.2	8.9		4		77				<0.2		2.8	
						6.9	0.2	114	25.9		8.0		25.1		87.2		6.2		8.9		4		77				<0.2		2.8	
IM12	Cloudy	Moderate	15:20	7.6	Surface	1.0	0.6	103	26.1	26.1	8.1	8.1	21.9	21.9	93.9	93.9	6.7	6.4	3.1	6.1	6	5	74	75	821153	811512	<0.2	<0.2	2.8	3.0
						1.0	0.6	108	26.1		8.1		21.9		93.9		6.7		3.1		5		74				<0.2		3.0	
					Middle	3.8	0.5	98	25.9	25.9	8.1	8.1	24.4	24.4	84.5	84.5	6.0		7.8		4		75				<0.2		3.2	
						3.8	0.5	102	25.9		8.1		24.4		84.5		6.0		7.8		5		75				<0.2		3.4	
					Bottom	6.6	0.3	91	25.9	25.9	8.1	8.1	24.7	24.7	88.1	88.1	6.2	6.2	7.3		3		77				<0.2		2.8	
						6.6	0.3	94	25.9		8.1		24.7		88.1		6.2		7.3		4		77				<0.2		2.9	
IM13	Cloudy	Moderate	14:38	7.2	Surface	1.0	0.1	146	26.0	26.0	8.1	8.1	22.3	22.3	92.8	92.7	6.6	6.4	3.1	7.8	3	3	-	-	820555	806231	-	-	-	-
						1.0	0.1	152	26.0		8.1		22.3		92.6		6.6		3.2		3		-				-		-	
					Middle	3.6	0.2	119	25.8	25.8	8.1	8.1	25.5	25.5	87.5	87.5	6.2		8.9		2		-				-		-	
						3.6	0.2	123	25.8		8.1		25.5		87.5		6.2		9.1		4		-				-		-	
					Bottom	6.2	0.2	89	25.7	25.7	8.1	8.1	27.5	27.5	91.7	91.9	6.4	6.4	11.3		4		-				-		-	
						6.2	0.2	91	25.7		8.1		27.5		92.0		6.4		11.2		3		-				-		-	
SR2	Cloudy	Moderate	15:40	5.3	Surface	1.0	0.8	92	26.1	26.1	8.1	8.1	22.1	22.1	90.9	90.9	6.5	6.5	2.8	3.2	7	7	73	75	821458	814151	<0.2	<0.2	2.2	2.0
						1.0	0.8	97	26.1		8.1		22.1		90.9		6.5		2.8		8		74				<0.2		1.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.5	81	26.0	26.0	8.1	8.1	24.3	24.3	90.7	90.7	6.4	6.4	3.5		6		75				<0.2		2.0	
						4.3	0.6	88	26.0		8.1		24.3		90.7		6.4		3.5		7		76				<0.2		2.1	
SR3	Cloudy	Moderate	14:48	10.2	Surface	1.0	0.2	89	26.1	26.1	8.0	8.0	20.8	20.8	92.1	92.1	6.6	6.4	2.7	5.1	3	4	-	-	822157	807570	-	-	-	-
						1.0	0.2	91	26.1		8.0		20.8		92.0		6.6		2.7		4		-				-		-	
					Middle	5.1	0.2	50	25.9	25.9	8.1	8.1	25.5	25.5	86.3	86.4	6.1		5.0		5		-				-		-	
						5.1	0.2	54	25.9		8.1		25.5		86.4		6.1		4.8		4		-				-		-	
					Bottom	9.2	0.3	71	25.9	25.9	8.0	8.0	25.9	25.9	85.6	85.7	6.0	6.0	7.7		4		-				-		-	
						9.2	0.3	72	25.9		8.0		25.9		85.8		6.0		7.7		3		-				-		-	
SR4A	Cloudy	Moderate	16:03	9.4	Surface	1.0	0.3	82	25.9	25.9	8.1	8.1	24.7	24.7	86.3	86.2	6.1	5.9	7.4	12.6	9	14	-	-	817191	807800	-	-	-	-
						1.0	0.3	83	25.9		8.1		24.7		86.0		6.1		7.4		10		-				-		-	
					Middle	4.7	0.2	73	25.6	25.6	8.1	8.1	28.3	28.3	82.2	82.2	5.7		11.5		12		-				-		-	
						4.7	0.2	75	25.6		8.1		28.3		82.2		5.7		11.7		13		-				-		-	
					Bottom	8.4	0.2	70	25.5	25.5	8.1	8.1	29.2	29.2	87.3	87.4	6.1	6.1	18.9		18		-				-		-	
						8.4	0.2	74	25.5		8.1		29.2		87.5		6.1		18.9		19		-				-		-	
SR5A	Cloudy	Moderate	16:20	5.4	Surface	1.0	0.0	115	26.3	26.3	8.0	8.0	23.0	23.0	91.5	91.5	6.5	6.5	4.0	6.7	12	10	-	-	816584	810703	-	-	-	-
						1.0	0.0	121	26.3		8.0		23.0		91.5		6.5		4.2		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.1	130	26.2	26.2	8.0	8.0	23.2	23.2	92.9	93.0	6.6	6.6	8.7		9		-				-		-	
						4.4	0.1	132	26.2		8.0		23.2		93.0		6.6		9.9		7		-				-		-	
SR6	Cloudy	Moderate	16:21	5.2	Surface	1.0	0.0	147	26.3	26.3	8.0	8.0	23.0	23.0	90.9	90.9	6.4	6.4	2.4	3.3	7	6	-	-	817917	814662	-	-	-	-
						1.0	0.0	152	26.3		8.0		23.0		90.9		6.4		2.5		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.1	137	26.2	26.2	8.0	8.0	23.2	23.2	90.3	90.3	6.4	6.4	4.1		5		-				-		-	
						4.2	0.1	138	26.2		8.0		23.2		90.3		6.4		4.2		5		-				-		-	
SR7	Cloudy	Moderate	16:24	19.1	Surface	1.0	1.2	70	26.3	26.3	8.1	8.1	23.5	23.5	91.2	91.1	6.5	6.0	1.4	1.9	5	5	-	-	823625	823737	-	-	-	-
						1.0	1.3	72	26.3		8.1		23.5		91.0		6.4		1.4		6		-				-		-	
					Middle	9.6	1.0	72	25.6	25.6	8.0	8.0	29.2	29.2	80.4	80.4	5.6		1.6		4		-				-		-	
						9.6	1.0	78	25.6		8.0		29.2		80.4		5.6		1.7		6		-				-		-	
					Bottom	18.1	0.4	77	25.4	25.5	8.0	8.0	30.0	30.0	82.7	82.8	5.7	5.7	2.7		6		-				-		-	
						18.1	0.5	83	25.5		8.0		30.0		82.8		5.7		2.5		4		-				-		-	
SR8	Cloudy	Moderate	15:28	5.2	Surface	1.0	0.8	91.0	26.1	26.2	8.1	8.1	22.1	22.1	94.5	94.5	6.8	6.8	2.5	2.8	4	6	-	-	820430	811581	-	-	-	-
						1.0	0.9	95.0	26.2		8.1		22.1		94.5		6.8		2.5		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.5	71.0	26.0	26.0	8.1	8.1	23.4	23.4	91.5	91.5	6.5	6.5	3.0		8		-				-		-	
						4.2	0.5	73.0	26.0		8.1		23.4		91.5		6.5		3.0		7		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 18 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	09:54	6.5	Surface	1.0	0.2	38	26.1	26.1	8.1	8.1	26.6	26.5	96.8	96.7	6.8	6.6	3.1	4.6	6	4	73	75	815610	804263	<0.2	<0.2	1.6	1.4
						1.0	0.2	40	26.1		8.1		26.4		96.5		6.7		3.2		4		73				<0.2		1.5	
					Middle	3.3	0.1	40	25.9	25.9	8.1	8.1	27.8	27.8	91.8	91.8	6.4		3.6		4		74				<0.2		1.3	
						3.3	0.1	42	25.9		8.1		27.8		91.8		6.4		3.7		3		74				<0.2		1.3	
					Bottom	5.5	0.2	44	25.6	25.7	8.1	8.1	29.6	29.6	95.2	95.4	6.6	6.6	6.9		3		77				<0.2		1.2	
						5.5	0.2	46	25.7		8.1		29.6		95.5		6.6		6.9		3		78				<0.2		1.4	
C2	Cloudy	Moderate	11:06	10.6	Surface	1.0	0.2	27	26.3	26.3	8.1	8.1	20.4	20.5	90.3	90.2	6.5	6.3	1.6	4.1	4	5	74	76	825689	806936	<0.2	<0.2	3.1	2.8
						1.0	0.2	29	26.3		8.1		20.5		90.0		6.5		1.7		4		74				<0.2		3.0	
					Middle	5.3	0.2	20	26.1	26.1	8.0	8.0	24.9	24.9	85.8	85.9	6.0		3.1		7		76				<0.2		3.0	
						5.3	0.2	21	26.1		8.0		24.8		85.9		6.1		3.2		5		75				<0.2		2.9	
					Bottom	9.6	0.2	16	25.9	25.9	8.1	8.1	27.0	27.0	86.5	86.5	6.0	6.0	7.4		6		77				<0.2		2.5	
						9.6	0.2	16	25.9		8.1		27.0		86.5		6.0		7.6		4		77				<0.2		2.4	
C3	Cloudy	Moderate	09:39	12.5	Surface	1.0	0.1	89	25.9	25.9	8.0	8.0	23.2	23.2	89.8	89.8	6.4	6.1	1.6	1.5	6	4	73	75	822127	817822	<0.2	<0.2	2.0	2.1
						1.0	0.1	90	25.9		8.0		23.2		89.8		6.4		1.6		4		73				<0.2		2.0	
					Middle	6.3	0.1	194	25.6	25.6	8.0	8.0	27.5	27.5	81.3	81.3	5.7		1.2		3		75				<0.2		2.4	
						6.3	0.1	195	25.6		8.0		27.5		81.3		5.7		1.2		4		75				<0.2		2.3	
					Bottom	11.5	0.2	186	25.4	25.4	8.0	8.0	29.2	29.2	78.6	78.6	5.5	5.5	1.6		4		77				<0.2		2.1	
						11.5	0.2	194	25.4		8.0		29.2		78.6		5.5		1.6		5		77				<0.2		1.8	
IM1	Cloudy	Moderate	10:08	7.6	Surface	1.0	0.2	40	26.1	26.1	8.1	8.1	25.7	25.7	93.1	93.0	6.5	6.3	2.5	4.2	9	6	74	75	818333	806457	<0.2	<0.2	1.5	1.4
						1.0	0.2	43	26.1		8.1		25.7		92.8		6.5		2.6		11		74				<0.2		1.5	
					Middle	3.8	0.1	43	25.9	25.9	8.1	8.1	27.8	27.8	88.2	88.1	6.1		4.4		3		74				<0.2		1.4	
						3.8	0.2	46	25.9		8.1		27.8		88.0		6.1		4.3		3		75				<0.2		1.5	
					Bottom	6.6	0.1	40	25.6	25.6	8.1	8.1	29.7	29.7	87.3	87.4	6.0	6.1	5.5		5		75				<0.2		1.3	
						6.6	0.1	40	25.6		8.1		29.7		87.5		6.1		5.6		3		76				<0.2		1.4	
IM2	Cloudy	Moderate	10:13	8.7	Surface	1.0	0.1	41	26.1	26.1	8.1	8.1	25.9	25.9	92.7	92.7	6.5	6.4	2.0	3.9	4	5	74	75	818860	806190	<0.2	<0.2	2.2	1.7
						1.0	0.2	42	26.1		8.1		25.9		92.6		6.5		2.1		4		74				<0.2		2.0	
					Middle	4.4	0.1	38	25.9	25.9	8.1	8.1	27.5	27.5	88.8	88.8	6.2		3.5		6		75				<0.2		1.7	
						4.4	0.1	40	25.9		8.1		27.5		88.7		6.2		3.6		7		75				<0.2		1.7	
					Bottom	7.7	0.1	30	25.6	25.6	8.1	8.1	29.6	29.6	89.3	89.5	6.2	6.2	6.2		4		77				<0.2		1.4	
						7.7	0.1	31	25.6		8.1		29.6		89.6		6.2		6.2		6		77				<0.2		1.4	
IM3	Cloudy	Moderate	10:20	8.8	Surface	1.0	0.2	38	26.1	26.1	8.1	8.1	25.5	25.5	91.1	91.1	6.4	6.3	3.0	4.2	4	5	73	75	819397	806034	<0.2	<0.2	2.0	1.6
						1.0	0.2	40	26.1		8.1		25.4		91.0		6.4		3.1		6		73				<0.2		2.0	
					Middle	4.4	0.2	38	25.8	25.8	8.1	8.1	27.9	27.9	88.0	88.0	6.1		4.5		4		76				<0.2		1.4	
						4.4	0.2	41	25.8		8.1		27.9		88.0		6.1		4.4		5		76				<0.2		1.4	
					Bottom	7.8	0.1	35	25.7	25.7	8.1	8.1	29.4	29.4	91.2	91.4	6.3	6.3	5.1		4		77				<0.2		1.3	
						7.8	0.1	35	25.7		8.1		29.4		91.5		6.3		4.9		5		77				<0.2		1.2	
IM4	Cloudy	Moderate	10:28	8.4	Surface	1.0	0.2	36	26.1	26.1	8.1	8.1	23.2	23.2	95.0	95.0	6.8	6.4	2.0	3.3	4	5	74	76	819588	805039	<0.2	<0.2	2.1	1.8
						1.0	0.2	36	26.1		8.1		23.2		94.9		6.7		2.1		3		74				<0.2		2.2	
					Middle	4.2	0.2	36	25.7	25.7	8.1	8.1	27.9	27.9	86.1	86.1	6.0		3.9		5		75				<0.2		1.9	
						4.2	0.2	36	25.7		8.1		27.9		86.1		6.0		4.0		5		76				<0.2		2.0	
					Bottom	7.4	0.1	32	25.6	25.6	8.1	8.1	29.0	29.1	87.0	87.1	6.0	6.0	3.7		7		77				<0.2		1.2	
						7.4	0.1	33	25.6		8.1		29.1		87.1		6.0		3.8		6		77				<0.2		1.4	
IM5	Cloudy	Moderate	10:35	7.3	Surface	1.0	0.2	33	26.1	26.1	8.1	8.1	22.9	22.9	92.5	92.4	6.6	6.3	2.2	4.9	6	6	73	75	820576	804934	<0.2	<0.2	2.3	2.3
						1.0	0.2	34	26.1		8.1		22.9		92.3		6.6		2.3		8		74				<0.2		2.2	
					Middle	3.7	0.2	36	25.8	25.8	8.1	8.1	27.4	27.4	85.9	85.9	6.0		5.1		6		75				<0.2		2.8	
						3.7	0.2	36	25.8		8.1		27.4		85.9		6.0		5.2		4		76				<0.2		2.6	
					Bottom	6.3	0.1	34	25.6	25.6	8.1	8.1	29.3	29.3	85.7	85.8	5.9	5.9	7.3		4		77				<0.2		2.0	
						6.3	0.1	35	25.6		8.1		29.3		85.8		5.9		7.5		5		77				<0.2		1.9	
IM6	Cloudy	Moderate	10:46	7.1	Surface	1.0	0.1	28	26.3	26.3	8.0	8.0	20.2	20.2	93.0	93.0	6.7	6.4	2.0	5.6	4	5	75	76	821065	805843	<0.2	<0.2	3.6	2.8
						1.0	0.1	30	26.3		8.0		20.2		92.9		6.7		1.9		3		75				<0.2		3.6	
					Middle	3.6	0.1	38	25.9	25.9	8.1	8.1	25.7	25.4	85.5	85.5	6.0		6.3		6		76				<0.2		2.5	
						3.6	0.2	39	25.8		8.1		25.1		85.4		6.0		6.5		4		76				<0.2		2.3	
					Bottom	6.1	0.1	35	25.7	25.7	8.1	8.1	28.5	28.5	85.7	86.0	6.0	6.0	8.2		6		77				<0.2		2.4	
						6.1	0.1	36	25.7		8.1		28.5		86.2		6.0		8.5		4		77				<0.2		2.5	
IM7	Cloudy	Moderate	10:58	8.5	Surface	1.0	0.2	25	26.2	26.2	8.0	8.0	20.9	20.9	91.3	91.3	6.6	6.5	2.8	3.9	5	4	73	75	821359	806842	<0.2	<0.2	3.5	**3.6**
						1.0	0.2	26	26.2		8.0		20.9		91.2		6.6		2.7		6		74				<0.2		3.7	
					Middle	4.3	0.1	32	26.0	26.0	8.1	8.1	25.5	25.6	88.9	88.9	6.3		4.6		4		75				<0.2		3.6	
						4.3	0.1	34	26.0		8.1		25.6		88.9		6.3		4.8		2		76				<0.2		3.8	
					Bottom	7.5	0.1	30	25.9	25.9	8.1	8.1	27.1	27.1	91.9	92.0	6.4	6.4	4.1		3		77				<0.2		3.4	
						7.5	0.1	32	25.9		8.1		27.1		92.1		6.4		4.1		3		77				<0.2		3.5	
IM8	Cloudy	Moderate	10:42	8.8	Surface	1.0	0.1	291	26.4	26.4	8.0	8.0	21.0	21.0	90.5	90.4	6.5	6.4	1.7	2.2	6	5	74	75	821712	807854	<0.2	<0.2	3.4	3.1
						1.0	0.1	303	26.4		8.0		21.0		90.3		6.5		1.6		4		73				<0.2		3.2	
					Middle	4.4	0.1	277	26.1	26.1	8.1	8.1	24.0	24.0	88.8	88.9	6.3		2.3		6		74				<0.2		3.1	
						4.4	0.1	295	26.1		8.1		24.0		88.9		6.3		2.2		5		75				<0.2		3.2	
					Bottom	7.8	0.1	280	26.0	26.0	8.1	8.1	26.5	26.5	94.1	94.3	6.6	6.6	2.8		3		77				<0.2		2.9	
						7.8	0.1	296	26.0		8.1		26.5		94.4		6.6		2.6		4		77				<0.2		2.7	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 18 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	10:37	7.2	Surface	1.0	0.1	259	26.1	26.1	8.1	8.1	21.6	21.6	85.4	85.4	6.1	6.1	2.3	2.5	2	5	75	76	822112	808809	<0.2	<0.2	2.6	2.8
						1.0	0.1	264	26.1		8.1		21.6		85.4		6.1		2.3		4		75				<0.2		2.6	
					Middle	3.6	0.1	287	26.1	26.1	8.1	8.1	22.6	22.6	83.5	83.5	6.0		2.7		7		76				<0.2		2.7	
						3.6	0.1	312	26.1		8.1		22.6		83.5		6.0		2.7		5		76				<0.2		3.2	
					Bottom	6.2	0.1	28	26.1	26.1	8.1	8.1	24.6	24.6	84.3	84.3	6.0	6.0	2.6		6		77				<0.2		3.0	
						6.2	0.1	28	26.1		8.1		24.6		84.3		6.0		2.6		4		77				<0.2		2.7	
IM10	Cloudy	Moderate	10:31	7.8	Surface	1.0	0.1	228	26.1	26.1	8.1	8.1	21.8	21.8	85.5	85.5	6.1	6.1	3.0	6.5	7	5	73	75	822241	809846	<0.2	<0.2	2.8	2.7
						1.0	0.1	232	26.1		8.1		21.8		85.5		6.1		3.0		5		73				<0.2		2.7	
					Middle	3.9	0.1	272	26.1	26.1	8.1	8.1	22.3	22.3	84.1	84.1	6.0		5.1		3		76				<0.2		2.9	
						3.9	0.1	297	26.1		8.1		22.3		84.1		6.0		5.1		5		75				<0.2		2.8	
					Bottom	6.8	0.1	66	25.9	25.9	8.3	8.3	26.2	26.2	82.7	82.7	5.8	5.8	11.4		4		77				<0.2		2.6	
						6.8	0.1	66	25.9		8.3		26.2		82.7		5.8		11.4		4		77				<0.2		2.4	
IM11	Cloudy	Moderate	10:25	8.1	Surface	1.0	0.2	237	26.1	26.1	8.1	8.1	21.8	21.8	85.8	85.8	6.1	6.1	2.7	4.6	9	6	74	75	821512	810541	<0.2	<0.2	2.6	2.5
						1.0	0.2	241	26.1		8.1		21.8		85.8		6.1		2.7		9		74				<0.2		2.9	
					Middle	4.1	0.1	270	26.1	26.1	8.1	8.1	22.7	22.7	84.3	84.3	6.0		3.7		4		74				<0.2		2.2	
						4.1	0.1	288	26.1		8.1		22.7		84.3		6.0		3.7		4		76				<0.2		2.1	
					Bottom	7.1	0.2	132	25.8	25.8	8.3	8.3	26.3	26.3	82.8	82.8	5.8	5.8	7.4		6		75				<0.2		2.6	
						7.1	0.2	135	25.8		8.3		26.3		82.8		5.8		7.4		4		77				<0.2		2.7	
IM12	Cloudy	Moderate	10:20	7.8	Surface	1.0	0.1	243	26.1	26.1	8.0	8.0	21.6	21.6	85.9	85.9	6.2	6.2	3.2	8.6	3	6	74	75	821181	811535	<0.2	<0.2	2.5	2.6
						1.0	0.1	244	26.1		8.0		21.6		85.9		6.2		3.2		4		74				<0.2		2.3	
					Middle	3.9	0.1	276	26.1	26.1	8.1	8.1	23.1	23.1	85.0	85.0	6.1		7.7		6		75				<0.2		2.6	
						3.9	0.1	303	26.1		8.1		23.1		85.0		6.1		7.7		6		75				<0.2		2.9	
					Bottom	6.8	0.1	158	25.9	25.9	8.2	8.2	26.1	26.1	86.1	86.1	6.0	6.0	14.9		8		77				<0.2		2.5	
						6.8	0.1	158	25.9		8.2		26.1		86.1		6.0		14.9		6		77				<0.2		2.6	
IM13	Cloudy	Moderate	10:45	7.2	Surface	1.0	0.1	33	26.2	26.2	8.1	8.1	20.3	20.3	91.0	90.9	6.6	6.4	3.5	4.8	7	6	-	-	820917	806017	-	-	-	-
						1.0	0.1	36	26.2		8.1		20.3		90.8		6.6		3.7		5		-				-		-	
					Middle	3.6	0.1	30	25.8	25.8	8.2	8.2	26.7	26.7	88.8	88.9	6.2		5.2		7		-				-		-	
						3.6	0.1	31	25.8		8.2		26.7		88.9		6.2		5.3		5		-				-		-	
					Bottom	6.2	0.1	28	25.8	25.8	8.1	8.1	28.5	28.5	92.4	92.6	6.4	6.4	5.6		8		-				-		-	
						6.2	0.1	28	25.8		8.1		28.5		92.7		6.4		5.5		6		-				-		-	
SR2	Cloudy	Moderate	09:55	4.8	Surface	1.0	0.1	66	26.2	26.2	8.0	8.0	21.3	21.3	88.7	88.7	6.4	6.4	2.9	4.6	4	5	74	76	821479	814159	<0.2	<0.2	2.4	2.4
						1.0	0.1	70	26.2		8.0		21.3		88.7		6.4		2.9		6		74				<0.2		2.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.1	87	26.1	26.1	8.0	8.0	24.5	24.5	87.2	87.2	6.2	6.2	6.3		4		77				<0.2		2.6	
						3.8	0.1	88	26.1		8.0		24.5		87.2		6.2		6.3		6		77				<0.2		2.3	
SR3	Cloudy	Moderate	10:51	9.3	Surface	1.0	0.2	28	26.3	26.3	8.0	8.0	20.5	20.5	89.9	89.8	6.5	6.4	1.9	4.5	6	6	-	-	822152	807586	-	-	-	-
						1.0	0.2	28	26.3		8.0		20.5		89.6		6.5		2.0		8		-				-		-	
					Middle	4.7	0.2	25	26.0	26.0	8.1	8.1	24.0	24.0	88.1	88.2	6.2		4.9		5		-				-		-	
						4.7	0.2	25	26.0		8.1		24.0		88.2		6.3		5.1		7		-				-		-	
					Bottom	8.3	0.1	23	25.9	25.9	8.1	8.1	26.9	26.9	91.0	91.1	6.4	6.4	6.5		5		-				-		-	
						8.3	0.2	24	25.9		8.1		26.9		91.2		6.4		6.6		6		-				-		-	
SR4A	Cloudy	Moderate	09:40	9.2	Surface	1.0	0.2	292	26.0	26.0	8.1	8.1	24.4	24.4	94.8	94.8	6.7	6.4	2.3	4.0	5	6	-	-	817201	807823	-	-	-	-
						1.0	0.2	307	26.0		8.1		24.4		94.7		6.7		2.3		7		-				-		-	
					Middle	4.6	0.1	299	25.8	25.8	8.1	8.1	28.3	28.3	88.0	88.0	6.1		3.7		6		-				-		-	
						4.6	0.2	315	25.8		8.1		28.3		88.0		6.1		3.6		5		-				-		-	
					Bottom	8.2	0.1	321	25.8	25.8	8.1	8.1	28.7	28.7	87.7	87.7	6.1	6.1	5.9		6		-				-		-	
						8.2	0.1	329	25.8		8.1		28.7		87.7		6.1		6.0		4		-				-		-	
SR5A	Cloudy	Moderate	09:23	5.5	Surface	1.0	0.1	277	26.3	26.3	8.1	8.1	23.2	23.2	95.3	95.3	6.8	6.8	1.8	1.7	6	5	-	-	816579	810699	-	-	-	-
						1.0	0.1	302	26.3		8.1		23.2		95.2		6.7		1.9		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.5	0.1	281	26.3	26.3	8.0	8.0	24.9	24.9	94.9	95.0	6.7	6.7	1.5		5		-				-		-	
						4.5	0.1	306	26.3		8.0		24.9		95.1		6.7		1.6		3		-				-		-	
SR6	Cloudy	Moderate	09:01	4.6	Surface	1.0	0.1	222	26.3	26.3	8.0	8.0	23.7	23.7	89.5	89.4	6.3	6.3	2.5	4.9	4	6	-	-	817904	814650	-	-	-	-
						1.0	0.1	225	26.3		8.0		23.7		89.3		6.3		2.3		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	244	26.4	26.4	8.0	8.0	24.5	24.6	82.6	82.6	5.8	5.8	7.3		5		-				-		-	
						3.6	0.1	244	26.3		8.0		24.6		82.6		5.8		7.5		7		-				-		-	
SR7	Cloudy	Moderate	09:00	18.7	Surface	1.0	0.1	223	25.6	25.6	8.0	8.0	27.3	27.3	85.0	85.0	6.0	5.8	1.3	2.0	3	5	-	-	823622	823722	-	-	-	-
						1.0	0.1	241	25.6		8.0		27.3		85.0		6.0		1.2		4		-				-		-	
					Middle	9.4	0.1	240	25.6	25.6	8.0	8.0	28.4	28.4	79.8	79.8	5.6		1.8		9		-				-		-	
						9.4	0.1	257	25.6		8.0		28.4		79.7		5.6		1.8		7		-				-		-	
					Bottom	17.7	0.1	243	25.3	25.3	8.0	8.0	30.5	30.5	80.2	80.3	5.5	5.6	2.8		3		-				-		-	
						17.7	0.1	243	25.3		8.0		30.5		80.3		5.6		2.8		5		-				-		-	
SR8	Cloudy	Moderate	10:07	5.3	Surface	1.0	0.1	88	26.2	26.2	8.0	8.0	21.4	21.4	85.0	85.0	6.1	6.1	3.9	4.8	5	6	-	-	820413	811603	-	-	-	-
						1.0	0.2	90	26.2		8.0		21.4		85.0		6.1		3.9		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.1	102	26.1	26.1	8.0	8.0	24.7	24.7	85.2	85.2	6.0	6.0	5.7		6		-				-		-	
						4.3	0.1	102	26.1		8.0		24.7		85.2		6.0		5.7		4		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 18 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	17:22	6.4	Surface	1.0	0.1	244	26.5	26.5	8.3	8.3	25.1	25.1	106.8	106.4	7.5	7.0	1.6	2.5	5	7	73	75	815620	804250	<0.2	<0.2	1.5	1.4
						1.0	0.1	248	26.5		8.3		25.1		106.0		7.4		1.6		4		73				<0.2		1.5	
					Middle	3.2	0.1	148	26.0	26.0	8.1	8.1	27.7	27.7	95.6	95.6	6.6		2.2		5		76				<0.2		1.3	
						3.2	0.1	150	26.0		8.1		27.7		95.6		6.6		2.3		7		76				<0.2		1.5	
					Bottom	5.4	0.2	200	25.8	25.8	8.1	8.1	28.8	28.8	99.5	99.7	6.9	6.9	3.4		10		76				<0.2		1.0	
						5.4	0.2	200	25.8		8.1		28.8		99.8		6.9		3.6		8		77				<0.2		1.3	
C2	Cloudy	Moderate	16:16	10.6	Surface	1.0	0.1	146	26.5	26.5	8.1	8.1	21.5	21.5	105.7	105.7	7.5	7.2	1.2	2.5	7	7	73	75	825687	806958	<0.2	<0.2	2.4	2.7
						1.0	0.1	146	26.5		8.1		21.5		105.7		7.5		1.3		5		74				<0.2		2.6	
					Middle	5.3	0.2	72	26.2	26.2	8.1	8.1	25.4	25.4	97.2	97.1	6.8		2.5		4		75				<0.2		2.8	
						5.3	0.2	76	26.2		8.1		25.4		96.9		6.8		2.6		6		76				<0.2		3.1	
					Bottom	9.6	0.3	69	25.8	25.8	8.1	8.1	28.2	28.2	97.7	97.9	6.8	6.8	3.7		10		76				<0.2		2.8	
						9.6	0.3	72	25.8		8.1		28.2		98.0		6.8		3.7		9		77				<0.2		2.6	
C3	Cloudy	Moderate	17:46	12.1	Surface	1.0	0.5	109	26.2	26.2	8.3	8.3	24.8	24.8	111.5	111.5	7.8	7.0	1.7	3.5	8	6	73	75	822128	817800	<0.2	<0.2	2.0	2.1
						1.0	0.6	112	26.2		8.3		24.8		111.5		7.8		1.7		7		73				<0.2		1.8	
					Middle	6.1	0.4	103	25.8	25.8	8.2	8.2	26.9	26.9	86.8	86.8	6.1		4.1		4		75				<0.2		2.0	
						6.1	0.4	106	25.8		8.2		26.9		86.7		6.1		4.2		4		75				<0.2		2.3	
					Bottom	11.1	0.2	126	25.5	25.5	8.1	8.1	29.1	29.1	88.8	88.8	6.2	6.2	4.6		6		77				<0.2		2.0	
						11.1	0.2	136	25.5		8.1		29.1		88.8		6.2		4.6		6		77				<0.2		2.3	
IM1	Cloudy	Moderate	17:00	7.4	Surface	1.0	0.2	210	26.4	26.4	8.3	8.3	25.2	25.2	118.5	118.3	8.3	7.9	1.7	3.3	9	7	73	75	818363	806438	<0.2	<0.2	1.6	1.3
						1.0	0.2	223	26.4		8.3		25.2		118.1		8.3		1.8		10		73				<0.2		1.4	
					Middle	3.7	0.1	182	26.3	26.3	8.2	8.2	26.2	26.2	106.3	106.2	7.4		2.6		6		76				<0.2		1.1	
						3.7	0.1	197	26.3		8.2		26.2		106.0		7.4		2.8		7		76				<0.2		1.3	
					Bottom	6.4	0.1	208	25.9	26.0	8.1	8.1	28.0	28.0	103.6	103.8	7.2	7.2	5.2		5		77				<0.2		1.0	
						6.4	0.1	223	26.0		8.1		27.9		103.9		7.2		5.5		7		77				<0.2		1.2	
IM2	Cloudy	Moderate	16:55	8.1	Surface	1.0	0.1	273	26.3	26.3	8.2	8.2	25.8	25.8	106.4	106.1	7.4	6.9	1.8	2.1	10	7	73	76	818838	806202	<0.2	<0.2	1.3	1.1
						1.0	0.1	282	26.3		8.2		25.8		105.7		7.4		1.8		11		74				<0.2		1.4	
					Middle	4.1	0.1	251	25.8	25.8	8.1	8.1	28.1	28.1	91.7	91.7	6.4		2.0		4		75				<0.2		1.1	
						4.1	0.1	264	25.8		8.1		28.1		91.7		6.4		2.0		6		76				<0.2		1.2	
					Bottom	7.1	0.1	260	25.8	25.8	8.1	8.1	28.9	28.9	93.5	93.7	6.5	6.5	2.4		5		77				<0.2		0.9	
						7.1	0.1	279	25.8		8.1		28.9		93.8		6.5		2.3		7		78				<0.2		0.9	
IM3	Cloudy	Moderate	16:46	8.0	Surface	1.0	0.1	226	26.6	26.6	8.3	8.3	25.6	25.6	114.7	114.3	8.0	7.0	1.6	4.2	11	7	73	75	819423	806004	<0.2	<0.2	1.4	1.4
						1.0	0.1	232	26.6		8.3		25.6		113.9		7.9		1.5		9		74				<0.2		1.4	
					Middle	4.0	0.0	231	25.8	25.8	8.1	8.1	28.2	28.2	88.4	88.4	6.1		3.4		7		75				<0.2		1.4	
						4.0	0.0	239	25.8		8.1		28.2		88.3		6.1		3.5		5		76				<0.2		1.6	
					Bottom	7.0	0.1	229	25.6	25.6	8.1	8.1	29.7	29.7	85.3	85.4	5.9	5.9	7.5		5		77				<0.2		1.2	
						7.0	0.1	247	25.6		8.1		29.6		85.4		5.9		7.6		6		77				<0.2		1.2	
IM4	Cloudy	Moderate	16:38	8.2	Surface	1.0	0.1	231	26.5	26.5	8.3	8.3	25.3	25.3	122.7	122.6	8.6	7.8	1.7	2.7	14	11	73	75	819551	805052	<0.2	<0.2	1.3	1.3
						1.0	0.1	242	26.5		8.3		25.3		122.5		8.6		1.7		13		73				<0.2		1.4	
					Middle	4.1	0.1	78	26.0	26.0	8.1	8.1	27.8	27.8	99.8	99.9	6.9		2.6		10		75				<0.2		1.2	
						4.1	0.1	84	26.0		8.1		27.8		99.9		6.9		2.4		8		76				<0.2		1.4	
					Bottom	7.2	0.1	155	25.6	25.6	8.1	8.1	29.6	29.6	94.9	95.2	6.6	6.6	3.9		10		77				<0.2		1.1	
						7.2	0.1	170	25.6		8.1		29.6		95.4		6.6		3.9		8		77				<0.2		1.3	
IM5	Cloudy	Moderate	16:30	7.4	Surface	1.0	0.1	186	26.6	26.6	8.2	8.2	22.9	22.9	108.7	108.5	7.7	7.3	1.7	1.9	6	6	73	75	820582	804909	<0.2	<0.2	2.3	1.9
						1.0	0.1	201	26.6		8.2		22.9		108.2		7.6		1.8		5		74				<0.2		2.2	
					Middle	3.7	0.0	40	26.2	26.2	8.2	8.2	25.5	25.5	98.0	97.8	6.9		1.8		6		75				<0.2		1.8	
						3.7	0.0	42	26.2		8.2		25.5		97.6		6.8		1.8		8		76				<0.2		1.8	
					Bottom	6.4	0.0	359	25.7	25.8	8.1	8.1	29.0	29.0	96.4	96.5	6.7	6.7	2.3		5		77				<0.2		1.6	
						6.4	0.0	330	25.8		8.1		29.0		96.6		6.7		2.2		6		77				<0.2		1.9	
IM6	Cloudy	Moderate	16:24	7.6	Surface	1.0	0.1	276	26.6	26.6	8.2	8.2	22.4	22.4	108.8	108.6	7.7	7.2	1.6	2.4	6	6	73	75	821054	805820	<0.2	<0.2	2.7	2.3
						1.0	0.2	283	26.6		8.2		22.4		108.4		7.7		1.7		6		73				<0.2		2.4	
					Middle	3.8	0.1	16	26.2	26.2	8.1	8.1	26.3	26.3	95.7	95.5	6.7		2.6		8		75				<0.2		2.2	
						3.8	0.1	17	26.2		8.1		26.3		95.3		6.7		2.7		8		76				<0.2		2.4	
					Bottom	6.6	0.1	233	25.7	25.7	8.1	8.1	29.2	29.2	95.2	95.4	6.6	6.6	2.9		4		77				<0.2		2.0	
						6.6	0.1	247	25.7		8.1		29.2		95.5		6.6		2.8		5		77				<0.2		2.0	
IM7	Cloudy	Moderate	16:11	8.3	Surface	1.0	0.1	194	26.6	26.6	8.2	8.2	21.3	21.3	109.6	109.6	7.8	7.4	2.4	3.6	5	5	73	75	821339	806842	<0.2	<0.2	2.6	2.1
						1.0	0.1	202	26.6		8.2		21.3		109.5		7.8		2.6		3		73				<0.2		2.6	
					Middle	4.2	0.3	33	26.1	26.1	8.1	8.1	27.0	27.0	99.9	99.9	7.0		4.6		6		75				<0.2		1.8	
						4.2	0.3	34	26.1		8.1		27.0		99.8		7.0		4.3		5		76				<0.2		2.0	
					Bottom	7.3	0.2	75	25.8	25.8	8.1	8.1	28.5	28.5	100.1	100.3	6.9	7.0	3.8		6		77				<0.2		1.8	
						7.3	0.3	80	25.8		8.1		28.5		100.5		7.0		3.8		5		77				<0.2		1.5	
IM8	Cloudy	Moderate	16:39	7.8	Surface	1.0	0.1	218	26.6	26.6	8.1	8.1	21.9	21.9	106.0	106.0	7.5	7.2	1.6	2.6	6	10	73	75	821696	807848	<0.2	<0.2	3.0	2.7
						1.0	0.1	223	26.6		8.1		21.9		105.9		7.5		1.7		7		73				<0.2		3.0	
					Middle	3.9	0.2	44	26.3	26.3	8.2	8.2	24.9	24.9	98.4	98.3	6.9		3.0		10		76				<0.2		2.5	
						3.9	0.2	46	26.3		8.2		24.9		98.2		6.9		3.2		11		76				<0.2		2.8	
					Bottom	6.8	0.2	88	25.8	25.8	8.1	8.1	28.1	28.1	95.0	95.3	6.6	6.6	2.8		12		77				<0.2		2.6	
						6.8	0.2	92	25.8		8.1		28.1		95.5		6.6		3.0		12		77				<0.2		2.5	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 18 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	16:45	7.5	Surface	1.0	0.1	126	26.4	26.4	8.3	8.3	23.1	23.1	106.9	106.9	7.6	7.2	3.1	7.0	3	5	74	75	822076	808812	<0.2	<0.2	3.4	2.8
						1.0	0.2	133	26.4		8.3		23.1		106.9		7.6		3.1		4		74				<0.2		3.4	
					Middle	3.8	0.2	52	26.1	26.1	8.3	8.3	26.0	26.0	95.3	95.3	6.7		8.4		6		75				<0.2		2.7	
						3.8	0.2	52	26.1		8.3		26.0		95.3		6.7		8.4		6		75				<0.2		2.5	
					Bottom	6.5	0.1	93	25.7	25.7	8.2	8.2	28.7	28.7	94.9	94.9	6.6	6.6	9.4		6		77				<0.2		2.5	
						6.5	0.1	93	25.7		8.2		28.7		94.9		6.6		9.4		6		77				<0.2		2.5	
IM10	Cloudy	Moderate	16:51	6.5	Surface	1.0	0.2	123	26.4	26.4	8.3	8.3	23.1	23.1	104.6	104.6	7.4	7.1	3.1	5.4	7	5	74	75	822242	809830	<0.2	<0.2	3.4	3.0
						1.0	0.2	134	26.4		8.3		23.1		104.6		7.4		3.1		5		73				<0.2		3.3	
					Middle	3.3	0.2	60	26.1	26.1	8.3	8.3	25.7	25.7	95.2	95.2	6.7		5.8		7		75				<0.2		3.3	
						3.3	0.2	65	26.1		8.3		25.7		95.2		6.7		5.8		5		76				<0.2		3.0	
					Bottom	5.5	0.1	48	25.7	25.7	8.2	8.2	28.6	28.6	89.4	89.4	6.2	6.2	7.3		4		77				<0.2		2.6	
						5.5	0.1	49	25.7		8.2		28.6		89.4		6.2		7.3		4		77				<0.2		2.6	
IM11	Cloudy	Moderate	16:56	6.7	Surface	1.0	0.2	143	26.4	26.4	8.3	8.3	23.1	23.1	111.4	111.4	7.9	7.3	2.5	5.8	4	6	72	75	821493	810546	<0.2	<0.2	2.1	2.1
						1.0	0.2	147	26.4		8.3		23.1		111.4		7.9		2.5		4		73				<0.2		2.0	
					Middle	3.4	0.2	95	26.1	26.1	8.3	8.3	25.5	25.5	95.4	95.4	6.7		6.8		4		75				<0.2		1.9	
						3.4	0.2	98	26.1		8.3		25.5		95.4		6.7		6.8		7		75				<0.2		2.0	
					Bottom	5.7	0.2	65	25.7	25.7	8.2	8.2	28.6	28.6	94.5	94.5	6.6	6.6	8.2		8		77				<0.2		2.3	
						5.7	0.2	67	25.7		8.2		28.6		94.5		6.6		8.2		10		77				<0.2		2.2	
IM12	Cloudy	Moderate	17:02	6.7	Surface	1.0	0.2	146	26.3	26.3	8.3	8.3	23.3	23.3	100.8	100.8	7.1	7.0	4.1	6.3	14	9	73	75	821179	811514	<0.2	<0.2	2.2	2.3
						1.0	0.2	149	26.3		8.3		23.3		100.8		7.1		4.1		16		73				<0.2		2.2	
					Middle	3.4	0.2	92	26.1	26.1	8.3	8.3	24.8	24.8	96.0	96.0	6.8		6.1		4		75				<0.2		2.5	
						3.4	0.2	92	26.1		8.3		24.8		96.0		6.8		6.1		6		75				<0.2		2.3	
					Bottom	5.7	0.3	64	25.9	25.9	8.2	8.2	28.1	28.1	93.9	94.0	6.5	6.5	8.5		6		77				<0.2		2.4	
						5.7	0.3	69	25.9		8.2		28.0		94.0		6.5		8.6		7		77				<0.2		2.3	
IM13	Cloudy	Moderate	16:19	7.3	Surface	1.0	0.1	216	26.6	26.6	8.2	8.2	22.6	22.6	113.8	113.7	8.0	7.4	1.9	2.6	6	7	-	-	821033	806072	-	-	-	-
						1.0	0.1	216	26.6		8.2		22.6		113.6		8.0		1.9		8		-				-		-	
					Middle	3.7	0.1	21	26.2	26.2	8.2	8.2	26.3	26.3	97.7	97.6	6.8		2.8		6		-				-		-	
						3.7	0.1	21	26.2		8.2		26.3		97.4		6.8		2.9		5		-				-		-	
					Bottom	6.3	0.1	51	25.8	25.8	8.1	8.1	28.6	28.7	93.2	93.3	6.5	6.5	3.1		10		-				-		-	
						6.3	0.1	53	25.8		8.1		28.7		93.4		6.5		3.1		8		-				-		-	
SR2	Cloudy	Moderate	17:30	5.4	Surface	1.0	0.5	83	26.1	26.1	8.2	8.2	24.5	24.5	88.5	88.5	6.2	6.2	3.4	3.6	5	8	74	75	821452	814184	<0.2	<0.2	1.9	2.0
						1.0	0.5	88	26.1		8.2		24.5		88.5		6.2		3.4		7		73				<0.2		1.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.4	77	26.0	26.0	8.1	8.1	26.4	26.4	90.5	90.5	6.3	6.3	3.8		9		77				<0.2		2.2	
						4.4	0.4	82	26.0		8.1		26.4		90.5		6.3		3.8		11		77				<0.2		2.2	
SR3	Cloudy	Moderate	16:28	9.6	Surface	1.0	0.1	157	26.6	26.6	8.1	8.1	21.3	21.3	108.3	108.3	7.7	7.3	1.9	2.3	8	6	-	-	822148	807556	-	-	-	-
						1.0	0.1	171	26.6		8.1		21.3		108.2		7.7		2.1		6		-				-		-	
					Middle	4.8	0.2	64	26.2	26.2	8.1	8.1	25.2	25.2	97.4	97.3	6.8		2.2		6		-				-		-	
						4.8	0.2	65	26.2		8.1		25.2		97.1		6.8		2.1		5		-				-		-	
					Bottom	8.6	0.4	78	25.9	25.9	8.1	8.1	28.1	28.1	100.0	100.3	6.9	7.0	2.7		5		-				-		-	
						8.6	0.4	82	25.9		8.1		28.1		100.5		7.0		2.7		6		-				-		-	
SR4A	Cloudy	Moderate	17:44	9.0	Surface	1.0	0.3	77	26.5	26.5	8.3	8.3	25.7	25.7	114.3	114.0	8.0	7.4	2.3	4.2	5	6	-	-	817197	807814	-	-	-	-
						1.0	0.3	78	26.5		8.3		25.7		113.6		7.9		2.3		7		-				-		-	
					Middle	4.5	0.3	76	26.1	26.1	8.1	8.1	27.4	27.4	98.9	98.8	6.9		4.5		5		-				-		-	
						4.5	0.3	78	26.1		8.1		27.4		98.6		6.9		4.7		5		-				-		-	
					Bottom	8.0	0.2	55	25.9	25.9	8.1	8.1	28.4	28.4	99.0	99.1	6.9	6.9	5.6		6		-				-		-	
						8.0	0.2	60	25.9		8.1		28.4		99.2		6.9		5.7		5		-				-		-	
SR5A	Cloudy	Moderate	17:59	5.7	Surface	1.0	0.1	111	26.9	26.9	8.2	8.2	23.6	23.6	118.3	118.1	8.3	8.3	1.1	1.9	7	7	-	-	816612	810714	-	-	-	-
						1.0	0.1	118	26.9		8.2		23.6		117.9		8.3		1.2		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.7	0.3	124	26.5	26.5	8.2	8.2	25.4	25.4	113.4	113.4	7.9	7.9	2.6		7		-				-		-	
						4.7	0.3	129	26.5		8.2		25.4		113.4		7.9		2.6		5		-				-		-	
SR6	Cloudy	Moderate	18:18	4.5	Surface	1.0	0.1	122	26.9	26.9	8.2	8.2	23.8	23.8	123.5	123.5	8.6	8.6	1.9	2.0	4	4	-	-	817912	814650	-	-	-	-
						1.0	0.2	125	26.9		8.2		23.8		123.4		8.6		1.8		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	122	26.5	26.5	8.2	8.2	25.2	25.3	121.1	121.1	8.4	8.4	2.0		3		-				-		-	
						3.5	0.2	127	26.5		8.2		25.3		121.1		8.4		2.1		5		-				-		-	
SR7	Cloudy	Moderate	18:17	18.7	Surface	1.0	0.8	78	26.0	26.0	8.2	8.2	25.6	25.6	89.7	89.7	6.3	5.9	1.4	1.9	8	5	-	-	823618	823723	-	-	-	-
						1.0	0.8	84	26.0		8.2		25.6		89.7		6.3		1.4		6		-				-		-	
					Middle	9.4	0.4	57	25.3	25.3	8.0	8.0	30.1	30.2	77.5	77.5	5.4		1.8		4		-				-		-	
						9.4	0.4	60	25.3		8.0		30.2		77.5		5.4		1.7		4		-				-		-	
					Bottom	17.7	0.3	53	25.3	25.3	8.0	8.0	30.8	30.8	77.9	78.0	5.4	5.4	2.7		4		-				-		-	
						17.7	0.3	53	25.3		8.0		30.8		78.0		5.4		2.6		3		-				-		-	
SR8	Cloudy	Moderate	17:14	4.7	Surface	1.0	0.5	83.0	26.2	26.2	8.2	8.2	24.4	24.4	97.3	97.3	6.9	6.9	2.4	2.6	13	9	-	-	820427	811598	-	-	-	-
						1.0	0.5	86.0	26.2		8.2		24.4		97.3		6.9		2.4		13		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.3	66.0	26.2	26.2	8.2	8.2	25.7	25.7	98.2	98.2	6.9	6.9	2.7		5		-				-		-	
						3.7	0.3	69.0	26.2		8.2		25.7		98.2		6.9		2.7		3		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 20 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	13:04	6.6	Surface	1.0	0.1	202	25.7	25.7	8.1	8.1	24.3	24.3	88.0	87.9	6.3	6.2	2.3	3.0	8	6	73	75	815634	804230	<0.2	<0.2	2.3	1.9
						1.0	0.1	214	25.7		8.1		24.3		87.8		6.3		2.4		6		73				<0.2		2.2	
					Middle	3.3	0.1	167	25.7	25.7	8.1	8.1	27.8	27.8	86.6	86.6	6.0		3.2		2		75				<0.2		2.1	
						3.3	0.1	170	25.7		8.1		27.7		86.6		6.0		3.3		4		75				<0.2		2.1	
					Bottom	5.6	0.1	54	25.6	25.6	8.1	8.1	29.8	29.8	90.9	91.1	6.3	6.3	3.3		7		76				<0.2		1.2	
						5.6	0.1	54	25.6		8.1		29.7		91.2		6.3		3.3		6		77				<0.2		1.2	
C2	Cloudy	Moderate	12:12	13.1	Surface	1.0	0.2	209	25.8	25.8	8.0	8.0	21.1	21.1	84.4	84.4	6.1	6.0	2.0	3.1	4	4	73	75	825680	806933	<0.2	<0.2	2.7	2.3
						1.0	0.2	220	25.8		8.0		21.1		84.3		6.1		2.0		4		73				<0.2		2.6	
					Middle	6.6	0.1	313	25.7	25.7	8.1	8.1	26.8	26.8	84.1	84.2	5.9		3.8		3		75				<0.2		2.3	
						6.6	0.1	329	25.7		8.1		26.8		84.2		5.9		3.9		3		75				<0.2		2.0	
					Bottom	12.1	0.3	7	25.7	25.7	8.1	8.1	27.9	27.9	87.8	88.0	6.1	6.1	3.3		3		77				<0.2		1.9	
						12.1	0.3	7	25.7		8.1		27.9		88.1		6.1		3.3		4		77				<0.2		2.0	
C3	Cloudy	Moderate	14:27	11.2	Surface	1.0	0.2	244	25.7	25.7	8.2	8.2	24.2	24.2	90.4	90.4	6.4	6.1	2.7	2.9	6	5	73	75	822118	817796	<0.2	<0.2	2.3	2.4
						1.0	0.2	249	25.7		8.2		24.2		90.4		6.4		2.7		4		73				<0.2		2.2	
					Middle	5.6	0.2	253	25.5	25.5	8.1	8.1	27.9	27.9	81.9	81.9	5.7		2.9		6		75				<0.2		2.4	
						5.6	0.3	257	25.5		8.1		27.9		81.9		5.7		2.9		8		76				<0.2		2.3	
					Bottom	10.2	0.2	285	25.3	25.3	8.1	8.1	29.8	29.8	85.2	85.2	5.9	5.9	3.1		4		77				<0.2		2.5	
						10.2	0.2	300	25.3		8.1		29.8		85.2		5.9		3.1		2		77				<0.2		2.5	
IM1	Cloudy	Moderate	12:54	8.3	Surface	1.0	0.1	170	25.7	25.7	8.1	8.1	26.4	26.4	85.6	85.5	6.0	6.0	2.5	3.3	4	5	73	75	818356	806462	<0.2	<0.2	1.9	2.0
						1.0	0.1	176	25.7		8.1		26.4		85.3		6.0		2.5		5		73				<0.2		2.0	
					Middle	4.2	0.0	53	25.7	25.7	8.1	8.1	28.3	28.3	84.5	84.5	5.9		3.9		4		75				<0.2		2.2	
						4.2	0.0	55	25.7		8.1		28.3		84.5		5.9		3.8		6		75				<0.2		2.1	
					Bottom	7.3	0.1	4	25.6	25.6	8.1	8.1	29.5	29.5	87.0	87.2	6.0	6.0	3.5		5		77				<0.2		1.9	
						7.3	0.1	4	25.6		8.1		29.5		87.3		6.0		3.6		4		77				<0.2		2.0	
IM2	Cloudy	Moderate	12:50	8.9	Surface	1.0	0.1	214	25.7	25.7	8.1	8.1	24.0	23.8	88.8	88.7	6.3	6.2	1.9	2.8	2	5	73	75	818860	806186	<0.2	<0.2	2.4	1.8
						1.0	0.1	227	25.7		8.1		23.5		88.6		6.3		1.9		2		73				<0.2		2.4	
					Middle	4.5	0.1	21	25.7	25.7	8.1	8.1	28.1	28.1	85.4	85.5	6.0		3.1		9		75				<0.2		1.5	
						4.5	0.1	21	25.7		8.1		28.1		85.5		6.0		3.1		8		75				<0.2		1.6	
					Bottom	7.9	0.2	47	25.6	25.6	8.1	8.1	29.4	29.4	88.1	88.2	6.1	6.1	3.4		5		77				<0.2		1.3	
						7.9	0.2	49	25.6		8.1		29.4		88.3		6.1		3.5		3		77				<0.2		1.4	
IM3	Cloudy	Moderate	12:41	8.2	Surface	1.0	0.1	131	25.8	25.8	8.1	8.1	23.8	23.8	88.9	88.9	6.3	6.1	2.7	3.3	4	4	73	75	819430	806037	<0.2	<0.2	2.3	2.0
						1.0	0.1	140	25.8		8.1		23.8		88.9		6.3		2.8		5		73				<0.2		2.2	
					Middle	4.1	0.0	15	25.7	25.7	8.1	8.1	28.2	28.2	84.1	84.1	5.9		3.4		4		75				<0.2		2.1	
						4.1	0.0	15	25.7		8.1		28.2		84.1		5.9		3.5		3		75				<0.2		2.1	
					Bottom	7.2	0.1	309	25.7	25.7	8.1	8.1	28.4	28.4	84.8	84.8	5.9	5.9	3.5		5		77				<0.2		1.8	
						7.2	0.1	322	25.7		8.1		28.4		84.8		5.9		3.6		4		77				<0.2		1.6	
IM4	Cloudy	Moderate	12:33	7.7	Surface	1.0	0.2	168	25.7	25.7	8.1	8.1	22.6	22.6	88.4	88.4	6.3	6.2	3.0	3.2	5	4	73	75	819570	805049	<0.2	<0.2	2.3	2.2
						1.0	0.2	170	25.7		8.1		22.6		88.3		6.3		3.0		3		73				<0.2		2.2	
					Middle	3.9	0.1	186	25.7	25.7	8.1	8.1	23.8	23.8	86.1	86.1	6.1		3.3		6		75				<0.2		2.3	
						3.9	0.1	194	25.6		8.1		23.8		86.1		6.1		3.3		4		75				<0.2		2.2	
					Bottom	6.7	0.1	98	25.6	25.6	8.1	8.1	29.6	29.6	87.9	88.0	6.1	6.1	3.4		3		77				<0.2		2.3	
						6.7	0.1	99	25.6		8.1		29.6		88.1		6.1		3.4		4		77				<0.2		2.0	
IM5	Cloudy	Moderate	12:25	7.0	Surface	1.0	0.1	221	25.8	25.8	8.0	8.0	21.0	21.0	88.2	88.2	6.4	6.3	2.3	3.0	3	6	73	75	820574	804918	<0.2	<0.2	2.8	2.4
						1.0	0.1	221	25.8		8.0		21.0		88.2		6.4		2.3		4		73				<0.2		2.9	
					Middle	3.5	0.1	211	25.7	25.7	8.1	8.1	26.3	26.2	87.3	87.3	6.1		3.2		4		75				<0.2		2.2	
						3.5	0.1	223	25.7		8.1		26.0		87.3		6.2		3.3		4		75				<0.2		2.1	
					Bottom	6.0	0.0	347	25.7	25.7	8.1	8.1	28.7	28.7	90.9	91.0	6.3	6.3	3.3		11		77				<0.2		2.3	
						6.0	0.0	319	25.7		8.1		28.7		91.1		6.3		3.3		9		77				<0.2		2.0	
IM6	Cloudy	Moderate	12:19	6.7	Surface	1.0	0.1	235	25.8	25.8	8.0	8.0	20.7	20.7	86.8	86.7	6.3	6.2	2.4	3.0	3	5	73	75	821076	805837	<0.2	<0.2	2.6	2.3
						1.0	0.1	249	25.8		8.0		20.7		86.6		6.3		2.4		5		73				<0.2		2.4	
					Middle	3.4	0.1	208	25.8	25.8	8.1	8.1	25.9	25.8	85.2	85.2	6.0		3.2		4		75				<0.2		2.2	
						3.4	0.1	221	25.8		8.1		25.7		85.2		6.0		3.2		4		75				<0.2		2.0	
					Bottom	5.7	0.1	2	25.7	25.7	8.1	8.1	28.3	28.3	87.0	87.1	6.1	6.1	3.3		5		77				<0.2		2.3	
						5.7	0.1	2	25.7		8.1		28.3		87.1		6.1		3.4		7		77				<0.2		2.3	
IM7	Cloudy	Moderate	12:12	8.3	Surface	1.0	0.2	285	25.8	25.8	8.0	8.0	21.0	21.0	86.8	86.8	6.3	6.2	1.4	2.8	7	6	73	75	821330	806845	<0.2	<0.2	2.4	2.4
						1.0	0.2	309	25.8		8.0		21.0		86.7		6.3		1.5		5		73				<0.2		2.6	
					Middle	4.2	0.1	146	25.9	25.9	8.0	8.0	24.0	24.0	84.9	84.9	6.0		2.8		6		75				<0.2		2.2	
						4.2	0.1	153	25.9		8.0		24.0		84.8		6.0		3.0		5		75				<0.2		2.2	
					Bottom	7.3	0.2	58	25.7	25.7	8.1	8.1	27.9	27.9	86.0	86.1	6.0	6.0	3.9		5		77				<0.2		2.3	
						7.3	0.2	60	25.7		8.1		27.9		86.2		6.0		3.9		6		77				<0.2		2.5	
IM8	Cloudy	Moderate	12:43	7.7	Surface	1.0	0.2	202	25.8	25.8	8.0	8.0	21.4	21.4	87.1	87.1	6.3	6.1	2.3	2.7	6	5	73	75	821688	807852	<0.2	<0.2	2.5	2.2
						1.0	0.2	211	25.8		8.0		21.4		87.0		6.3		2.3		5		73				<0.2		2.5	
					Middle	3.9	0.1	5	25.8	25.8	8.1	8.1	25.4	25.4	83.3	83.3	5.9		2.7		3		75				<0.2		2.4	
						3.9	0.1	5	25.8		8.1		25.4		83.2		5.9		2.7		2		75				<0.2		2.6	
					Bottom	6.7	0.2	20	25.7	25.7	8.1	8.1	28.0	28.0	82.8	82.8	5.8	5.8	3.2		6		77				<0.2		1.7	
						6.7	0.3	21	25.7		8.1		28.0		82.8		5.8		3.2		8		77				<0.2		1.7	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 20 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	12:54	7.8	Surface	1.0	0.2	245	25.7	25.7	8.1	8.1	22.3	22.3	87.2	87.2	6.3	6.2	2.9	3.3	9	4	73	75	822096	808802	<0.2	<0.2	2.3	2.5
						1.0	0.2	256	25.7		8.1		22.3		87.2		6.3		2.9		7		73				<0.2		2.3	
					Middle	3.9	0.1	224	25.7	25.7	8.1	8.1	23.7	23.7	84.3	84.3	6.0		3.2		2		75				<0.2		2.5	
						3.9	0.1	233	25.7		8.1		23.7		84.3		6.0		3.2		2		75				<0.2		2.4	
					Bottom	6.8	0.1	340	25.7	25.7	8.1	8.1	26.7	26.7	85.2	85.2	6.0	6.0	3.8		2		77				<0.2		2.8	
						6.8	0.1	350	25.7		8.1		26.7		85.2		6.0		3.8		<2		77				<0.2		2.5	
IM10	Cloudy	Moderate	13:01	7.6	Surface	1.0	0.2	240	25.7	25.7	8.1	8.1	22.3	22.3	87.7	87.7	6.3	6.1	2.7	3.1	2	3	73	75	822246	809842	<0.2	<0.2	2.8	2.6
						1.0	0.2	258	25.7		8.1		22.3		87.7		6.3		2.7		3		73				<0.2		2.5	
					Middle	3.8	0.1	204	25.7	25.7	8.1	8.1	25.2	25.2	81.9	81.9	5.8		3.2		3		75				<0.2		2.6	
						3.8	0.1	211	25.7		8.1		25.1		81.9		5.8		3.2		4		75				<0.2		2.6	
					Bottom	6.6	0.1	344	25.6	25.6	8.2	8.2	27.8	27.8	86.3	86.3	5.8	5.8	3.5		3		77				<0.2		2.6	
						6.6	0.1	354	25.6		8.2		27.8		86.3		5.8		3.5		4		77				<0.2		2.6	
IM11	Cloudy	Moderate	13:08	8.2	Surface	1.0	0.2	244	25.7	25.7	8.1	8.1	22.3	22.3	86.7	86.7	6.2	6.1	2.4	3.4	<2	2	73	75	821517	810530	<0.2	<0.2	2.6	2.5
						1.0	0.2	267	25.7		8.1		22.3		86.7		6.2		2.4		2		73				<0.2		2.6	
					Middle	4.1	0.1	207	25.7	25.7	8.1	8.1	24.3	24.3	83.1	83.1	5.9		3.9		<2		75				<0.2		2.5	
						4.1	0.1	221	25.7		8.1		24.3		83.1		5.9		3.9		<2		76				<0.2		2.4	
					Bottom	7.2	0.2	347	25.6	25.6	8.2	8.2	27.6	27.6	85.0	85.0	5.9	5.9	3.8		<2		77				<0.2		2.5	
						7.2	0.2	358	25.6		8.2		27.6		85.0		5.9		3.8		2		77				<0.2		2.5	
IM12	Cloudy	Moderate	13:15	8.0	Surface	1.0	0.2	217	25.7	25.7	8.1	8.1	22.3	22.3	87.3	87.3	6.3	6.2	1.6	2.0	4	4	73	75	821159	811506	<0.2	<0.2	2.5	2.5
						1.0	0.2	232	25.7		8.1		22.3		87.3		6.3		1.6		6		73				<0.2		2.6	
					Middle	4.0	0.1	200	25.7	25.7	8.1	8.1	22.8	22.8	84.2	84.2	6.0		2.1		3		75				<0.2		2.6	
						4.0	0.1	210	25.7		8.1		22.8		84.2		6.0		2.1		4		76				<0.2		2.4	
					Bottom	7.0	0.1	332	25.7	25.7	8.1	8.1	26.4	26.4	85.4	85.4	6.0	6.0	2.3		3		77				<0.2		2.4	
						7.0	0.1	335	25.7		8.1		26.4		85.4		6.0		2.3		4		77				<0.2		2.5	
IM13	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
SR2	Cloudy	Moderate	14:04	4.2	Surface	1.0	0.1	288	25.3	25.6	8.1	8.1	22.9	22.9	85.3	85.5	6.1	6.1	2.1	2.2	4	4	73	74	821476	814154	<0.2	<0.2	1.8	1.8
						1.0	0.1	310	25.8		8.1		22.9		85.7		6.1		2.1		2		73				<0.2		1.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	270	25.8	25.8	8.1	8.1	22.9	24.6	85.7	85.0	6.1	6.0	2.3		5		75				<0.2		1.7	
						3.2	0.2	292	25.7		8.1		26.3		84.3		5.9		2.3		3		76				<0.2		1.8	
SR3	Cloudy	Moderate	12:20	9.0	Surface	1.0	0.2	215	25.8	25.8	8.0	8.0	20.5	20.5	84.1	84.1	6.1	6.0	2.4	3.0	4	4	-	-	822157	807586	-	-	-	-
						1.0	0.2	234	25.8		8.0		20.5		84.0		6.1		2.4		4		-				-		-	
					Middle	4.5	0.1	287	25.8	25.8	8.1	8.1	24.9	24.9	83.3	83.3	5.9		3.0		5		-				-		-	
						4.5	0.1	294	25.8		8.1		24.9		83.2		5.9		3.0		7		-				-		-	
					Bottom	8.0	0.2	10	25.8	25.8	8.0	8.0	27.7	27.7	84.4	84.5	5.9	5.9	3.5		4		-				-		-	
						8.0	0.2	10	25.8		8.0		27.6		84.5		5.9		3.5		2		-				-		-	
SR4A	Cloudy	Moderate	13:17	8.4	Surface	1.0	0.1	286	25.7	25.7	8.1	8.1	26.1	26.1	88.0	87.9	6.2	6.1	3.2	3.7	<2	2	-	-	817187	807826	-	-	-	-
						1.0	0.1	300	25.7		8.1		26.1		87.8		6.2		3.2		2		-				-		-	
					Middle	4.2	0.1	184	25.7	25.7	8.1	8.1	28.7	28.7	85.7	85.7	6.0		3.6		<2		-				-		-	
						4.2	0.1	201	25.7		8.1		28.7		85.7		6.0		3.6		<2		-				-		-	
					Bottom	7.4	0.0	154	25.6	25.6	8.1	8.1	29.3	29.3	88.4	88.5	6.1	6.1	4.2		2		-				-		-	
						7.4	0.0	168	25.6		8.1		29.3		88.6		6.1		4.2		2		-				-		-	
SR5A	Rainy	Moderate	13:35	5.7	Surface	1.0	0.1	310	25.7	25.7	8.1	8.1	24.9	24.9	95.2	95.1	6.8	6.8	1.9	2.4	<2	2	-	-	816579	810696	-	-	-	-
						1.0	0.1	322	25.7		8.1		24.9		94.9		6.7		1.9		<2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.7	0.1	310	25.7	25.7	8.1	8.1	26.2	26.2	90.7	90.7	6.4	6.4	2.9		2		-				-		-	
						4.7	0.1	322	25.7		8.1		26.2		90.7		6.4		2.9		3		-				-		-	
SR6	Rainy	Moderate	13:57	4.4	Surface	1.0	0.1	206	25.7	25.7	8.1	8.1	24.8	24.8	97.7	97.6	6.9	6.9	1.3	1.7	6	5	-	-	817890	814682	-	-	-	-
						1.0	0.1	215	25.7		8.1		24.8		97.5		6.9		1.3		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.0	295	25.7	25.7	8.1	8.1	26.2	26.2	98.8	98.9	7.0	7.0	2.0		3		-				-		-	
						3.4	0.0	297	25.7		8.1		26.2		99.0		7.0		2.0		5		-				-		-	
SR7	Cloudy	Moderate	14:49	19.8	Surface	1.0	0.2	199	25.6	25.6	8.1	8.1	26.7	26.7	88.2	88.1	6.2	5.9	1.2	1.9	6	4	-	-	823652	823739	-	-	-	-
						1.0	0.2	207	25.6		8.1		26.7		87.9		6.2		1.3		4		-				-		-	
					Middle	9.9	0.1	336	25.4	25.4	8.0	8.0	29.1	29.1	80.1	80.1	5.6		1.7		5		-				-		-	
						9.9	0.1	309	25.4		8.0		29.1		80.0		5.6		1.8		3		-				-		-	
					Bottom	18.8	0.1	164	25.3	25.3	8.0	8.0	30.7	30.7	82.3	82.4	5.7	5.7	2.7		<2		-				-		-	
						18.8	0.1	179	25.3		8.0		30.7		82.5		5.7		2.6		2		-				-		-	
SR8	Cloudy	Moderate	13:44	4.8	Surface	1.0	0.1	268	25.8	25.8	8.1	8.1	23.5	23.5	83.5	83.5	6.0	6.0	2.1	2.5	5	3	-	-	820405	811612	-	-	-	-
						1.0	0.1	280	25.8		8.1		23.5		83.5		6.0		2.1		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.2	270	25.7	25.7	8.1	8.1	26.4	26.4	83.8	83.8	5.9	5.9	2.8		2		-				-		-	
						3.8	0.2	293	25.7		8.1		26.4		83.8		5.9		2.8		<2		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 20 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	08:16	6.2	Surface	1.0	0.1	246	25.7	25.7	8.1	8.1	26.0	26.0	89.7	89.7	6.3	6.2	1.9	3.0	3	4	72	74	815638	804243	<0.2	<0.2	1.7	1.6
						1.0	0.1	253	25.7		8.1		26.0		89.6		6.3		1.9		4		72				<0.2		1.6	
					Middle	3.1	0.2	162	25.7	25.7	8.1	8.1	28.5	28.5	87.4	87.4	6.1		2.4		5		73				<0.2		1.8	
						3.1	0.2	164	25.7		8.1		28.5		87.4		6.1		2.5		4		74				<0.2		1.7	
					Bottom	5.2	0.2	189	25.6	25.6	8.1	8.1	29.8	29.8	89.1	89.2	6.2	6.2	4.6		4		75				<0.2		1.4	
						5.2	0.2	200	25.6		8.1		29.8		89.3		6.2		4.6		4		75				<0.2		1.4	
C2	Cloudy	Moderate	09:58	12.5	Surface	1.0	0.1	201	25.8	25.8	8.0	8.0	21.2	21.2	84.9	84.9	6.1	6.0	1.8	3.1	4	4	73	75	825690	806927	<0.2	<0.2	3.1	2.7
						1.0	0.2	209	25.8		8.0		21.2		84.8		6.1		1.9		5		73				<0.2		3.1	
					Middle	6.3	0.1	227	25.8	25.8	8.1	8.1	26.2	26.2	82.1	82.1	5.8		3.5		4		75				<0.2		2.6	
						6.3	0.1	238	25.8		8.1		26.2		82.1		5.8		3.6		6		75				<0.2		2.8	
					Bottom	11.5	0.2	343	25.7	25.7	8.1	8.1	28.0	28.0	82.3	82.4	5.7	5.7	3.8		4		77				<0.2		2.2	
						11.5	0.3	316	25.7		8.1		28.0		82.4		5.7		3.8		2		77				<0.2		2.2	
C3	Cloudy	Moderate	08:00	11.3	Surface	1.0	0.3	104	25.5	25.5	8.1	8.1	26.7	26.7	85.4	85.4	6.0	5.9	1.0	1.2	8	5	73	75	822120	817813	<0.2	<0.2	2.2	2.2
						1.0	0.3	107	25.5		8.1		26.7		85.4		6.0		1.0		6		73				<0.2		2.1	
					Middle	5.7	0.0	256	25.4	25.4	8.0	8.0	28.1	28.1	82.0	82.0	5.7		1.2		3		75				<0.2		2.1	
						5.7	0.0	270	25.4		8.0		28.1		82.0		5.7		1.2		3		75				<0.2		2.2	
					Bottom	10.3	0.3	215	25.3	25.3	8.0	8.0	29.7	29.7	81.3	81.4	5.7	5.7	1.4		6		76				<0.2		2.1	
						10.3	0.4	232	25.3		8.0		29.7		81.5		5.7		1.4		4		76				<0.2		2.2	
IM1	Cloudy	Moderate	08:28	7.4	Surface	1.0	0.2	172	25.7	25.7	8.1	8.1	24.0	24.0	87.5	87.4	6.2	6.0	2.0	2.8	6	8	73	75	818357	806450	<0.2	<0.2	2.3	1.6
						1.0	0.2	176	25.7		8.1		23.9		87.3		6.2		2.0		7		73				<0.2		2.3	
					Middle	3.7	0.2	164	25.7	25.7	8.1	8.1	28.6	28.6	84.1	84.1	5.8		2.3		6		75				<0.2		1.5	
						3.7	0.2	179	25.7		8.1		28.6		84.1		5.8		2.3		8		75				<0.2		1.4	
					Bottom	6.4	0.0	133	25.6	25.6	8.1	8.1	29.4	29.4	88.9	88.6	5.8	5.9	4.2		10		76				<0.2		1.0	
						6.4	0.0	133	25.6		8.1		29.4		88.3		6.0		4.2		9		76				<0.2		1.0	
IM2	Cloudy	Moderate	08:35	8.4	Surface	1.0	0.2	191	25.7	25.7	8.1	8.1	23.2	23.2	88.2	88.2	6.3	6.1	2.7	3.9	4	5	73	75	818841	806189	<0.2	<0.2	2.5	1.8
						1.0	0.2	192	25.7		8.1		23.1		88.1		6.3		2.9		3		73				<0.2		2.2	
					Middle	4.2	0.2	152	25.7	25.7	8.1	8.1	28.6	28.6	85.1	85.2	5.9		4.2		5		75				<0.2		1.7	
						4.2	0.2	161	25.7		8.1		28.6		85.2		5.9		4.3		7		75				<0.2		1.5	
					Bottom	7.4	0.0	70	25.6	25.6	8.1	8.1	29.0	29.0	87.5	87.6	6.1	6.1	4.5		6		76				<0.2		1.6	
						7.4	0.0	76	25.6		8.1		29.0		87.6		6.1		4.5		7		76				<0.2		1.5	
IM3	Cloudy	Moderate	08:44	8.5	Surface	1.0	0.2	199	25.7	25.7	8.1	8.1	22.1	22.1	85.4	85.3	6.2	6.0	2.2	3.7	5	5	73	75	819420	806014	<0.2	<0.2	2.8	2.0
						1.0	0.3	214	25.7		8.1		22.0		85.2		6.1		2.2		4		73				<0.2		2.5	
					Middle	4.3	0.1	148	25.7	25.7	8.1	8.1	28.2	28.2	86.8	86.8	5.8		4.2		6		75				<0.2		1.9	
						4.3	0.1	151	25.7		8.1		28.2		86.8		5.8		4.3		4		75				<0.2		1.9	
					Bottom	7.5	0.0	113	25.6	25.6	8.1	8.1	29.0	29.0	87.1	87.2	5.9	5.9	4.6		4		76				<0.2		1.4	
						7.5	0.0	115	25.6		8.1		29.0		87.2		5.9		4.7		6		76				<0.2		1.2	
IM4	Cloudy	Moderate	08:52	7.7	Surface	1.0	0.1	207	25.7	25.7	8.1	8.1	23.9	23.9	89.6	89.6	6.4	6.3	2.6	2.9	7	5	73	75	819573	805055	<0.2	<0.2	1.7	1.6
						1.0	0.1	207	25.7		8.1		23.8		89.6		6.4		2.6		5		73				<0.2		1.8	
					Middle	3.9	0.1	166	25.6	25.6	8.1	8.1	28.8	28.8	88.0	88.1	6.1		2.9		2		75				<0.2		1.9	
						3.9	0.1	173	25.6		8.1		28.8		88.1		6.1		2.9		3		75				<0.2		1.8	
					Bottom	6.7	0.2	187	25.6	25.6	8.1	8.1	29.0	29.0	90.5	90.6	6.3	6.3	3.1		5		77				<0.2		1.2	
						6.7	0.2	204	25.6		8.1		29.0		90.7		6.3		3.2		5		77				<0.2		1.2	
IM5	Cloudy	Moderate	08:59	7.0	Surface	1.0	0.2	123	25.8	25.8	8.1	8.1	23.5	23.6	88.1	88.1	6.3	6.2	1.9	2.8	4	4	73	75	820582	804922	<0.2	<0.2	1.8	1.9
						1.0	0.2	126	25.8		8.1		23.6		88.1		6.3		1.8		4		73				<0.2		1.8	
					Middle	3.5	0.3	142	25.7	25.7	8.1	8.1	26.8	26.8	86.6	86.7	6.1		2.6		3		75				<0.2		1.9	
						3.5	0.3	150	25.7		8.1		26.8		86.7		6.1		2.7		3		75				<0.2		2.0	
					Bottom	6.0	0.1	188	25.6	25.6	8.1	8.1	28.9	28.9	88.4	88.6	6.1	6.2	3.9		6		77				<0.2		2.0	
						6.0	0.1	200	25.6		8.1		28.9		88.7		6.2		4.1		5		77				<0.2		2.0	
IM6	Cloudy	Moderate	09:11	6.7	Surface	1.0	0.2	158	25.8	25.8	8.0	8.0	22.1	22.1	89.6	89.6	6.4	6.3	3.5	3.9	5	5	73	75	821060	805831	<0.2	<0.2	2.6	2.7
						1.0	0.2	170	25.8		8.0		22.1		89.5		6.4		3.5		3		73				<0.2		2.9	
					Middle	3.4	0.2	124	25.8	25.8	8.1	8.1	26.2	26.2	87.4	87.4	6.2		3.9		4		75				<0.2		2.5	
						3.4	0.2	133	25.8		8.1		26.2		87.4		6.2		3.9		6		75				<0.2		2.6	
					Bottom	5.7	0.1	110	25.6	25.6	8.1	8.1	28.3	28.3	87.5	87.6	6.1	6.1	4.2		5		77				<0.2		2.6	
						5.7	0.1	119	25.6		8.1		28.3		87.7		6.1		4.3		5		77				<0.2		2.8	
IM7	Cloudy	Moderate	09:19	7.7	Surface	1.0	0.0	254	25.9	25.9	8.0	8.0	21.8	21.9	87.2	87.2	6.3	6.2	3.3	4.0	6	5	73	75	821347	806832	<0.2	<0.2	3.1	2.3
						1.0	0.0	267	25.9		8.0		21.9		87.1		6.3		3.4		5		73				<0.2		2.8	
					Middle	3.9	0.2	111	25.8	25.8	8.1	8.1	24.7	24.7	85.3	85.3	6.1		4.0		3		75				<0.2		2.2	
						3.9	0.2	111	25.8		8.1		24.6		85.3		6.1		4.1		4		75				<0.2		2.2	
					Bottom	6.7	0.1	352	25.7	25.7	8.1	8.1	27.8	27.8	87.5	87.5	6.1	6.1	4.5		8		77				<0.2		1.7	
						6.7	0.1	324	25.7		8.1		27.8		87.5		6.1		4.5		6		77				<0.2		1.7	
IM8	Cloudy	Moderate	09:34	7.6	Surface	1.0	0.2	193	25.8	25.8	8.0	8.0	21.4	21.4	85.8	85.8	6.2	6.1	1.2	2.3	8	5	73	75	821690	807853	<0.2	<0.2	2.5	2.7
						1.0	0.2	199	25.8		8.0		21.4		85.7		6.2		1.3		6		73				<0.2		2.6	
					Middle	3.8	0.0	95	25.8	25.8	8.1	8.1	25.3	25.4	84.5	84.5	6.0		2.3		5		75				<0.2		2.7	
						3.8	0.0	97	25.8		8.1		25.4		84.4		6.0		2.4		3		75				<0.2		2.9	
					Bottom	6.6	0.2	359	25.7	25.7	8.1	8.1	27.4	27.4	82.7	82.7	5.8	5.8	3.2		5		77				<0.2		2.5	
						6.6	0.2	330	25.7		8.1		27.3		82.7		5.8		3.3		4		77				<0.2		2.8	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 20 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	09:24	8.0	Surface	1.0	0.2	138	25.8	25.8	8.1	8.1	22.7	22.7	81.9	81.8	5.9	5.8	2.5	2.9	6	5	73	75	822075	808811	<0.2	<0.2	3.1	2.9
						1.0	0.2	149	25.8		8.1		22.7		81.7		5.9		2.5		4		73				<0.2		2.8	
					Middle	4.0	0.1	101	25.7	25.7	8.1	8.1	26.4	26.4	80.4	80.4	5.7		3.3		5		75				<0.2		2.9	
						4.0	0.1	107	25.7		8.1		26.4		80.4		5.7		3.3		3		75				<0.2		2.7	
					Bottom	7.0	0.1	49	25.7	25.7	8.1	8.1	27.0	27.0	81.4	81.4	5.7	5.7	3.0		6		77				<0.2		3.0	
						7.0	0.1	50	25.7		8.1		27.0		81.4		5.7		3.0		7		77				<0.2		3.0	
IM10	Cloudy	Moderate	09:18	7.9	Surface	1.0	0.2	147	25.8	25.8	8.1	8.1	24.1	24.1	80.7	80.7	5.7	5.7	2.5	3.4	8	6	73	75	822248	809842	<0.2	<0.2	2.2	2.4
						1.0	0.2	151	25.8		8.1		24.1		80.6		5.7		2.5		6		73				<0.2		2.3	
					Middle	4.0	0.2	99	25.7	25.7	8.1	8.1	26.3	26.3	80.7	80.7	5.7		3.5		6		75				<0.2		2.6	
						4.0	0.2	101	25.7		8.1		26.3		80.7		5.7		3.5		8		75				<0.2		2.5	
					Bottom	6.9	0.1	41	25.6	25.6	8.1	8.1	27.2	27.2	82.3	82.3	5.8	5.8	4.3		4		77				<0.2		2.6	
						6.9	0.1	41	25.6		8.1		27.2		82.3		5.8		4.3		6		77				<0.2		2.4	
IM11	Cloudy	Moderate	09:15	7.8	Surface	1.0	0.2	142	25.8	25.8	8.1	8.1	23.5	23.5	88.5	88.5	6.3	6.0	2.3	3.2	5	5	73	75	821484	810534	<0.2	<0.2	2.9	3.0
						1.0	0.2	151	25.8		8.1		23.5		88.5		6.3		2.3		5		73				<0.2		3.1	
					Middle	3.9	0.1	114	25.7	25.7	8.1	8.1	26.2	26.2	80.2	80.3	5.6		3.2		4		75				<0.2		2.9	
						3.9	0.1	115	25.7		8.1		26.2		80.3		5.7		3.2		3		75				<0.2		3.0	
					Bottom	6.8	0.1	30	25.7	25.7	8.1	8.1	26.9	26.9	81.5	81.5	5.7	5.7	4.1		4		77				<0.2		3.0	
						6.8	0.1	30	25.7		8.1		26.9		81.5		5.7		4.1		6		77				<0.2		3.0	
IM12	Cloudy	Moderate	09:10	7.5	Surface	1.0	0.2	130	25.7	25.7	8.1	8.1	22.6	22.6	85.4	85.4	6.1	5.9	1.9	2.7	4	4	73	75	821159	811517	<0.2	<0.2	2.8	2.8
						1.0	0.2	135	25.7		8.1		22.6		85.4		6.1		1.9		4		73				<0.2		2.7	
					Middle	3.8	0.2	119	25.7	25.7	8.1	8.1	25.7	25.7	79.5	79.5	5.6		3.2		3		75				<0.2		3.0	
						3.8	0.2	122	25.7		8.1		25.7		79.5		5.6		3.2		5		75				<0.2		2.6	
					Bottom	6.5	0.2	72	25.7	25.7	8.1	8.1	27.0	27.0	82.2	82.2	5.8	5.8	3.1		3		76				<0.2		2.8	
						6.5	0.2	73	25.7		8.1		27.0		82.2		5.8		3.1		5		76				<0.2		3.1	
IM13	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
SR2	Cloudy	Moderate	08:40	5.2	Surface	1.0	0.5	101	25.7	25.7	8.1	8.1	22.2	22.2	88.2	88.2	6.4	6.4	1.9	1.7	6	4	73	74	821472	814153	<0.2	<0.2	3.0	2.6
						1.0	0.6	104	25.7		8.1		22.2		88.2		6.4		1.9		4		73				<0.2		2.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.3	97	25.7	25.7	8.1	8.1	25.5	25.5	89.4	89.4	6.3	6.3	1.4		3		75				<0.2		2.4	
						4.2	0.3	97	25.7		8.1		25.5		89.4		6.3		1.4		2		75				<0.2		2.6	
SR3	Cloudy	Moderate	09:43	9.0	Surface	1.0	0.2	182	25.8	25.8	8.0	8.0	21.2	21.2	86.1	86.0	6.2	6.1	3.2	3.6	2	4	-	-	822166	807565	-	-	-	-
						1.0	0.2	194	25.8		8.0		21.2		85.9		6.2		3.2		2		-				-		-	
					Middle	4.5	0.1	258	25.8	25.8	8.1	8.1	25.7	25.7	83.2	83.2	5.9		3.6		3		-				-		-	
						4.5	0.1	262	25.8		8.1		25.7		83.2		5.9		3.6		2		-				-		-	
					Bottom	8.0	0.2	3	25.7	25.7	8.1	8.1	28.0	28.0	86.3	86.4	6.0	6.0	4.0		7		-				-		-	
						8.0	0.2	3	25.7		8.1		28.0		86.5		6.0		4.0		5		-				-		-	
SR4A	Cloudy	Moderate	08:02	9.6	Surface	1.0	0.2	59	25.6	25.6	8.1	8.1	24.2	24.2	88.0	88.0	6.3	6.1	3.1	3.3	4	6	-	-	817205	807802	-	-	-	-
						1.0	0.3	61	25.6		8.1		24.2		87.9		6.3		3.0		5		-				-		-	
					Middle	4.8	0.3	51	25.6	25.6	8.1	8.1	28.9	28.9	83.7	83.7	5.8		3.2		5		-				-		-	
						4.8	0.3	53	25.6		8.1		28.9		83.7		5.8		3.2		6		-				-		-	
					Bottom	8.6	0.3	76	25.6	25.6	8.1	8.1	29.0	29.0	84.7	84.8	5.9	5.9	3.7		8		-				-		-	
						8.6	0.3	76	25.6		8.1		29.0		84.8		5.9		3.6		6		-				-		-	
SR5A	Cloudy	Moderate	07:45	5.5	Surface	1.0	0.0	296	25.6	25.6	8.1	8.1	23.5	23.5	98.4	98.4	7.0	7.0	3.0	2.4	7	5	-	-	816587	810708	-	-	-	-
						1.0	0.0	316	25.6		8.1		23.5		98.4		7.0		3.2		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.5	0.1	118	25.7	25.7	8.1	8.1	25.4	25.4	99.0	99.0	7.0	7.0	1.6		4		-				-		-	
						4.5	0.1	124	25.7		8.1		25.3		99.0		7.0		1.8		3		-				-		-	
SR6	Cloudy	Moderate	07:20	4.6	Surface	1.0	0.1	78	25.8	25.8	8.1	8.1	24.6	24.6	97.3	97.3	6.9	6.9	1.5	2.4	7	7	-	-	817909	814679	-	-	-	-
						1.0	0.1	82	25.8		8.1		24.6		97.3		6.9		1.6		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	67	25.9	25.9	8.1	8.1	25.1	25.1	95.0	95.0	6.7	6.7	3.2		7		-				-		-	
						3.6	0.1	68	25.9		8.1		25.1		95.0		6.7		3.1		8		-				-		-	
SR7	Cloudy	Moderate	07:20	17.4	Surface	1.0	0.1	65	25.5	25.5	8.0	8.0	28.5	28.5	80.6	80.6	5.6	5.5	1.7	1.9	5	4	-	-	823622	823723	-	-	-	-
						1.0	0.1	70	25.5		8.0		28.5		80.6		5.6		1.7		3		-				-		-	
					Middle	8.7	0.0	163	25.3	25.3	7.9	7.9	30.7	30.7	77.7	77.7	5.4		1.9		5		-				-		-	
						8.7	0.0	168	25.3		7.9		30.7		77.7		5.4		1.9		3		-				-		-	
					Bottom	16.4	0.2	46	25.3	25.3	7.9	7.9	30.9	30.9	78.5	78.5	5.4	5.4	2.1		4		-				-		-	
						16.4	0.2	49	25.3		7.9		30.9		78.5		5.4		2.1		6		-				-		-	
SR8	Cloudy	Moderate	08:56	5.5	Surface	1.0	0.6	105	25.7	25.7	8.1	8.1	22.0	22.0	87.7	87.7	6.3	6.3	1.5	1.4	6	4	-	-	820435	811597	-	-	-	-
						1.0	0.6	113	25.7		8.1		22.0		87.7		6.3		1.5		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.5	0.4	74	25.7	25.7	8.1	8.1	25.5	25.5	87.2	87.2	6.2	6.2	1.3		3		-				-		-	
						4.5	0.4	78	25.7		8.1		25.5		87.2		6.2		1.3		4		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 23 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Foggy	Moderate	16:38	6.1	Surface	1.0	0.1	19	26.3	26.3	8.1	8.1	24.9	25.0	92.4	92.5	6.5	6.5	4.6	5.6	5	8	73	75	815626	804228	<0.2	<0.2	2.1	1.8
						1.0	0.1	20	26.3		8.1		25.0		92.5		6.5		4.5		6		74				<0.2		1.8	
					Middle	3.1	0.3	19	25.9	25.9	8.1	8.1	27.7	27.7	93.9	93.9	6.5		5.1		7		75				<0.2		1.7	
						3.1	0.3	19	25.9		8.1		27.7		93.9		6.5		5.1		8		76				<0.2		1.5	
					Bottom	5.1	0.4	45	25.9	25.9	8.1	8.1	29.3	29.3	93.6	93.6	6.5		7.1		12		77				<0.2		1.8	
						5.1	0.4	47	25.9		8.1		29.3		93.6		6.5		7.2		10		77				<0.2		1.9	
C2	Sunny	Moderate	15:34	13.2	Surface	1.0	0.7	29	26.0	26.0	7.9	7.9	23.2	23.2	79.7	79.7	5.7	5.7	3.9	5.3	3	7	74	75	825699	806945	<0.2	<0.2	2.8	1.9
						1.0	0.8	31	26.0		7.9		23.2		79.7		5.7		4.0		5		73				<0.2		2.6	
					Middle	6.6	0.6	23	25.9	25.9	7.9	7.9	24.4	24.4	79.3	79.3	5.6		5.6		5		76				<0.2		1.8	
						6.6	0.6	23	25.9		7.9		24.4		79.3		5.6		5.5		7		75				<0.2		2.0	
					Bottom	12.2	0.6	28	25.9	25.9	7.9	7.9	24.3	24.3	79.3	79.3	5.6	5.6	6.4		10		77				<0.2		1.1	
						12.2	0.6	29	25.9		7.9		24.3		79.3		5.6		6.4		9		77				<0.2		1.1	
C3	Foggy	Moderate	17:00	12.5	Surface	1.0	0.6	256	26.0	26.0	8.0	8.0	26.9	26.9	86.1	86.0	6.0	5.8	2.6	4.6	4	5	74	76	822117	817796	<0.2	<0.2	1.6	1.1
						1.0	0.6	273	26.0		8.0		26.9		85.9		6.0		2.6		5		74				<0.2		1.3	
					Middle	6.3	0.7	250	25.5	25.5	7.9	7.9	28.8	28.8	80.6	80.6	5.6		5.3		5		76				<0.2		0.6	
						6.3	0.7	254	25.5		7.9		28.8		80.6		5.6		5.3		6		76				<0.2		0.6	
					Bottom	11.5	0.4	251	25.5	25.5	7.9	7.9	28.8	28.8	82.4	82.4	5.7	5.7	6.0		5		77				<0.2		1.4	
						11.5	0.5	262	25.5		7.9		28.8		82.4		5.7		6.0		5		77				<0.2		1.1	
IM1	Foggy	Moderate	16:29	7.2	Surface	1.0	0.0	45	26.3	26.3	8.1	8.1	25.8	25.8	90.6	90.6	6.3	6.3	4.2	5.2	5	7	73	75	818340	806441	<0.2	<0.2	1.7	1.3
						1.0	0.0	45	26.3		8.1		25.8		90.6		6.3		4.3		6		73				<0.2		2.0	
					Middle	3.6	0.3	43	26.1	26.1	8.1	8.1	26.8	26.8	90.9	90.9	6.3		5.3		8		75				<0.2		1.4	
						3.6	0.3	43	26.1		8.1		26.8		90.9		6.3		5.5		9		76				<0.2		1.2	
					Bottom	6.2	0.3	35	26.0	26.0	8.1	8.1	27.4	27.4	91.1	91.1	6.3	6.3	5.8		8		77				<0.2		0.6	
						6.2	0.3	36	26.0		8.1		27.4		91.1		6.3		5.9		8		77				<0.2		0.8	
IM2	Sunny	Moderate	16:22	8.0	Surface	1.0	0.6	12	26.5	26.5	8.0	8.0	22.6	22.6	88.3	88.3	6.2	6.3	3.4	5.3	6	6	73	75	818863	806200	<0.2	<0.2	1.8	2.2
						1.0	0.7	12	26.5		8.0		22.6		88.3		6.3		3.3		5		74				<0.2		1.8	
					Middle	4.0	0.3	26	26.2	26.2	8.1	8.1	24.7	24.8	90.1	90.1	6.3		5.7		6		75				<0.2		1.9	
						4.0	0.3	26	26.2		8.1		24.8		90.1		6.3		5.5		6		76				<0.2		1.9	
					Bottom	7.0	0.2	33	26.0	26.0	8.1	8.1	28.1	28.1	89.6	89.6	6.2	6.2	6.9		6		77				<0.2		3.0	
						7.0	0.2	35	26.0		8.1		28.1		89.6		6.2		6.8		5		77				<0.2		2.7	
IM3	Sunny	Moderate	16:15	7.3	Surface	1.0	0.6	45	26.7	26.7	8.0	8.0	21.8	21.8	85.2	85.2	6.0	6.0	6.6	8.9	10	11	73	75	819423	806015	<0.2	<0.2	2.2	2.7
						1.0	0.6	46	26.7		8.0		21.8		85.2		6.0		6.8		10		73				<0.2		2.2	
					Middle	3.7	0.4	54	26.3	26.3	8.0	8.0	23.1	23.1	85.2	85.3	6.0		8.1		10		76				<0.2		3.1	
						3.7	0.4	54	26.3		8.0		23.1		85.3		6.0		8.3		12		75				<0.2		3.2	
					Bottom	6.3	0.3	33	26.0	26.0	8.1	8.1	25.6	25.6	85.4	85.4	6.0	6.0	11.7		12		77				<0.2		2.8	
						6.3	0.3	34	26.0		8.1		25.6		85.4		6.0		11.7		10		77				<0.2		2.5	
IM4	Sunny	Moderate	16:06	7.7	Surface	1.0	0.4	27	26.3	26.3	8.0	8.0	23.4	23.4	84.7	84.7	6.0	6.0	5.2	5.8	6	5	73	75	819563	805027	<0.2	<0.2	3.0	2.7
						1.0	0.4	28	26.3		8.0		23.4		84.7		6.0		5.3		6		73				<0.2		2.9	
					Middle	3.9	0.3	28	26.2	26.2	8.0	8.0	24.1	24.1	84.4	84.5	6.0		5.8		4		75				<0.2		2.0	
						3.9	0.3	30	26.2		8.0		24.1		84.5		6.0		5.7		6		75				<0.2		1.9	
					Bottom	6.7	0.2	30	26.1	26.1	8.1	8.1	24.6	24.6	85.2	85.2	6.0	6.0	6.5		5		77				<0.2		3.1	
						6.7	0.2	32	26.1		8.1		24.6		85.2		6.0		6.4		5		77				<0.2		3.0	
IM5	Sunny	Moderate	15:57	7.2	Surface	1.0	0.6	27	26.8	26.8	7.9	7.9	21.8	21.8	84.1	84.1	6.0	6.0	6.7	8.3	6	10	73	75	820556	804920	<0.2	<0.2	3.0	2.6
						1.0	0.7	27	26.8		7.9		21.8		84.0		6.0		6.9		7		74				<0.2		2.9	
					Middle	3.6	0.6	35	26.3	26.3	8.0	8.0	23.2	23.2	82.9	82.9	5.9		7.4		12		75				<0.2		3.4	
						3.6	0.7	36	26.3		8.0		23.2		82.9		5.9		7.6		12		76				<0.2		3.3	
					Bottom	6.2	0.7	33	26.0	26.1	8.0	8.0	23.9	23.9	83.2	83.3	5.9	5.9	10.8		11		77				<0.2		1.4	
						6.2	0.7	33	26.1		8.0		23.9		83.3		5.9		10.5		13		77				<0.2		1.6	
IM6	Sunny	Moderate	15:41	6.6	Surface	1.0	0.7	55	26.0	26.0	8.0	8.0	23.8	23.8	81.0	81.0	5.7	5.8	6.8	8.2	8	10	74	75	821063	805823	<0.2	<0.2	2.6	2.1
						1.0	0.7	55	26.0		8.0		23.8		81.0		5.7		6.6		9		73				<0.2		2.7	
					Middle	3.3	0.6	58	25.8	25.8	8.0	8.0	24.9	24.9	81.2	81.2	5.8		8.5		9		75				<0.2		2.2	
						3.3	0.6	59	25.8		8.0		24.9		81.2		5.8		8.5		8		76				<0.2		2.2	
					Bottom	5.6	0.4	54	25.8	25.8	8.0	8.0	26.1	26.1	82.2	82.2	5.8	5.8	9.4		13		77				<0.2		1.5	
						5.6	0.4	57	25.8		8.0		26.1		82.2		5.8		9.4		12		77				<0.2		1.5	
IM7	Sunny	Moderate	15:35	7.4	Surface	1.0	0.8	21	27.0	27.0	7.9	7.9	21.0	20.8	81.1	81.2	5.8	5.8	6.2	9.2	5	5	73	75	821359	806848	<0.2	<0.2	2.3	3.0
						1.0	0.9	22	27.0		7.9		20.6		81.2		5.8		6.3		4		74				<0.2		2.1	
					Middle	3.7	0.7	33	26.0	26.0	7.9	7.9	23.5	23.5	79.7	79.7	5.7		9.6		4		75				<0.2		3.4	
						3.7	0.7	35	26.0		7.9		23.5		79.7		5.7		9.7		6		75				<0.2		3.6	
					Bottom	6.4	0.6	38	26.0	26.0	7.9	7.9	23.7	23.7	80.1	80.1	5.7	5.7	11.5		4		77				<0.2		3.3	
						6.4	0.6	39	26.0		7.9		23.7		80.1		5.7		11.6		5		77				<0.2		3.0	
IM8	Sunny	Moderate	15:55	7.8	Surface	1.0	0.7	276	26.1	26.1	7.9	7.9	22.9	22.9	79.9	79.9	5.7	5.7	3.7	4.9	4	6	74	75	821693	807851	<0.2	<0.2	3.4	2.9
						1.0	0.8	290	26.1		7.9		22.9		79.9		5.7		3.8		3		74				<0.2		3.4	
					Middle	3.9	0.5	277	25.9	25.9	7.9	7.9	24.3	24.3	79.8	79.8	5.7		5.2		6		75				<0.2		3.2	
						3.9	0.6	291	25.9		7.9		24.3		79.8		5.7		5.3		6		75				<0.2		3.2	
					Bottom	6.8	0.5	277	25.8	25.8	8.0	8.0	24.7	24.7	80.5	80.5	5.7	5.7	5.6		6		77				<0.2		2.3	
						6.8	0.5	290	25.8		8.0		24.7		80.5		5.7		5.6		8		77				<0.2		2.0	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 23 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Sunny	Moderate	16:00	7.6	Surface	1.0	0.4	294	26.3	26.3	7.9	7.9	22.0	22.0	80.0	80.0	5.7	5.6	3.4	5.2	6	5	74	76	822100	808806	<0.2	<0.2	2.3	2.5
						1.0	0.5	304	26.3		7.9		22.0		80.0		5.7		3.4		6		74				<0.2		2.3	
					Middle	3.8	0.2	291	25.9	25.9	7.9	7.9	24.2	24.2	77.7	77.7	5.5		6.1		5		76				<0.2		3.0	
						3.8	0.2	307	25.9		7.9		24.2		77.7		5.5		6.1		5		75				<0.2		2.8	
					Bottom	6.6	0.2	291	25.9	25.9	7.9	7.9	24.3	24.3	79.3	79.3	5.6	5.6	6.1		4		77				<0.2		2.3	
						6.6	0.2	304	25.9		7.9		24.3		79.3		5.6		6.1		4		77				<0.2		2.4	
IM10	Sunny	Moderate	16:06	7.8	Surface	1.0	0.3	306	26.2	26.2	7.9	7.9	22.5	22.5	79.8	79.8	5.7	5.7	3.6	4.1	4	5	74	76	822236	809853	<0.2	<0.2	2.5	2.7
						1.0	0.3	324	26.2		7.9		22.5		79.8		5.7		3.6		4		74				<0.2		2.8	
					Middle	3.9	0.1	286	25.9	25.9	7.9	7.9	24.0	24.0	78.9	78.9	5.6		5.2		3		76				<0.2		2.7	
						3.9	0.1	313	25.9		7.9		24.0		78.9		5.6		5.2		4		75				<0.2		2.9	
					Bottom	6.8	0.2	266	25.9	25.9	7.9	7.9	24.1	24.1	79.5	79.5	5.6	5.6	3.6		6		77				<0.2		2.8	
						6.8	0.2	283	25.9		7.9		24.1		79.5		5.6		3.6		6		77				<0.2		2.5	
IM11	Sunny	Moderate	16:11	7.0	Surface	1.0	0.3	291	26.2	26.2	7.9	7.9	22.4	22.4	79.5	79.5	5.7	5.7	4.0	4.5	4	5	74	76	821502	810525	<0.2	<0.2	3.1	2.7
						1.0	0.3	310	26.2		7.9		22.4		79.5		5.7		4.0		3		73				<0.2		3.0	
					Middle	3.5	0.1	286	25.9	25.9	7.9	7.9	24.0	24.0	78.9	78.9	5.6		5.5		3		76				<0.2		3.1	
						3.5	0.1	308	25.9		7.9		24.0		78.9		5.6		5.5		5		76				<0.2		2.9	
					Bottom	6.0	0.1	277	26.0	26.0	7.9	7.9	24.0	24.0	79.4	79.4	5.6	5.6	3.9		5		77				<0.2		2.2	
						6.0	0.1	282	26.0		7.9		24.0		79.4		5.6		3.8		7		77				<0.2		2.1	
IM12	Sunny	Moderate	16:17	6.3	Surface	1.0	0.2	300	26.2	26.2	7.9	7.9	21.1	21.1	79.4	79.4	5.7	5.7	3.9	4.6	5	5	74	75	821161	811528	<0.2	<0.2	2.1	2.7
						1.0	0.2	307	26.2		7.9		21.1		79.4		5.7		3.9		6		74				<0.2		2.2	
					Middle	3.2	0.2	272	25.8	25.8	7.9	7.9	24.8	24.8	79.5	79.5	5.6		4.6		5		75				<0.2		3.0	
						3.2	0.2	280	25.8		7.9		24.8		79.5		5.6		4.6		5		76				<0.2		2.8	
					Bottom	5.3	0.1	262	25.7	25.7	7.9	7.9	25.0	25.0	81.0	81.0	5.7	5.7	5.4		6		77				<0.2		3.2	
						5.3	0.1	263	25.7		7.9		25.0		81.0		5.7		5.4		5		76				<0.2		3.1	
IM13	Sunny	Moderate	15:49	6.4	Surface	1.0	0.6	22	26.2	26.2	7.9	7.9	23.0	23.0	82.1	82.1	5.8	5.8	7.1	9.5	4	5	-	-	820828	805825	-	-	-	-
						1.0	0.6	24	26.2		7.9		23.0		82.1		5.8		7.0		4		-				-		-	
					Middle	3.2	0.5	26	25.9	25.9	8.0	8.0	24.9	24.9	81.5	81.5	5.8		9.6		5		-				-		-	
						3.2	0.6	27	25.9		8.0		24.9		81.5		5.8		9.5		5		-				-		-	
					Bottom	5.4	0.4	26	25.8	25.8	8.0	8.0	25.8	25.8	81.9	81.9	5.8	5.8	11.7		6		-				-		-	
						5.4	0.4	27	25.8		8.0		25.8		81.9		5.8		11.9		4		-				-		-	
SR2	Foggy	Moderate	16:44	5.1	Surface	1.0	0.9	298	26.1	26.1	7.9	7.9	25.3	25.3	87.9	87.9	6.2	6.2	5.1	5.6	5	4	74	76	821460	814166	<0.2	<0.2	1.6	1.4
						1.0	0.9	301	26.1		7.9		25.3		87.9		6.2		5.1		5		74				<0.2		1.3	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.6	297	26.0	26.0	7.9	7.9	25.9	25.9	87.7	87.7	6.2	6.2	6.0		3		77				<0.2		1.4	
						4.1	0.7	315	26.0		7.9		25.9		87.7		6.2		6.0		3		77				<0.2		1.2	
SR3	Sunny	Moderate	15:47	7.9	Surface	1.0	0.7	36	26.1	26.2	7.9	7.9	22.8	22.8	79.8	79.9	5.7	5.7	4.0	5.2	3	4	-	-	822140	807577	-	-	-	-
						1.0	0.8	36	26.2		7.9		22.8		79.9		5.7		4.1		3		-				-		-	
					Middle	4.0	0.7	29	25.9	25.9	7.9	7.9	24.1	24.1	79.4	79.4	5.6		5.3		5		-				-		-	
						4.0	0.7	30	25.9		7.9		24.1		79.3		5.6		5.5		3		-				-		-	
					Bottom	6.9	0.5	26	25.9	25.9	7.9	7.9	24.1	24.1	79.3	79.3	5.6	5.6	6.0		5		-				-		-	
						6.9	0.6	26	25.9		7.9		24.1		79.3		5.6		6.0		6		-				-		-	
SR4A	Foggy	Moderate	16:55	7.7	Surface	1.0	0.5	266	26.3	26.3	8.1	8.1	27.5	27.5	97.2	97.2	6.7	6.6	4.4	7.0	6	7	-	-	817190	807829	-	-	-	-
						1.0	0.5	272	26.3		8.1		27.5		97.2		6.7		4.5		6		-				-		-	
					Middle	3.9	0.4	271	26.1	26.1	8.1	8.1	27.7	27.8	93.5	93.5	6.5		5.8		6		-				-		-	
						3.9	0.4	271	26.1		8.1		27.8		93.5		6.5		6.1		7		-				-		-	
					Bottom	6.7	0.4	268	26.0	26.1	8.1	8.1	28.2	28.2	94.2	94.3	6.5	6.5	10.7		6		-				-		-	
						6.7	0.4	281	26.1		8.1		28.2		94.3		6.5		10.7		8		-				-		-	
SR5A	Foggy	Moderate	17:37	4.6	Surface	1.0	0.1	226	26.4	26.4	8.0	8.0	25.7	25.7	94.4	94.4	6.6	6.6	9.2	11.0	4	4	-	-	816575	810692	-	-	-	-
						1.0	0.1	229	26.4		8.0		25.7		94.3		6.6		9.4		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	253	26.3	26.3	8.0	8.0	26.1	26.1	94.3	94.3	6.6	6.6	12.9		4		-				-		-	
						3.6	0.1	257	26.3		8.0		26.1		94.3		6.6		12.6		4		-				-		-	
SR6	Foggy	Moderate	17:55	3.8	Surface	1.0	0.2	238	26.3	26.3	8.0	8.0	25.9	25.9	94.3	94.3	6.6	6.6	8.9	10.3	7	7	-	-	817883	814667	-	-	-	-
						1.0	0.2	254	26.3		8.0		25.9		94.2		6.6		8.7		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.1	248	26.3	26.4	8.0	8.0	26.0	26.0	94.5	94.5	6.6	6.6	11.7		7		-				-		-	
						2.8	0.1	255	26.4		8.0		26.0		94.5		6.6		11.8		6		-				-		-	
SR7	Foggy	Moderate	17:32	18.2	Surface	1.0	0.1	266	25.6	25.6	8.0	8.0	29.5	29.5	82.4	82.4	5.7	5.7	2.5	4.0	7	7	-	-	823654	823750	-	-	-	-
						1.0	0.1	270	25.6		8.0		29.5		82.4		5.7		2.4		6		-				-		-	
					Middle	9.1	0.1	298	25.6	25.6	8.0	8.0	29.6	29.6	82.1	82.2	5.7		3.9		5		-				-		-	
						9.1	0.1	303	25.6		8.0		29.6		82.2		5.7		3.9		6		-				-		-	
					Bottom	17.2	0.2	275	25.6	25.6	8.0	8.0	29.7	29.7	83.0	83.1	5.7	5.7	5.7		8		-				-		-	
						17.2	0.2	297	25.6		8.0		29.7		83.1		5.7		5.7		9		-				-		-	
SR8	Sunny	Moderate	16:25	5.5	Surface	1.0	0.9	301	26.0	26.0	7.8	7.8	25.5	25.5	87.9	87.9	6.2	6.2	5.6	5.7	6	6	-	-	820426	811612	-	-	-	-
						1.0	0.9	308	26.0		7.8		25.5		87.9		6.2		5.6		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.5	0.7	303	25.9	25.9	7.7	7.7	25.7	25.7	88.6	88.6	6.2	6.2	5.8		7		-				-		-	
						4.5	0.7	317	25.9		7.7		25.7		88.6		6.2		5.8		7		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 23 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	10:22	6.4	Surface	1.0	0.4	192	25.9	25.9	8.1	8.1	27.9	27.9	92.5	92.6	6.4	6.4	2.2	3.1	4	5	74	75	815629	804238	<0.2	<0.2	0.9	1.1
						1.0	0.4	204	25.9		8.1		27.9		92.6		6.4		2.3		3		73				<0.2		1.2	
					Middle	3.2	0.3	202	25.8	25.8	8.1	8.1	28.3	28.3	92.8	92.8	6.5		2.8		4		75				<0.2		1.2	
						3.2	0.3	202	25.8		8.1		28.3		92.8		6.4		3.0		2		76				<0.2		1.3	
					Bottom	5.4	0.2	228	25.7	25.7	8.1	8.1	30.1	30.1	92.8	92.8	6.4		4.2		6		77				<0.2		1.0	
						5.4	0.2	236	25.7		8.1		30.1		92.8		6.4		4.0		8		77				<0.2		1.1	
C2	Cloudy	Moderate	11:15	12.5	Surface	1.0	0.6	211	26.0	26.0	8.0	8.0	23.4	23.4	82.4	82.4	5.9	5.9	3.7	4.7	4	7	74	76	825662	806946	<0.2	<0.2	1.6	1.7
						1.0	0.7	222	25.9		8.0		23.4		82.4		5.9		3.8		5		74				<0.2		1.9	
					Middle	6.3	0.4	238	25.7	25.7	8.1	8.1	28.3	28.3	83.1	83.1	5.8		5.0		8		76				<0.2		1.8	
						6.3	0.4	246	25.7		8.1		28.3		83.0		5.8		5.0		8		76				<0.2		2.0	
					Bottom	11.5	0.2	314	25.7	25.7	8.1	8.1	28.9	28.9	82.8	82.8	5.7	5.7	5.3		9		77				<0.2		1.4	
						11.5	0.2	338	25.7		8.1		28.9		82.7		5.7		5.3		8		77				<0.2		1.7	
C3	Cloudy	Moderate	09:59	12.0	Surface	1.0	0.4	96	25.4	25.4	8.0	8.0	28.2	28.2	82.8	82.8	5.8	5.7	1.6	1.9	6	7	73	75	822096	817811	<0.2	<0.2	1.4	1.2
						1.0	0.4	104	25.4		8.0		28.2		82.8		5.8		1.6		7		73				<0.2		1.4	
					Middle	6.0	0.6	72	25.3	25.3	8.0	8.0	29.9	29.9	78.8	78.8	5.5		2.1		6		75				<0.2		1.0	
						6.0	0.6	76	25.3		8.0		29.9		78.8		5.5		2.1		5		75				<0.2		1.2	
					Bottom	11.0	1.0	52	25.3	25.3	8.0	8.0	30.1	30.1	79.5	79.5	5.5	5.5	2.0		8		76				<0.2		1.1	
						11.0	1.0	52	25.3		8.0		30.1		79.5		5.5		2.0		10		77				<0.2		1.1	
IM1	Cloudy	Moderate	10:34	7.5	Surface	1.0	0.2	137	25.9	25.9	8.1	8.1	27.7	27.7	94.6	94.6	6.6	6.5	2.2	2.9	4	5	73	75	818358	806460	<0.2	<0.2	1.3	1.0
						1.0	0.2	146	25.9		8.1		27.7		94.6		6.6		2.3		5		74				<0.2		1.2	
					Middle	3.8	0.2	149	25.7	25.7	8.1	8.1	29.6	29.6	93.3	93.3	6.4		2.9		4		75				<0.2		0.9	
						3.8	0.2	151	25.7		8.1		29.6		93.2		6.4		3.0		4		75				<0.2		1.0	
					Bottom	6.5	0.2	161	25.7	25.7	8.1	8.1	29.8	29.8	93.3	93.4	6.4	6.4	3.5		5		77				<0.2		0.8	
						6.5	0.2	174	25.7		8.1		29.8		93.4		6.4		3.5		5		77				<0.2		1.0	
IM2	Cloudy	Moderate	10:40	8.3	Surface	1.0	0.3	225	26.3	26.3	8.1	8.1	25.9	25.9	95.2	95.2	6.6	6.5	1.8	3.0	5	6	73	75	818850	806188	<0.2	<0.2	1.0	1.1
						1.0	0.3	238	26.2		8.1		25.9		95.2		6.7		2.0		3		74				<0.2		1.1	
					Middle	4.2	0.3	206	25.8	25.8	8.1	8.1	29.9	29.9	93.1	93.1	6.4		3.9		5		75				<0.2		1.2	
						4.2	0.3	209	25.8		8.1		29.9		93.1		6.4		3.5		7		76				<0.2		1.1	
					Bottom	7.3	0.3	208	25.7	25.7	8.1	8.1	30.0	30.0	93.6	93.6	6.4	6.4	3.5		8		77				<0.2		1.0	
						7.3	0.3	224	25.7		8.1		30.0		93.6		6.4		3.2		9		77				<0.2		1.1	
IM3	Cloudy	Moderate	10:50	7.4	Surface	1.0	0.4	195	26.0	26.0	8.1	8.1	28.3	28.3	96.4	96.4	6.7	6.6	2.2	5.6	6	7	73	76	819418	806030	<0.2	<0.2	1.2	1.1
						1.0	0.4	202	26.0		8.1		28.3		96.3		6.7		2.0		6		74				<0.2		1.0	
					Middle	3.7	0.4	186	26.0	26.0	8.1	8.1	28.6	28.6	93.6	93.6	6.5		3.6		7		76				<0.2		1.1	
						3.7	0.5	195	26.0		8.1		28.6		93.5		6.5		3.8		8		76				<0.2		1.0	
					Bottom	6.4	0.3	191	25.8	25.8	8.1	8.1	29.6	29.6	90.0	90.0	6.2	6.2	11.0		8		77				<0.2		1.2	
						6.4	0.3	197	25.8		8.1		29.6		90.0		6.2		11.1		7		77				<0.2		1.2	
IM4	Cloudy	Moderate	10:57	7.8	Surface	1.0	0.6	204	26.0	26.0	8.1	8.1	26.9	27.0	89.4	89.4	6.2	6.2	4.3	5.2	4	5	74	75	819585	805022	<0.2	<0.2	1.6	1.3
						1.0	0.6	205	26.0		8.1		27.0		89.3		6.2		4.4		3		74				<0.2		1.5	
					Middle	3.9	0.5	199	25.8	25.8	8.1	8.1	28.0	28.0	88.3	88.3	6.1		5.1		4		75				<0.2		1.4	
						3.9	0.5	204	25.8		8.1		28.0		88.3		6.2		5.2		5		75				<0.2		1.4	
					Bottom	6.8	0.3	202	25.8	25.8	8.1	8.1	29.4	29.4	89.6	89.7	6.2	6.2	6.1		6		77				<0.2		1.0	
						6.8	0.4	213	25.8		8.1		29.4		89.7		6.2		6.1		6		77				<0.2		0.9	
IM5	Cloudy	Moderate	11:05	7.0	Surface	1.0	0.6	218	26.2	26.2	8.1	8.1	25.5	25.5	90.7	90.7	6.4	6.3	3.5	5.9	6	7	74	75	820571	804911	<0.2	<0.2	1.7	1.7
						1.0	0.6	235	26.2		8.1		25.5		90.6		6.4		3.6		6		74				<0.2		2.0	
					Middle	3.5	0.5	202	26.0	26.0	8.1	8.1	25.6	25.6	88.9	88.9	6.2		5.3		8		75				<0.2		1.7	
						3.5	0.6	211	26.0		8.1		25.6		88.8		6.2		5.5		8		75				<0.2		1.6	
					Bottom	6.0	0.4	212	25.7	25.7	8.1	8.1	28.9	28.9	85.8	85.8	5.9	6.0	8.8		7		77				<0.2		1.7	
						6.0	0.4	212	25.7		8.1		28.9		85.8		6.0		8.9		9		77				<0.2		1.6	
IM6	Cloudy	Moderate	11:22	6.8	Surface	1.0	0.5	184	26.1	26.1	8.0	8.0	24.5	24.5	87.0	87.0	6.1	6.1	6.8	9.5	5	6	73	75	821048	805812	<0.2	<0.2	1.8	1.8
						1.0	0.5	187	26.1		8.0		24.5		86.9		6.1		6.7		5		73				<0.2		1.9	
					Middle	3.4	0.4	193	25.7	25.7	8.1	8.1	27.1	27.2	85.5	85.5	6.0		9.1		8		75				<0.2		2.2	
						3.4	0.4	195	25.7		8.1		27.2		85.4		6.0		9.5		6		75				<0.2		2.0	
					Bottom	5.8	0.4	188	25.7	25.7	8.1	8.1	27.9	27.9	85.9	85.9	6.0	6.0	12.3		6		77				<0.2		1.4	
						5.8	0.4	206	25.7		8.1		27.9		85.9		6.0		12.4		6		77				<0.2		1.6	
IM7	Cloudy	Moderate	11:34	7.9	Surface	1.0	0.5	229	26.1	26.1	8.0	8.0	23.7	23.7	84.9	84.9	6.0	6.0	4.1	6.1	7	6	74	76	821345	806850	<0.2	<0.2	1.8	1.9
						1.0	0.5	247	26.1		8.0		23.7		84.8		6.0		4.0		6		74				<0.2		2.1	
					Middle	4.0	0.3	233	25.7	25.7	8.1	8.1	27.2	27.2	84.6	84.7	5.9		6.3		5		76				<0.2		2.0	
						4.0	0.4	249	25.7		8.1		27.2		84.7		5.9		6.4		5		76				<0.2		2.0	
					Bottom	6.9	0.2	196	25.7	25.7	8.1	8.1	27.8	27.8	86.6	86.7	6.0	6.0	7.9		5		76				<0.2		1.6	
						6.9	0.2	201	25.7		8.1		27.8		86.7		6.0		7.9		7		77				<0.2		1.8	
IM8	Cloudy	Moderate	10:54	8.4	Surface	1.0	0.7	208	25.8	25.8	8.0	8.0	23.6	23.6	82.5	82.5	5.9	5.9	3.7	4.6	4	5	74	75	821690	807840	<0.2	<0.2	2.4	2.4
						1.0	0.7	216	25.8		8.0		23.5		82.5		5.9		3.7		4		74				<0.2		2.4	
					Middle	4.2	0.4	238	25.7	25.7	8.0	8.0	26.4	26.4	83.4	83.5	5.9		4.7		5		75				<0.2		2.5	
						4.2	0.4	260	25.7		8.0		26.4		83.5		5.9		4.8		5		75				<0.2		2.4	
					Bottom	7.4	0.2	274	25.7	25.7	8.1	8.1	28.4	28.4	83.4	83.4	5.8	5.8	5.4		8		77				<0.2		2.5	
						7.4	0.2	291	25.7		8.1		28.4		83.4		5.8		5.2		6		77				<0.2		2.2	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 23 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	10:49	7.5	Surface	1.0	0.4	137	26.0	26.0	8.0	8.0	23.5	23.5	84.0	84.0	6.0	6.0	3.3	4.2	4	7	74	75	822098	808809	<0.2	<0.2	3.3	3.2
						1.0	0.4	146	26.0		8.0		23.5		84.0		6.0		3.3		5		74				<0.2		3.2	
					Middle	3.8	0.3	101	25.6	25.6	8.0	8.0	27.1	27.1	83.7	83.7	5.9		4.4		8		75				<0.2		3.2	
						3.8	0.3	101	25.6		8.0		27.1		83.7		5.9		4.4		8		75				<0.2		3.2	
					Bottom	6.5	0.2	65	25.7	25.7	8.0	8.0	28.4	28.4	83.5	83.5	5.8	5.8	4.8		8		77				<0.2		3.2	
						6.5	0.2	66	25.7		8.0		28.4		83.5		5.8		4.8		8		77				<0.2		3.0	
IM10	Cloudy	Moderate	10:44	7.2	Surface	1.0	0.4	133	25.9	25.9	8.0	8.0	23.6	23.6	84.2	84.2	6.0	6.0	4.1	5.0	4	4	74	75	822243	809820	<0.2	<0.2	3.1	**3.3**
						1.0	0.5	142	25.9		8.0		23.6		84.2		6.0		4.1		4		74				<0.2		3.2	
					Middle	3.6	0.3	104	25.6	25.6	8.0	8.0	27.0	27.0	84.4	84.4	5.9		5.2		5		75				<0.2		3.5	
						3.6	0.3	106	25.6		8.0		27.0		84.4		5.9		5.2		4		75				<0.2		3.5	
					Bottom	6.2	0.2	95	25.6	25.6	8.0	8.0	28.2	28.2	86.1	86.1	6.0	6.0	5.8		5		77				<0.2		3.3	
						6.2	0.2	102	25.6		8.0		28.2		86.1		6.0		5.8		4		77				<0.2		3.2	
IM11	Cloudy	Moderate	10:40	8.1	Surface	1.0	0.4	129	26.0	26.0	7.9	7.9	22.9	22.9	84.0	84.0	6.0	6.0	3.1	4.9	4	5	74	76	821506	810562	<0.2	<0.2	2.7	2.7
						1.0	0.4	130	26.0		7.9		22.9		84.0		6.0		3.1		2		74				<0.2		3.0	
					Middle	4.1	0.3	105	25.6	25.6	8.0	8.0	26.4	26.4	83.4	83.4	5.9		5.5		6		75				<0.2		2.7	
						4.1	0.4	115	25.6		8.0		26.4		83.4		5.9		5.5		6		76				<0.2		3.0	
					Bottom	7.1	0.2	86	25.6	25.6	8.0	8.0	28.6	28.6	83.3	83.3	5.8	5.8	6.1		4		77				<0.2		2.5	
						7.1	0.2	89	25.6		8.0		28.6		83.3		5.8		6.1		5		77				<0.2		2.5	
IM12	Cloudy	Moderate	10:35	7.2	Surface	1.0	0.4	129	25.9	25.9	7.9	7.9	23.5	23.5	84.0	84.0	6.0	6.0	3.8	6.1	4	5	73	75	821161	811507	<0.2	<0.2	2.1	2.5
						1.0	0.4	141	25.8		7.9		23.5		84.0		6.0		3.9		3		74				<0.2		2.4	
					Middle	3.6	0.3	100	25.6	25.6	7.9	7.9	27.6	27.6	84.3	84.3	5.9		6.3		4		76				<0.2		2.7	
						3.6	0.4	105	25.6		7.9		27.6		84.3		5.9		6.3		4		75				<0.2		2.5	
					Bottom	6.2	0.2	73	25.6	25.6	7.9	7.9	28.4	28.4	84.4	84.4	5.9	5.9	8.1		7		77				<0.2		2.5	
						6.2	0.2	74	25.6		7.9		28.4		84.4		5.9		8.1		6		77				<0.2		2.6	
IM13	Cloudy	Moderate	11:18	6.9	Surface	1.0	0.6	220	26.1	26.1	8.0	8.0	24.5	24.6	87.5	87.5	6.2	6.1	5.3	9.8	2	3	-	-	820586	805917	-	-	-	-
						1.0	0.7	235	26.1		8.0		24.6		87.4		6.2		5.5		2		-				-		-	
					Middle	3.5	0.5	219	25.8	25.8	8.0	8.0	26.4	26.4	85.8	85.9	6.0		11.2		4		-				-		-	
						3.5	0.5	220	25.8		8.0		26.4		85.9		6.0		11.5		3		-				-		-	
					Bottom	5.9	0.3	219	25.8	25.9	8.1	8.1	27.6	27.6	86.9	86.9	6.1	6.1	12.8		4		-				-		-	
						5.9	0.3	239	25.9		8.1		27.6		86.9		6.1		12.5		3		-				-		-	
SR2	Cloudy	Moderate	10:14	4.5	Surface	1.0	0.7	87	25.7	25.7	7.9	7.9	24.6	24.6	84.4	84.4	6.0	6.0	3.2	3.7	7	7	73	75	821478	814147	<0.2	<0.2	1.6	1.5
						1.0	0.7	87	25.7		7.9		24.6		84.4		6.0		3.2		7		74				<0.2		1.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.4	50	25.5	25.5	7.8	7.8	25.8	25.8	84.5	84.5	6.0	6.0	4.1		7		77				<0.2		1.4	
						3.5	0.4	51	25.5		7.8		25.8		84.5		6.0		4.1		6		77				<0.2		1.2	
SR3	Cloudy	Moderate	11:02	8.5	Surface	1.0	0.7	203	26.0	26.0	8.0	8.0	23.2	23.2	83.3	83.3	5.9	5.9	4.7	5.4	8	7	-	-	822154	807555	-	-	-	-
						1.0	0.7	214	26.0		8.0		23.1		83.3		5.9		4.8		7		-				-		-	
					Middle	4.3	0.4	219	25.7	25.7	8.1	8.1	26.8	26.8	84.3	84.4	5.9		5.7		7		-				-		-	
						4.3	0.4	235	25.7		8.1		26.8		84.4		5.9		5.5		8		-				-		-	
					Bottom	7.5	0.2	307	25.7	25.7	8.1	8.1	28.7	28.7	84.9	84.9	5.9	5.9	5.8		6		-				-		-	
						7.5	0.2	325	25.7		8.1		28.7		84.9		5.9		5.9		6		-				-		-	
SR4A	Cloudy	Moderate	10:08	8.8	Surface	1.0	0.4	67	25.9	25.9	8.1	8.1	28.8	28.8	88.1	88.1	6.1	6.1	4.6	6.0	5	8	-	-	817206	807810	-	-	-	-
						1.0	0.4	68	25.9		8.1		28.8		88.0		6.1		4.5		5		-				-		-	
					Middle	4.4	0.3	70	25.7	25.7	8.1	8.1	29.7	29.7	87.7	87.7	6.1		6.4		8		-				-		-	
						4.4	0.3	74	25.7		8.1		29.7		87.7		6.1		6.3		9		-				-		-	
					Bottom	7.8	0.3	68	25.7	25.7	8.1	8.1	29.8	29.8	89.1	89.2	6.1	6.2	6.8		10		-				-		-	
						7.8	0.3	70	25.7		8.1		29.8		89.2		6.2		7.1		12		-				-		-	
SR5A	Cloudy	Moderate	09:50	5.8	Surface	1.0	0.1	137	25.7	25.7	8.1	8.1	26.7	26.7	90.3	90.3	6.3	6.3	3.0	3.6	12	12	-	-	816602	810689	-	-	-	-
						1.0	0.1	145	25.7		8.1		26.7		90.2		6.3		3.1		11		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.8	0.2	155	25.7	25.7	8.1	8.1	26.8	26.8	90.4	90.4	6.3	6.3	4.1		13		-				-		-	
						4.8	0.2	155	25.7		8.1		26.8		90.4		6.3		4.3		12		-				-		-	
SR6	Cloudy	Moderate	09:27	4.7	Surface	1.0	0.2	116	25.7	25.7	8.0	8.0	26.3	26.3	87.8	87.8	6.2	6.2	1.6	3.7	8	8	-	-	817895	814645	-	-	-	-
						1.0	0.2	122	25.7		8.0		26.3		87.8		6.2		1.8		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.1	100	25.6	25.6	8.0	8.0	26.5	26.5	90.8	90.9	6.4	6.4	5.6		8		-				-		-	
						3.7	0.1	104	25.6		8.0		26.4		91.0		6.4		5.8		9		-				-		-	
SR7	Cloudy	Moderate	09:27	14.6	Surface	1.0	0.2	92	25.4	25.4	8.0	8.0	30.2	30.2	80.0	80.0	5.5	5.5	1.1	1.8	3	4	-	-	823654	823737	-	-	-	-
						1.0	0.2	95	25.4		8.0		30.2		80.0		5.5		1.2		4		-				-		-	
					Middle	7.3	0.1	60	25.4	25.4	8.0	8.0	30.3	30.3	79.7	79.7	5.5		1.5		4		-				-		-	
						7.3	0.1	62	25.4		8.0		30.3		79.7		5.5		1.6		3		-				-		-	
					Bottom	13.6	0.1	113	25.4	25.4	8.0	8.0	30.3	30.3	80.0	80.1	5.5	5.5	2.6		5		-				-		-	
						13.6	0.1	121	25.4		8.0		30.3		80.1		5.5		2.8		5		-				-		-	
SR8	Cloudy	Moderate	10:27	5.4	Surface	1.0	0.7	80	25.8	25.8	7.9	7.9	24.6	24.6	83.5	83.5	5.9	5.9	2.8	3.3	5	7	-	-	820432	811612	-	-	-	-
						1.0	0.8	81	25.8		7.9		24.6		83.4		5.9		2.7		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.4	53	25.5	25.5	7.9	7.9	27.4	27.4	82.8	82.8	5.8	5.8	3.9		8		-				-		-	
						4.4	0.4	53	25.5		7.9		27.4		82.8		5.8		3.9		8		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 25 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	18:49	7.6	Surface	1.0	0.3	62	26.3	26.3	8.0	8.0	23.5	23.5	87.0	87.1	6.2	6.2	6.3	7.2	10	12	73	75	815634	804266	<0.2	<0.2	2.1	2.3
						1.0	0.3	62	26.3		8.0		23.5		87.1		6.2		6.2		10		73				<0.2		2.0	
					Middle	3.8	0.3	58	26.2	26.2	8.1	8.1	25.5	25.5	88.8	88.8	6.2		7.9		12		75				<0.2		2.5	
						3.8	0.3	60	26.2		8.1		25.5		88.8		6.2		7.7		14		75				<0.2		2.6	
					Bottom	6.6	0.3	65	26.1	26.1	8.1	8.1	26.1	26.1	91.1	91.2	6.4	6.4	7.4		11		76				<0.2		2.1	
						6.6	0.3	69	26.1		8.1		26.1		91.3		6.4		7.4		13		76				<0.2		2.3	
C2	Cloudy	Moderate	17:56	12.6	Surface	1.0	1.2	16	26.3	26.3	7.8	7.8	17.9	17.9	75.5	75.5	5.5	5.5	5.1	12.3	4	8	67	73	825667	806934	<0.2	<0.2	3.1	2.8
						1.0	1.2	16	26.3		7.8		17.9		75.5		5.5		5.1		6		68				<0.2		3.0	
					Middle	6.3	0.8	16	26.2	26.2	7.9	7.9	20.8	20.8	76.9	76.9	5.5		12.8		3		74				<0.2		3.3	
						6.3	0.9	17	26.2		7.9		20.8		76.9		5.5		12.8		4		73				<0.2		3.2	
					Bottom	11.6	0.3	12	26.0	26.0	7.9	7.9	22.9	22.9	79.2	79.2	5.6	5.6	19.0		16		77				<0.2		2.1	
						11.6	0.4	12	26.0		7.9		22.9		79.2		5.6		19.0		17		76				<0.2		2.2	
C3	Cloudy	Moderate	19:38	13.0	Surface	1.0	0.4	247	26.2	26.2	8.0	8.0	24.0	24.0	84.8	84.8	6.0	5.9	3.3	9.4	9	9	73	76	822104	817788	<0.2	<0.2	1.5	1.5
						1.0	0.4	250	26.2		8.0		24.0		84.8		6.0		3.3		11		73				<0.2		1.6	
					Middle	6.5	0.6	260	26.1	26.1	8.0	8.0	25.1	25.1	82.2	82.2	5.8		7.1		8		75				<0.2		1.3	
						6.5	0.7	268	26.1		8.0		25.1		82.2		5.8		7.1		9		76				<0.2		1.5	
					Bottom	12.0	0.5	277	25.7	25.7	8.0	8.0	27.5	27.5	82.0	82.0	5.7	5.7	17.8		8		78				<0.2		1.4	
						12.0	0.6	282	25.7		8.0		27.5		82.0		5.7		17.8		6		79				<0.2		1.5	
IM1	Cloudy	Moderate	18:30	6.4	Surface	1.0	0.2	26	26.3	26.3	8.0	8.0	24.0	24.0	87.1	87.2	6.1	6.2	5.4	5.5	10	9	73	75	818341	806447	<0.2	<0.2	1.7	1.8
						1.0	0.3	27	26.3		8.0		24.0		87.2		6.2		5.5		9		73				<0.2		1.7	
					Middle	3.2	0.1	27	26.3	26.3	8.0	8.0	24.6	24.6	87.7	87.7	6.2		5.6		8		75				<0.2		1.8	
						3.2	0.1	27	26.3		8.0		24.6		87.7		6.2		5.6		8		75				<0.2		1.9	
					Bottom	5.4	0.1	1	26.2	26.2	8.0	8.0	24.8	24.8	88.3	88.3	6.2	6.2	5.4		9		76				<0.2		1.8	
						5.4	0.1	1	26.2		8.0		24.8		88.3		6.2		5.5		9		76				<0.2		2.0	
IM2	Cloudy	Moderate	18:19	7.1	Surface	1.0	0.6	25	26.4	26.4	8.0	8.0	22.2	22.2	84.5	84.5	6.0	6.1	5.4	6.1	14	14	73	75	818848	806205	<0.2	<0.2	2.2	2.5
						1.0	0.7	25	26.4		8.0		22.2		84.5		6.0		5.4		16		73				<0.2		2.1	
					Middle	3.6	0.6	27	26.4	26.4	8.0	8.0	22.3	22.4	85.5	85.5	6.1		6.1		15		75				<0.2		2.5	
						3.6	0.6	29	26.4		8.0		22.4		85.5		6.1		6.1		14		75				<0.2		2.6	
					Bottom	6.1	0.3	24	26.1	26.1	8.0	8.1	25.5	25.6	88.5	88.6	6.2	6.2	6.6		14		76				<0.2		2.8	
						6.1	0.3	25	26.1		8.1		25.7		88.6		6.2		6.8		12		76				<0.2		2.9	
IM3	Cloudy	Moderate	18:10	7.4	Surface	1.0	0.4	29	26.5	26.5	7.9	7.9	21.3	21.3	82.6	82.6	5.9	5.9	8.5	10.5	18	18	73	75	819425	806019	<0.2	<0.2	2.8	2.8
						1.0	0.4	30	26.5		7.9		21.3		82.6		5.9		8.6		21		73				<0.2		3.1	
					Middle	3.7	0.5	25	26.5	26.5	7.9	7.9	21.6	21.6	83.0	83.0	5.9		9.1		15		75				<0.2		2.7	
						3.7	0.5	26	26.5		7.9		21.6		83.0		5.9		9.2		17		75				<0.2		2.9	
					Bottom	6.4	0.4	25	26.5	26.5	7.9	7.9	21.6	21.6	85.5	85.6	6.1	6.1	13.8		17		76				<0.2		2.8	
						6.4	0.4	26	26.5		7.9		21.6		85.7		6.1		13.7		17		76				<0.2		2.6	
IM4	Cloudy	Moderate	18:02	6.8	Surface	1.0	0.4	21	26.5	26.5	8.0	8.0	21.5	21.5	81.1	81.1	5.8	5.8	8.4	10.3	14	17	73	75	819568	805051	<0.2	<0.2	2.6	2.5
						1.0	0.5	21	26.5		8.0		21.5		81.1		5.8		8.5		16		73				<0.2		2.6	
					Middle	3.4	0.4	28	26.4	26.4	8.0	8.0	21.5	21.5	80.9	80.9	5.8		9.2		17		75				<0.2		2.6	
						3.4	0.4	30	26.4		8.0		21.5		80.9		5.8		9.3		16		75				<0.2		2.4	
					Bottom	5.8	0.3	28	26.4	26.4	8.0	8.0	21.5	21.5	81.0	81.0	5.8	5.8	13.2		21		76				<0.2		2.3	
						5.8	0.3	29	26.4		8.0		21.5		81.0		5.8		13.3		18		77				<0.2		2.4	
IM5	Cloudy	Moderate	17:54	6.3	Surface	1.0	0.7	25	26.5	26.5	8.0	8.0	21.5	21.5	81.2	81.2	5.8	5.8	8.3	10.1	25	21	73	75	820551	804925	<0.2	<0.2	2.2	2.5
						1.0	0.7	25	26.5		8.0		21.5		81.2		5.8		8.3		24		73				<0.2		2.6	
					Middle	3.2	0.6	21	26.4	26.4	8.0	8.0	21.5	21.5	80.9	80.9	5.8		9.9		22		75				<0.2		2.4	
						3.2	0.7	21	26.4		8.0		21.5		80.9		5.8		10.0		20		75				<0.2		2.4	
					Bottom	5.3	0.5	22	26.4	26.4	8.0	8.0	21.6	21.6	80.9	80.9	5.8	5.8	12.2		19		76				<0.2		2.7	
						5.3	0.5	23	26.4		8.0		21.6		80.9		5.8		12.1		18		76				<0.2		2.4	
IM6	Cloudy	Moderate	17:37	6.0	Surface	1.0	0.8	23	26.4	26.4	8.0	8.0	21.5	21.5	81.3	81.3	5.8	5.8	9.2	9.8	21	21	73	75	821070	805840	<0.2	<0.2	2.2	2.4
						1.0	0.8	24	26.4		8.0		21.5		81.3		5.8		9.2		20		73				<0.2		2.3	
					Middle	3.0	0.8	26	26.4	26.4	8.0	8.0	21.6	21.6	81.2	81.2	5.8		9.7		22		75				<0.2		2.4	
						3.0	0.8	26	26.4		8.0		21.6		81.2		5.8		9.8		24		76				<0.2		2.5	
					Bottom	5.0	0.7	26	26.4	26.4	8.0	8.0	21.6	21.6	81.3	81.3	5.8	5.8	10.5		21		76				<0.2		2.3	
						5.0	0.7	28	26.4		8.0		21.6		81.3		5.8		10.3		20		76				<0.2		2.4	
IM7	Cloudy	Moderate	17:27	6.1	Surface	1.0	1.0	22	26.4	26.4	8.0	8.0	21.5	21.5	81.8	81.9	5.8	5.9	9.3	10.7	19	20	73	75	821348	806824	<0.2	<0.2	2.4	2.4
						1.0	1.0	22	26.4		8.0		21.5		81.9		5.8		9.2		18		73				<0.2		2.3	
					Middle	3.1	0.9	28	26.4	26.4	8.0	8.0	21.6	21.6	82.5	82.5	5.9		10.7		21		75				<0.2		2.3	
						3.1	1.0	29	26.4		8.0		21.6		82.5		5.9		10.6		23		75				<0.2		2.2	
					Bottom	5.1	0.9	22	26.4	26.4	8.0	8.0	21.6	21.6	84.5	84.6	6.0	6.0	12.1		19		76				<0.2		2.5	
						5.1	0.9	22	26.4		8.0		21.6		84.6		6.0		12.3		21		76				<0.2		2.4	
IM8	Cloudy	Moderate	18:21	7.0	Surface	1.0	0.6	269	26.5	26.5	7.8	7.8	18.2	18.2	77.3	77.3	5.6	5.6	6.6	13.3	5	8	69	73	821679	807851	<0.2	<0.2	3.4	**3.3**
						1.0	0.6	269	26.5		7.8		18.2		77.3		5.6		6.6		7		70				<0.2		3.7	
					Middle	3.5	0.5	280	26.3	26.3	7.9	7.9	21.5	21.5	77.2	77.2	5.5		13.8		7		74				<0.2		3.4	
						3.5	0.5	285	26.3		7.9		21.5		77.2		5.5		13.8		5		73				<0.2		3.4	
					Bottom	6.0	0.5	280	26.2	26.2	7.9	7.9	22.4	22.4	78.1	78.1	5.6	5.6	19.6		13		76				<0.2		2.7	
						6.0	0.5	292	26.2		7.9		22.4		78.1		5.6		19.6		11		77				<0.2		3.0	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 25 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	18:28	6.3	Surface	1.0	0.4	285	26.5	26.5	7.8	7.8	18.6	18.6	77.8	77.8	5.6	5.6	6.4	9.9	11	10	71	74	822085	808828	<0.2	<0.2	3.2	2.8
						1.0	0.4	295	26.5		7.8		18.6		77.8		5.6		6.4		9		70				<0.2		3.2	
					Middle	3.2	0.3	284	26.2	26.2	7.9	7.9	22.6	22.6	77.8	77.8	5.5		10.5		8		75				<0.2		3.0	
						3.2	0.3	297	26.2		7.9		22.6		77.8		5.5		10.5		6		75				<0.2		2.9	
					Bottom	5.3	0.2	286	26.2	26.2	7.9	7.9	22.9	22.9	79.7	79.7	5.7	5.7	12.7		12		77				<0.2		2.3	
						5.3	0.2	290	26.2		7.9		22.9		79.7		5.7		12.7		11		78				<0.2		2.3	
IM10	Cloudy	Moderate	18:36	7.8	Surface	1.0	0.2	263	26.4	26.4	7.8	7.8	20.8	20.8	78.2	78.2	5.6	5.6	5.4	11.0	6	11	70	74	822254	809824	<0.2	<0.2	3.3	3.1
						1.0	0.2	277	26.4		7.8		20.8		78.2		5.6		5.4		7		71				<0.2		3.3	
					Middle	3.9	0.3	265	26.4	26.4	7.9	7.9	21.8	21.8	78.0	78.0	5.6		8.7		8		74				<0.2		3.0	
						3.9	0.3	270	26.4		7.9		21.8		78.0		5.6		8.7		6		75				<0.2		2.8	
					Bottom	6.8	0.2	269	26.3	26.3	7.9	7.9	22.3	22.3	81.1	81.1	5.8	5.8	18.8		18		77				<0.2		3.1	
						6.8	0.2	275	26.3		7.9		22.3		81.1		5.8		18.8		21		76				<0.2		2.9	
IM11	Cloudy	Moderate	18:46	7.0	Surface	1.0	0.2	289	26.4	26.4	7.9	7.9	21.1	21.1	78.6	78.6	5.6	5.6	7.8	11.7	9	10	72	75	821494	810556	<0.2	<0.2	3.5	3.1
						1.0	0.2	303	26.4		7.9		21.1		78.6		5.6		7.8		10		72				<0.2		3.4	
					Middle	3.5	0.2	285	26.3	26.3	7.9	7.9	22.1	22.1	78.8	78.8	5.6		9.1		9		75				<0.2		3.0	
						3.5	0.2	294	26.3		7.9		22.1		78.8		5.6		9.1		11		74				<0.2		3.0	
					Bottom	6.0	0.2	290	26.3	26.3	7.9	7.9	22.6	22.6	79.8	79.8	5.7	5.7	18.3		11		77				<0.2		3.0	
						6.0	0.2	295	26.3		7.9		22.6		79.8		5.7		18.3		9		78				<0.2		2.8	
IM12	Cloudy	Moderate	18:54	7.4	Surface	1.0	0.3	289	26.4	26.4	7.9	7.9	21.5	21.5	81.4	81.4	5.8	5.9	5.4	9.1	9	7	73	75	821181	811528	<0.2	<0.2	2.7	2.5
						1.0	0.3	303	26.4		7.9		21.5		81.4		5.8		5.4		7		72				<0.2		2.7	
					Middle	3.7	0.3	285	26.3	26.3	8.0	8.0	22.5	22.5	82.8	82.8	5.9		8.5		6		75				<0.2		2.5	
						3.7	0.4	286	26.3		8.0		22.5		82.8		5.9		8.5		4		76				<0.2		2.3	
					Bottom	6.4	0.3	278	26.3	26.3	8.0	8.0	23.7	23.7	84.2	84.2	6.0	6.0	13.5		7		77				<0.2		2.3	
						6.4	0.4	301	26.3		8.0		23.7		84.2		6.0		13.5		8		78				<0.2		2.4	
IM13	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
SR2	Cloudy	Moderate	19:15	4.8	Surface	1.0	0.2	293	26.2	26.2	8.0	8.0	23.2	23.2	83.0	83.0	5.9	5.9	8.2	9.3	5	4	74	76	821468	814156	<0.2	<0.2	2.1	2.1
						1.0	0.2	319	26.2		8.0		23.2		83.0		5.9		8.2		4		73				<0.2		2.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.2	282	26.1	26.1	8.0	8.0	24.2	24.2	84.4	84.4	6.0	6.0	10.3		3		78				<0.2		2.1	
						3.8	0.2	285	26.1		8.0		24.2		84.4		6.0		10.3		4		78				<0.2		2.2	
SR3	Cloudy	Moderate	18:12	8.7	Surface	1.0	0.8	14	26.3	26.3	7.9	7.9	21.2	21.2	76.9	76.9	5.5	5.5	9.5	22.3	5	7	-	-	822134	807590	-	-	-	-
						1.0	0.8	14	26.3		7.9		21.2		76.9		5.5		9.5		4		-				-		-	
					Middle	4.4	0.5	14	26.1	26.1	7.9	7.9	22.6	22.6	76.8	76.8	5.5		22.5		5		-				-		-	
						4.4	0.6	15	26.1		7.9		22.6		76.8		5.5		22.5		7		-				-		-	
					Bottom	7.7	0.4	24	26.1	26.1	7.9	7.9	23.0	23.0	76.9	76.9	5.5	5.5	35.0		11		-				-		-	
						7.7	0.4	26	26.1		7.9		23.0		76.9		5.5		35.0		9		-				-		-	
SR4A	Cloudy	Moderate	19:10	7.7	Surface	1.0	0.4	291	26.3	26.3	8.0	8.0	23.8	23.8	89.0	89.1	6.3	6.4	7.4	8.6	15	15	-	-	817169	807815	-	-	-	-
						1.0	0.5	319	26.3		8.0		23.8		89.1		6.3		7.4		15		-				-		-	
					Middle	3.9	0.4	296	26.3	26.3	8.0	8.0	23.9	23.9	90.4	90.5	6.4		8.3		19		-				-		-	
						3.9	0.4	313	26.3		8.0		23.9		90.6		6.4		8.4		17		-				-		-	
					Bottom	6.7	0.3	294	26.3	26.3	8.0	8.0	23.9	23.9	93.7	93.9	6.6	6.6	10.1		13		-				-		-	
						6.7	0.3	294	26.3		8.0		23.9		94.0		6.6		10.2		12		-				-		-	
SR5A	Cloudy	Moderate	19:30	5.7	Surface	1.0	0.4	319	26.3	26.3	8.0	8.0	23.7	23.7	87.9	87.9	6.2	6.2	7.7	7.9	13	12	-	-	816595	810700	-	-	-	-
						1.0	0.4	337	26.3		8.0		23.7		87.9		6.2		7.8		13		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.7	0.2	317	26.3	26.3	8.0	8.0	23.7	23.7	90.4	90.4	6.4	6.4	7.9		10		-				-		-	
						4.7	0.3	317	26.3		8.0		23.7		90.4		6.4		8.0		10		-				-		-	
SR6	Cloudy	Moderate	19:56	4.0	Surface	1.0	0.2	271	26.4	26.4	8.0	8.0	23.5	23.5	87.0	87.1	6.1	6.2	8.8	9.6	9	12	-	-	817894	814680	-	-	-	-
						1.0	0.2	274	26.4		8.0		23.5		87.1		6.2		8.5		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.2	263	26.4	26.4	8.0	8.0	23.6	23.6	87.6	87.6	6.2	6.2	10.5		13		-				-		-	
						3.0	0.2	271	26.4		8.0		23.6		87.6		6.2		10.6		15		-				-		-	
SR7	Cloudy	Moderate	20:15	16.5	Surface	1.0	0.2	49	25.9	25.9	8.0	8.0	26.3	26.3	80.6	80.6	5.7	5.7	4.7	7.3	11	11	-	-	823616	823729	-	-	-	-
						1.0	0.2	51	25.9		8.0		26.3		80.6		5.7		4.7		10		-				-		-	
					Middle	8.3	0.0	12	25.8	25.8	8.0	8.0	27.9	27.9	79.7	79.7	5.6		6.0		11		-				-		-	
						8.3	0.0	13	25.8		8.0		27.9		79.7		5.6		6.1		13		-				-		-	
					Bottom	15.5	0.1	99	25.7	25.7	8.0	8.0	29.1	29.1	80.4	80.4	5.6	5.6	11.1		9		-				-		-	
						15.5	0.1	105	25.7		8.0		29.1		80.4		5.6		11.1		9		-				-		-	
SR8	Cloudy	Moderate	19:00	5.4	Surface	1.0	0.2	350	26.5	26.5	7.9	7.9	21.2	21.2	77.0	77.0	5.5	5.5	3.8	4.6	4	7	-	-	820432	811575	-	-	-	-
						1.0	0.2	353	26.5		7.9		21.2		77.0		5.5		3.8		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.2	298	26.5	26.5	7.8	7.8	21.3	21.3	74.5	74.5	5.3	5.3	5.4		10		-				-		-	
						4.4	0.2	304	26.5		7.8		21.3		74.5		5.3		5.4		8		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 25 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
C1	Cloudy	Moderate	11:52	8.4	Surface	1.0	0.9	194	26.8	26.8	8.1	8.1	26.3	26.3	97.3	97.3	6.7	6.7	4.2	7.7	3	5	73	75	815629	804256	<0.2	<0.2	1.9	1.9
						1.0	1.0	198	26.8		8.1		26.3		97.3		6.7		4.4		5		73				<0.2		2.0	
					Middle	4.2	0.8	193	26.3	26.3	8.1	8.1	28.4	28.4	96.2	96.2	6.6		8.6		4		75				<0.2		1.8	
						4.2	0.8	209	26.3		8.1		28.4		96.2		6.6		8.8		6		76				<0.2		2.0	
					Bottom	7.4	0.6	204	26.0	26.0	8.1	8.1	29.0	29.0	94.0	94.0	6.5	6.5	10.1		4		76				<0.2		1.8	
						7.4	0.6	208	26.0		8.1		29.0		94.0		6.5		10.2		6		76				<0.2		2.0	
C2	Cloudy	Moderate	13:57	12.4	Surface	1.0	1.1	167	26.6	26.6	7.9	7.9	20.1	20.1	81.2	81.2	5.8	5.7	4.6	11.2	8	10	70	74	825688	806928	<0.2	<0.2	3.6	2.9
						1.0	1.2	172	26.6		7.9		20.1		81.2		5.8		4.6		8		70				<0.2		3.2	
					Middle	6.2	0.6	164	26.1	26.1	8.0	8.0	23.6	23.6	78.5	78.5	5.6		11.6		8		74				<0.2		3.2	
						6.2	0.6	173	26.1		8.0		23.6		78.5		5.6		11.6		8		74				<0.2		3.0	
					Bottom	11.4	0.2	150	25.8	25.8	8.0	8.0	26.9	26.9	77.9	77.9	5.5	5.5	17.3		13		78				<0.2		2.2	
						11.4	0.3	153	25.8		8.0		26.9		77.9		5.5		17.3		15		76				<0.2		2.4	
C3	Cloudy	Moderate	11:37	11.9	Surface	1.0	0.5	101	26.1	26.1	8.0	8.0	26.0	26.0	82.8	82.8	5.8	5.8	3.5	3.6	12	7	73	76	822124	817812	<0.2	<0.2	2.2	2.1
						1.0	0.5	104	26.1		8.0		26.0		82.8		5.8		3.5		14		74				<0.2		2.3	
					Middle	6.0	0.4	78	25.9	25.9	8.0	8.0	27.1	27.1	82.2	82.2	5.7		3.2		4		76				<0.2		2.2	
						6.0	0.4	78	25.9		8.0		27.1		82.2		5.7		3.2		4		77				<0.2		2.0	
					Bottom	10.9	0.3	72	25.6	25.6	8.0	8.0	29.4	29.4	83.2	83.2	5.8	5.8	4.1		4		79				<0.2		1.8	
						10.9	0.3	72	25.6		8.0		29.4		83.2		5.8		4.1		6		78				<0.2		1.8	
IM1	Cloudy	Moderate	12:19	6.8	Surface	1.0	1.0	177	26.5	26.5	8.0	8.0	23.8	23.8	90.6	90.6	6.4	6.4	5.8	8.4	6	7	73	74	818354	806444	<0.2	<0.2	2.4	2.4
						1.0	1.0	179	26.5		8.0		23.7		90.6		6.4		5.8		5		73				<0.2		2.4	
					Middle	3.4	0.7	168	26.1	26.1	8.1	8.1	27.1	27.1	90.3	90.3	6.3		9.5		8		73				<0.2		2.5	
						3.4	0.7	177	26.1		8.1		27.0		90.3		6.3		9.6		8		73				<0.2		2.3	
					Bottom	5.8	0.4	158	26.0	26.0	8.1	8.1	28.1	28.1	90.4	90.4	6.3	6.3	9.7		8		75				<0.2		2.3	
						5.8	0.4	172	26.0		8.1		28.1		90.4		6.3		9.7		9		75				<0.2		2.5	
IM2	Cloudy	Moderate	12:26	7.9	Surface	1.0	1.0	200	26.4	26.4	8.1	8.1	24.0	24.0	90.4	90.4	6.4	6.4	7.2	9.1	8	10	73	75	818852	806198	<0.2	<0.2	2.6	2.2
						1.0	1.0	202	26.4		8.1		24.0		90.4		6.4		7.4		6		73				<0.2		2.4	
					Middle	4.0	0.7	185	26.1	26.1	8.1	8.1	26.8	26.8	90.6	90.6	6.3		9.4		10		75				<0.2		2.0	
						4.0	0.8	201	26.1		8.1		26.8		90.6		6.3		9.4		8		75				<0.2		2.1	
					Bottom	6.9	0.6	178	26.0	26.0	8.1	8.1	27.7	27.7	90.9	90.9	6.3	6.3	10.6		12		76				<0.2		2.0	
						6.9	0.6	195	26.0		8.1		27.7		90.9		6.3		10.7		13		76				<0.2		1.8	
IM3	Cloudy	Moderate	12:36	7.7	Surface	1.0	0.9	191	26.3	26.3	8.0	8.0	24.5	24.6	88.9	89.0	6.3	6.3	11.4	10.5	8	14	73	75	819391	806034	<0.2	<0.2	2.5	2.4
						1.0	0.9	203	26.3		8.0		24.6		89.0		6.3		11.6		9		73				<0.2		2.4	
					Middle	3.9	0.7	198	26.1	26.1	8.1	8.1	26.0	26.0	90.0	90.1	6.3		11.6		14		75				<0.2		2.3	
						3.9	0.7	214	26.1		8.1		26.0		90.1		6.3		11.8		14		75				<0.2		2.6	
					Bottom	6.7	0.5	185	26.0	26.0	8.1	8.1	28.1	28.1	90.8	90.8	6.3	6.3	8.2		20		76				<0.2		2.5	
						6.7	0.6	196	26.0		8.1		28.1		90.8		6.3		8.1		18		76				<0.2		2.1	
IM4	Cloudy	Moderate	12:44	6.1	Surface	1.0	1.1	188	26.4	26.4	8.0	8.0	23.9	23.9	87.4	87.4	6.2	6.2	9.6	11.9	7	10	73	75	819584	805022	<0.2	<0.2	3.3	2.9
						1.0	1.2	196	26.4		8.0		23.9		87.4		6.2		9.8		7		73				<0.2		3.1	
					Middle	3.1	1.0	195	26.3	26.3	8.0	8.0	24.7	24.7	87.9	87.9	6.2		12.5		9		75				<0.2		3.0	
						3.1	1.0	208	26.3		8.0		24.7		87.9		6.2		12.4		10		75				<0.2		2.7	
					Bottom	5.1	0.7	192	26.2	26.2	8.0	8.0	26.0	26.0	88.1	88.2	6.2	6.2	13.6		13		76				<0.2		2.7	
						5.1	0.7	195	26.2		8.0		26.0		88.2		6.2		13.5		12		76				<0.2		2.6	
IM5	Cloudy	Moderate	12:51	6.4	Surface	1.0	1.1	186	26.5	26.5	8.0	8.0	22.5	22.5	86.4	86.4	6.1	6.1	7.0	11.0	14	11	73	75	820551	804933	<0.2	<0.2	3.0	3.1
						1.0	1.1	188	26.5		8.0		22.4		86.4		6.1		7.0		13		73				<0.2		3.0	
					Middle	3.2	0.9	194	26.3	26.3	8.0	8.0	24.6	24.6	87.5	87.5	6.1		12.6		8		75				<0.2		2.8	
						3.2	0.9	212	26.3		8.0		24.6		87.5		6.2		12.6		9		75				<0.2		3.0	
					Bottom	5.4	0.7	193	26.3	26.3	8.0	8.0	25.0	25.0	87.1	87.1	6.1	6.1	13.1		11		76				<0.2		3.1	
						5.4	0.7	195	26.3		8.0		25.0		87.1		6.1		13.4		10		76				<0.2		3.4	
IM6	Cloudy	Moderate	13:07	6.0	Surface	1.0	0.6	193	26.4	26.4	8.0	8.0	23.5	23.5	87.2	87.2	6.2	6.2	5.9	9.9	10	9	73	75	821071	805821	<0.2	<0.2	2.3	2.4
						1.0	0.7	206	26.4		8.0		23.5		87.2		6.2		6.0		9		73				<0.2		2.3	
					Middle	3.0	0.6	199	26.1	26.2	8.0	8.0	25.1	25.1	86.6	86.7	6.1		9.4		10		75				<0.2		2.6	
						3.0	0.7	199	26.2		8.0		25.0		86.7		6.1		9.5		9		75				<0.2		2.5	
					Bottom	5.0	0.5	220	26.0	26.0	8.1	8.1	26.2	26.2	87.5	87.5	6.1	6.1	14.3		7		76				<0.2		2.4	
						5.0	0.5	238	26.0		8.1		26.2		87.5		6.1		14.2		6		76				<0.2		2.3	
IM7	Cloudy	Moderate	13:17	7.4	Surface	1.0	1.1	191	26.4	26.4	7.9	7.9	21.3	21.3	82.8	82.8	5.9	5.9	10.3	11.5	13	14	73	75	821336	806837	<0.2	<0.2	3.0	2.8
						1.0	1.1	207	26.4		7.9		21.2		82.8		5.9		10.1		11		73				<0.2		2.9	
					Middle	3.7	0.9	203	26.2	26.2	8.0	8.0	23.2	23.2	83.3	83.3	5.9		11.1		12		75				<0.2		2.8	
						3.7	0.9	215	26.2		8.0		23.2		83.3		5.9		11.2		11		75				<0.2		2.8	
					Bottom	6.4	0.6	209	26.2	26.2	8.0	8.0	23.4	23.4	85.3	85.4	6.1	6.1	13.3		17		76				<0.2		2.6	
						6.4	0.6	220	26.2		8.0		23.4		85.4		6.1		13.1		17		76				<0.2		2.5	
IM8	Cloudy	Moderate	13:19	7.9	Surface	1.0	0.6	176	26.4	26.4	8.0	8.0	22.8	22.8	82.6	82.6	5.9	6.0	4.8	6.4	10	7	71	74	821712	807840	<0.2	<0.2	2.7	2.6
						1.0	0.6	183	26.4		8.0		22.8		82.6		5.9		4.8		8		70				<0.2		2.9	
					Middle	4.0	0.2	170	25.9	25.9	8.0	8.0	25.6	25.6	85.2	85.2	6.0		6.0		8		74				<0.2		2.8	
						4.0	0.2	179	25.9		8.0		25.6		85.2		6.0		6.0		6		75				<0.2		3.0	
					Bottom	6.9	0.1	49	25.7	25.7	8.1	8.1	29.0	29.0	87.2	87.2	6.0	6.0	8.5		7		77				<0.2		2.0	
						6.9	0.1	53	25.7		8.1		29.0		87.2		6.0		8.5		5		77				<0.2		2.1	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 25 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	13:11	6.8	Surface	1.0	0.5	141	26.2	26.2	8.0	8.0	22.2	22.2	84.4	84.4	6.0	6.1	3.6	4.5	4	5	72	75	822111	808798	<0.2	<0.2	2.6	2.7
						1.0	0.5	141	26.2		8.0		22.2		84.4		6.0		3.6		4		73				<0.2		2.9	
					Middle	3.4	0.4	131	26.0	26.0	8.0	8.0	24.6	24.6	85.7	85.7	6.1		4.7		4		75				<0.2		2.9	
						3.4	0.4	137	26.0		8.0		24.6		85.7		6.1		4.7		2		76				<0.2		2.7	
					Bottom	5.8	0.1	104	25.9	25.9	8.1	8.1	26.4	26.4	87.4	87.4	6.1	6.1	5.1		7		78				<0.2		2.6	
						5.8	0.1	104	25.9		8.1		26.4		87.4		6.1		5.1		7		77				<0.2		2.6	
IM10	Cloudy	Moderate	13:03	7.0	Surface	1.0	0.6	122	26.5	26.5	8.0	8.0	22.4	22.4	85.4	85.4	6.1	6.1	5.8	5.6	3	6	73	76	822236	809849	<0.2	<0.2	2.5	2.7
						1.0	0.6	123	26.5		8.0		22.4		85.4		6.1		5.8		4		73				<0.2		2.6	
					Middle	3.5	0.5	119	26.0	26.0	8.0	8.0	24.5	24.5	86.0	86.0	6.1		5.1		5		76				<0.2		2.5	
						3.5	0.6	127	26.0		8.0		24.5		86.0		6.1		5.1		7		77				<0.2		3.0	
					Bottom	6.0	0.5	86	25.9	25.9	8.1	8.1	26.2	26.2	87.0	87.0	6.1	6.1	6.0		7		78				<0.2		2.8	
						6.0	0.5	87	25.9		8.1		26.2		87.0		6.1		6.0		8		78				<0.2		2.8	
IM11	Cloudy	Moderate	12:48	7.7	Surface	1.0	0.4	134	26.3	26.3	8.0	8.0	22.6	22.6	84.8	84.8	6.0	6.1	3.6	4.3	6	6	74	76	821518	810525	<0.2	<0.2	3.0	2.6
						1.0	0.4	139	26.3		8.0		22.6		84.8		6.0		3.6		4		73				<0.2		2.8	
					Middle	3.9	0.4	104	26.1	26.1	8.0	8.0	23.6	23.6	86.5	86.5	6.1		3.9		4		76				<0.2		2.7	
						3.9	0.5	113	26.1		8.0		23.6		86.5		6.1		3.9		6		75				<0.2		3.0	
					Bottom	6.7	0.3	72	26.0	26.0	8.1	8.1	25.0	25.0	88.1	88.1	6.2	6.2	5.5		9		78				<0.2		2.0	
						6.7	0.3	77	26.0		8.1		25.0		88.1		6.2		5.5		7		78				<0.2		2.2	
IM12	Cloudy	Moderate	12:34	9.5	Surface	1.0	0.7	112	26.3	26.3	8.0	8.0	23.2	23.2	86.5	86.5	6.1	6.1	4.2	10.0	3	5	73	76	821158	811503	<0.2	<0.2	2.8	2.7
						1.0	0.8	119	26.3		8.0		23.2		86.5		6.1		4.2		4		74				<0.2		2.5	
					Middle	4.8	0.6	95	26.1	26.1	8.0	8.0	24.6	24.6	86.1	86.1	6.1		8.6		6		76				<0.2		2.8	
						4.8	0.6	97	26.1		8.0		24.6		86.1		6.1		8.6		6		75				<0.2		3.0	
					Bottom	8.5	0.4	79	25.8	25.8	8.1	8.1	26.0	26.0	85.3	85.3	6.0	6.0	17.2		7		78				<0.2		2.5	
						8.5	0.5	82	25.8		8.1		26.0		85.3		6.0		17.2		5		79				<0.2		2.6	
IM13	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
SR2	Cloudy	Moderate	12:09	5.1	Surface	1.0	0.6	101	26.1	26.1	8.0	8.0	24.0	24.0	82.0	82.0	5.8	5.8	6.9	7.9	9	10	74	77	821462	814165	<0.2	<0.2	2.1	2.1
						1.0	0.6	102	26.1		8.0		24.0		82.0		5.8		6.9		8		77				<0.2		2.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.4	96	25.8	25.8	8.0	8.0	25.4	25.4	82.0	82.0	5.8	5.8	8.8		11		78				<0.2		2.0	
						4.1	0.5	103	25.8		8.0		25.4		82.0		5.8		8.8		12		79				<0.2		2.0	
SR3	Cloudy	Moderate	13:27	8.6	Surface	1.0	0.9	173	26.5	26.5	7.9	7.9	21.9	21.9	81.9	81.9	5.8	5.9	4.5	7.4	7	9	-	-	822149	807579	-	-	-	-
						1.0	1.0	185	26.5		7.9		21.9		81.9		5.8		4.5		6		-				-		-	
					Middle	4.3	0.5	178	25.9	25.9	8.0	8.0	25.2	25.2	84.1	84.1	5.9		7.3		10		-				-		-	
						4.3	0.6	193	25.9		8.0		25.2		84.1		5.9		7.3		12		-				-		-	
					Bottom	7.6	0.4	162	25.8	25.8	8.1	8.1	27.9	27.9	86.0	86.0	6.0	6.0	10.5		8		-				-		-	
						7.6	0.4	169	25.8		8.1		27.9		86.0		6.0		10.5		9		-				-		-	
SR4A	Cloudy	Moderate	11:32	9.6	Surface	1.0	0.2	93	26.6	26.6	8.0	8.0	25.6	25.6	91.2	91.2	6.4	6.3	3.9	5.7	6	8	-	-	817203	807826	-	-	-	-
						1.0	0.2	95	26.6		8.0		25.6		91.2		6.4		3.8		6		-				-		-	
					Middle	4.8	0.2	85	25.9	25.9	8.1	8.1	27.5	27.5	89.4	89.4	6.2		5.8		9		-				-		-	
						4.8	0.2	91	25.9		8.1		27.5		89.4		6.2		5.9		11		-				-		-	
					Bottom	8.6	0.1	129	25.8	25.8	8.1	8.1	27.7	27.7	89.3	89.4	6.2	6.2	7.4		9		-				-		-	
						8.6	0.1	131	25.8		8.1		27.7		89.4		6.2		7.5		8		-				-		-	
SR5A	Cloudy	Moderate	11:15	4.8	Surface	1.0	0.1	297	26.2	26.2	8.0	8.0	24.0	24.0	89.2	89.2	6.3	6.3	4.3	4.3	6	6	-	-	816589	810712	-	-	-	-
						1.0	0.1	308	26.2		8.0		24.0		89.2		6.3		4.4		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.0	19	26.0	26.0	8.0	8.0	25.2	25.2	90.0	90.0	6.3	6.3	4.1		7		-				-		-	
						3.8	0.0	20	26.0		8.0		25.2		90.0		6.3		4.2		7		-				-		-	
SR6	Cloudy	Moderate	10:49	4.3	Surface	1.0	0.2	80	26.9	26.9	7.9	7.9	21.1	21.1	88.7	88.7	6.3	6.3	4.5	6.2	4	5	-	-	817881	814645	-	-	-	-
						1.0	0.2	83	26.9		7.9		21.1		88.7		6.3		4.6		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.2	85	26.2	26.2	7.9	7.9	23.2	23.2	89.2	89.4	6.3	6.4	7.8		4		-				-		-	
						3.3	0.2	85	26.2		7.9		23.2		89.5		6.4		7.9		5		-				-		-	
SR7	Cloudy	Moderate	10:51	16.8	Surface	1.0	0.5	69	25.8	25.8	7.9	7.9	28.1	28.1	81.2	81.2	5.7	5.6	2.2	4.0	4	5	-	-	823647	823722	-	-	-	-
						1.0	0.6	75	25.8		7.9		28.1		81.2		5.7		2.2		2		-				-		-	
					Middle	8.4	0.3	54	25.6	25.6	7.9	7.9	29.1	29.1	79.6	79.6	5.5		4.6		7		-				-		-	
						8.4	0.3	55	25.6		7.9		29.1		79.6		5.5		4.6		4		-				-		-	
					Bottom	15.8	0.4	357	25.5	25.5	7.9	7.9	29.4	29.4	79.7	79.7	5.5	5.5	5.3		6		-				-		-	
						15.8	0.4	328	25.5		7.9		29.4		79.7		5.5		5.3		4		-				-		-	
SR8	Cloudy	Moderate	12:26	5.6	Surface	1.0	0.2	293	26.4	26.4	8.0	8.0	23.5	23.5	82.9	82.9	5.8	5.9	6.8	12.2	8	6	-	-	820424	811605	-	-	-	-
						1.0	0.2	312	26.4		8.0		23.5		82.9		5.9		6.9		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.1	124	25.8	25.8	8.0	8.0	25.3	25.3	83.2	83.2	5.9	5.9	17.6		6		-				-		-	
						4.6	0.1	124	25.8		8.0		25.3		83.2		5.9		17.6		5		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 27 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	07:00	9.3	Surface	1.0	0.5	44	25.9	25.9	8.0	8.0	26.7	26.7	90.0	90.0	6.3	6.3	2.9	7.3	4	6	74	75	815625	804250	<0.2	<0.2	1.9	1.7
						1.0	0.6	46	25.9		8.0		26.7		90.0		6.3		2.9		5		73				<0.2		2.0	
					Middle	4.7	0.5	48	25.9	25.9	8.1	8.1	28.4	28.4	90.8	90.8	6.3		7.9		5		75				<0.2		1.8	
						4.7	0.5	48	25.9		8.1		28.4		90.8		6.3		7.8		6		76				<0.2		1.8	
					Bottom	8.3	0.4	49	25.9	25.9	8.1	8.1	29.1	29.1	91.1	91.1	6.3	6.3	11.0		8		77				<0.2		1.3	
						8.3	0.4	51	25.9		8.1		29.1		91.1		6.3		11.2		10		77				<0.2		1.4	
C2	Cloudy	Moderate	07:35	12.8	Surface	1.0	0.1	347	26.1	26.1	8.0	8.0	22.4	22.4	78.7	78.7	5.6	5.6	6.1	8.2	7	8	75	77	825670	806929	<0.2	<0.2	2.3	2.3
						1.0	0.1	319	26.1		8.0		22.4		78.7		5.6		6.1		7		75				<0.2		2.2	
					Middle	6.4	0.2	15	25.9	25.9	8.0	8.0	23.7	23.7	79.1	79.1	5.6		8.4		8		76				<0.2		2.2	
						6.4	0.3	15	25.9		8.0		23.7		79.1		5.6		8.4		10		77				<0.2		2.4	
					Bottom	11.8	0.4	47	25.9	25.9	8.0	8.0	24.1	24.1	79.8	79.8	5.7	5.7	10.2		7		78				<0.2		2.2	
						11.8	0.4	48	25.9		8.0		24.1		79.8		5.7		10.2		8		78				<0.2		2.2	
C3	Cloudy	Moderate	05:57	14.3	Surface	1.0	0.4	271	25.8	25.8	8.0	8.0	26.7	26.7	80.3	80.3	5.6	5.6	3.9	8.3	5	6	77	79	822092	817820	<0.2	<0.2	1.8	1.7
						1.0	0.4	277	25.8		8.0		26.7		80.3		5.6		3.9		6		78				<0.2		1.8	
					Middle	7.2	0.5	267	25.6	25.6	8.0	8.0	29.7	29.7	80.3	80.3	5.5		8.7		4		78				<0.2		1.7	
						7.2	0.5	292	25.6		8.0		29.7		80.3		5.5		8.7		5		79				<0.2		1.7	
					Bottom	13.3	0.4	261	25.6	25.6	8.0	8.0	29.7	29.7	83.6	83.6	5.8	5.8	12.3		8		80				<0.2		1.6	
						13.3	0.4	272	25.6		8.0		29.7		83.6		5.8		12.3		7		81				<0.2		1.6	
IM1	Cloudy	Moderate	07:23	8.7	Surface	1.0	0.5	13	26.0	26.0	8.0	8.0	27.1	27.1	90.2	90.2	6.3	6.3	2.6	5.2	4	7	74	75	818352	806451	<0.2	<0.2	1.1	1.2
						1.0	0.5	14	26.0		8.0		27.1		90.2		6.3		2.6		6		74				<0.2		1.1	
					Middle	4.4	0.4	17	25.9	25.9	8.1	8.1	28.2	28.2	89.8	89.9	6.2		4.8		7		75				<0.2		1.3	
						4.4	0.4	18	25.9		8.1		28.1		89.9		6.2		4.9		7		75				<0.2		1.2	
					Bottom	7.7	0.4	24	25.9	25.9	8.1	8.1	28.1	28.1	92.6	92.6	6.4	6.4	8.1		10		77				<0.2		1.0	
						7.7	0.4	25	25.9		8.1		28.1		92.6		6.4		7.9		8		77				<0.2		1.2	
IM2	Cloudy	Moderate	07:29	9.7	Surface	1.0	0.6	28	26.0	26.0	8.1	8.1	27.6	27.6	89.9	90.0	6.2	6.2	7.5	12.5	3	10	73	75	818855	806189	<0.2	<0.2	0.9	0.9
						1.0	0.6	29	26.0		8.1		27.5		90.0		6.3		7.8		3		74				<0.2		0.9	
					Middle	4.9	0.4	29	25.9	25.9	8.1	8.1	28.9	28.9	88.9	88.9	6.1		12.9		13		75				<0.2		0.9	
						4.9	0.4	30	25.9		8.1		28.9		88.9		6.1		13.0		13		75				<0.2		0.9	
					Bottom	8.7	0.3	21	25.9	25.9	8.1	8.1	29.0	29.0	88.7	88.7	6.1	6.1	16.9		12		77				<0.2		0.8	
						8.7	0.3	21	25.9		8.1		29.0		88.7		6.1		16.7		14		77				<0.2		0.8	
IM3	Cloudy	Moderate	07:35	9.6	Surface	1.0	0.5	38	26.2	26.2	8.1	8.1	27.6	27.6	91.3	91.3	6.3	6.2	5.5	10.8	8	10	73	76	819409	806033	<0.2	<0.2	1.0	0.8
						1.0	0.5	39	26.2		8.1		27.6		91.2		6.3		5.5		6		74				<0.2		0.9	
					Middle	4.8	0.4	32	25.9	25.9	8.1	8.1	29.3	29.3	89.2	89.2	6.1		9.8		11		76				<0.2		0.8	
						4.8	0.4	34	25.9		8.1		29.3		89.2		6.1		9.8		10		76				<0.2		0.8	
					Bottom	8.6	0.3	18	25.9	25.9	8.1	8.1	29.4	29.4	89.3	89.3	6.1	6.2	16.8		13		77				<0.2		0.7	
						8.6	0.3	19	25.9		8.1		29.4		89.3		6.2		17.2		13		77				<0.2		0.7	
IM4	Cloudy	Moderate	07:40	9.0	Surface	1.0	0.3	65	26.1	26.1	8.1	8.1	27.8	27.8	89.6	89.6	6.2	6.2	6.6	11.9	8	9	74	76	819569	805034	<0.2	<0.2	1.2	1.1
						1.0	0.3	70	26.1		8.1		27.8		89.6		6.2		6.8		7		74				<0.2		1.2	
					Middle	4.5	0.3	30	25.9	25.9	8.1	8.1	29.7	29.7	90.1	90.1	6.2		12.4		6		76				<0.2		1.1	
						4.5	0.3	32	25.9		8.1		29.7		90.1		6.2		12.7		8		76				<0.2		1.0	
					Bottom	8.0	0.2	16	25.9	25.9	8.1	8.1	29.7	29.7	91.8	91.9	6.3	6.3	16.7		12		77				<0.2		0.9	
						8.0	0.2	17	25.9		8.1		29.7		91.9		6.3		16.1		10		77				<0.2		1.0	
IM5	Cloudy	Moderate	07:49	8.3	Surface	1.0	0.3	53	26.1	26.1	8.1	8.1	28.2	28.2	90.0	90.0	6.2	6.2	8.3	13.2	7	13	73	75	820566	804908	<0.2	<0.2	1.0	1.0
						1.0	0.3	56	26.1		8.1		28.2		90.0		6.2		8.1		8		73				<0.2		1.1	
					Middle	4.2	0.3	30	25.9	25.9	8.1	8.1	29.5	29.5	89.5	89.5	6.2		14.4		15		76				<0.2		1.0	
						4.2	0.3	31	25.9		8.1		29.5		89.5		6.2		14.5		16		76				<0.2		1.1	
					Bottom	7.3	0.2	28	25.9	25.9	8.1	8.1	29.5	29.5	89.6	89.6	6.2	6.2	17.0		16		77				<0.2		0.9	
						7.3	0.2	29	25.9		8.1		29.5		89.6		6.2		17.1		15		77				<0.2		1.0	
IM6	Cloudy	Moderate	07:54	8.2	Surface	1.0	0.2	65	26.2	26.2	8.1	8.1	28.0	28.0	90.5	90.5	6.3	6.3	7.5	11.4	8	9	73	75	821058	805840	<0.2	<0.2	1.0	0.9
						1.0	0.2	66	26.2		8.1		28.0		90.5		6.3		7.2		9		73				<0.2		1.0	
					Middle	4.1	0.2	46	26.2	26.2	8.1	8.1	28.5	28.5	90.4	90.4	6.2		10.6		8		75				<0.2		0.9	
						4.1	0.3	48	26.2		8.1		28.5		90.3		6.2		10.5		8		76				<0.2		0.9	
					Bottom	7.2	0.2	52	26.0	26.0	8.1	8.1	28.8	28.8	89.8	89.8	6.2	6.2	16.3		10		77				<0.2		1.0	
						7.2	0.2	55	26.0		8.1		28.8		89.8		6.2		16.1		12		76				<0.2		0.8	
IM7	Cloudy	Moderate	08:11	9.6	Surface	1.0	0.3	56	26.2	26.2	8.1	8.1	27.9	27.9	90.2	90.2	6.2	6.2	7.5	10.4	9	8	74	75	821361	806830	<0.2	<0.2	0.9	0.9
						1.0	0.3	60	26.2		8.1		27.9		90.2		6.2		7.6		7		74				<0.2		0.9	
					Middle	4.8	0.3	55	26.1	26.1	8.1	8.1	28.6	28.6	90.0	90.0	6.2		9.5		9		76				<0.2		0.8	
						4.8	0.3	55	26.1		8.1		28.6		90.0		6.2		9.6		9		75				<0.2		0.9	
					Bottom	8.6	0.3	52	26.0	26.0	8.1	8.1	28.8	28.8	89.8	89.8	6.2	6.2	14.2		8		76				<0.2		1.1	
						8.6	0.3	52	26.0		8.1		28.8		89.8		6.2		14.0		8		77				<0.2		0.9	
IM8	Cloudy	Moderate	07:12	7.7	Surface	1.0	0.4	36	25.9	25.9	8.1	8.1	26.3	26.3	85.1	85.1	6.0	6.0	6.4	7.1	4	4	76	77	821702	807856	<0.2	<0.2	1.6	1.4
						1.0	0.4	38	25.9		8.1		26.3		85.1		6.0		6.4		5		76				<0.2		1.4	
					Middle	3.9	0.3	46	25.8	25.8	8.1	8.1	26.4	26.4	85.8	85.8	6.0		7.3		4		78				<0.2		1.4	
						3.9	0.4	49	25.8		8.1		26.4		85.8		6.0		7.3		5		77				<0.2		1.4	
					Bottom	6.7	0.4	59	25.8	25.8	8.1	8.1	26.4	26.4	87.0	87.0	6.1	6.1	7.6		4		78				<0.2		1.4	
						6.7	0.5	64	25.8		8.1		26.4		87.0		6.1		7.6		4		78				<0.2		1.4	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 27 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
IM9	Cloudy	Moderate	07:04	8.1	Surface	1.0	0.2	32	26.0	26.0	8.0	8.0	22.4	22.4	80.6	80.6	5.8	5.9	5.2	9.0	<2	<2	75	77	822099	808811	<0.2	<0.2	2.1	2.1
						1.0	0.2	33	26.0		8.0		22.4		80.6		5.8		5.2		<2		75				<0.2		2.2	
					Middle	4.1	0.5	51	25.9	25.9	8.0	8.0	23.7	23.7	82.9	82.9	5.9		9.1		<2		78				<0.2		2.1	
						4.1	0.5	52	25.9		8.0		23.7		82.9		5.9		9.1		<2		77				<0.2		2.1	
					Bottom	7.1	0.3	62	25.9	25.9	8.1	8.1	26.0	26.0	83.9	83.9	5.9	5.9	12.7		<2		78				<0.2		2.0	
						7.1	0.3	64	25.9		8.1		26.0		83.9		5.9		12.7		<2		78				<0.2		2.3	
IM10	Cloudy	Moderate	06:56	9.3	Surface	1.0	0.4	19	26.0	26.0	8.0	8.0	22.9	22.9	81.3	81.3	5.8	5.9	5.4	7.6	<2	<2	76	78	822227	809821	<0.2	<0.2	2.2	2.2
						1.0	0.4	19	26.0		8.0		22.9		81.3		5.8		5.4		<2		77				<0.2		2.2	
					Middle	4.7	0.3	336	25.9	25.9	8.0	8.0	24.1	24.1	83.0	83.0	5.9		8.4		<2		78				<0.2		2.1	
						4.7	0.3	353	25.9		8.0		24.1		83.0		5.9		8.4		<2		77				<0.2		2.0	
					Bottom	8.3	0.2	327	25.9	25.9	8.0	8.0	25.0	25.0	86.9	87.0	6.1	6.2	9.1		<2		78				<0.2		2.3	
						8.3	0.2	333	25.9		8.0		25.0		87.1		6.2		8.9		<2		79				<0.2		2.1	
IM11	Cloudy	Moderate	06:48	8.8	Surface	1.0	0.2	39	25.9	25.9	8.0	8.0	23.4	23.4	80.3	80.3	5.7	5.7	4.3	6.7	<2	<2	76	77	821508	810526	<0.2	<0.2	2.2	2.0
						1.0	0.2	39	25.9		8.0		23.4		80.3		5.7		4.3		<2		77				<0.2		2.0	
					Middle	4.4	0.1	346	25.9	25.9	8.0	8.0	24.6	24.6	80.6	80.6	5.7		6.8		<2		77				<0.2		1.9	
						4.4	0.2	318	25.9		8.0		24.6		80.6		5.7		6.8		<2		77				<0.2		2.0	
					Bottom	7.8	0.3	308	25.9	25.9	8.0	8.0	25.1	25.1	81.5	81.5	5.8	5.8	8.9		<2		78				<0.2		2.1	
						7.8	0.3	329	25.9		8.0		25.1		81.5		5.8		8.9		<2		79				<0.2		1.9	
IM12	Cloudy	Moderate	06:39	9.9	Surface	1.0	0.2	239	25.9	25.9	8.0	8.0	24.8	24.8	79.5	79.5	5.6	5.6	5.8	8.3	<2	<2	77	78	821152	811519	<0.2	<0.2	1.5	1.7
						1.0	0.2	253	25.9		8.0		24.8		79.5		5.6		5.9		<2		78				<0.2		1.8	
					Middle	5.0	0.2	259	25.8	25.8	8.0	8.0	25.5	25.5	79.5	79.5	5.6		8.3		<2		78				<0.2		1.8	
						5.0	0.3	276	25.8		8.0		25.5		79.5		5.6		8.4		<2		77				<0.2		1.6	
					Bottom	8.9	0.1	263	25.9	25.9	8.0	8.0	25.9	25.9	81.1	81.1	5.7	5.7	10.8		<2		79				<0.2		1.8	
						8.9	0.1	285	25.9		8.0		25.9		81.1		5.7		10.8		<2		79				<0.2		1.8	
IM13	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
SR2	Cloudy	Moderate	06:19	5.2	Surface	1.0	0.4	303	25.8	25.8	8.0	8.0	24.6	24.6	80.9	80.9	5.7	5.7	7.9	8.5	4	5	76	77	821455	814181	<0.2	<0.2	1.7	1.7
						1.0	0.5	313	25.8		8.0		24.6		80.9		5.7		7.9		4		77				<0.2		1.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.2	291	25.8	25.8	8.0	8.0	24.9	24.9	82.4	82.4	5.8	5.8	9.0		6		78				<0.2		1.8	
						4.2	0.2	306	25.8		8.0		24.9		82.4		5.8		9.0		6		78				<0.2		1.5	
SR3	Cloudy	Moderate	07:17	9.7	Surface	1.0	0.7	37	25.8	25.8	8.0	8.0	25.9	25.9	85.1	85.1	6.0	6.0	6.7	9.6	4	4	-	-	822158	807582	-	-	-	-
						1.0	0.7	37	25.8		8.0		25.9		85.1		6.0		6.7		4		-				-		-	
					Middle	4.9	0.6	39	25.8	25.8	8.0	8.0	26.7	26.7	84.9	84.9	6.0		9.9		4		-				-		-	
						4.9	0.6	40	25.8		8.0		26.7		84.9		6.0		9.9		4		-				-		-	
					Bottom	8.7	0.5	47	25.8	25.8	8.0	8.0	27.1	27.1	85.6	85.6	6.0	6.0	12.3		4		-				-		-	
						8.7	0.6	49	25.8		8.0		27.1		85.6		6.0		12.3		4		-				-		-	
SR4A	Cloudy	Moderate	06:35	10.3	Surface	1.0	0.5	59	26.0	26.0	8.0	8.0	26.9	26.9	85.7	85.7	6.0	6.0	8.6	13.7	7	9	-	-	817188	807793	-	-	-	-
						1.0	0.5	63	26.0		8.0		26.9		85.7		6.0		8.8		6		-				-		-	
					Middle	5.2	0.5	67	25.9	25.9	8.0	8.0	27.5	27.5	85.6	85.6	6.0		15.1		10		-				-		-	
						5.2	0.5	68	25.9		8.0		27.5		85.6		6.0		15.2		9		-				-		-	
					Bottom	9.3	0.3	74	25.9	25.9	8.0	8.0	27.5	27.5	85.7	85.7	6.0	6.0	16.9		11		-				-		-	
						9.3	0.3	74	25.9		8.0		27.5		85.7		6.0		17.3		11		-				-		-	
SR5A	Cloudy	Moderate	06:10	5.9	Surface	1.0	0.1	62	25.9	25.9	7.9	7.9	24.7	24.7	83.0	83.0	5.9	5.9	2.0	3.1	<2	<2	-	-	816582	810713	-	-	-	-
						1.0	0.1	65	25.9		7.9		24.7		83.0		5.9		2.3		<2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.9	0.2	98	25.9	25.9	7.9	7.9	24.8	24.8	83.2	83.3	5.9	5.9	4.0		<2		-				-		-	
						4.9	0.2	99	25.9		7.9		24.8		83.3		5.9		4.1		<2		-				-		-	
SR6	Cloudy	Moderate	05:29	5.3	Surface	1.0	0.0	215	25.9	25.9	7.9	7.9	23.1	23.1	82.8	82.8	5.9	5.9	1.7	2.3	<2	<2	-	-	817901	814643	-	-	-	-
						1.0	0.0	231	25.9		7.9		23.1		82.8		5.9		1.7		<2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.1	144	25.9	25.9	7.8	7.8	24.3	24.3	86.5	86.6	6.1	6.1	2.8		<2		-				-		-	
						4.3	0.1	155	25.9		7.8		24.3		86.6		6.1		2.9		<2		-				-		-	
SR7	Cloudy	Moderate	05:31	16.2	Surface	1.0	0.2	94	25.7	25.7	7.9	7.9	28.2	28.2	80.3	80.3	5.6	5.6	6.0	8.7	<2	<2	-	-	823638	823760	-	-	-	-
						1.0	0.2	98	25.7		7.9		28.2		80.3		5.6		6.1		<2		-				-		-	
					Middle	8.1	0.0	164	25.6	25.6	8.0	8.0	29.7	29.7	80.6	80.6	5.6		9.3		<2		-				-		-	
						8.1	0.0	179	25.6		8.0		29.7		80.6		5.6		9.3		<2		-				-		-	
					Bottom	15.2	0.7	162	25.6	25.6	8.0	8.0	29.8	29.8	81.3	81.3	5.6	5.6	10.7		<2		-				-		-	
						15.2	0.8	162	25.6		8.0		29.8		81.3		5.6		10.7		<2		-				-		-	
SR8	Cloudy	Moderate	06:33	5.3	Surface	1.0	0.2	96	25.9	25.9	8.0	8.0	24.9	24.9	81.9	81.9	5.8	5.8	5.6	6.9	3	2	-	-	820414	811586	-	-	-	-
						1.0	0.2	105	25.9		8.0		24.9		81.9		5.8		5.6		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.3	53	25.9	25.9	8.0	8.0	25.2	25.2	86.8	86.8	6.1	6.1	8.2		2		-				-		-	
						4.3	0.3	53	25.9		8.0		25.2		86.8		6.1		8.2		2		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 27 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	13:25	9.6	Surface	1.0	0.1	167	26.1	26.1	8.1	8.1	26.8	26.8	93.0	93.0	6.5	6.4	2.9	4.9	7	6	74	75	815630	804259	<0.2	<0.2	1.8	2.0
						1.0	0.1	176	26.1		8.1		26.8		92.9		6.5		3.1		6		73				<0.2		2.1	
					Middle	4.8	0.2	210	25.9	25.9	8.1	8.1	30.3	30.3	91.9	91.9	6.3		5.1		7		75				<0.2		2.0	
						4.8	0.2	212	25.9		8.1		30.3		91.9		6.3		5.1		5		75				<0.2		2.0	
					Bottom	8.6	0.2	220	25.9	25.9	8.1	8.1	30.4	30.4	92.8	92.9	6.4	6.4	6.4		6		77				<0.2		1.9	
						8.6	0.2	225	25.9		8.1		30.4		92.9		6.4		6.5		5		76				<0.2		2.3	
C2	Cloudy	Moderate	12:19	12.1	Surface	1.0	0.1	346	26.0	26.0	8.0	8.0	22.7	22.7	78.5	78.5	5.6	5.6	5.8	5.5	7	8	75	77	825663	806944	<0.2	<0.2	3.2	3.4
						1.0	0.1	318	26.0		8.0		22.7		78.5		5.6		5.8		7		75				<0.2		3.2	
					Middle	6.1	0.2	13	25.9	25.9	8.0	8.0	23.5	23.5	79.1	79.1	5.6		5.3		8		76				<0.2		3.5	
						6.1	0.2	13	25.9		8.0		23.5		79.1		5.6		5.3		7		77				<0.2		3.2	
					Bottom	11.1	0.4	53	25.9	25.9	8.0	8.0	23.5	23.5	79.3	79.3	5.6	5.6	5.4		10		78				<0.2		3.5	
						11.1	0.5	56	25.9		8.0		23.5		79.3		5.6		5.4		10		78				<0.2		3.8	
C3	Fine	Moderate	13:52	12.2	Surface	1.0	0.2	113	26.1	26.1	8.0	8.0	26.4	26.4	83.8	83.8	5.9	5.9	2.1	2.0	4	3	78	79	822096	817792	<0.2	<0.2	2.3	2.4
						1.0	0.3	119	26.1		8.0		26.4		83.8		5.9		2.1		4		77				<0.2		2.4	
					Middle	6.1	0.1	308	26.0	26.0	8.0	8.0	27.2	27.2	83.0	83.0	5.8		1.7		3		78				<0.2		2.5	
						6.1	0.1	313	26.0		8.0		27.2		83.0		5.8		1.7		2		79				<0.2		2.6	
					Bottom	11.2	0.1	81	25.8	25.8	8.0	8.0	29.2	29.2	83.1	83.1	5.7	5.7	2.1		3		79				<0.2		2.7	
						11.2	0.1	88	25.8		8.0		29.2		83.1		5.7		2.1		3		80				<0.2		2.0	
IM1	Cloudy	Moderate	13:05	8.6	Surface	1.0	0.1	42	26.5	26.5	8.1	8.1	25.9	25.9	92.3	92.3	6.4	6.4	3.3	4.5	3	6	73	75	818336	806444	<0.2	<0.2	1.9	2.1
						1.0	0.1	43	26.5		8.1		25.9		92.3		6.4		3.2		5		74				<0.2		2.1	
					Middle	4.3	0.1	149	26.0	26.0	8.1	8.1	27.9	27.9	91.3	91.4	6.3		5.0		7		75				<0.2		2.2	
						4.3	0.1	162	26.0		8.1		27.9		91.4		6.3		4.9		7		75				<0.2		2.4	
					Bottom	7.6	0.2	117	25.9	25.9	8.1	8.1	28.9	28.9	93.1	93.2	6.4	6.4	5.4		8		77				<0.2		2.0	
						7.6	0.2	121	25.9		8.1		28.9		93.2		6.4		5.4		6		77				<0.2		2.2	
IM2	Cloudy	Moderate	13:00	9.6	Surface	1.0	0.4	73	26.2	26.2	8.1	8.1	27.2	27.2	92.7	92.7	6.4	6.4	2.6	5.6	3	3	73	75	818841	806202	<0.2	<0.2	2.1	1.9
						1.0	0.4	75	26.2		8.1		27.2		92.6		6.4		2.7		4		73				<0.2		2.3	
					Middle	4.8	0.2	60	26.0	26.0	8.1	8.1	28.6	28.6	91.9	91.9	6.3		6.1		3		75				<0.2		1.9	
						4.8	0.2	60	26.0		8.1		28.5		91.9		6.3		6.3		2		75				<0.2		1.9	
					Bottom	8.6	0.1	61	25.9	25.9	8.1	8.1	29.2	29.2	92.4	92.5	6.4	6.4	7.9		4		77				<0.2		1.5	
						8.6	0.1	63	25.9		8.1		29.2		92.5		6.4		8.2		4		76				<0.2		1.6	
IM3	Cloudy	Moderate	12:53	9.5	Surface	1.0	0.2	70	26.3	26.3	8.1	8.1	27.6	27.6	92.6	92.6	6.4	6.4	4.1	6.1	5	4	73	75	819391	806024	<0.2	<0.2	2.2	2.1
						1.0	0.2	72	26.3		8.1		27.6		92.6		6.4		4.3		4		73				<0.2		2.1	
					Middle	4.8	0.2	49	26.1	26.1	8.1	8.1	28.8	28.8	92.2	92.2	6.4		6.2		3		75				<0.2		2.1	
						4.8	0.2	50	26.1		8.1		28.8		92.2		6.3		6.3		3		75				<0.2		2.0	
					Bottom	8.5	0.1	39	26.0	26.0	8.1	8.1	29.3	29.3	92.9	93.0	6.4	6.4	7.7		4		77				<0.2		1.9	
						8.5	0.1	40	26.0		8.1		29.3		93.0		6.4		7.9		6		76				<0.2		2.0	
IM4	Cloudy	Moderate	12:46	9.0	Surface	1.0	0.2	104	26.2	26.2	8.1	8.1	28.3	28.3	90.6	90.6	6.3	6.3	6.7	11.6	8	12	73	75	819589	805023	<0.2	<0.2	1.8	1.8
						1.0	0.3	105	26.2		8.1		28.3		90.6		6.3		6.7		9		73				<0.2		2.0	
					Middle	4.5	0.1	74	25.9	25.9	8.1	8.1	29.7	29.7	90.1	90.1	6.2		11.7		10		75				<0.2		1.9	
						4.5	0.2	75	25.9		8.1		29.7		90.1		6.2		11.8		12		75				<0.2		1.7	
					Bottom	8.0	0.1	47	25.9	25.9	8.1	8.1	29.8	29.8	90.6	90.6	6.2	6.2	16.4		14		76				<0.2		1.8	
						8.0	0.1	51	25.9		8.1		29.8		90.6		6.2		16.4		16		76				<0.2		1.8	
IM5	Cloudy	Moderate	12:38	8.1	Surface	1.0	0.3	113	26.2	26.2	8.1	8.1	27.9	27.9	90.6	90.6	6.3	6.3	8.6	12.3	7	8	73	75	820576	804924	<0.2	<0.2	2.5	2.0
						1.0	0.3	123	26.2		8.1		27.9		90.6		6.3		6.4		5		73				<0.2		2.5	
					Middle	4.1	0.1	94	25.9	25.9	8.1	8.1	29.6	29.6	89.5	89.5	6.2		12.4		6		76				<0.2		1.8	
						4.1	0.2	97	25.9		8.1		29.6		89.5		6.2		12.5		8		75				<0.2		1.9	
					Bottom	7.1	0.1	68	25.9	25.9	8.1	8.1	29.6	29.6	90.2	90.4	6.2	6.2	16.9		11		77				<0.2		1.5	
						7.1	0.1	74	25.9		8.1		29.6		90.6		6.2		16.7		10		77				<0.2		1.5	
IM6	Cloudy	Moderate	12:30	8.0	Surface	1.0	0.2	62	26.1	26.1	8.1	8.1	28.1	28.1	90.2	90.2	6.2	6.2	8.8	12.8	5	6	73	75	821055	805827	<0.2	<0.2	1.9	1.8
						1.0	0.2	67	26.1		8.1		28.0		90.1		6.2		9.1		4		73				<0.2		1.8	
					Middle	4.0	0.1	55	26.0	26.0	8.1	8.1	29.2	29.2	89.5	89.5	6.2		13.0		7		76				<0.2		1.8	
						4.0	0.2	55	26.0		8.1		29.2		89.5		6.2		13.2		6		76				<0.2		1.9	
					Bottom	7.0	0.1	82	25.9	25.9	8.1	8.1	29.4	29.4	89.5	89.5	6.2	6.2	16.0		7		76				<0.2		1.6	
						7.0	0.1	89	25.9		8.1		29.4		89.5		6.2		16.8		7		77				<0.2		1.9	
IM7	Cloudy	Moderate	12:19	9.4	Surface	1.0	0.2	62	26.2	26.2	8.1	8.1	28.0	28.0	90.3	90.3	6.2	6.2	6.3	7.6	5	5	74	75	821334	806852	<0.2	<0.2	2.1	2.0
						1.0	0.2	68	26.2		8.1		28.0		90.3		6.2		6.4		6		73				<0.2		2.2	
					Middle	4.7	0.3	51	26.2	26.2	8.1	8.1	28.5	28.5	90.1	90.1	6.2		7.2		5		75				<0.2		1.9	
						4.7	0.4	55	26.2		8.1		28.5		90.0		6.2		7.1		4		76				<0.2		2.0	
					Bottom	8.4	0.3	46	26.0	26.0	8.1	8.1	28.9	28.9	89.5	89.5	6.2	6.2	9.3		4		77				<0.2		2.0	
						8.4	0.3	49	26.0		8.1		28.9		89.5		6.2		9.3		6		76				<0.2		1.8	
IM8	Cloudy	Moderate	12:41	7.8	Surface	1.0	0.5	63	26.1	26.1	8.1	8.1	26.8	26.8	86.1	86.1	6.0	6.0	6.0	9.0	9	9	75	77	821714	807856	<0.2	<0.2	1.9	1.9
						1.0	0.5	64	26.1		8.1		26.8		86.1		6.0		6.0		10		76				<0.2		2.2	
					Middle	3.9	0.5	60	25.8	25.8	8.1	8.1	27.7	27.7	85.6	85.6	6.0		8.2		9		77				<0.2		2.0	
						3.9	0.6	61	25.8		8.1		27.7		85.6		6.0		8.2		8		77				<0.2		1.8	
					Bottom	6.8	0.3	42	25.9	25.9	8.2	8.2	27.9	27.9	86.0	86.1	6.0	6.0	12.9		9		78				<0.2		1.6	
						6.8	0.4	44	25.8		8.2		27.9		86.2		6.0		12.4		8		78				<0.2		1.6	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 27 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	12:48	7.8	Surface	1.0	0.3	62	26.3	26.3	8.0	8.0	23.6	23.6	83.9	83.9	5.9	6.0	3.5	7.6	3	5	75	77	822101	808828	<0.2	<0.2	2.8	2.8
						1.0	0.3	65	26.3		8.0		23.6		83.9		5.9		3.5		5		75				<0.2		2.9	
					Middle	3.9	0.4	68	26.0	26.0	8.1	8.1	26.1	26.1	85.1	85.1	6.0		8.6		6		76				<0.2		2.8	
						3.9	0.4	68	26.0		8.1		26.1		85.1		6.0		8.6		4		77				<0.2		2.9	
					Bottom	6.8	0.3	73	25.8	25.8	8.1	8.1	26.8	26.8	84.9	84.9	5.9	5.9	10.8		5		78				<0.2		2.5	
						6.8	0.3	77	25.8		8.1		26.8		84.9		5.9		10.8		4		78				<0.2		2.7	
IM10	Cloudy	Moderate	12:55	9.7	Surface	1.0	0.1	121	26.4	26.4	8.0	8.0	23.3	23.3	81.7	81.7	5.8	5.9	5.2	7.7	6	6	75	77	822240	809850	<0.2	<0.2	2.7	3.0
						1.0	0.1	123	26.4		8.0		23.3		81.7		5.8		5.2		6		76				<0.2		2.7	
					Middle	4.9	0.3	80	25.9	25.9	8.0	8.0	25.0	25.0	83.0	83.0	5.9		7.7		5		78				<0.2		3.7	
						4.9	0.3	84	25.9		8.0		25.0		83.0		5.9		7.7		7		78				<0.2		3.5	
					Bottom	8.7	0.3	79	25.8	25.8	8.1	8.1	26.1	26.1	83.7	83.7	5.9	5.9	10.3		5		78				<0.2		2.8	
						8.7	0.3	85	25.8		8.1		26.1		83.7		5.9		10.3		5		79				<0.2		2.7	
IM11	Cloudy	Moderate	13:04	8.4	Surface	1.0	0.4	96	26.1	26.1	8.0	8.0	23.9	23.9	81.5	81.5	5.8	5.8	5.0	6.6	3	7	75	77	821482	810564	<0.2	<0.2	2.6	2.5
						1.0	0.4	105	26.1		8.0		23.9		81.5		5.8		5.0		3		76				<0.2		2.7	
					Middle	4.2	0.4	105	25.9	25.9	8.1	8.1	25.0	25.0	82.7	82.7	5.8		6.8		8		77				<0.2		2.6	
						4.2	0.4	114	25.9		8.1		25.0		82.7		5.8		6.8		8		78				<0.2		2.5	
					Bottom	7.4	0.3	90	25.9	25.9	8.1	8.1	25.8	25.8	84.6	84.6	6.0	6.0	8.0		8		79				<0.2		2.2	
						7.4	0.3	91	25.9		8.1		25.8		84.6		6.0		8.0		10		79				<0.2		2.2	
IM12	Cloudy	Moderate	13:11	8.8	Surface	1.0	0.4	89	26.1	26.1	8.0	8.0	23.6	23.6	80.8	80.8	5.7	5.7	5.3	6.1	6	6	76	78	821160	811538	<0.2	<0.2	2.2	2.3
						1.0	0.4	90	26.1		8.0		23.6		80.8		5.7		5.3		6		76				<0.2		2.1	
					Middle	4.4	0.3	88	25.9	25.9	8.0	8.0	25.0	25.0	80.8	80.8	5.7		6.5		6		77				<0.2		2.2	
						4.4	0.3	91	25.9		8.0		25.0		80.8		5.7		6.5		6		78				<0.2		2.4	
					Bottom	7.8	0.2	89	25.9	25.9	8.0	8.0	25.5	25.5	83.8	83.8	5.9	5.9	6.5		8		79				<0.2		2.6	
						7.8	0.3	93	25.9		8.0		25.5		83.8		5.9		6.5		6		79				<0.2		2.4	
IM13	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
SR2	Fine	Moderate	13:31	4.6	Surface	1.0	0.5	89	26.1	26.1	8.0	8.0	25.2	25.2	81.8	81.8	5.7	5.7	6.3	8.2	7	7	77	79	821472	814163	<0.2	<0.2	2.4	2.6
						1.0	0.5	95	26.1		8.0		25.2		81.8		5.7		6.3		5		78				<0.2		2.5	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.2	117	26.1	26.1	8.0	8.0	25.6	25.6	81.7	81.7	5.7	5.7	10.0		8		80				<0.2		2.6	
						3.6	0.3	121	26.1		8.0		25.6		81.7		5.7		10.0		6		79				<0.2		2.8	
SR3	Cloudy	Moderate	12:36	9.7	Surface	1.0	0.5	73	25.9	25.9	8.1	8.1	26.9	26.9	86.1	86.1	6.0	6.0	5.3	8.4	11	11	-	-	822135	807571	-	-	-	-
						1.0	0.5	76	25.9		8.1		26.9		86.1		6.0		5.3		12		-				-		-	
					Middle	4.9	0.5	70	25.9	25.9	8.1	8.1	27.2	27.2	86.1	86.1	6.0		8.6		10		-				-		-	
						4.9	0.6	74	25.9		8.1		27.2		86.1		6.0		8.6		12		-				-		-	
					Bottom	8.7	0.4	50	25.8	25.8	8.1	8.1	27.8	27.8	86.8	86.8	6.0	6.0	11.3		10		-				-		-	
						8.7	0.4	50	25.8		8.1		27.8		86.8		6.0		11.3		11		-				-		-	
SR4A	Cloudy	Moderate	13:45	9.1	Surface	1.0	0.4	68	26.2	26.2	8.1	8.1	27.2	27.2	89.0	89.1	6.2	6.2	4.9	8.2	6	8	-	-	817200	807826	-	-	-	-
						1.0	0.4	70	26.2		8.1		27.2		89.1		6.2		5.0		5		-				-		-	
					Middle	4.6	0.4	72	26.1	26.1	8.1	8.1	27.4	27.4	88.5	88.5	6.1		8.1		7		-				-		-	
						4.6	0.4	78	26.1		8.1		27.4		88.5		6.1		8.2		7		-				-		-	
					Bottom	8.1	0.2	60	26.0	26.0	8.1	8.1	28.0	28.0	88.8	88.8	6.2	6.2	11.3		10		-				-		-	
						8.1	0.2	61	26.0		8.1		28.0		88.8		6.2		11.5		12		-				-		-	
SR5A	Cloudy	Moderate	14:02	5.9	Surface	1.0	0.1	71	26.5	26.5	8.0	8.0	24.8	24.8	88.6	88.6	6.2	6.2	5.0	5.9	9	9	-	-	816593	810696	-	-	-	-
						1.0	0.1	76	26.5		8.0		24.8		88.6		6.2		5.0		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.9	0.2	125	26.2	26.2	8.0	8.0	26.0	26.0	89.3	89.4	6.2	6.2	6.9		8		-				-		-	
						4.9	0.2	131	26.2		8.0		26.0		89.4		6.2		6.6		10		-				-		-	
SR6	Cloudy	Moderate	14:22	4.5	Surface	1.0	0.2	57	26.4	26.4	8.0	8.0	24.1	24.1	88.6	88.6	6.2	6.2	4.2	4.9	4	5	-	-	817908	814657	-	-	-	-
						1.0	0.2	58	26.4		8.0		24.1		88.6		6.2		4.2		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	63	26.3	26.3	8.0	8.0	24.5	24.5	88.8	88.8	6.2	6.2	5.5		5		-				-		-	
						3.5	0.1	67	26.3		8.0		24.5		88.8		6.2		5.8		6		-				-		-	
SR7	Fine	Moderate	14:17	16.5	Surface	1.0	0.2	73	26.1	26.1	8.0	8.0	27.8	27.8	82.1	82.1	5.7	5.7	2.2	3.1	3	4	-	-	823625	823724	-	-	-	-
						1.0	0.2	77	26.1		8.0		27.8		82.1		5.7		2.2		2		-				-		-	
					Middle	8.3	0.1	46	25.7	25.7	8.0	8.0	29.5	29.5	80.6	80.6	5.6		3.5		4		-				-		-	
						8.3	0.1	50	25.7		8.0		29.5		80.6		5.6		3.5		4		-				-		-	
					Bottom	15.5	0.2	74	25.7	25.7	8.1	8.1	30.0	30.0	81.8	81.8	5.6	5.6	3.7		5		-				-		-	
						15.5	0.2	78	25.7		8.1		30.0		81.8		5.6		3.7		3		-				-		-	
SR8	Cloudy	Moderate	13:18	5.3	Surface	1.0	0.1	233	26.1	26.1	8.0	8.0	24.3	24.3	80.9	80.9	5.7	5.7	6.1	7.7	6	6	-	-	820433	811578	-	-	-	-
						1.0	0.1	236	26.1		8.0		24.3		80.9		5.7		6.1		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.1	290	25.9	25.9	8.0	8.0	25.5	25.5	83.2	83.2	5.9	5.9	9.2		6		-				-		-	
						4.3	0.1	307	25.9		8.0		25.5		83.2		5.9		9.2		5		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 30 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	09:41	7.2	Surface	1.0	0.5	44	26.8	26.8	8.1	8.1	26.7	26.7	95.1	95.1	6.5	6.5	5.6	10.4	5	8	76	78	815622	804233	<0.2	<0.2	1.5	1.3
						1.0	0.6	47	26.8		8.1		26.7		95.1		6.5		5.6		6		76				<0.2		1.2	
					Middle	3.6	0.6	49	26.7	26.7	8.1	8.1	27.6	27.6	94.8	94.8	6.5		9.5		6		78				<0.2		1.2	
						3.6	0.6	52	26.7		8.1		27.6		94.8		6.5		9.5		7		78				<0.2		1.3	
					Bottom	6.2	0.5	47	26.5	26.5	8.1	8.1	28.6	28.6	96.9	96.9	6.6	6.6	16.1		11		79				<0.2		1.0	
						6.2	0.5	47	26.5		8.1		28.6		96.9		6.6		16.1		13		79				<0.2		1.3	
C2	Cloudy	Moderate	10:11	12.6	Surface	1.0	0.5	5	26.7	26.7	7.9	7.9	18.9	18.9	83.3	83.4	6.0	6.0	4.7	7.7	6	6	73	75	825693	806927	<0.2	<0.2	2.8	2.7
						1.0	0.5	5	26.7		7.9		18.9		83.4		6.0		4.8		5		73				<0.2		2.8	
					Middle	6.3	0.5	356	26.7	26.7	8.0	8.0	24.1	24.1	85.2	85.3	6.0		8.6		5		75				<0.2		2.6	
						6.3	0.5	328	26.7		8.0		24.1		85.3		6.0		8.4		5		75				<0.2		2.9	
					Bottom	11.6	0.3	328	26.7	26.7	8.0	8.0	24.5	24.5	84.9	84.9	5.9	5.9	9.9		7		77				<0.2		2.8	
						11.6	0.3	359	26.7		8.0		24.5		84.9		5.9		9.9		6		77				<0.2		2.5	
C3	Cloudy	Moderate	08:21	13.1	Surface	1.0	0.5	264	26.5	26.5	8.0	8.0	22.9	22.9	88.4	88.4	6.3	6.3	1.5	1.6	4	6	73	75	822095	817817	<0.2	<0.2	2.1	2.1
						1.0	0.5	273	26.5		8.0		22.9		88.4		6.3		1.5		4		73				<0.2		2.0	
					Middle	6.6	0.5	276	26.5	26.5	8.0	8.0	24.0	24.1	89.0	89.0	6.3		1.6		5		75				<0.2		2.2	
						6.6	0.5	298	26.5		8.0		24.1		89.0		6.3		1.6		7		75				<0.2		2.2	
					Bottom	12.1	0.5	295	26.4	26.4	8.0	8.0	26.8	26.8	91.2	91.3	6.3	6.3	1.6		6		77				<0.2		2.0	
						12.1	0.5	324	26.4		8.0		26.8		91.4		6.3		1.7		8		77				<0.2		2.1	
IM1	Cloudy	Moderate	10:06	8.7	Surface	1.0	0.6	21	26.8	26.8	8.1	8.1	24.2	24.2	95.7	95.7	6.7	6.7	1.9	6.1	6	6	75	77	818350	806448	<0.2	<0.2	1.6	1.6
						1.0	0.6	22	26.8		8.1		24.2		95.7		6.7		1.9		7		76				<0.2		1.6	
					Middle	4.4	0.6	32	26.8	26.8	8.1	8.1	25.1	25.1	94.3	94.3	6.6		6.3		6		78				<0.2		1.7	
						4.4	0.6	32	26.8		8.1		25.1		94.3		6.6		6.3		5		78				<0.2		1.7	
					Bottom	7.7	0.4	14	26.7	26.7	8.1	8.1	26.8	26.8	95.1	95.1	6.6	6.6	10.0		7		78				<0.2		1.3	
						7.7	0.5	14	26.7		8.1		26.8		95.1		6.6		10.0		7		79				<0.2		1.4	
IM2	Cloudy	Moderate	10:10	9.2	Surface	1.0	0.5	22	26.8	26.8	8.1	8.1	24.1	24.1	95.1	95.1	6.6	6.6	4.0	10.6	3	8	76	77	818836	806201	<0.2	<0.2	1.7	1.9
						1.0	0.5	22	26.8		8.1		24.1		95.1		6.6		4.0		5		75				<0.2		1.7	
					Middle	4.6	0.5	34	26.7	26.7	8.1	8.1	26.8	26.8	93.6	93.6	6.5		9.4		7		76				<0.2		1.9	
						4.6	0.5	34	26.7		8.1		26.8		93.6		6.5		9.4		6		77				<0.2		2.0	
					Bottom	8.2	0.4	27	26.7	26.7	8.1	8.1	27.0	27.0	92.9	92.9	6.4	6.4	18.4		15		77				<0.2		1.9	
						8.2	0.4	27	26.7		8.1		27.0		92.9		6.4		18.4		13		78				<0.2		1.9	
IM3	Cloudy	Moderate	10:16	9.3	Surface	1.0	0.4	20	26.9	26.9	8.1	8.1	23.5	23.5	94.6	94.6	6.6	6.5	2.9	8.9	4	8	75	76	819413	806032	<0.2	<0.2	1.9	1.8
						1.0	0.4	21	26.9		8.1		23.5		94.6		6.6		2.9		5		76				<0.2		2.1	
					Middle	4.7	0.4	31	26.7	26.7	8.1	8.1	26.9	26.9	91.8	91.8	6.3		10.3		5		75				<0.2		1.7	
						4.7	0.5	33	26.7		8.1		26.9		91.8		6.3		10.3		7		77				<0.2		1.6	
					Bottom	8.3	0.4	47	26.7	26.7	8.1	8.1	27.0	27.0	92.8	92.8	6.4	6.4	13.5		13		77				<0.2		1.7	
						8.3	0.4	49	26.7		8.1		27.0		92.8		6.4		13.5		14		78				<0.2		1.7	
IM4	Cloudy	Moderate	10:23	7.9	Surface	1.0	0.5	28	26.8	26.8	8.1	8.1	23.1	23.1	94.5	94.5	6.6	6.5	4.7	8.4	5	10	75	77	819577	805055	<0.2	<0.2	2.1	1.7
						1.0	0.5	30	26.8		8.1		23.1		94.5		6.6		4.7		4		75				<0.2		2.2	
					Middle	4.0	0.4	26	26.6	26.6	8.1	8.1	27.6	27.6	91.7	91.7	6.3		8.4		7		76				<0.2		1.5	
						4.0	0.4	27	26.6		8.1		27.6		91.7		6.3		8.4		6		77				<0.2		1.3	
					Bottom	6.9	0.4	27	26.6	26.6	8.1	8.1	27.9	27.9	91.1	91.1	6.3	6.3	12.0		18		78				<0.2		1.5	
						6.9	0.4	28	26.6		8.1		27.9		91.1		6.3		12.0		20		78				<0.2		1.3	
IM5	Cloudy	Moderate	10:32	7.4	Surface	1.0	0.8	44	26.8	26.8	8.1	8.1	22.9	22.9	95.4	95.4	6.7	6.5	1.7	11.3	5	11	75	76	820582	804905	<0.2	<0.2	2.1	1.8
						1.0	0.8	47	26.8		8.1		22.9		95.4		6.7		1.7		3		75				<0.2		2.2	
					Middle	3.7	0.7	51	26.6	26.6	8.1	8.1	27.8	27.8	92.3	92.3	6.3		16.9		4		77				<0.2		1.8	
						3.7	0.7	55	26.6		8.1		27.8		92.3		6.3		16.9		6		76				<0.2		1.8	
					Bottom	6.4	0.4	43	26.6	26.6	8.1	8.1	27.8	27.8	92.9	92.9	6.4	6.4	15.2		22		77				<0.2		1.4	
						6.4	0.5	44	26.6		8.1		27.8		92.9		6.4		15.2		24		78				<0.2		1.6	
IM6	Cloudy	Moderate	10:39	7.5	Surface	1.0	0.5	31	27.0	27.0	8.1	8.1	23.5	23.5	94.1	94.1	6.6	6.5	4.1	9.4	6	7	75	76	821051	805824	<0.2	<0.2	2.2	1.8
						1.0	0.5	33	27.0		8.1		23.5		94.1		6.6		4.1		5		74				<0.2		1.9	
					Middle	3.8	0.5	35	26.7	26.7	8.1	8.1	24.9	24.9	92.3	92.3	6.4		8.5		7		77				<0.2		2.0	
						3.8	0.5	36	26.7		8.1		24.9		92.3		6.4		8.5		5		77				<0.2		1.9	
					Bottom	6.5	0.5	61	26.7	26.7	8.1	8.1	27.0	27.0	91.7	91.7	6.3	6.3	15.7		11		77				<0.2		1.4	
						6.5	0.5	62	26.7		8.1		27.0		91.7		6.3		15.7		9		78				<0.2		1.3	
IM7	Cloudy	Moderate	10:49	9.3	Surface	1.0	0.6	62	26.8	26.8	8.1	8.1	24.1	24.1	92.5	92.5	6.5	6.4	2.8	4.3	6	9	75	77	821346	806841	<0.2	<0.2	2.0	1.8
						1.0	0.7	63	26.8		8.1		24.1		92.4		6.5		3.0		8		75				<0.2		2.1	
					Middle	4.7	0.5	64	26.7	26.7	8.1	8.1	25.7	25.7	91.0	91.0	6.3		4.1		6		77				<0.2		1.6	
						4.7	0.6	64	26.7		8.1		25.7		91.0		6.3		4.1		8		77				<0.2		1.7	
					Bottom	8.3	0.3	81	26.7	26.7	8.1	8.1	26.0	26.0	93.6	93.6	6.5	6.5	5.8		11		78				<0.2		2.0	
						8.3	0.3	84	26.7		8.1		26.0		93.6		6.5		5.8		12		78				<0.2		1.6	
IM8	Cloudy	Moderate	09:40	7.8	Surface	1.0	0.2	323	26.9	26.9	7.9	7.9	19.1	19.1	85.4	85.4	6.1	6.2	4.4	6.0	7	6	73	75	821693	807832	<0.2	<0.2	2.7	2.8
						1.0	0.3	323	26.9		7.9		19.1		85.4		6.1		4.4		6		73				<0.2		3.0	
					Middle	3.9	0.4	346	26.7	26.7	7.9	7.9	20.4	20.4	86.2	86.3	6.2		5.2		6		75				<0.2		2.6	
						3.9	0.4	318	26.7		7.9		20.3		86.3		6.2		5.2		6		75				<0.2		2.8	
					Bottom	6.8	0.3	12	26.7	26.7	8.0	8.0	23.1	23.1	89.5	89.6	6.3	6.3	8.4		7		77				<0.2		3.1	
						6.8	0.3	12	26.7		8.0		23.1		89.7		6.3		8.5		6		77				<0.2		2.8	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 30 May 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
IM9	Cloudy	Moderate	09:30	7.7	Surface	1.0	0.2	314	26.8	26.8	7.9	7.9	19.8	19.8	85.7	85.8	6.1	6.2	2.8	4.5	4	4	73	75	822113	808795	<0.2	<0.2	2.7	2.8
						1.0	0.2	338	26.8		7.9		19.8		85.8		6.1		2.9		3		73				<0.2		2.9	
					Middle	3.9	0.2	335	26.7	26.7	8.0	8.0	21.1	21.1	86.6	86.7	6.2		4.7		5		75				<0.2		2.9	
						3.9	0.2	350	26.7		8.0		21.1		86.7		6.2		4.8		4		75				<0.2		2.6	
					Bottom	6.7	0.3	326	26.7	26.7	8.0	8.0	22.6	22.6	88.2	88.2	6.2	6.2	5.8		5		77				<0.2		2.7	
						6.7	0.3	351	26.7		8.0		22.6		88.2		6.2		5.7		5		77				<0.2		2.7	
IM10	Cloudy	Moderate	09:21	7.6	Surface	1.0	0.4	307	26.7	26.7	8.0	8.0	20.9	20.9	86.1	86.1	6.1	6.1	4.0	6.9	5	8	73	75	822236	809843	<0.2	<0.2	2.5	2.5
						1.0	0.4	323	26.7		8.0		20.9		86.1		6.1		4.1		6		73				<0.2		2.6	
					Middle	3.8	0.4	311	26.7	26.7	8.0	8.0	21.7	21.7	86.2	86.2	6.1		6.7		8		75				<0.2		2.6	
						3.8	0.4	328	26.7		8.0		21.7		86.2		6.1		6.8		9		75				<0.2		2.3	
					Bottom	6.6	0.3	298	26.6	26.6	8.0	8.0	24.2	24.2	90.2	90.3	6.3	6.3	9.9		10		77				<0.2		2.4	
						6.6	0.3	303	26.6		8.0		24.2		90.4		6.3		9.6		12		77				<0.2		2.4	
IM11	Cloudy	Moderate	09:12	8.9	Surface	1.0	0.5	300	26.7	26.7	7.9	7.9	20.0	20.0	85.1	85.1	6.1	6.1	4.6	7.3	6	5	73	75	821483	810536	<0.2	<0.2	2.9	2.9
						1.0	0.6	314	26.7		7.9		20.0		85.1		6.1		4.6		6		73				<0.2		2.6	
					Middle	4.5	0.5	287	26.7	26.7	8.0	8.0	23.9	23.9	85.7	85.7	6.0		6.7		5		75				<0.2		2.9	
						4.5	0.6	291	26.7		8.0		23.9		85.6		6.0		6.8		5		75				<0.2		2.8	
					Bottom	7.9	0.4	295	26.7	26.7	8.0	8.0	24.5	24.5	86.6	86.7	6.1	6.1	10.4		5		77				<0.2		2.9	
						7.9	0.4	322	26.7		8.0		24.5		86.8		6.1		10.5		5		77				<0.2		3.1	
IM12	Cloudy	Moderate	09:04	9.1	Surface	1.0	0.6	278	26.7	26.7	7.9	7.9	20.3	20.3	83.9	83.9	6.0	5.9	5.4	6.5	4	6	73	75	821181	811525	<0.2	<0.2	2.9	2.8
						1.0	0.6	293	26.7		7.9		20.3		83.9		6.0		5.6		4		73				<0.2		2.8	
					Middle	4.6	0.6	278	26.5	26.5	8.0	8.0	25.4	25.4	83.4	83.4	5.8		5.5		5		75				<0.2		2.6	
						4.6	0.7	295	26.5		8.0		25.4		83.3		5.8		5.8		6		75				<0.2		2.7	
					Bottom	8.1	0.4	272	26.5	26.5	8.0	8.0	25.6	25.6	84.0	84.0	5.9	5.9	8.4		7		76				<0.2		2.8	
						8.1	0.5	293	26.5		8.0		25.6		84.0		5.9		8.3		8		77				<0.2		2.8	
IM13	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
SR2	Cloudy	Moderate	08:43	5.5	Surface	1.0	0.3	325	26.7	26.7	8.0	8.0	22.9	22.9	86.9	86.9	6.1	6.1	5.8	7.8	6	6	73	75	821443	814146	<0.2	<0.2	2.2	2.3
						1.0	0.4	338	26.6		8.0		22.9		86.9		6.1		5.9		6		73				<0.2		2.5	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.5	0.2	306	26.6	26.6	8.0	8.0	25.1	25.1	89.2	89.3	6.2	6.2	9.8		5		77				<0.2		2.1	
						4.5	0.2	330	26.6		8.0		25.1		89.3		6.2		9.8		7		77				<0.2		2.3	
SR3	Cloudy	Moderate	09:47	9.5	Surface	1.0	0.4	326	26.8	26.8	7.9	7.9	18.9	18.9	84.2	84.2	6.1	6.1	4.9	6.5	5	7	-	-	822135	807553	-	-	-	-
						1.0	0.4	350	26.8		7.9		18.9		84.2		6.1		4.9		7		-				-		-	
					Middle	4.8	0.4	350	26.7	26.7	8.0	8.0	20.4	20.4	85.7	85.8	6.1		6.2		7		-				-		-	
						4.8	0.5	322	26.7		8.0		20.4		85.8		6.1		6.2		8		-				-		-	
					Bottom	8.5	0.2	26	26.7	26.7	8.0	8.0	24.4	24.4	86.9	86.9	6.1	6.1	8.3		6		-				-		-	
						8.5	0.2	27	26.7		8.0		24.4		86.9		6.1		8.2		6		-				-		-	
SR4A	Cloudy	Moderate	09:26	9.8	Surface	1.0	0.3	239	26.9	26.9	8.1	8.1	25.4	25.4	91.3	91.3	6.3	6.3	7.1	7.4	5	6	-	-	817197	807801	-	-	-	-
						1.0	0.3	258	26.9		8.1		25.4		91.3		6.3		7.1		5		-				-		-	
					Middle	4.9	0.2	248	26.9	26.9	8.1	8.1	26.3	26.3	90.3	90.3	6.2		7.6		5		-				-		-	
						4.9	0.2	269	26.9		8.1		26.3		90.3		6.2		7.6		5		-				-		-	
					Bottom	8.8	0.1	252	26.9	26.9	8.1	8.1	26.3	26.3	90.0	90.0	6.2	6.2	7.6		6		-				-		-	
						8.8	0.1	260	26.9		8.1		26.3		90.0		6.2		7.6		8		-				-		-	
SR5A	Cloudy	Moderate	08:45	5.4	Surface	1.0	0.2	305	26.7	26.7	8.0	8.0	24.4	24.4	91.7	91.8	6.4	6.4	4.3	4.5	7	7	-	-	816574	810706	-	-	-	-
						1.0	0.2	312	26.7		8.0		24.4		91.9		6.4		4.3		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.1	326	26.7	26.7	8.0	8.0	24.4	24.4	93.3	93.3	6.5	6.5	4.7		7		-				-		-	
						4.4	0.1	354	26.7		8.0		24.4		93.3		6.5		4.8		7		-				-		-	
SR6	Cloudy	Moderate	08:24	4.7	Surface	1.0	0.3	227	26.7	26.7	7.9	7.9	21.9	21.9	90.3	90.3	6.4	6.4	2.0	4.0	5	6	-	-	817905	814666	-	-	-	-
						1.0	0.3	240	26.7		7.9		21.9		90.3		6.4		2.0		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.1	242	26.8	26.8	7.9	7.9	23.5	23.5	90.3	90.3	6.3	6.3	5.9		8		-				-		-	
						3.7	0.1	252	26.8		7.9		23.5		90.3		6.3		5.9		6		-				-		-	
SR7	Cloudy	Moderate	07:49	19.5	Surface	1.0	0.1	238	26.3	26.3	8.0	8.0	24.0	24.0	86.7	86.7	6.1	6.0	1.5	1.7	6	6	-	-	823630	823754	-	-	-	-
						1.0	0.1	254	26.3		8.0		24.0		86.7		6.1		1.5		7		-				-		-	
					Middle	9.8	0.2	96	26.2	26.2	8.0	8.0	27.6	27.6	83.7	83.7	5.8		2.0		7		-				-		-	
						9.8	0.2	102	26.2		8.0		27.6		83.7		5.8		2.0		6		-				-		-	
					Bottom	18.5	0.4	58	26.2	26.2	8.0	8.0	28.3	28.3	84.1	84.1	5.8	5.8	1.7		6		-				-		-	
						18.5	0.5	61	26.2		8.0		28.3		84.1		5.8		1.7		6		-				-		-	
SR8	Cloudy	Moderate	08:57	5.8	Surface	1.0	0.2	254	26.6	26.6	7.9	7.9	20.7	20.7	85.6	85.6	6.1	6.1	4.8	5.1	4	5	-	-	820412	811610	-	-	-	-
						1.0	0.2	265	26.6		7.9		20.7		85.6		6.1		4.9		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.8	0.2	261	26.7	26.7	8.0	8.0	24.3	24.3	86.0	86.1	6.0	6.0	5.3		7		-				-		-	
						4.8	0.2	264	26.7		8.0		24.3		86.1		6.0		5.3		5		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 30 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	16:05	8.2	Surface	1.0	0.5	337	26.9	26.9	8.1	8.1	26.5	26.5	96.3	96.3	6.6	6.6	3.2	7.1	6	6	76	78	815639	804264	<0.2	<0.2	1.3	1.2
						1.0	0.5	352	26.9		8.1		26.5		96.3		6.6		3.2		4		76				<0.2		1.2	
					Middle	4.1	0.5	6	26.9	26.9	8.1	8.1	27.4	27.4	96.0	96.0	6.6		5.1		6		78				<0.2		1.2	
						4.1	0.5	6	26.9		8.1		27.4		96.0		6.6		5.1		6		78				<0.2		1.3	
					Bottom	7.2	0.4	357	26.8	26.8	8.1	8.1	28.2	28.2	95.3	95.3	6.5	6.5	13.1		8		79				<0.2		1.0	
						7.2	0.4	328	26.8		8.1		28.2		95.3		6.5		13.1		7		79				<0.2		1.2	
C2	Fine	Moderate	14:47	11.9	Surface	1.0	0.3	332	26.7	26.7	7.9	7.9	18.8	18.8	84.4	84.4	6.1	6.0	7.0	8.3	5	4	73	75	825682	806942	<0.2	<0.2	2.6	2.6
						1.0	0.3	332	26.7		7.9		18.8		84.4		6.1		7.2		4		73				<0.2		2.6	
					Middle	6.0	0.5	356	26.7	26.7	8.0	8.0	24.1	24.1	84.8	84.8	5.9		8.1		4		75				<0.2		2.5	
						6.0	0.5	359	26.7		8.0		24.1		84.8		5.9		8.2		5		75				<0.2		2.5	
					Bottom	10.9	0.4	355	26.7	26.7	8.0	8.0	24.7	24.7	83.7	83.7	5.8	5.8	9.6		4		77				<0.2		2.8	
						10.9	0.4	327	26.7		8.0		24.7		83.7		5.8		9.7		4		77				<0.2		2.7	
C3	Cloudy	Moderate	16:36	12.8	Surface	1.0	0.5	102	27.0	27.0	8.0	8.0	24.7	24.7	91.9	91.9	6.4	6.3	2.4	3.6	4	3	73	75	822097	817798	<0.2	<0.2	1.8	2.2
						1.0	0.5	106	27.0		8.0		24.6		91.8		6.4		2.4		2		73				<0.2		2.1	
					Middle	6.4	0.2	126	26.6	26.6	8.0	8.0	26.5	26.5	89.2	89.2	6.2		3.2		2		75				<0.2		2.4	
						6.4	0.2	131	26.6		8.0		26.5		89.2		6.2		3.1		4		75				<0.2		2.2	
					Bottom	11.8	0.1	223	26.2	26.2	8.0	8.0	29.3	29.3	89.4	89.4	6.1	6.1	5.1		3		77				<0.2		2.4	
						11.8	0.1	241	26.2		8.0		29.3		89.4		6.1		5.1		4		77				<0.2		2.2	
IM1	Cloudy	Moderate	15:45	7.7	Surface	1.0	0.4	340	26.9	26.9	8.1	8.1	26.5	26.5	96.5	96.5	6.6	6.6	5.4	9.2	5	5	75	77	818349	806474	<0.2	<0.2	1.2	1.1
						1.0	0.4	359	26.9		8.1		26.5		96.5		6.6		5.4		4		75				<0.2		1.2	
					Middle	3.9	0.5	6	26.9	26.9	8.1	8.1	27.4	27.4	96.3	96.3	6.6		10.0		4		77				<0.2		1.2	
						3.9	0.5	6	26.9		8.1		27.4		96.3		6.6		10.0		4		77				<0.2		1.0	
					Bottom	6.7	0.3	4	26.5	26.5	8.1	8.1	28.6	28.6	94.6	94.6	6.5	6.5	12.2		5		79				<0.2		0.9	
						6.7	0.3	4	26.5		8.1		28.6		94.6		6.5		12.0		5		78				<0.2		1.0	
IM2	Cloudy	Moderate	15:40	8.6	Surface	1.0	0.4	338	27.0	27.0	8.1	8.1	26.2	26.2	96.2	96.2	6.6	6.6	4.1	8.1	4	4	76	77	818838	806195	<0.2	<0.2	1.3	1.3
						1.0	0.4	311	27.0		8.1		26.2		96.2		6.6		4.1		3		75				<0.2		1.3	
					Middle	4.3	0.5	15	26.9	26.9	8.1	8.1	26.9	26.9	95.9	95.9	6.6		7.8		4		77				<0.2		1.3	
						4.3	0.6	16	26.9		8.1		26.9		95.9		6.6		7.8		3		77				<0.2		1.4	
					Bottom	7.6	0.4	9	26.6	26.6	8.1	8.1	28.5	28.5	95.4	95.4	6.5	6.5	12.3		4		78				<0.2		1.4	
						7.6	0.4	9	26.6		8.1		28.5		95.4		6.5		12.3		3		79				<0.2		1.3	
IM3	Cloudy	Moderate	15:33	8.4	Surface	1.0	0.4	17	27.1	27.1	8.1	8.1	25.0	25.0	97.6	97.6	6.8	6.8	3.8	5.3	2	3	75	77	819413	806033	<0.2	<0.2	1.9	1.6
						1.0	0.4	17	27.1		8.1		25.0		97.6		6.8		3.8		2		75				<0.2		1.8	
					Middle	4.2	0.5	41	26.9	26.9	8.1	8.1	26.9	26.9	96.9	96.9	6.7		5.8		3		76				<0.2		1.7	
						4.2	0.6	43	26.9		8.1		26.9		96.9		6.7		5.8		3		77				<0.2		1.7	
					Bottom	7.4	0.3	47	26.8	26.8	8.1	8.1	27.5	27.5	97.5	97.5	6.7	6.7	6.2		3		78				<0.2		1.3	
						7.4	0.3	47	26.8		8.1		27.5		97.5		6.7		6.2		2		78				<0.2		1.3	
IM4	Cloudy	Moderate	15:26	8.3	Surface	1.0	0.5	351	26.9	26.9	8.1	8.1	23.8	23.8	96.7	96.7	6.8	6.7	5.7	9.5	3	6	75	77	819560	805036	<0.2	<0.2	1.6	1.5
						1.0	0.5	358	26.9		8.1		23.8		96.7		6.8		5.7		2		76				<0.2		1.8	
					Middle	4.2	0.6	1	26.7	26.7	8.1	8.1	27.3	27.3	95.2	95.2	6.6		9.9		2		76				<0.2		1.5	
						4.2	0.6	1	26.7		8.1		27.3		95.2		6.6		9.9		3		77				<0.2		1.6	
					Bottom	7.3	0.4	347	26.5	26.5	8.1	8.1	28.3	28.3	94.3	94.3	6.5	6.5	12.8		13		77				<0.2		1.2	
						7.3	0.4	347	26.5		8.1		28.3		94.3		6.5		12.8		15		78				<0.2		1.1	
IM5	Cloudy	Moderate	15:17	8.0	Surface	1.0	0.6	11	26.8	26.8	8.1	8.1	25.4	25.4	94.8	94.8	6.6	6.5	5.0	8.7	2	10	75	77	820559	804911	<0.2	<0.2	1.8	1.5
						1.0	0.6	11	26.8		8.1		25.4		94.8		6.6		5.0		2		75				<0.2		1.7	
					Middle	4.0	0.5	13	26.5	26.5	8.1	8.1	28.0	28.0	92.2	92.2	6.3		8.4		2		76				<0.2		1.3	
						4.0	0.5	13	26.5		8.1		28.0		92.2		6.3		8.4		4		77				<0.2		1.5	
					Bottom	7.0	0.4	8	26.6	26.6	8.1	8.1	28.0	28.0	94.5	94.5	6.5	6.5	12.6		26		78				<0.2		1.3	
						7.0	0.4	8	26.6		8.1		28.0		94.5		6.5		12.6		25		78				<0.2		1.3	
IM6	Cloudy	Moderate	15:09	7.7	Surface	1.0	0.4	30	26.8	26.8	8.1	8.1	24.3	24.3	93.9	93.9	6.6	6.5	4.2	8.0	5	6	75	77	821059	805812	<0.2	<0.2	1.6	1.9
						1.0	0.4	32	26.8		8.1		24.3		93.9		6.6		4.2		5		75				<0.2		1.9	
					Middle	3.9	0.3	36	26.7	26.7	8.1	8.1	26.6	26.6	92.2	92.2	6.4		7.6		6		77				<0.2		2.2	
						3.9	0.3	36	26.7		8.1		26.6		92.2		6.4		7.6		4		78				<0.2		2.0	
					Bottom	6.7	0.3	47	26.6	26.6	8.1	8.1	27.5	27.5	91.8	91.8	6.3	6.3	12.3		7		78				<0.2		1.6	
						6.7	0.3	48	26.6		8.1		27.5		91.8		6.3		12.3		9		78				<0.2		1.8	
IM7	Cloudy	Moderate	15:00	9.0	Surface	1.0	0.6	53	26.9	26.9	8.1	8.1	24.1	24.1	93.3	93.3	6.5	6.5	2.6	4.0	2	3	74	76	821346	806843	<0.2	<0.2	2.0	1.7
						1.0	0.6	54	26.9		8.1		24.1		93.3		6.5		2.6		2		75				<0.2		2.0	
					Middle	4.5	0.3	64	26.7	26.7	8.1	8.1	25.3	25.3	91.5	91.5	6.4		3.8		2		76				<0.2		1.7	
						4.5	0.3	68	26.7		8.1		25.3		91.5		6.4		3.8		3		77				<0.2		1.6	
					Bottom	8.0	0.4	44	26.7	26.7	8.1	8.1	26.0	26.0	91.1	91.1	6.3	6.3	5.6		5		78				<0.2		1.4	
						8.0	0.4	48	26.7		8.1		26.0		91.1		6.3		5.6		4		78				<0.2		1.5	
IM8	Fine	Moderate	15:26	7.7	Surface	1.0	0.4	356	26.9	26.9	8.0	8.0	20.2	20.2	88.6	88.6	6.3	6.3	4.6	7.3	2	2	73	75	821681	807836	<0.2	<0.2	2.8	2.8
						1.0	0.4	358	26.9		8.0		20.2		88.6		6.3		4.6		2		73				<0.2		2.8	
					Middle	3.9	0.6	25	26.7	26.7	8.0	8.0	23.2	23.2	88.5	88.5	6.2		7.6		3		75				<0.2		2.8	
						3.9	0.6	26	26.7		8.0		23.2		88.5		6.2		7.7		2		75				<0.2		2.9	
					Bottom	6.7	0.5	33	26.7	26.7	8.0	8.0	25.9	25.9	90.2	90.3	6.3	6.3	9.5		2		76				<0.2		2.6	
						6.7	0.5	35	26.7		8.0		25.9		90.3		6.3		9.6		2		77				<0.2		2.8	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

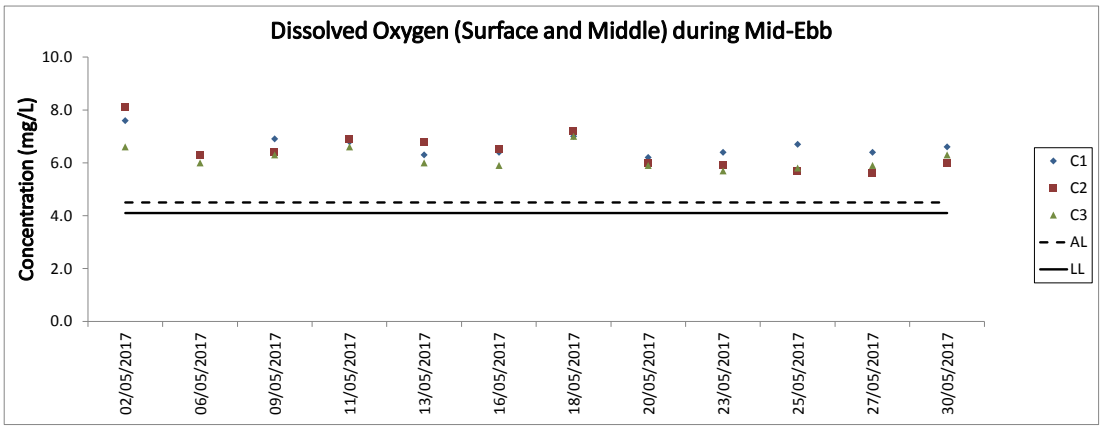
Water Quality Monitoring Results on 30 May 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	15:32	7.4	Surface	1.0	0.3	90	26.9	26.9	8.0	8.0	23.6	23.6	87.4	87.4	6.1	6.0	3.1	4.8	2	3	73	75	822094	808797	<0.2	<0.2	2.5	2.5
						1.0	0.3	98	26.9		8.0		23.6		87.4		6.1		3.2		2		73				<0.2		2.4	
					Middle	3.7	0.2	93	26.7	26.7	8.0	8.0	24.9	24.9	85.3	85.3	5.9		4.7		2		75				<0.2		2.4	
						3.7	0.3	99	26.7		8.0		24.9		85.3		5.9		4.8		3		75				<0.2		2.4	
					Bottom	6.4	0.2	114	26.5	26.5	8.0	8.0	25.7	25.7	86.2	86.3	6.0	6.0	6.3		4		77				<0.2		2.7	
						6.4	0.2	121	26.5		8.0		25.7		86.4		6.0		6.4		2		77				<0.2		2.6	
IM10	Cloudy	Moderate	15:37	7.6	Surface	1.0	0.3	89	27.0	27.0	8.0	8.0	23.3	23.3	88.8	88.8	6.2	6.1	2.5	3.8	2	3	73	75	822259	809829	<0.2	<0.2	2.7	2.8
						1.0	0.3	89	27.0		8.0		23.2		88.7		6.2		2.5		3		73				<0.2		2.8	
					Middle	3.8	0.2	111	26.8	26.8	8.0	8.0	24.8	24.8	85.2	85.2	5.9		4.1		2		75				<0.2		2.9	
						3.8	0.2	114	26.8		8.0		24.8		85.2		5.9		4.1		2		75				<0.2		2.7	
					Bottom	6.6	0.2	116	26.5	26.5	8.0	8.0	25.5	25.5	85.0	85.1	5.9	5.9	4.7		3		77				<0.2		2.7	
						6.6	0.3	117	26.5		8.0		25.5		85.1		5.9		4.7		3		77				<0.2		2.8	
IM11	Cloudy	Moderate	15:42	7.5	Surface	1.0	0.2	79	27.0	27.0	8.0	8.0	22.9	22.9	87.7	87.7	6.2	6.0	3.4	4.1	<2	<2	73	75	821482	810540	<0.2	<0.2	3.0	3.0
						1.0	0.2	80	27.0		8.0		22.9		87.6		6.1		3.5		<2		73				<0.2		3.0	
					Middle	3.8	0.2	99	26.7	26.7	8.0	8.0	24.9	25.0	85.0	85.0	5.9		4.5		<2		75				<0.2		3.0	
						3.8	0.3	101	26.6		8.0		25.0		84.9		5.9		4.5		<2		75				<0.2		2.8	
					Bottom	6.5	0.2	117	26.5	26.6	8.0	8.0	25.4	25.4	85.6	85.6	6.0	6.0	4.5		<2		76				<0.2		3.3	
						6.5	0.2	118	26.6		8.0		25.4		85.6		6.0		4.4		<2		77				<0.2		3.0	
IM12	Cloudy	Moderate	15:46	8.9	Surface	1.0	0.3	74	27.0	27.0	8.0	8.0	22.9	22.9	88.4	88.4	6.2	6.1	2.7	3.3	2	2	73	75	821164	811537	<0.2	<0.2	2.9	3.0
						1.0	0.3	78	27.0		8.0		22.9		88.3		6.2		2.7		3		73				<0.2		2.9	
					Middle	4.5	0.2	100	26.7	26.7	8.0	8.0	24.9	24.9	86.0	86.0	6.0		3.8		3		75				<0.2		3.0	
						4.5	0.2	102	26.7		8.0		24.9		86.0		6.0		3.8		2		75				<0.2		3.2	
					Bottom	7.9	0.2	112	26.6	26.6	8.0	8.0	25.3	25.3	87.9	88.0	6.1	6.1	3.5		2		77				<0.2		2.9	
						7.9	0.3	120	26.6		8.0		25.3		88.1		6.1		3.5		2		77				<0.2		3.0	
IM13	-	-	-	-	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
SR2	Cloudy	Moderate	16:16	5.2	Surface	1.0	0.3	57	26.7	26.7	8.0	8.0	24.7	24.9	87.1	87.0	6.1	6.1	3.5	4.4	<2	2	73	75	821463	814169	<0.2	<0.2	2.4	2.4
						1.0	0.3	58	26.6		8.0		25.0		86.9		6.1		3.6		<2		73				<0.2		2.5	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.2	46	26.5	26.5	8.0	8.0	25.8	25.8	87.4	87.4	6.1	6.1	5.2		2		77				<0.2		2.3	
						4.2	0.2	46	26.5		8.0		25.8		87.4		6.1		5.2		3		77				<0.2		2.2	
SR3	Fine	Moderate	15:13	9.5	Surface	1.0	0.3	347	26.8	26.8	8.0	8.0	20.2	20.2	88.2	88.2	6.3	6.3	4.7	6.6	<2	3	-	-	822130	807580	-	-	-	-
						1.0	0.3	319	26.8		8.0		20.2		88.2		6.3		4.8		<2		-				-		-	
					Middle	4.8	0.5	19	26.7	26.7	8.0	8.0	23.2	23.2	88.2	88.2	6.2		6.2		3		-				-		-	
						4.8	0.5	20	26.7		8.0		23.2		88.2		6.2		6.3		3		-				-		-	
					Bottom	8.5	0.4	40	26.7	26.7	8.0	8.0	25.7	25.7	90.3	90.4	6.3	6.3	8.6		3		-				-		-	
						8.5	0.5	41	26.7		8.0		25.7		90.4		6.3		8.7		2		-				-		-	
SR4A	Cloudy	Moderate	16:21	8.2	Surface	1.0	0.5	45	27.0	27.0	8.1	8.1	26.9	26.9	95.6	95.6	6.6	6.6	4.2	6.7	3	3	-	-	817196	807806	-	-	-	-
						1.0	0.5	47	27.0		8.1		26.9		95.6		6.6		4.2		2		-				-		-	
					Middle	4.1	0.4	51	27.0	27.0	8.1	8.1	26.9	26.9	94.9	94.9	6.5		4.3		4		-				-		-	
						4.1	0.4	51	27.0		8.1		26.9		94.9		6.5		4.3		3		-				-		-	
					Bottom	7.2	0.4	60	26.8	26.8	8.1	8.1	27.4	27.4	94.1	94.1	6.5	6.5	11.5		3		-				-		-	
						7.2	0.4	65	26.8		8.1		27.4		94.1		6.5		11.5		5		-				-		-	
SR5A	Cloudy	Moderate	16:37	4.7	Surface	1.0	0.3	104	27.1	27.1	8.1	8.1	24.2	24.2	96.6	96.6	6.7	6.7	2.3	2.2	3	3	-	-	816607	810705	-	-	-	-
						1.0	0.3	112	27.1		8.1		24.2		96.6		6.7		2.3		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.3	115	27.1	27.1	8.1	8.1	24.3	24.3	97.1	97.1	6.8	6.8	2.1		3		-				-		-	
						3.7	0.3	122	27.1		8.1		24.3		97.1		6.8		2.1		4		-				-		-	
SR6	Cloudy	Moderate	16:57	5.4	Surface	1.0	0.1	74	26.9	26.9	8.0	8.0	22.9	22.9	96.1	96.1	6.8	6.8	4.3	8.3	4	4	-	-	817908	814675	-	-	-	-
						1.0	0.1	79	26.9		8.0		22.9		96.1		6.8		4.3		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.1	56	26.9	26.9	8.0	8.0	24.4	24.4	97.1	97.1	6.8	6.8	12.2		3		-				-		-	
						4.4	0.1	59	26.9		8.0		24.4		97.1		6.8		12.2		4		-				-		-	
SR7	Cloudy	Moderate	16:57	18.8	Surface	1.0	0.8	75	26.6	26.6	8.0	8.0	27.4	27.4	89.6	89.6	6.2	6.0	1.8	3.0	<2	<2	-	-	823617	823723	-	-	-	-
						1.0	0.8	78	26.6		8.0		27.4		89.6		6.2		1.8		<2		-				-		-	
					Middle	9.4	0.4	75	26.0	26.0	8.0	8.0	30.4	30.4	83.7	83.7	5.7		3.8		<2		-				-		-	
						9.4	0.5	80	26.0		8.0		30.4		83.7		5.7		3.8		<2		-				-		-	
					Bottom	17.8	0.2	44	26.0	26.0	8.0	8.0	30.4	30.4	84.7	84.7	5.8	5.8	3.3		<2		-				-		-	
						17.8	0.2	44	26.0		8.0		30.4		84.7		5.8		3.3		<2		-				-		-	
SR8	Cloudy	Moderate	16:04	5.1	Surface	1.0	0.3	48	26.6	26.6	8.0	8.0	24.8	24.8	88.7	88.7	6.2	6.2	3.0	3.1	5	5	-	-	820397	811583	-	-	-	-
						1.0	0.3	50	26.6		8.0		24.8		88.7		6.2		3.0		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.1	74	26.6	26.6	8.0	8.0	25.5	25.5	90.1	90.2	6.3	6.3	3.2		4		-				-		-	
						4.1	0.2	81	26.6		8.0		25.5		90.2		6.3		3.2		6		-				-		-	

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
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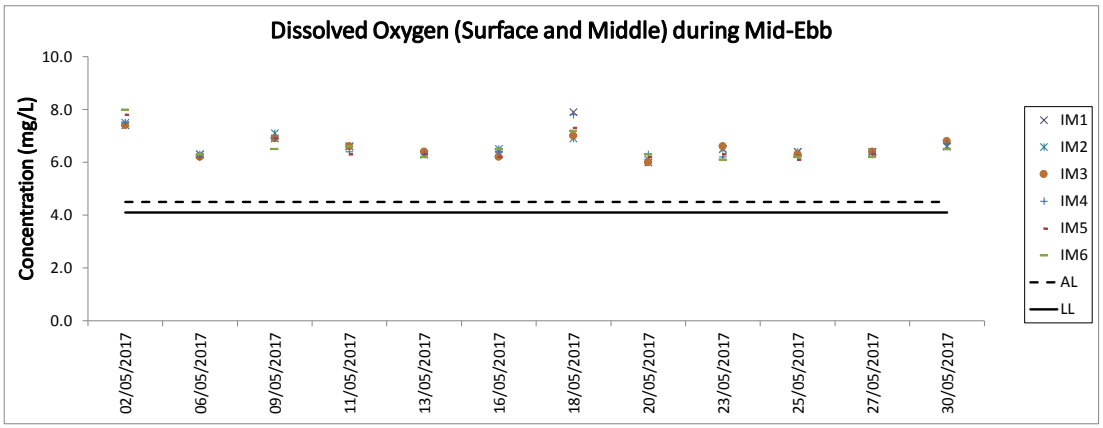
23/05/2017
25/05/2017
27/05/2017
30/05/2017
C1
C2
C3
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
20/05/2017
23/05/2017
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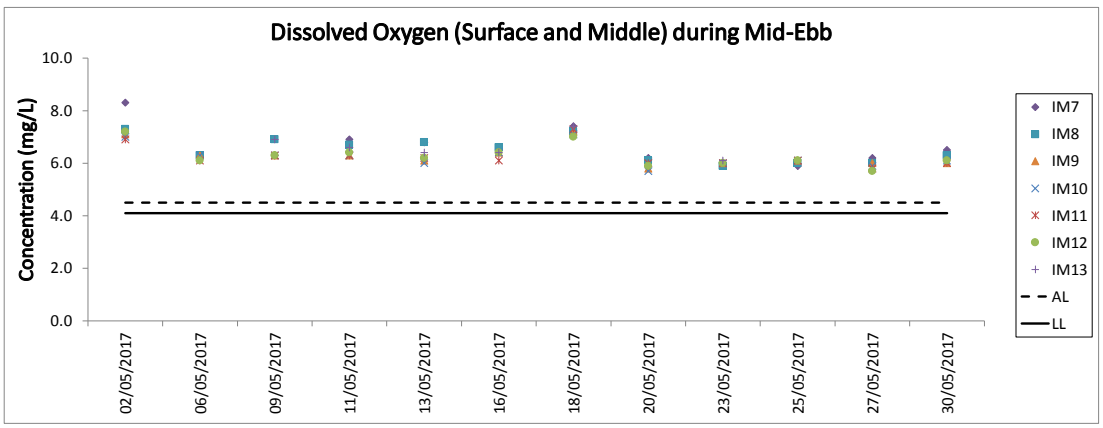
27/05/2017
30/05/2017
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
20/05/2017
23/05/2017
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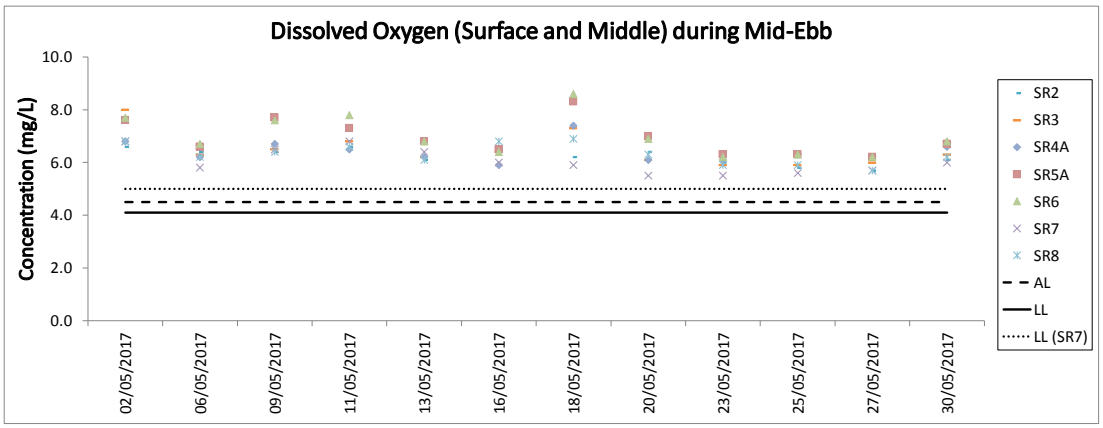
27/05/2017
30/05/2017
IM7
IM8
IM9
IM10
IM11
IM12
IM13
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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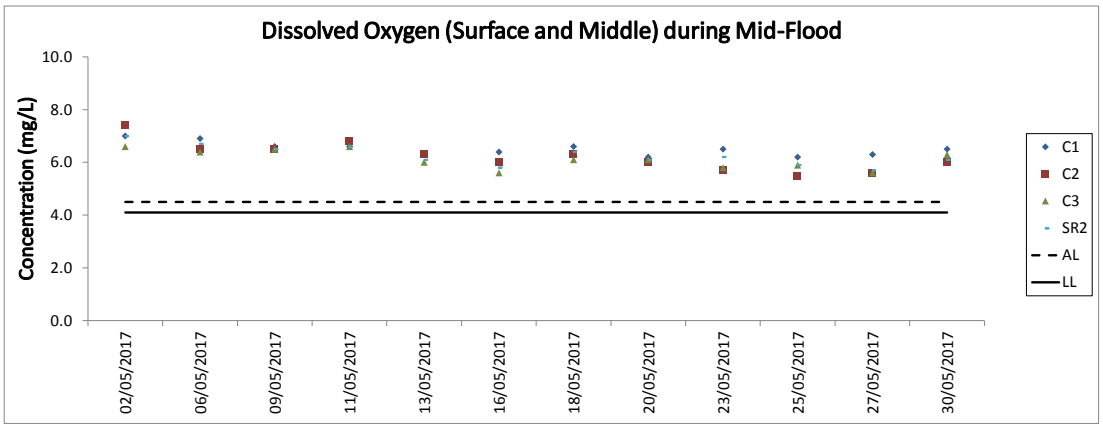
6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
20/05/2017
23/05/2017
25/05/2017
27/05/2017
30/05/2017
SR2
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL
LL (SR7)


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
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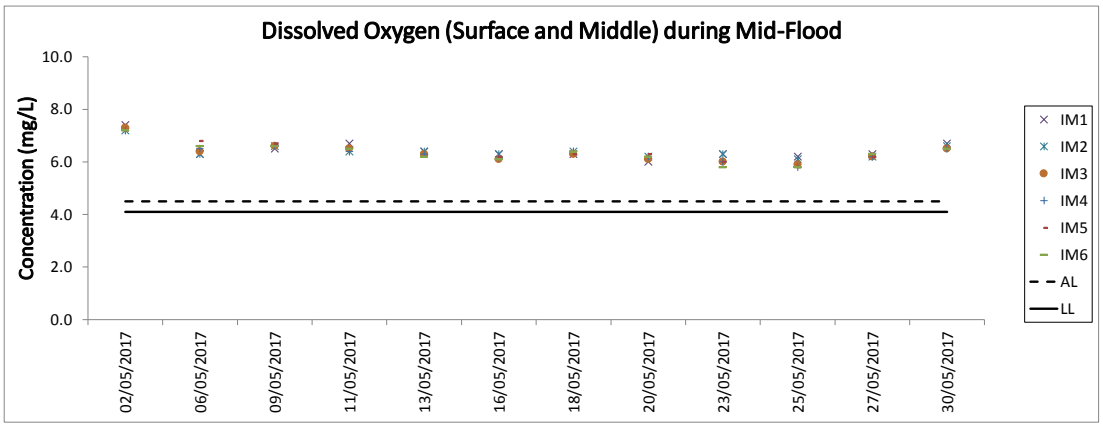
23/05/2017
25/05/2017
27/05/2017
30/05/2017
C1
C2
C3
SR2
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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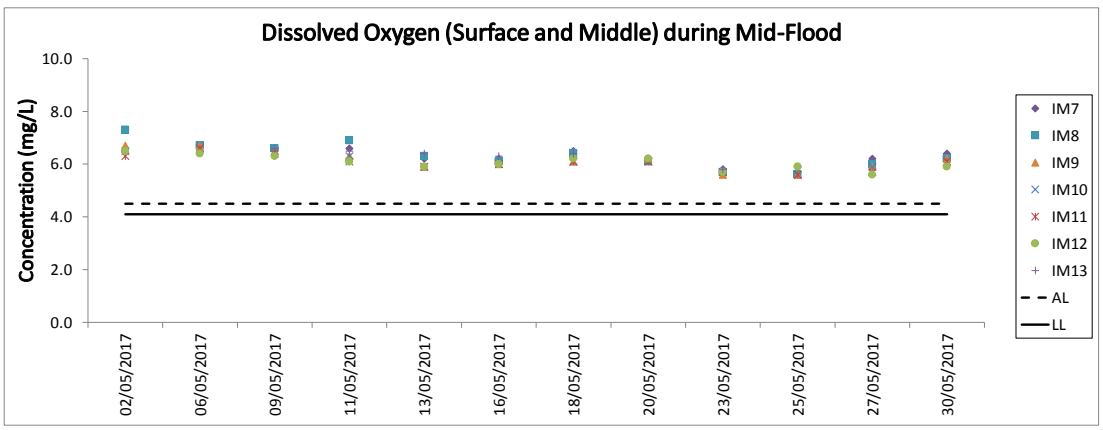
6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
20/05/2017
23/05/2017
25/05/2017
27/05/2017
30/05/2017
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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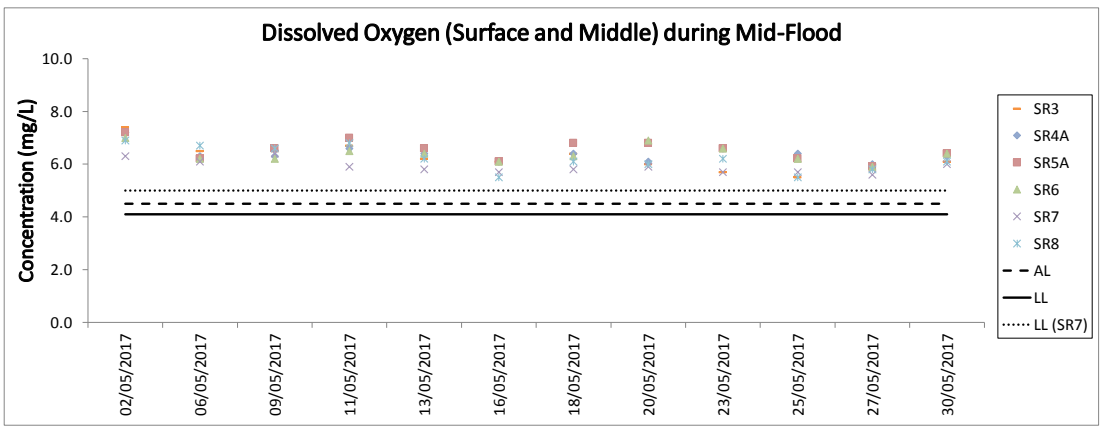
8.0
6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
20/05/2017
23/05/2017
25/05/2017
27/05/2017
30/05/2017
IM7
IM8
IM9
IM10
IM11
IM12
IM13
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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8.0
6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
20/05/2017
23/05/2017
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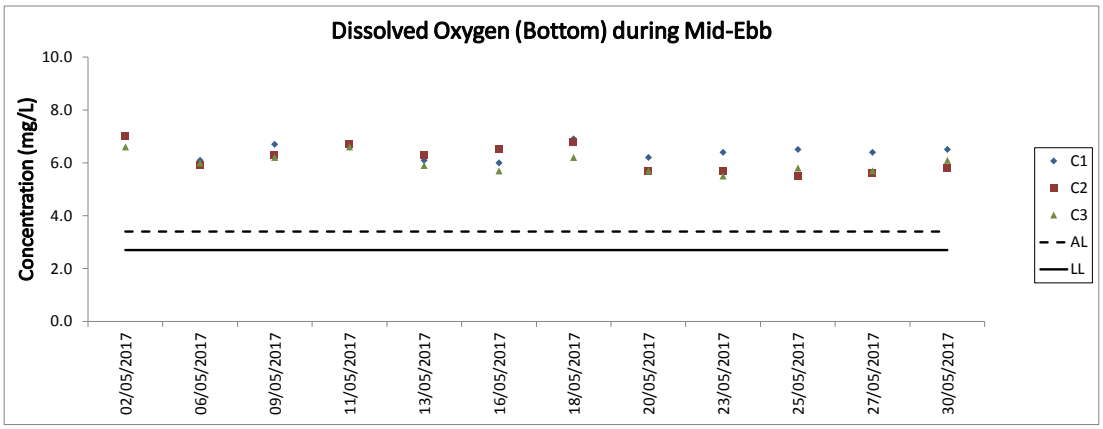
30/05/2017
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL
LL (SR7)


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
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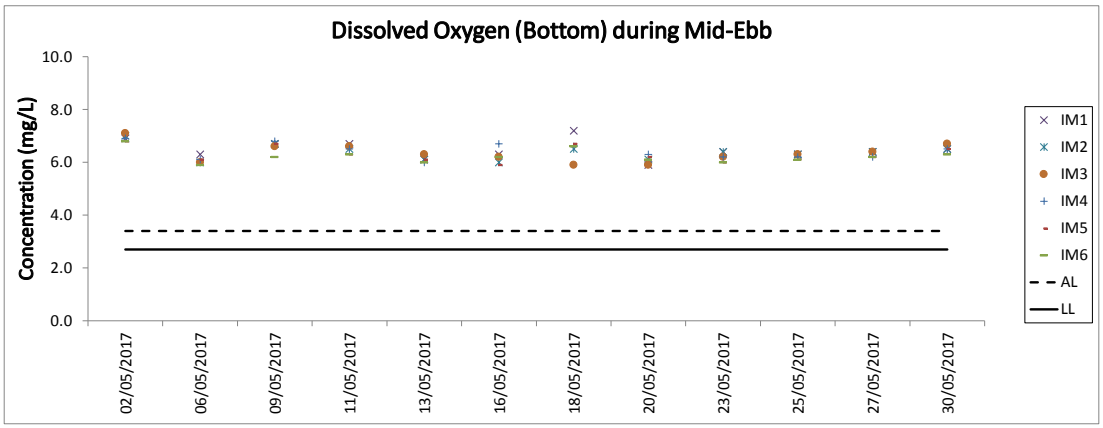
23/05/2017
25/05/2017
27/05/2017
30/05/2017
C1
C2
C3
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
20/05/2017
23/05/2017
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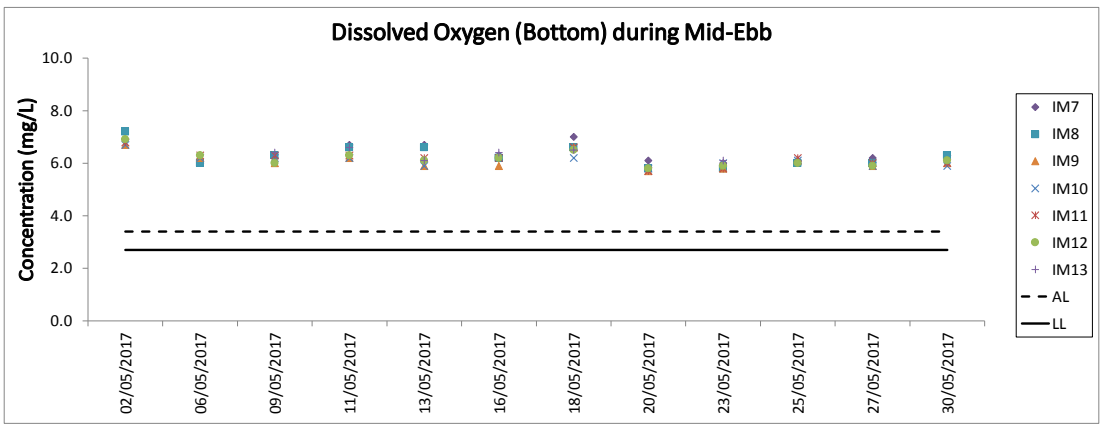
27/05/2017
30/05/2017
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
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IM7
IM8
IM9
IM10
IM11
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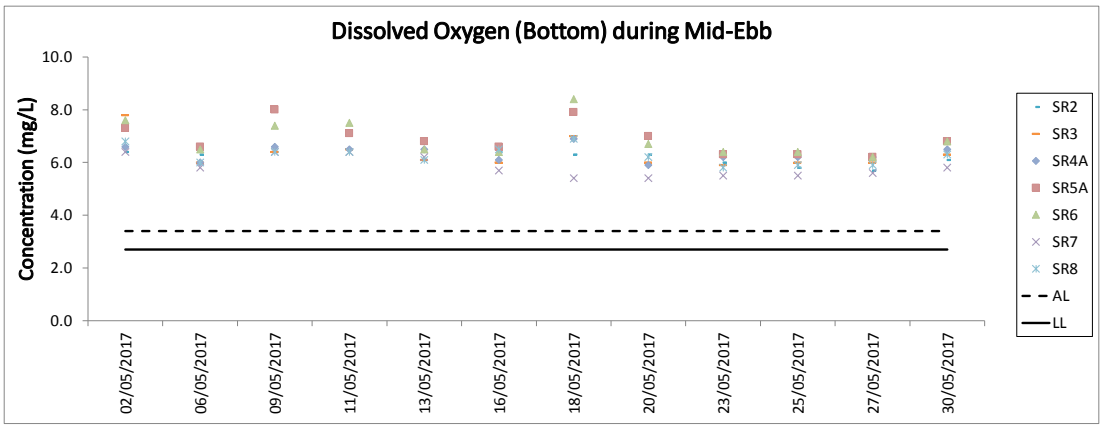
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
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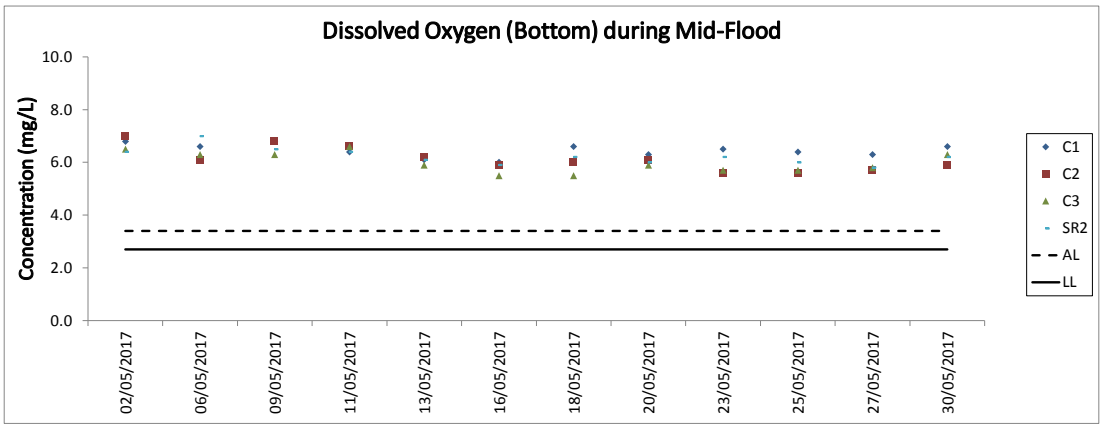
30/05/2017
SR2
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
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6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
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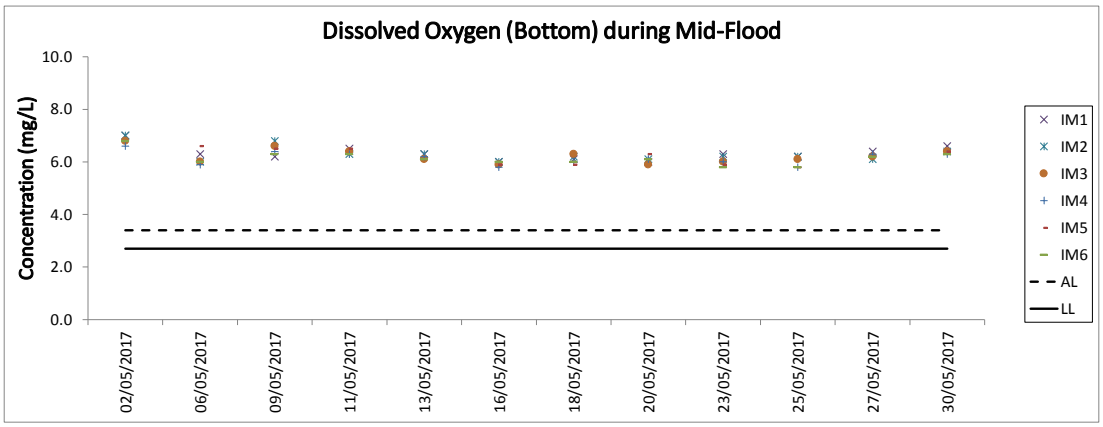
23/05/2017
25/05/2017
27/05/2017
30/05/2017
C1
C2
C3
SR2
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
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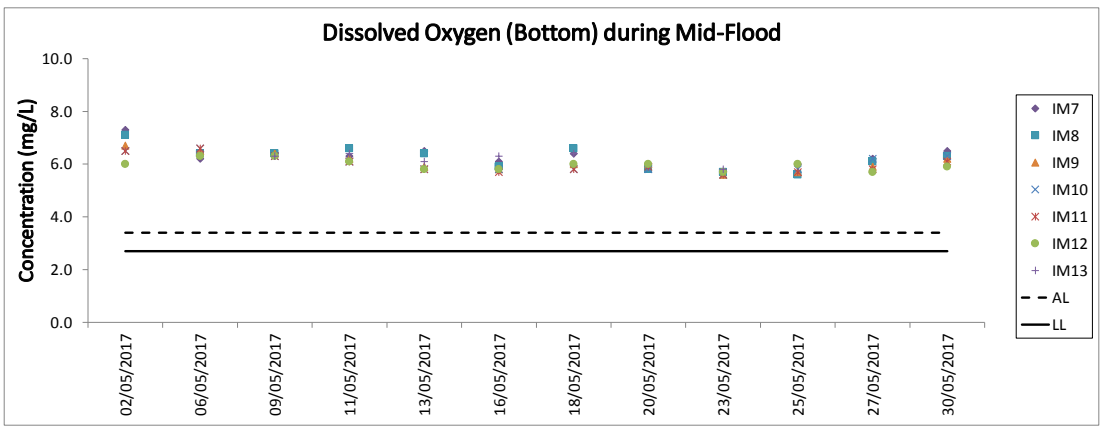
6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
20/05/2017
23/05/2017
25/05/2017
27/05/2017
30/05/2017
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
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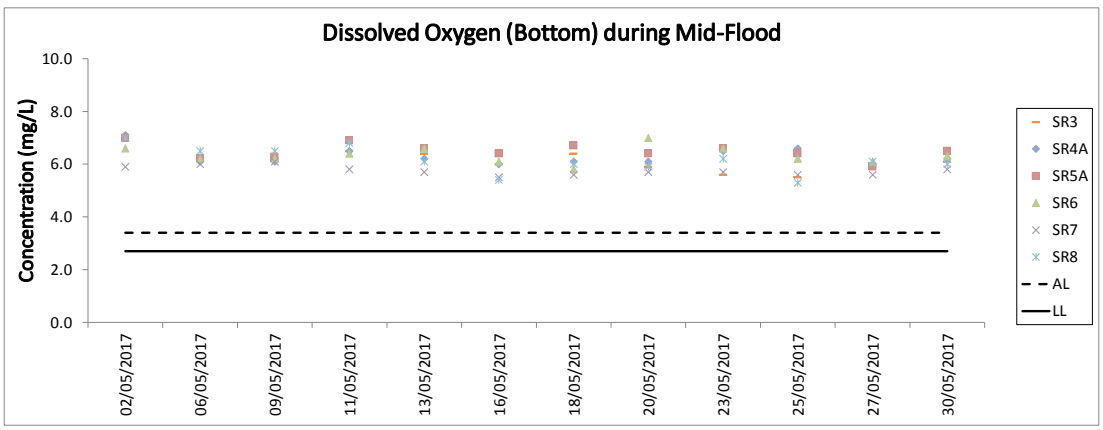
8.0
6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
20/05/2017
23/05/2017
25/05/2017
27/05/2017
30/05/2017
IM7
IM8
IM9
IM10
IM11
IM12
IM13
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
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6.0
4.0
2.0
0.0
02/05/2017
06/05/2017
09/05/2017
11/05/2017
13/05/2017
16/05/2017
18/05/2017
20/05/2017
23/05/2017
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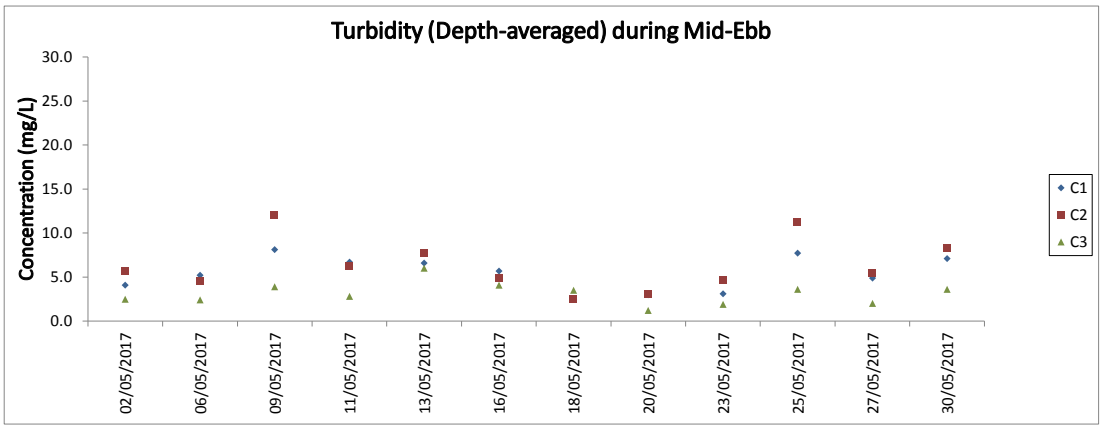
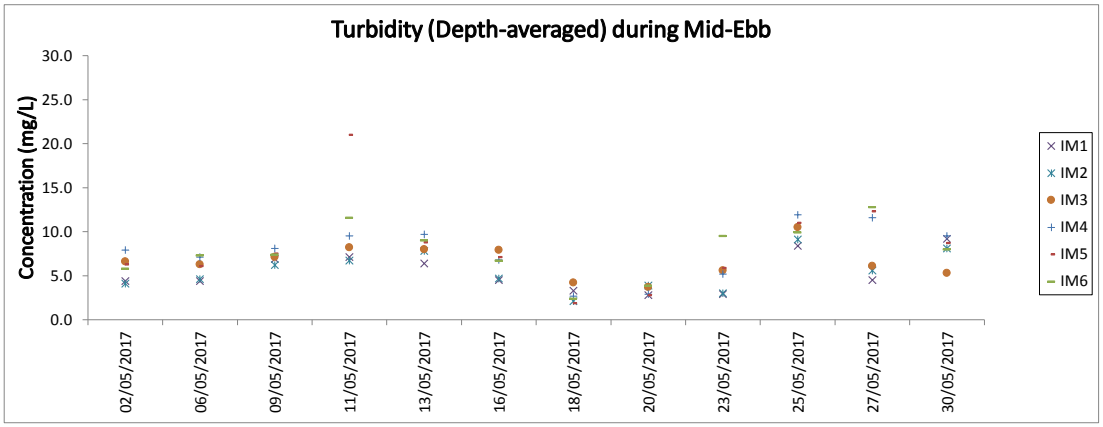
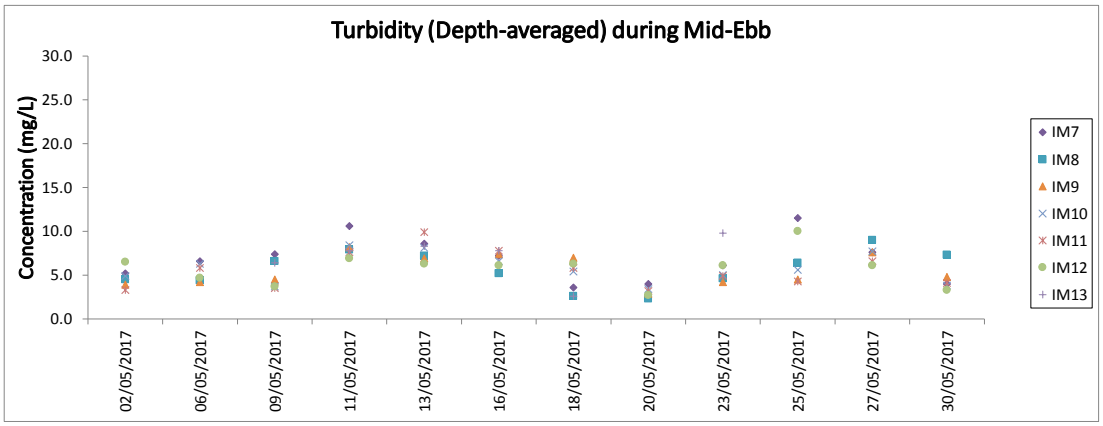
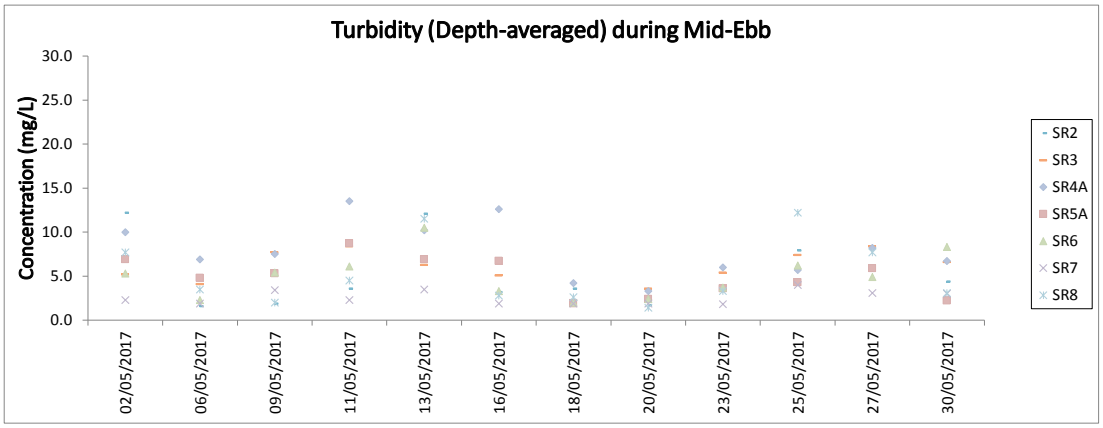
27/05/2017
30/05/2017
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL

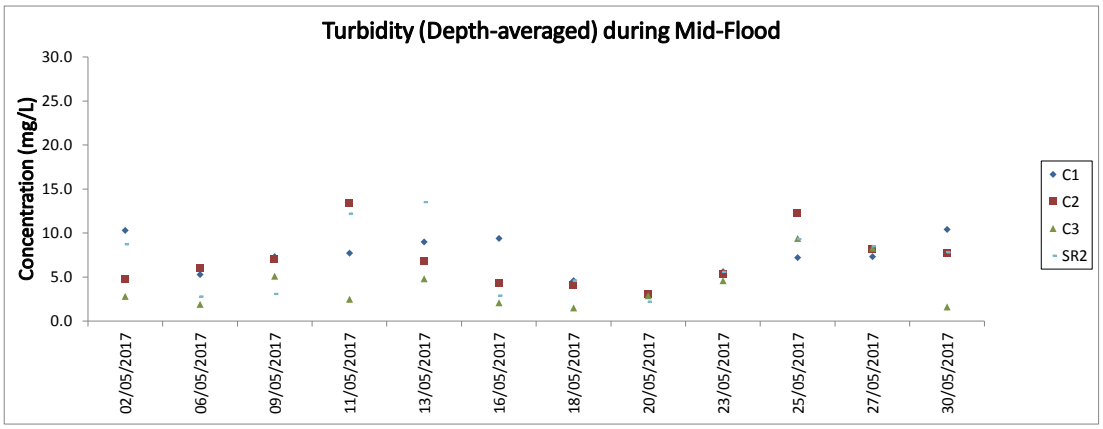


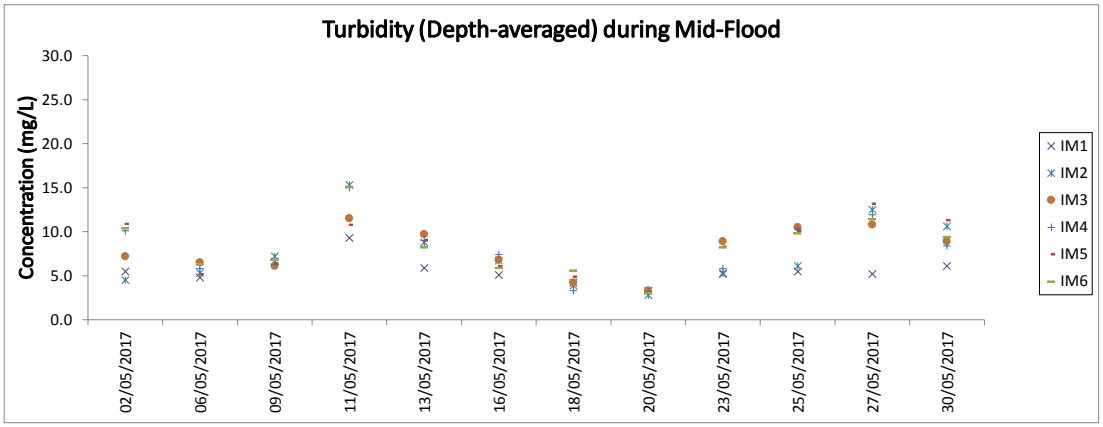


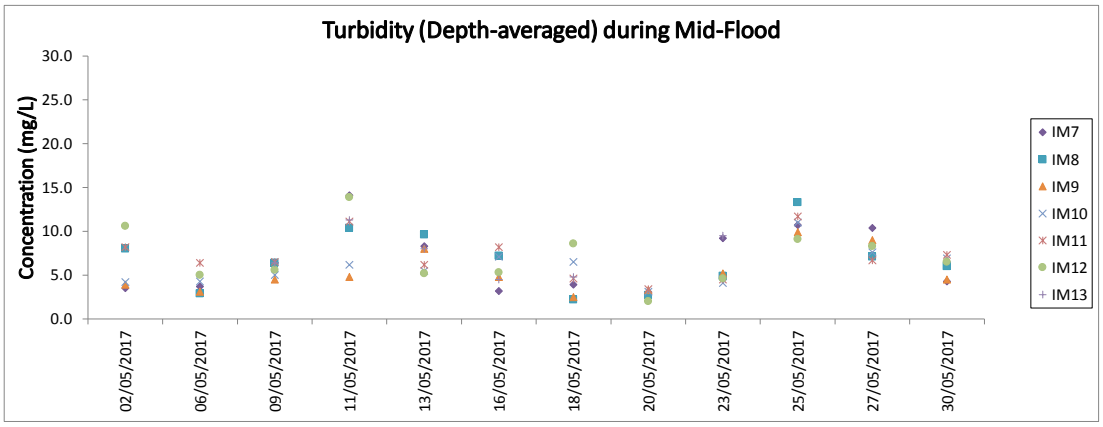


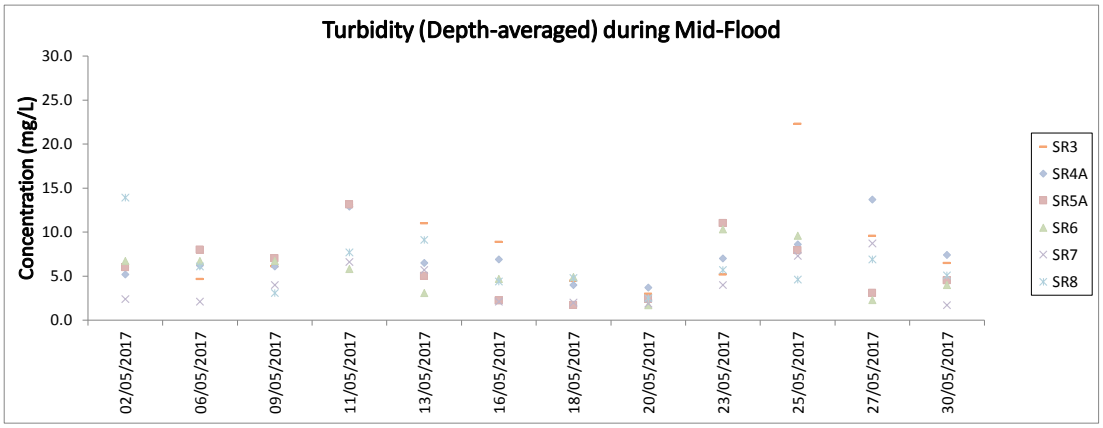


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

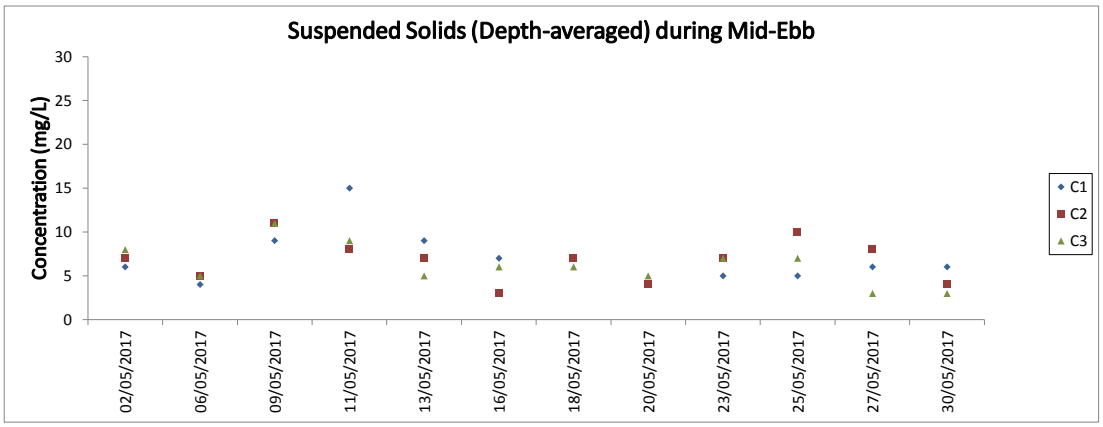


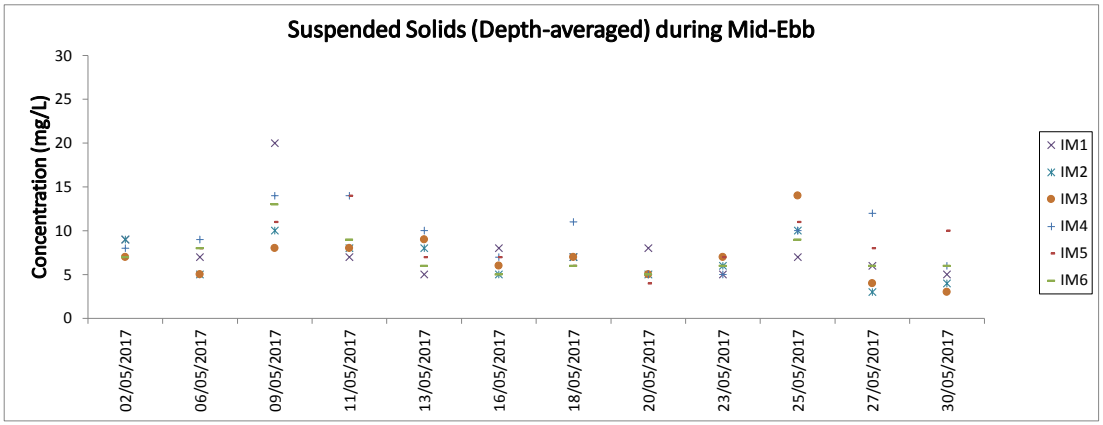


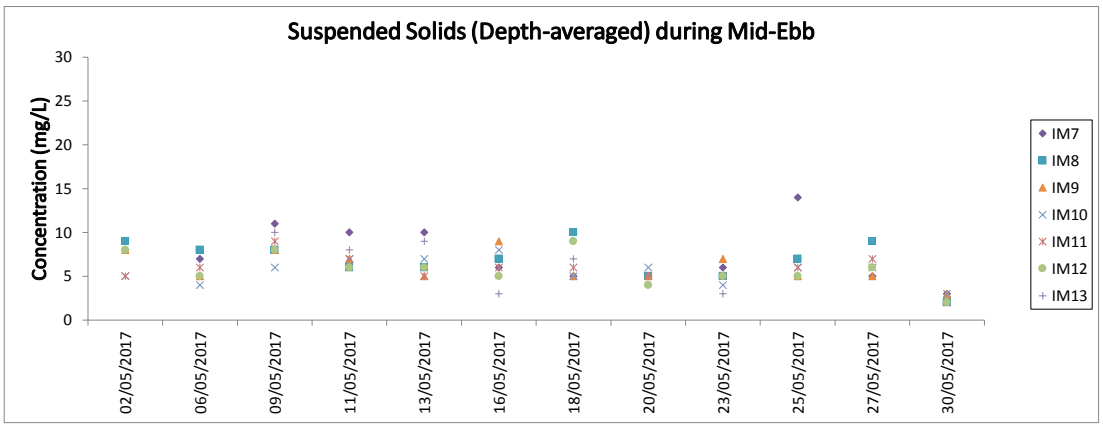


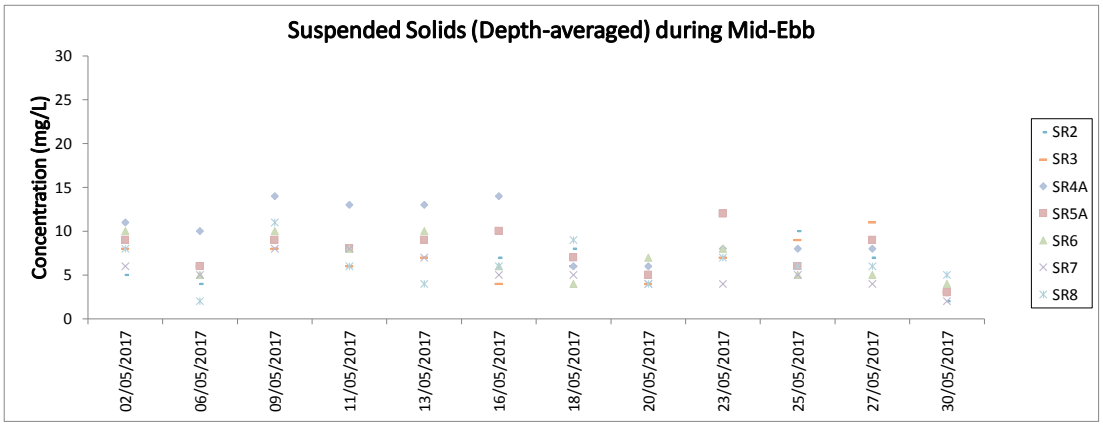


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

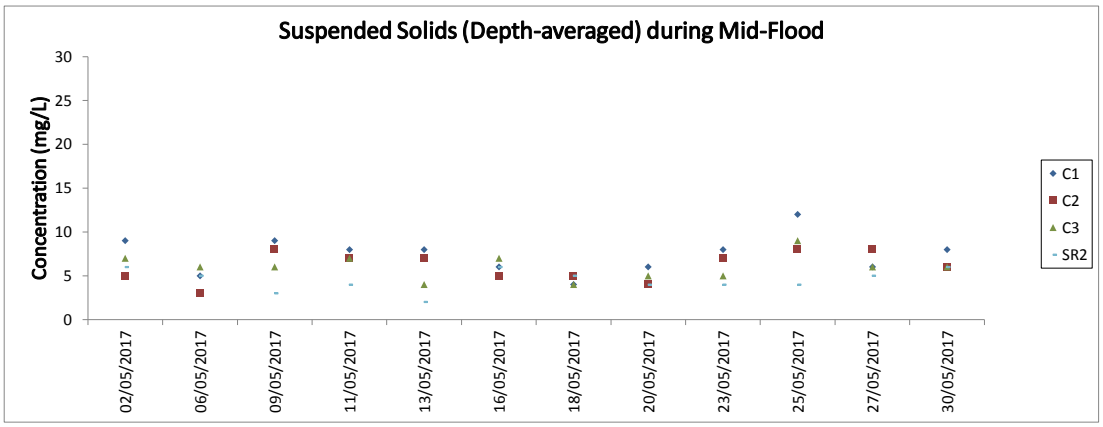


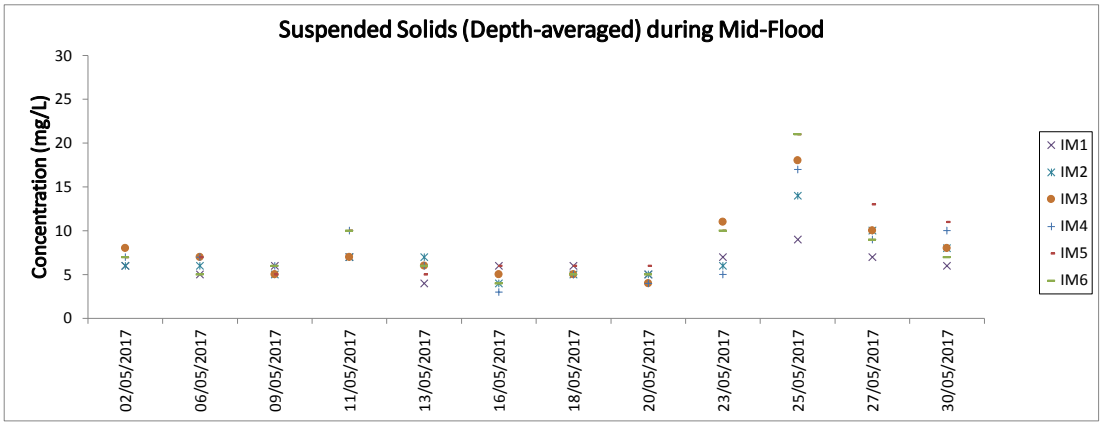


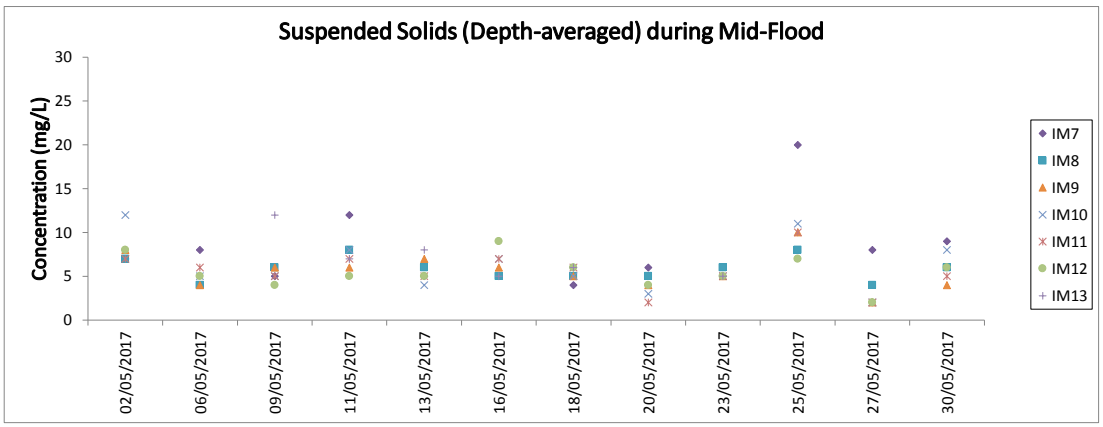


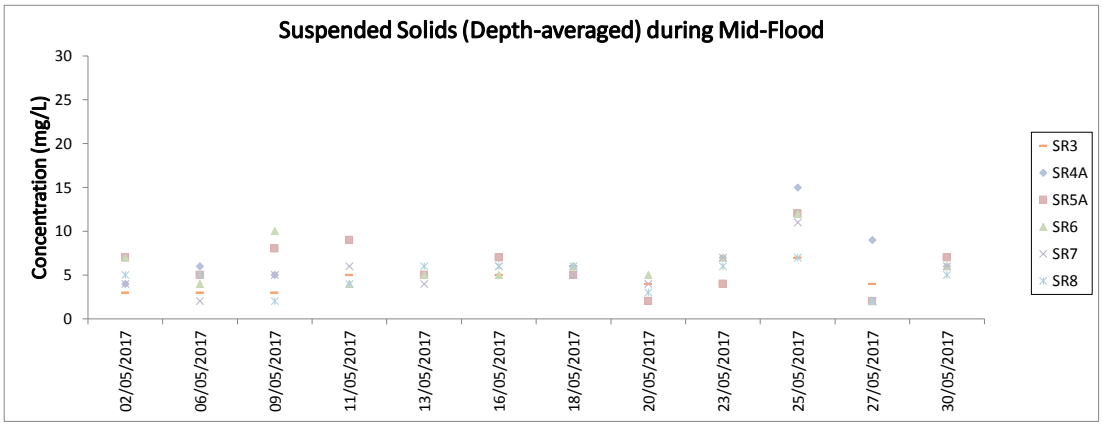


Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.

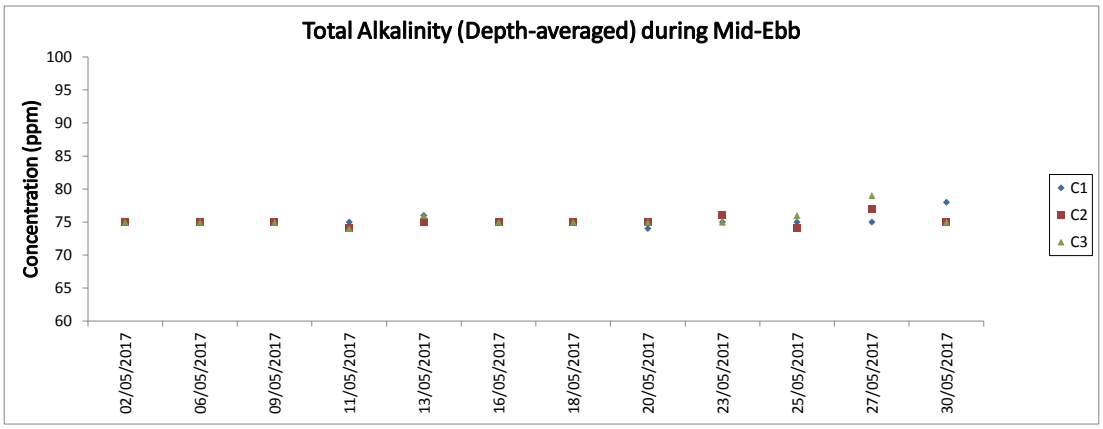


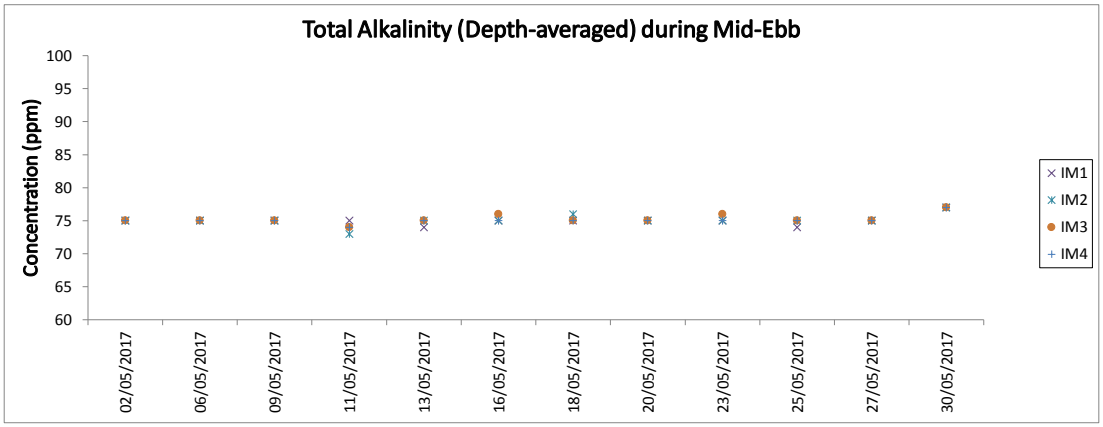


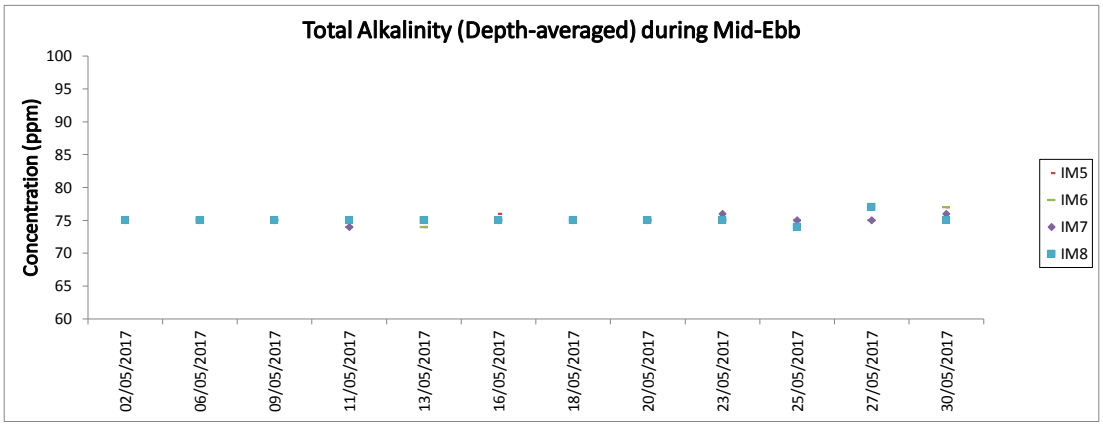


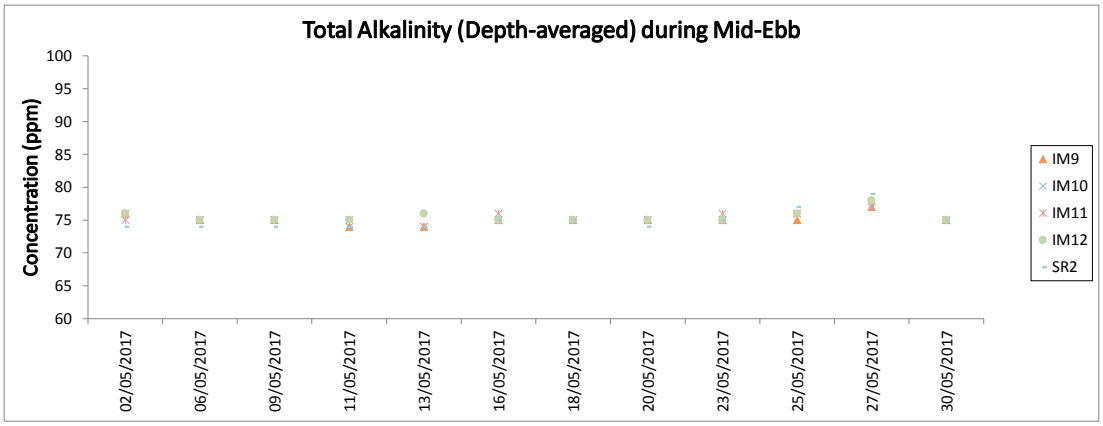


Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.

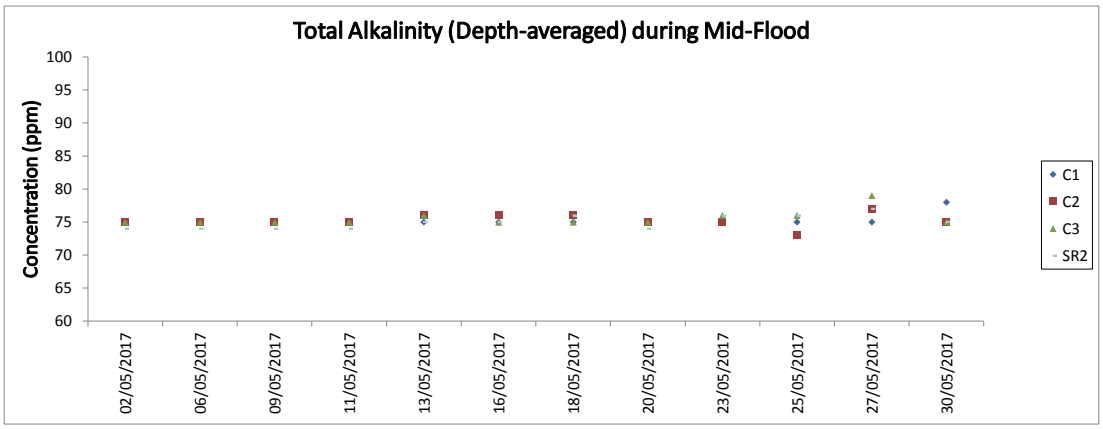


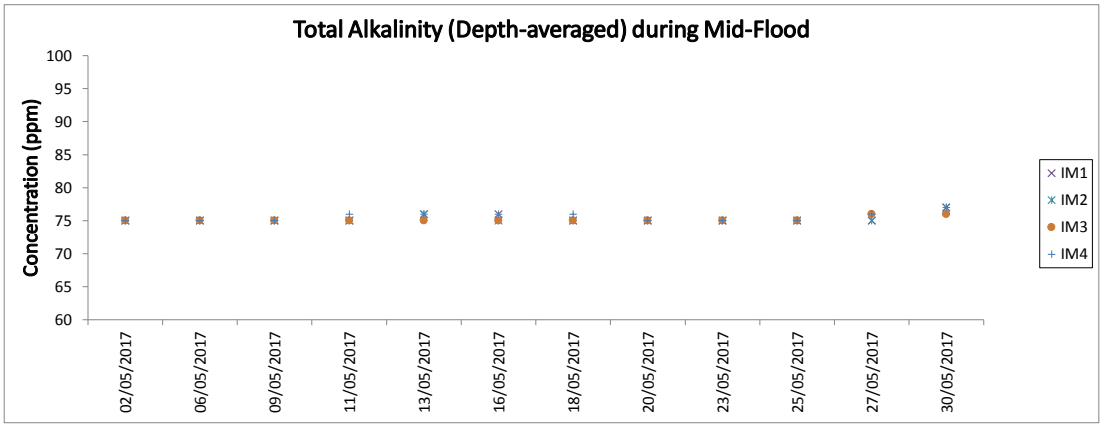


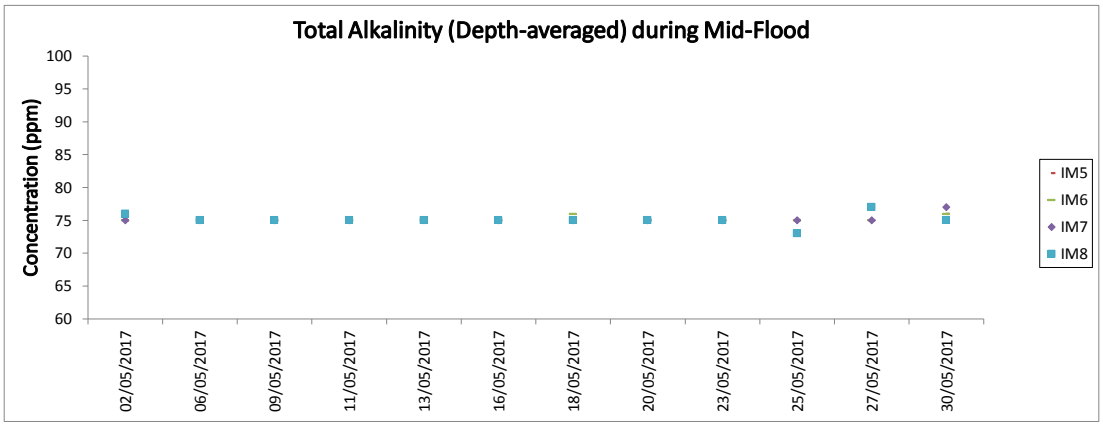


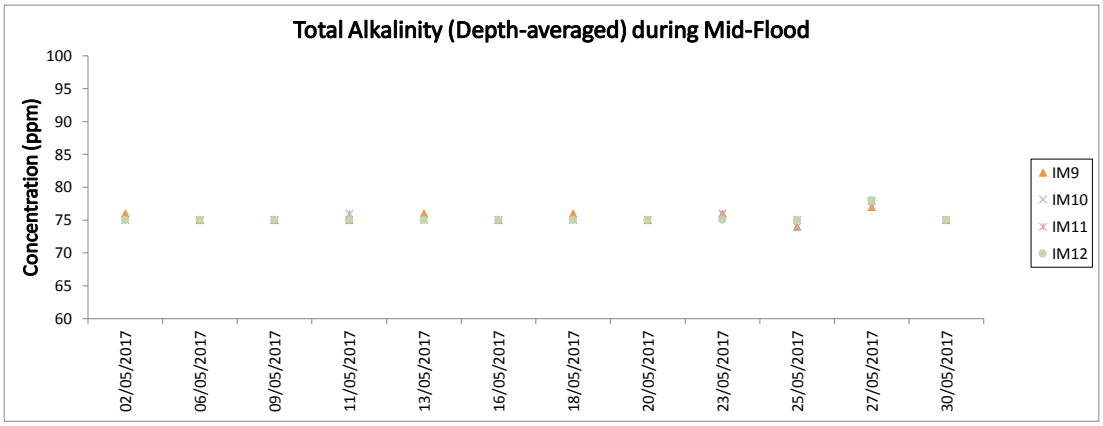


Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.

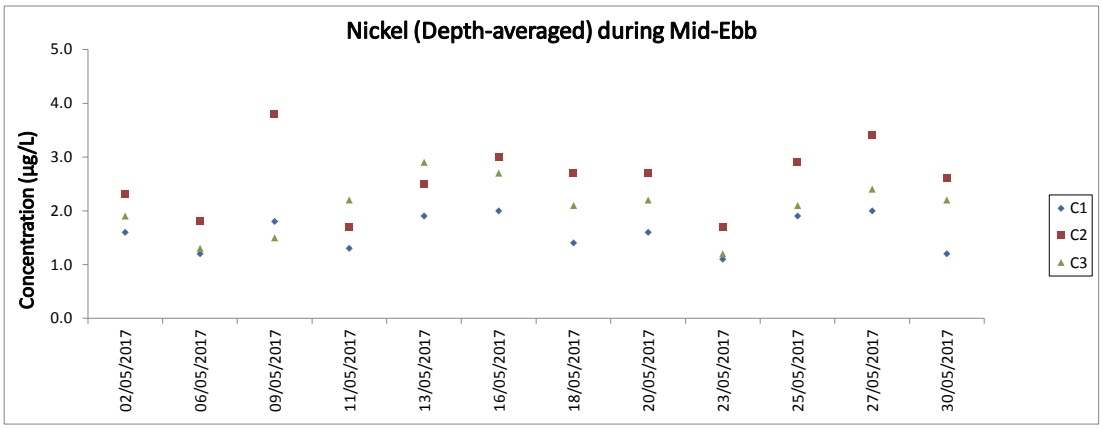


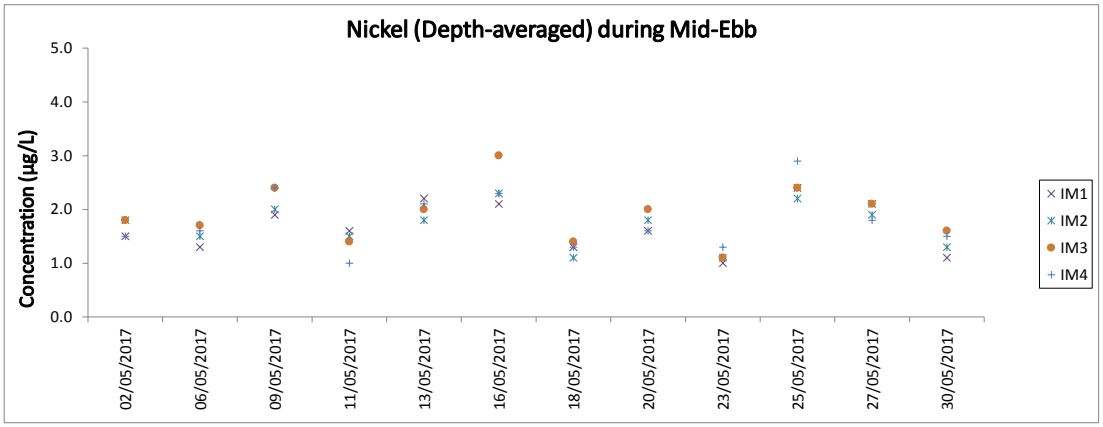


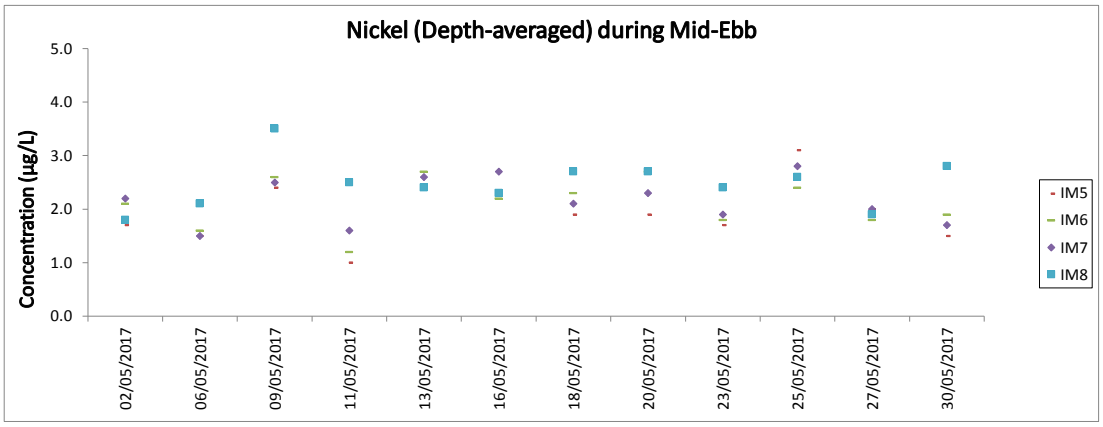


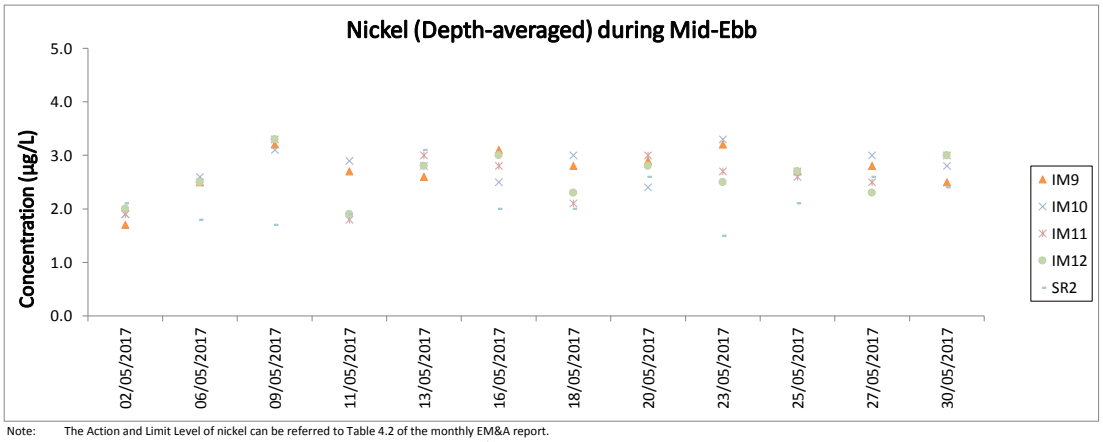


Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.

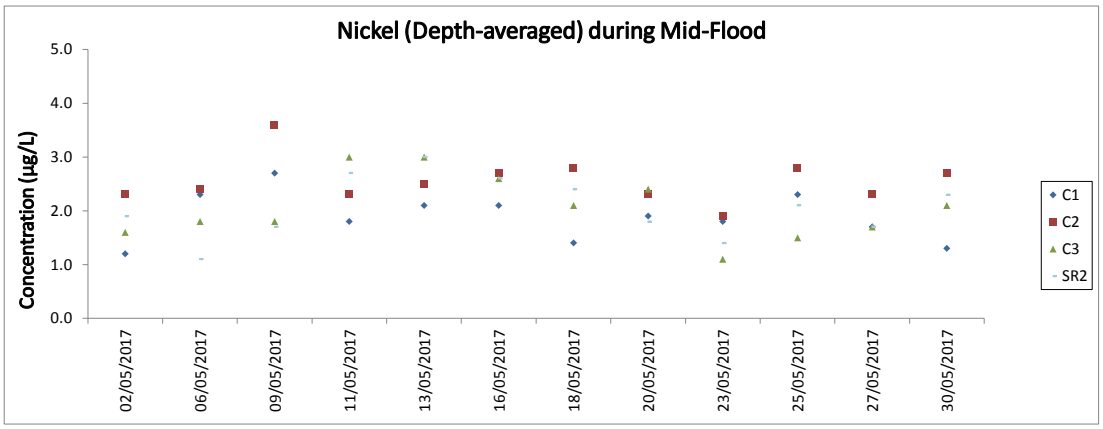


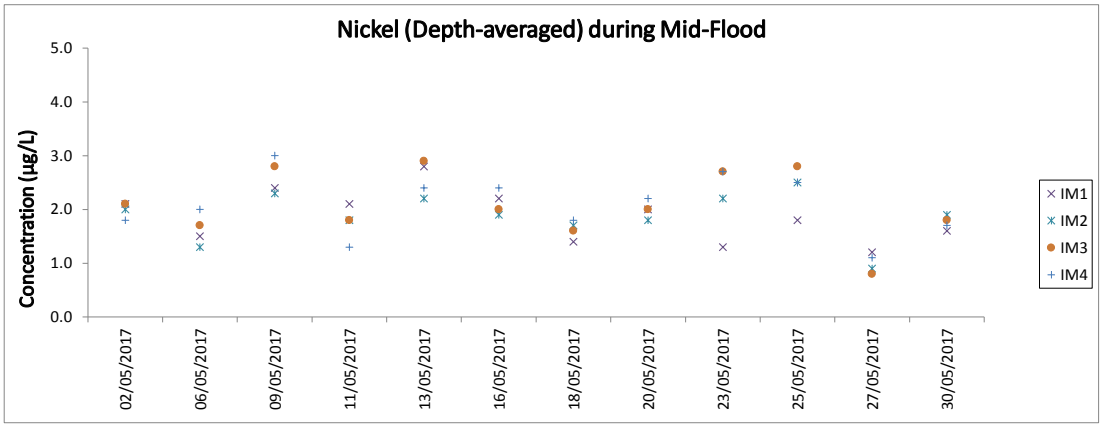


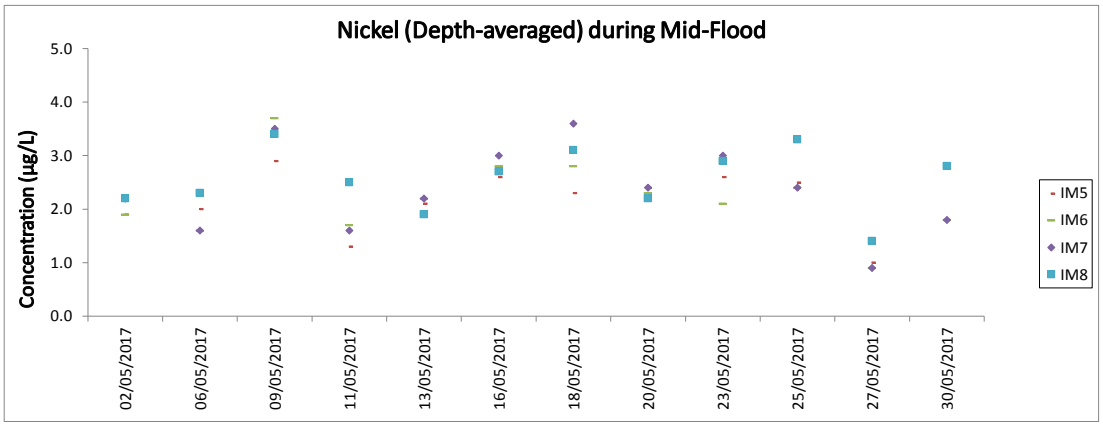


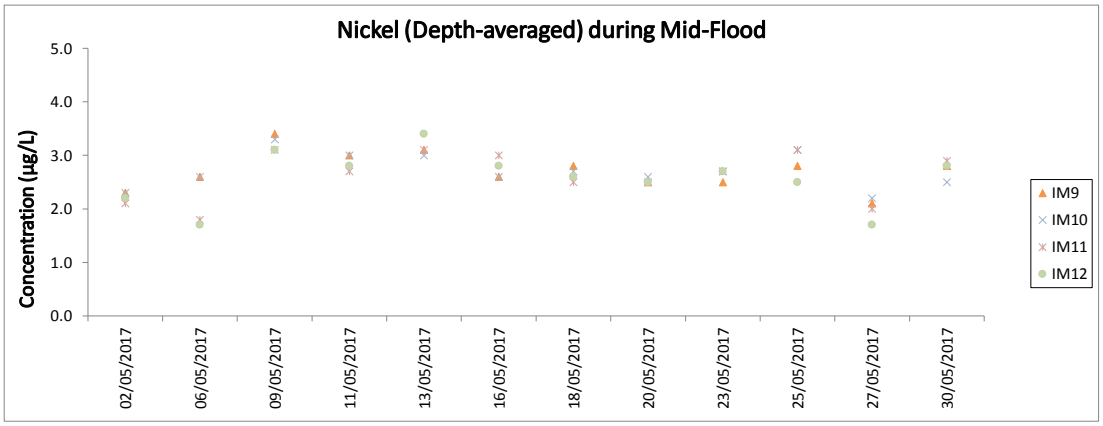


Note: The Action and Limit Level of nickel can be referred to Table 4.2 of the monthly EM&A report.
All chromium results in the reporting period was below the reporting limit 0.2 µg/L.









Note: The Action and Limit Level of nickel can be referred to Table 4.2 of the monthly EM&A report.
All chromium results in the reporting period was below the reporting limit 0.2 µg/L.

Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey — Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
06-Mar-17	NWL	1	5.00	SPRING	32166	3RS ET
06-Mar-17	NWL	2	17.10	SPRING	32166	3RS ET
06-Mar-17	NWL	3	50.10	SPRING	32166	3RS ET
06-Mar-17	NWL	4	3.70	SPRING	32166	3RS ET
10-Mar-17	NEL	1	1.00	SPRING	32166	3RS ET
10-Mar-17	NEL	2	11.75	SPRING	32166	3RS ET
10-Mar-17	NEL	3	34.25	SPRING	32166	3RS ET
13-Mar-17	AW	2	4.72	SPRING	32166	3RS ET
13-Mar-17	WL	2	12.18	SPRING	32166	3RS ET
13-Mar-17	WL	3	20.82	SPRING	32166	3RS ET
13-Mar-17	SWL	2	12.50	SPRING	32166	3RS ET
14-Mar-17	SWL	3	22.60	SPRING	32166	3RS ET
14-Mar-17	SWL	4	18.78	SPRING	32166	3RS ET
14-Mar-17	SWL	5	16.02	SPRING	32166	3RS ET
20-Mar-17	SWL	2	36.22	SPRING	32166	3RS ET
20-Mar-17	SWL	3	26.04	SPRING	32166	3RS ET
21-Mar-17	AW	1	4.85	SPRING	32166	3RS ET
21-Mar-17	WL	1	9.95	SPRING	32166	3RS ET
21-Mar-17	WL	2	19.08	SPRING	32166	3RS ET
21-Mar-17	WL	3	2.33	SPRING	32166	3RS ET
21-Mar-17	SWL	2	0.38	SPRING	32166	3RS ET
21-Mar-17	SWL	3	6.43	SPRING	32166	3RS ET
23-Mar-17	NWL	1	32.61	SPRING	32166	3RS ET
23-Mar-17	NWL	2	43.77	SPRING	32166	3RS ET
24-Mar-17	NEL	3	27.72	SPRING	32166	3RS ET
24-Mar-17	NEL	4	18.88	SPRING	32166	3RS ET
05-Apr-17	NWL	1	3.00	SPRING	32166	3RS ET
05-Apr-17	NWL	2	38.73	SPRING	32166	3RS ET
05-Apr-17	NWL	3	32.70	SPRING	32166	3RS ET
10-Apr-17	AW	2	1.92	SPRING	32166	3RS ET
10-Apr-17	AW	3	1.09	SPRING	32166	3RS ET
10-Apr-17	AW	4	1.81	SPRING	32166	3RS ET
10-Apr-17	WL	3	24.72	SPRING	32166	3RS ET
10-Apr-17	WL	4	8.88	SPRING	32166	3RS ET
10-Apr-17	SWL	2	8.94	SPRING	32166	3RS ET
10-Apr-17	SWL	3	3.36	SPRING	32166	3RS ET
11-Apr-17	SWL	1	20.09	SPRING	32166	3RS ET
11-Apr-17	SWL	2	32.09	SPRING	32166	3RS ET
11-Apr-17	SWL	3	4.90	SPRING	32166	3RS ET
12-Apr-17	NEL	1	13.48	SPRING	32166	3RS ET
12-Apr-17	NEL	2	26.22	SPRING	32166	3RS ET
12-Apr-17	NEL	3	7.30	SPRING	32166	3RS ET
18-Apr-17	AW	3	4.87	SPRING	32166	3RS ET
18-Apr-17	WL	2	25.68	SPRING	32166	3RS ET
18-Apr-17	WL	3	4.96	SPRING	32166	3RS ET
18-Apr-17	SWL	1	0.82	SPRING	32166	3RS ET

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
18-Apr-17	SWL	2	5.05	SPRING	32166	3RS ET
24-Apr-17	NEL	2	26.15	SPRING	32166	3RS ET
24-Apr-17	NEL	3	20.65	SPRING	32166	3RS ET
25-Apr-17	NWL	2	1.10	SPRING	32166	3RS ET
25-Apr-17	NWL	3	35.32	SPRING	32166	3RS ET
25-Apr-17	NWL	4	38.88	SPRING	32166	3RS ET
26-Apr-17	SWL	1	1.40	SPRING	32166	3RS ET
26-Apr-17	SWL	2	40.23	SPRING	32166	3RS ET
26-Apr-17	SWL	3	20.41	SPRING	32166	3RS ET
04-May-17	SWL	1	1.19	SPRING	32166	3RS ET
04-May-17	SWL	2	43.26	SPRING	32166	3RS ET
04-May-17	SWL	3	17.45	SPRING	32166	3RS ET
05-May-17	AW	1	5.01	SPRING	32166	3RS ET
05-May-17	WL	2	24.61	SPRING	32166	3RS ET
05-May-17	WL	3	7.32	SPRING	32166	3RS ET
05-May-17	SWL	1	2.63	SPRING	32166	3RS ET
05-May-17	SWL	2	4.26	SPRING	32166	3RS ET
08-May-17	NWL	3	51.35	SPRING	32166	3RS ET
08-May-17	NWL	4	24.05	SPRING	32166	3RS ET
09-May-17	NEL	2	40.30	SPRING	32166	3RS ET
09-May-17	NEL	3	7.10	SPRING	32166	3RS ET
11-May-17	AW	1	4.59	SPRING	32166	3RS ET
11-May-17	WL	1	13.04	SPRING	32166	3RS ET
11-May-17	WL	2	2.62	SPRING	32166	3RS ET
11-May-17	WL	3	7.06	SPRING	32166	3RS ET
11-May-17	WL	4	5.22	SPRING	32166	3RS ET
11-May-17	SWL	2	0.52	SPRING	32166	3RS ET
11-May-17	SWL	3	2.05	SPRING	32166	3RS ET
11-May-17	SWL	4	2.97	SPRING	32166	3RS ET
17-May-17	NWL	1	8.70	SPRING	32166	3RS ET
17-May-17	NWL	2	60.60	SPRING	32166	3RS ET
17-May-17	NWL	3	6.30	SPRING	32166	3RS ET
22-May-17	NEL	2	6.96	SPRING	32166	3RS ET
22-May-17	NEL	3	27.14	SPRING	32166	3RS ET
22-May-17	NEL	4	12.70	SPRING	32166	3RS ET
23-May-17	SWL	2	26.84	SPRING	32166	3RS ET
23-May-17	SWL	3	33.16	SPRING	32166	3RS ET

Notes:

CWD monitoring survey data of the two preceding survey months (i.e. March and April 2017) are presented for reference only.

CWD Small Vessel Line-transect Survey — Sighting Data

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
13-Mar-17	1	1130	CWD	4	WL	2	374	ON	3RS ET	22.2229	113.8269	SPRING	NONE
14-Mar-17	1	1045	FP	1	SWL	4	N/A	OFF	3RS ET	22.1827	113.9356	SPRING	NONE
14-Mar-17	2	1214	FP	1	SWL	5	N/A	ON	3RS ET	22.1461	113.9081	SPRING	NONE
20-Mar-17	1	1025	CWD	1	SWL	2	209	ON	3RS ET	22.2001	113.8688	SPRING	GILLNET
20-Mar-17	2	1211	FP	1	SWL	2	100	ON	3RS ET	22.1622	113.8978	SPRING	NONE
20-Mar-17	3	1257	CWD	1	SWL	2	36	ON	3RS ET	22.1846	113.9041	SPRING	NONE
20-Mar-17	4	1432	FP	3	SWL	3	108	ON	3RS ET	22.1470	113.9278	SPRING	NONE
20-Mar-17	5	1439	FP	2	SWL	3	63	ON	3RS ET	22.1472	113.9326	SPRING	NONE
20-Mar-17	6	1457	FP	2	SWL	3	24	ON	3RS ET	22.1816	113.9359	SPRING	NONE
21-Mar-17	1	1025	CWD	4	WL	1	202	ON	3RS ET	22.2603	113.8533	SPRING	PURSE SEINE
21-Mar-17	2	1214	CWD	13	WL	3	397	ON	3RS ET	22.1980	113.8262	SPRING	PURSE SEINE
21-Mar-17	3	1242	CWD	7	WL	2	1163	ON	3RS ET	22.1870	113.8386	SPRING	PURSE SEINE
23-Mar-17	1	1128	CWD	3	NWL	1	123	ON	3RS ET	22.3779	113.8767	SPRING	NONE
23-Mar-17	2	1222	CWD	3	NWL	1	19	ON	3RS ET	22.3733	113.8881	SPRING	NONE
05-Apr-17	1	1132	CWD	2	NWL	2	128	ON	3RS ET	22.3787	113.8765	SPRING	NONE
05-Apr-17	2	1147	CWD	3	NWL	2	16	ON	3RS ET	22.3827	113.8768	SPRING	NONE
11-Apr-17	1	1042	FP	1	SWL	1	336	ON	3RS ET	22.1801	113.9363	SPRING	NONE
11-Apr-17	2	1051	FP	6	SWL	1	3	ON	3RS ET	22.1699	113.9359	SPRING	NONE
11-Apr-17	3	1103	FP	5	SWL	1	43	ON	3RS ET	22.1561	113.9358	SPRING	NONE
11-Apr-17	4	1212	FP	5	SWL	2	363	ON	3RS ET	22.1480	113.9180	SPRING	NONE
18-Apr-17	1	1023	CWD	1	WL	3	17	ON	3RS ET	22.2698	113.8441	SPRING	NONE
18-Apr-17	2	1047	CWD	7	WL	2	580	ON	3RS ET	22.2605	113.8488	SPRING	NONE
18-Apr-17	3	1113	CWD	5	WL	2	277	ON	3RS ET	22.2578	113.8378	SPRING	NONE
18-Apr-17	4	1246	CWD	3	WL	2	278	ON	3RS ET	22.1873	113.8417	SPRING	NONE
18-Apr-17	5	1302	CWD	5	WL	2	450	ON	3RS ET	22.1870	113.8378	SPRING	NONE
18-Apr-17	6	1330	CWD	2	SWL	2	40	ON	3RS ET	22.1831	113.8499	SPRING	NONE
18-Apr-17	7	1406	CWD	2	SWL	2	512	ON	3RS ET	22.1925	113.8595	SPRING	NONE
26-Apr-17	1	1022	CWD	1	SWL	2	48	ON	3RS ET	22.2170	113.9356	SPRING	PURSE SEINE
26-Apr-17	2	1224	FP	2	SWL	2	89	ON	3RS ET	22.1526	113.9068	SPRING	NONE
26-Apr-17	3	1441	CWD	3	SWL	3	55	ON	3RS ET	22.1699	113.8684	SPRING	NONE
26-Apr-17	4	1456	CWD	2	SWL	3	755	ON	3RS ET	22.1692	113.8691	SPRING	NONE

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
04-May-17	1	1423	CWD	2	SWL	1	318	ON	3RS ET	22.2114	113.8839	SPRING	NONE
05-May-17	1	1032	CWD	11	WL	3	143	ON	3RS ET	22.2318	113.8279	SPRING	NONE
05-May-17	2	1121	CWD	3	WL	2	263	ON	3RS ET	22.2231	113.8363	SPRING	NONE
05-May-17	3	1135	CWD	1	WL	2	271	ON	3RS ET	22.2230	113.8263	SPRING	NONE
05-May-17	4	1211	CWD	5	WL	2	343	ON	3RS ET	22.2053	113.8398	SPRING	NONE
05-May-17	5	1305	CWD	7	WL	2	650	ON	3RS ET	22.1966	113.8405	SPRING	NONE
11-May-17	1	1041	CWD	1	WL	1	171	ON	3RS ET	22.2598	113.8467	SPRING	NONE
11-May-17	2	1118	CWD	9	WL	1	800	ON	3RS ET	22.2466	113.8511	SPRING	NONE
11-May-17	3	1148	CWD	13	WL	2	442	ON	3RS ET	22.2414	113.8442	SPRING	NONE
11-May-17	4	1217	CWD	6	WL	2	118	ON	3RS ET	22.2407	113.8333	SPRING	NONE
11-May-17	5	1228	CWD	6	WL	1	79	ON	3RS ET	22.2378	113.8266	SPRING	NONE
11-May-17	6	1236	CWD	7	WL	2	760	ON	3RS ET	22.2316	113.8287	SPRING	NONE
11-May-17	7	1315	CWD	9	WL	3	306	ON	3RS ET	22.2231	113.8195	SPRING	NONE
11-May-17	8	1335	CWD	11	WL	3	26	ON	3RS ET	22.2157	113.8177	SPRING	NONE
11-May-17	9	1432	CWD	6	WL	3	1021	ON	3RS ET	22.1867	113.8433	SPRING	NONE
11-May-17	10	1513	CWD	6	SWL	4	409	ON	3RS ET	22.1827	113.8498	SPRING	NONE
11-May-17	11	1543	CWD	4	SWL	3	354	ON	3RS ET	22.1967	113.8590	SPRING	NONE
23-May-17	1	1115	CWD	2	SWL	3	1472	ON	3RS ET	22.1802	113.9281	SPRING	NONE
23-May-17	2	1459	CWD	2	SWL	2	N/A	OFF	3RS ET	22.2029	113.8976	SPRING	NONE

Abbreviations: STG# = Sighting Number; GP SZ = Dolphin Group Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance (in metres); N/A = Not Applicable; DEC LAT = Latitude (WGS84 in Decimal), DEC LON = Longitude (WGS84 in Decimal); BOAT ASSOC. = Fishing Boat Association

Notes:

CWD monitoring survey data of the two preceding survey months (i.e. March and April 2017) are presented for reference only. No relevant figure or text will be mentioned in the monthly EM&A report.

Sighting data of finless porpoise (FP) are presented for reference only. No relevant figure or text will be mentioned in the monthly EM&A report. All FP sightings are excluded in calculation.

Calculation of the May 2017 encounter rates STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 404.06 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 17 on-effort sightings and total number of 103 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in May 2017 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in May 2017

$$STG = \frac{17}{404.06}\ x\ 100 = 4.21$$

Encounter Rate by Number of Dolphins (ANI) in May 2017

$$ANI = \frac{103}{404.06}\ x\ 100 = 25.49$$

Calculation of the running quarterly STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 1210.64 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 37 on-effort sightings and total number of 175 dolphins from on-effort sightings were collected under such condition. Calculation of the running quarterly encounter rates are shown as below:

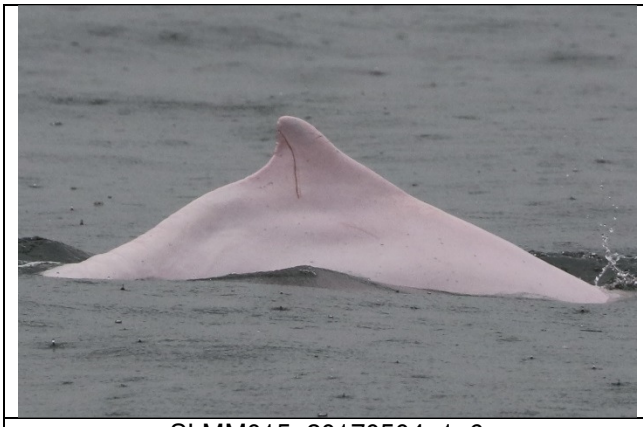
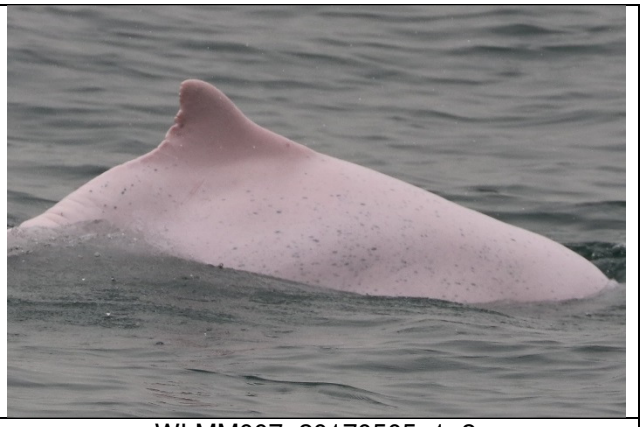
Running Quarterly Encounter Rate by Number of Dolphin Sightings (STG)

$$STG = \frac{37}{1210.64}\ x\ 100 = 3.06$$

Running Quarterly Encounter Rate by Number of Dolphins (ANI)

$$ANI = \frac{175}{1210.64}\ x\ 100 = 14.46$$

CWD Small Vessel Line-transect Survey **Photo Identification**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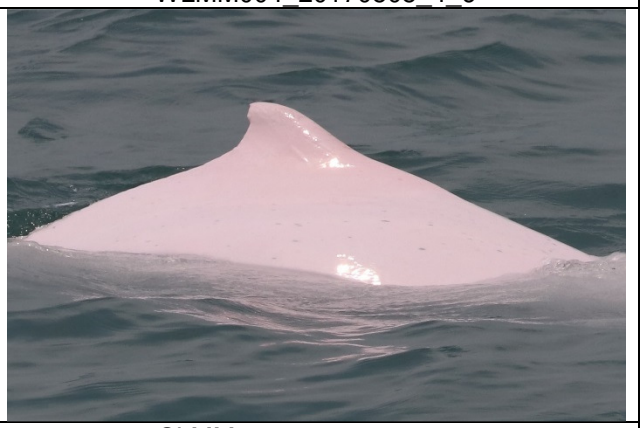
SLMM022_20170505_4_4	SLMM023_20170505_4_3

SLMM052_20170505_4_8	WLMM004_20170505_4_6
	
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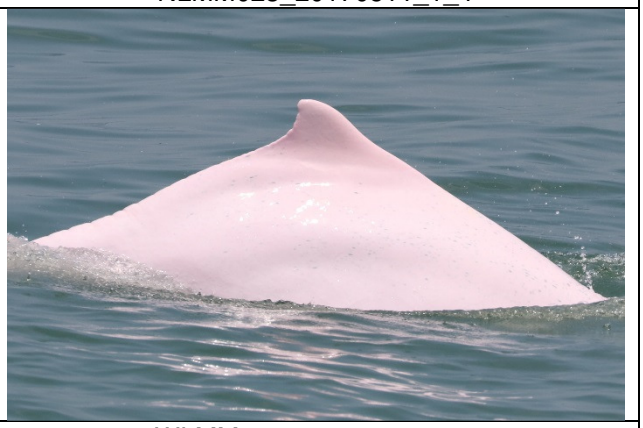
SLMM023_20170505_5_1	SLMM028_20170505_5_3
SLMM052_20170505_5_2	WLMM004_20170505_5_2

WLMM079_20170505_5_3	NLMM023_20170511_1_4
	
WLMM080_20170511_2_4	WLMM081_20170511_2_9
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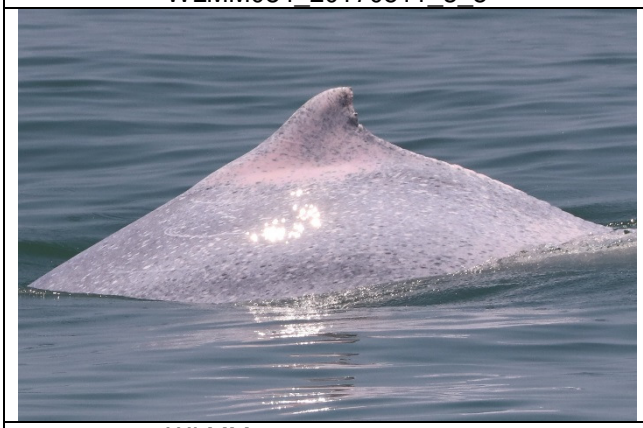
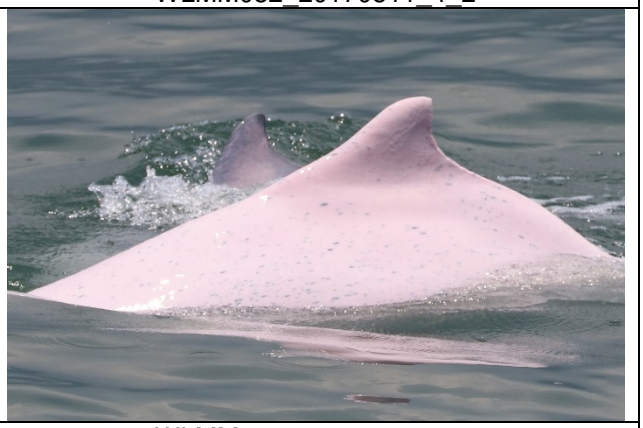
NLMM001_20170511_3_1	SLMM023_20170511_3_3

SLMM027_20170511_3_2	WLMM042_20170511_3_5
WLMM084_20170511_3_8	WLMM082_20170511_4_2
	
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WLMM087_20170511_5_2	WLMM007_20170511_6_2

WLMM008_20170511_7_3	WLMM084_20170511_7_2
SLMM023_20170511_8_2	SLMM027_20170511_8_2
SLMM047_20170511_8_3	WLMM018_20170511_8_5
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	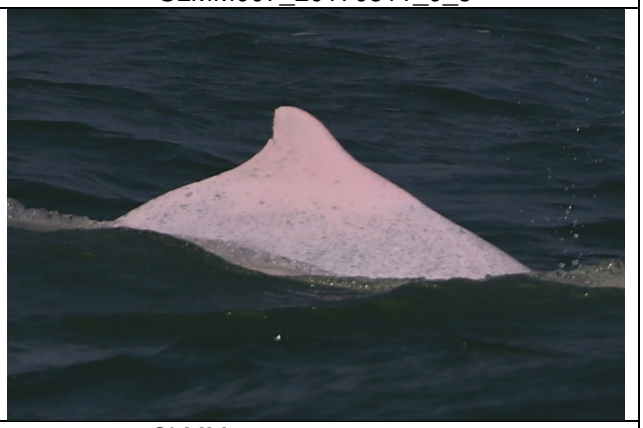
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SLMM011_20170511_11_3	SLMM056_20170511_11_5
WLMM070_20170511_11_13	

CWD Land-based Theodolite Tracking

CWD Groups by Survey Date

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
17/May/17	Sha Chau	8:37	14:37	6:00	2	2	0	N/A
19/May/17	Lung Kwu Chau	8:39	14:39	6:00	1-3	2	0	N/A
22/May/17	Sha Chau	8:35	14:35	6:00	4	2-3	0	N/A
25/May/17	Lung Kwu Chau	8:40	14:40	6:00	2-3	2-3	1	5
29/May/17	Lung Kwu Chau	8:41	14:41	6:00	2-3	2	1	2

Visibility: 1=Excellent, 2=Good, 3=Fair, 4=Poor

Appendix D. Calibration Certificates

輝創工程有限公司
Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C172617
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC17-1041)

Date of Receipt / 收件日期 : 9 May 2017

Description / 儀器名稱 : Acoustical Calibrator
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 4231
Serial No. / 編號 : 3003246
Supplied By / 委託者 : Atkins China Limited
13/F., Wharf T&T Centre, Harbour City,
Tsim Sha Tsui, Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C
Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 16 May 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 : H T Wong
Technical Officer

Certified By 核證 : K C Lee
Engineer

Date of Issue 簽發日期 : 16 May 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所書面批准。

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 – 校正及檢測實驗所
c/o 香港新界屯門興安里一號青山灣機樓四樓
Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

Certificate of Calibration
校正證書

Certificate No. : C172617
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C163709
CL281	Multifunction Acoustic Calibrator	PA160023
TST150A	Measuring Amplifier	C161175

4. Test procedure : MA100N.

5. 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所書面批准。

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Appendix E. Status of Environmental Permits and Licences

	Description		Permit/ Reference No.	Status
EIAO	Environmental Permit		EP-489/2014	Approved on 7 Nov 2014
Contract No.	**Description**	**Location**	**Permit/ Reference No.**	**Status**
P560 (R)	Notification of Construction Work under APCO	Launching Site	397150	Receipt acknowledged by EPD on 15 Jan 2016
		Site Office	397151	
		Stockpiling Area	398015	Receipt acknowledged by EPD on 18 Jan 2016
		Sheung Sha Chau	405860	Receipt acknowledged by EPD on 5 Aug 2016
	Construction Noise Permit (General Works)	Launching Site	GW-RS0243-17	Valid from 21 Mar 2017 to 20 Sep 2017
		Stockpiling Area	GW-RS0242-17	Valid from 23 Mar 2017 to 22 Sep 2017
	Discharge License under WPCO	Launching Site	WT00024249-2016	Approved on 25 Apr 2016
		Stockpiling Area	WT00024250-2016	Approved on 25 Apr 2016
	Registration as Chemical Waste Producer	Launching Site	WPN 5213-951-L2902-01	Update the Registration on 3 Oct 2016
		Stockpiling Area	WPN 5213-951-L2902-02	Update the Registration on 3 Oct 2016
	Bill Account for disposal		A/C 7023982	Approval granted from EPD on 14 Dec 2015
3201	Notification of Construction Work under APCO	Works area of 3201	406004	Receipt acknowledged by EPD on 10 Aug 2016
	Construction Noise Permit (General Works)	Works area of 3201	GW-RS0398-17	Valid from 28 Apr 2017 to 27 Oct 2017
	Registration as Chemical Waste Producer	Works area of 3201	WPN 5213-951-P3231-01	Completion of Registration on 9 Sep 2016
	Bill Account for disposal		A/C 7025760	Approval granted from EPD on 31 Aug 2016
3202	Notification of Construction Work under APCO	Works area of 3202	407624	Receipt acknowledged by EPD on 15 Sep 2016
	Construction Noise Permit (General Works)	Works area of 3202	GW-RS0312-17	Valid from 7 Apr 2017 to 26 Sep 2017
		Site Office of 3202	GW-RS0145-17	Valid from 21 Feb 2017 to 20 Aug 2017

	Description		Permit/ Reference No.	Status
	Registration as Chemical Waste Producer	Works area of 3202	WPN 5213-951-S3967-01	Completion of Registration on 24 Oct 2016
	Bill Account for disposal		A/C 7025739	Approval granted from EPD on 31 August 2016
3203	Notification of Construction Work under APCO	Works area of 3203	407053	Receipt acknowledged by EPD on 2 Sep 2016
	Construction Noise Permit (General Works)	Works area of 3203	GW-RS0323-17	Valid from 19 Apr 2017 to 18 Oct 2017
	Registration as Chemical Waste Producer	Works area of 3203	WPN 5213-951-S3954-01	Update the Registration on 12 Dec 2016
	Bill Account for disposal		A/C 7025846	Approval granted from EPD on 9 Sep 2016
3204	Notification of Construction Work under APCO	Works area of 3204	406446	Receipt acknowledged by EPD on 19 Aug 2016
	Construction Noise Permit (General Works)	Works Area of 3204	GW-RS0213-17	Valid from 14 Mar 2017 to 13 Sep 2017
		Site Office of 3204	GW-RS0136-17	Valid from 17 Feb 2017 to 16 Aug 2017
	Registration as Chemical Waste Producer	Works Area of 3204	WPN 5213-951-C4102-01	Completion of Registration on 15 Sep 2016
		Site Office of 3204	WPN 5213-951-C4102-02	Completion of Registration on 17 Mar 2017
	Bill Account for disposal		A/C 7025969	Approval granted from EPD on 21 Sep 2016
3205	Notification of Construction Work under APCO	Works area of 3205	409041	Receipt acknowledged by EPD on 19 Oct 2016
	Registration as Chemical Waste Producer	Works Area of 3205	WPN 5213-951-B2502-01	Completion of Registration on 13 Jan 2017
		Works Area of 3205	WPN 5111-421-B2509-01	Completion of Registration on 22 Feb 2017
	Construction Noise Permit (General Works)	Works Area of 3205	GW-RS0335-17	Valid from 13 Apr 2017 to 1 Oct 2017 (Superseded by GW-RS0434-17 on 15 May 2017)
	Construction Noise Permit (General Works)	Works Area of 3205	GW-RS0434-17	Valid from 15 May 2017 to 11 Nov 2017
	Bill Account for disposal	Works area of 3205	A/C 7026295	Approval granted from EPD on 9 Nov 2016
3206	Notification of Construction Work under APCO	Works area of 3206	409237	Receipt acknowledged by EPD on 25 Oct 2016
	Registration as Chemical Waste Producer	Site office of 3206	WPN 5213-951-Z4035-01	Completion of Registration on 18 Nov 2016
		Works area of 3206	WPN 5213-951-Z4035-02	Completion of Registration on 18 Nov 2016
	Construction Noise Permit (General Works)	Works Area of 3206	GW-RS0351-17	Valid from 22 Apr 2017 to 18 Aug 2017 (Superseded by GW-RS0458-17 on 25 May 2017)
		Works Area of 3206	GW-RS0458-17	Valid from 20 May 2017 to 19 Nov 2017

	Description		Permit/ Reference No.	Status
		Works Area of 3206	GW-RS0430-17	Valid from 25 May 2017 to 20 Sep 2017
	Construction Noise Permit (General Works)	Site Office of 3206	GW-RS0148-17	Valid from 27 Feb 2017 to 10 Jun 2017
	Bill Account for disposal	Works area of 3206	A/C 7026398	Approval granted from EPD on 16 Nov 2016
3212	Construction Noise Permit (General Works)	Works Area of 3212	GW-RS0151-17	Valid from 1 Mar 2017 to 1 Jun 2017
	Bill Account for disposal	Works area of 3212	A/C 7027642	Approval granted from EPD on 24 Apr 2017

Appendix F. Cumulative Statistics on Exceedances, Environmental Complaints, Notification of Summons and Status of Prosecution

Statistics for Exceedances for 1-hour TSP, Noise, Water, Waste, CWD Monitoring

		Total no. recorded in the reporting month	Total no. recorded since the project commenced
1-hr TSP	Action	0	0
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Water	Action	0	0
	Limit	0	0
Waste	Action	0	0
	Limit	0	0
CWD	Action	0	0
	Limit	0	0

Remark: Exceedances, which are not project related, are not shown in this table.

Statistics for Complaints, Notifications of Summons and Prosecution

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Prosecutions
This reporting month	2	0	0
From 28 December 2015 to end of the reporting month	5	0	0

Appendix G. Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 31 May 2017)

Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 31 May 2017)

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
01-May	08:20	3A061	YFT	Arrival	12.6	-	-
01-May	08:28	8S210	MFM	Arrival	11.3	-	-
01-May	10:03	3A071	MFM	Arrival	11.5	-	-
01-May	10:40	8S212	MFM	Arrival	11.9	-	-
01-May	10:43	3A081	ZUI	Arrival	12.4	-	-
01-May	11:10	8S121	MFM	Departure	11.6	-	-
01-May	11:11	3A063	YFT	Arrival	13.0	-	-
01-May	12:15	3A168	YFT	Departure	12.9	-	-
01-May	12:18	3A181	ZUI	Departure	13.7	-	-
01-May	12:50	8S215	MFM	Arrival	11.1	-	-
01-May	13:08	3A064	YFT	Arrival	12.7	-	-
01-May	13:20	8S123	MFM	Departure	13.1	-	-
01-May	13:44	3A082	ZUI	Arrival	13.2	-	-
01-May	14:12	3A182	ZUI	Departure	13.8	-	-
01-May	14:18	3A164	YFT	Departure	12.5	-	-
01-May	14:53	3A065	YFT	Arrival	13.2	-	-
01-May	16:16	3A167	YFT	Departure	13.1	-	-
01-May	16:42	3A083	ZUI	Arrival	13.1	-	-
01-May	16:46	8S218	MFM	Arrival	11.9	-	-
01-May	17:07	3A067	YFT	Arrival	12.4	-	-
01-May	17:07	3A183	ZUI	Departure	13.2	-	-
01-May	17:10	8S126	MFM	Departure	13.5	-	-
01-May	19:04	3A166	YFT	Departure	11.5	-	-
01-May	19:49	3A084	ZUI	Arrival	12.7	-	-
01-May	20:06	3A185	ZUI	Departure	12.7	-	-
01-May	20:51	8S2113	MFM	Arrival	12.0	-	-
01-May	20:57	3A169	YFT	Departure	13.7	-	-
01-May	22:03	8S522	MFM	Departure	12.9	-	-
02-May	08:17	3A061	YFT	Arrival	11.5	-	-
02-May	08:31	8S210	MFM	Arrival	12.3	-	-
02-May	09:53	3A071	MFM	Arrival	11.6	-	-
02-May	10:40	8S212	MFM	Arrival	11.3	-	-
02-May	10:46	3A081	ZUI	Arrival	13.2	-	-
02-May	11:10	8S121	MFM	Departure	11.6	-	-
02-May	11:20	3A063	YFT	Arrival	11.9	-	-
02-May	12:20	3A168	YFT	Departure	12.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
02-May	12:27	3A181	ZUI	Departure	13.6	-	-
02-May	12:56	8S215	MFM	Arrival	11.6	-	-
02-May	13:03	3A064	YFT	Arrival	11.8	-	-
02-May	13:20	8S123	MFM	Departure	10.8	-	-
02-May	13:41	3A082	ZUI	Arrival	12.8	-	-
02-May	14:23	3A182	ZUI	Departure	12.6	-	-
02-May	14:24	3A164	YFT	Departure	11.5	-	-
02-May	15:03	3A065	YFT	Arrival	12.4	-	-
02-May	16:17	3A167	YFT	Departure	12.4	-	-
02-May	16:37	3A083	ZUI	Arrival	13.1	-	-
02-May	16:41	8S218	MFM	Arrival	11.3	-	-
02-May	17:01	3A183	ZUI	Departure	13.1	-	-
02-May	17:05	3A067	YFT	Arrival	11.5	-	-
02-May	17:06	8S126	MFM	Departure	11.7	-	-
02-May	19:01	3A166	YFT	Departure	12.9	-	-
02-May	19:47	3A084	ZUI	Arrival	13.0	-	-
02-May	20:15	3A185	ZUI	Departure	12.8	-	-
02-May	20:52	8S2113	MFM	Arrival	11.6	-	-
02-May	20:59	3A169	YFT	Departure	11.9	-	-
02-May	22:01	8S522	MFM	Departure	12.1	-	-
03-May	08:18	3A061	YFT	Arrival	12.2	-	-
03-May	08:34	8S210	MFM	Arrival	12.0	-	-
03-May	09:58	3A071	MFM	Arrival	12.2	-	-
03-May	10:37	8S212	MFM	Arrival	12.8	-	-
03-May	10:44	3A081	ZUI	Arrival	13.3	-	-
03-May	11:01	8S121	MFM	Departure	12.9	-	-
03-May	11:21	3A063	YFT	Arrival	12.0	-	-
03-May	11:33	3A161	YFT	Departure	12.1	-	-
03-May	12:15	3A181	ZUI	Departure	13.7	-	-
03-May	12:16	3A168	YFT	Departure	13.2	-	-
03-May	12:48	8S215	MFM	Arrival	13.4	-	-
03-May	13:04	3A064	YFT	Arrival	11.7	-	-
03-May	13:15	8S123	MFM	Departure	12.4	-	-
03-May	13:47	3A082	ZUI	Arrival	13.2	-	-
03-May	14:18	3A164	YFT	Departure	12.9	-	-
03-May	14:23	3A182	ZUI	Departure	12.2	-	-
03-May	15:02	3A065	YFT	Arrival	10.9	-	-
03-May	16:19	3A167	YFT	Departure	12.5	-	-
03-May	16:40	8S218	MFM	Arrival	12.1	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
03-May	16:43	3A083	ZUI	Arrival	13.1	-	-
03-May	17:06	3A183	ZUI	Departure	12.4	-	-
03-May	17:06	8S126	MFM	Departure	12.8	-	-
03-May	17:07	3A067	YFT	Arrival	12.1	-	-
03-May	19:03	3A166	YFT	Departure	11.7	≤5	<1
03-May	19:47	3A084	ZUI	Arrival	13.0	-	-
03-May	20:05	3A185	ZUI	Departure	13.0	-	-
03-May	20:54	8S2113	MFM	Arrival	12.0	-	-
03-May	20:57	3A169	YFT	Departure	12.7	-	-
03-May	21:57	8S522	MFM	Departure	12.1	-	-
04-May	08:17	3A061	YFT	Arrival	12.4	-	-
04-May	08:23	8S210	MFM	Arrival	13.4	-	-
04-May	09:56	3A071	MFM	Arrival	10.8	-	-
04-May	10:43	3A081	ZUI	Arrival	13.3	-	-
04-May	10:48	8S212	MFM	Arrival	12.4	-	-
04-May	11:17	8S121	MFM	Departure	13.3	-	-
04-May	11:24	3A063	YFT	Arrival	11.8	-	-
04-May	12:11	3A168	YFT	Departure	11.5	-	-
04-May	12:42	8S215	MFM	Arrival	13.1	-	-
04-May	13:03	3A064	YFT	Arrival	12.4	-	-
04-May	13:16	8S123	MFM	Departure	13.3	-	-
04-May	13:53	3A082	ZUI	Arrival	11.7	-	-
04-May	14:14	3A181	ZUI	Departure	12.9	-	-
04-May	14:21	3A164	YFT	Departure	12.1	-	-
04-May	14:23	3A182	ZUI	Departure	11.9	-	-
04-May	15:02	3A065	YFT	Arrival	11.3	-	-
04-May	16:19	3A167	YFT	Departure	10.7	-	-
04-May	16:37	8S218	MFM	Arrival	12.2	-	-
04-May	16:39	3A083	ZUI	Arrival	13.1	-	-
04-May	17:00	3A183	ZUI	Departure	13.4	-	-
04-May	17:04	8S126	MFM	Departure	13.3	-	-
04-May	17:05	3A067	YFT	Arrival	11.5	-	-
04-May	18:58	3A166	YFT	Departure	12.5	-	-
04-May	19:47	3A084	ZUI	Arrival	13.3	-	-
04-May	20:04	3A185	ZUI	Departure	13.0	-	-
04-May	20:48	8S2113	MFM	Arrival	13.0	-	-
04-May	20:58	3A169	YFT	Departure	12.7	-	-
04-May	21:53	8S522	MFM	Departure	No AIS Data	-	-
05-May	08:10	3A061	YFT	Arrival	12.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
05-May	08:26	8S210	MFM	Arrival	13.1	-	-
05-May	09:52	3A071	MFM	Arrival	12.4	-	-
05-May	10:36	8S212	MFM	Arrival	12.5	-	-
05-May	10:44	3A081	ZUI	Arrival	13.2	-	-
05-May	11:06	8S121	MFM	Departure	11.5	-	-
05-May	11:25	3A063	YFT	Arrival	12.6	-	-
05-May	12:08	3A181	ZUI	Departure	13.8	-	-
05-May	12:20	3A168	YFT	Departure	12.1	-	-
05-May	12:48	8S215	MFM	Arrival	11.5	-	-
05-May	12:58	3A064	YFT	Arrival	12.6	-	-
05-May	13:15	8S123	MFM	Departure	13.0	-	-
05-May	13:46	3A082	ZUI	Arrival	13.0	-	-
05-May	14:20	3A164	YFT	Departure	13.0	-	-
05-May	14:21	3A182	ZUI	Departure	13.2	-	-
05-May	15:09	3A065	YFT	Arrival	12.0	-	-
05-May	16:19	3A167	YFT	Departure	12.4	-	-
05-May	16:37	8S218	MFM	Arrival	11.3	-	-
05-May	16:48	3A083	ZUI	Arrival	13.0	-	-
05-May	16:56	3A067	YFT	Arrival	12.9	-	-
05-May	16:57	8S126	MFM	Departure	13.2	-	-
05-May	17:03	3A183	ZUI	Departure	13.7	-	-
05-May	19:01	3A166	YFT	Departure	11.4	-	-
05-May	19:44	3A084	ZUI	Arrival	13.5	-	-
05-May	20:03	3A185	ZUI	Departure	13.6	-	-
05-May	20:55	8S2113	MFM	Arrival	7.8	-	-
05-May	20:56	3A169	YFT	Departure	12.5	-	-
05-May	21:54	8S522	MFM	Departure	12.8	-	-
06-May	08:16	3A061	YFT	Arrival	12.3	-	-
06-May	08:28	8S210	MFM	Arrival	11.2	-	-
06-May	09:57	3A071	MFM	Arrival	13.4	-	-
06-May	10:39	8S212	MFM	Arrival	13.6	-	-
06-May	10:45	3A081	ZUI	Arrival	13.7	-	-
06-May	11:01	8S121	MFM	Departure	12.6	-	-
06-May	11:24	3A063	YFT	Arrival	11.6	-	-
06-May	12:06	3A181	ZUI	Departure	13.4	-	-
06-May	12:14	3A168	YFT	Departure	11.9	-	-
06-May	12:54	8S215	MFM	Arrival	12.5	-	-
06-May	13:02	3A064	YFT	Arrival	11.6	-	-
06-May	13:27	8S123	MFM	Departure	13.0	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
06-May	13:47	3A082	ZUI	Arrival	13.4	-	-
06-May	14:11	3A182	ZUI	Departure	11.5	-	-
06-May	14:19	3A164	YFT	Departure	13.0	-	-
06-May	15:04	3A065	YFT	Arrival	11.5	-	-
06-May	16:20	3A167	YFT	Departure	11.9	-	-
06-May	16:36	3A083	ZUI	Arrival	12.7	-	-
06-May	16:42	8S218	MFM	Arrival	11.2	-	-
06-May	16:58	3A067	YFT	Arrival	12.6	-	-
06-May	16:59	8S126	MFM	Departure	12.7	-	-
06-May	17:01	3A183	ZUI	Departure	13.6	-	-
06-May	19:02	3A166	YFT	Departure	12.8	-	-
06-May	19:45	3A084	ZUI	Arrival	12.9	-	-
06-May	20:23	3A185	ZUI	Departure	13.9	-	-
06-May	20:56	8S2113	MFM	Arrival	12.9	-	-
06-May	20:57	3A169	YFT	Departure	12.9	-	-
06-May	21:56	8S522	MFM	Departure	12.5	-	-
07-May	08:14	3A061	YFT	Arrival	11.8	-	-
07-May	08:27	8S210	MFM	Arrival	11.9	-	-
07-May	09:57	3A071	MFM	Arrival	12.9	-	-
07-May	10:40	8S212	MFM	Arrival	11.1	-	-
07-May	10:45	3A081	ZUI	Arrival	13.1	-	-
07-May	11:10	8S121	MFM	Departure	12.4	-	-
07-May	11:24	3A063	YFT	Arrival	11.9	-	-
07-May	12:20	3A181	ZUI	Departure	13.5	-	-
07-May	12:26	3A168	YFT	Departure	11.8	-	-
07-May	12:52	8S215	MFM	Arrival	12.0	-	-
07-May	12:58	3A064	YFT	Arrival	12.0	-	-
07-May	13:19	8S123	MFM	Departure	13.4	-	-
07-May	13:46	3A082	ZUI	Arrival	12.5	-	-
07-May	14:18	3A182	ZUI	Departure	11.9	-	-
07-May	14:19	3A164	YFT	Departure	12.7	-	-
07-May	15:07	3A065	YFT	Arrival	11.4	-	-
07-May	16:13	3A167	YFT	Departure	11.2	-	-
07-May	16:38	8S218	MFM	Arrival	11.4	-	-
07-May	16:39	3A083	ZUI	Arrival	13.0	-	-
07-May	17:01	3A183	ZUI	Departure	13.2	-	-
07-May	17:03	3A067	YFT	Arrival	11.7	-	-
07-May	17:06	8S126	MFM	Departure	12.2	-	-
07-May	19:08	3A166	YFT	Departure	12.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
07-May	19:46	3A084	ZUI	Arrival	12.6	-	-
07-May	20:04	3A185	ZUI	Departure	12.3	≤5	<1
07-May	20:52	8S2113	MFM	Arrival	13.0	-	-
07-May	21:04	3A169	YFT	Departure	12.2	-	-
07-May	21:56	8S522	MFM	Departure	13.3	-	-
08-May	08:22	3A061	YFT	Arrival	9.8	-	-
08-May	08:38	8S210	MFM	Arrival	11.0	-	-
08-May	09:57	3A071	MFM	Arrival	11.6	-	-
08-May	10:39	8S212	MFM	Arrival	12.4	-	-
08-May	10:40	3A081	ZUI	Arrival	13.2	-	-
08-May	11:03	8S121	MFM	Departure	13.2	-	-
08-May	11:14	3A063	YFT	Arrival	12.8	-	-
08-May	12:11	3A181	ZUI	Departure	13.5	-	-
08-May	12:13	3A168	YFT	Departure	12.0	-	-
08-May	12:42	8S215	MFM	Arrival	12.3	-	-
08-May	13:02	3A064	YFT	Arrival	10.7	-	-
08-May	13:17	8S123	MFM	Departure	13.0	-	-
08-May	13:46	3A082	ZUI	Arrival	13.2	-	-
08-May	14:17	3A182	ZUI	Departure	12.8	-	-
08-May	14:18	3A164	YFT	Departure	10.9	-	-
08-May	15:00	3A065	YFT	Arrival	12.9	-	-
08-May	16:14	3A167	YFT	Departure	12.9	-	-
08-May	16:38	3A083	ZUI	Arrival	12.7	-	-
08-May	16:51	8S218	MFM	Arrival	12.4	-	-
08-May	17:00	3A067	YFT	Arrival	10.2	-	-
08-May	17:15	8S126	MFM	Departure	12.5	-	-
08-May	17:17	3A183	ZUI	Departure	13.3	-	-
08-May	19:08	3A166	YFT	Departure	13.0	-	-
08-May	19:46	3A084	ZUI	Arrival	12.6	-	-
08-May	20:07	3A185	ZUI	Departure	13.6	-	-
08-May	20:58	8S2113	MFM	Arrival	12.5	-	-
08-May	21:00	3A169	YFT	Departure	10.6	-	-
08-May	21:55	8S522	MFM	Departure	12.0	-	-
09-May	08:13	3A061	YFT	Arrival	11.8	-	-
09-May	08:19	8S210	MFM	Arrival	12.5	-	-
09-May	09:53	3A071	MFM	Arrival	12.0	-	-
09-May	10:37	8S212	MFM	Arrival	12.4	-	-
09-May	10:40	3A081	ZUI	Arrival	13.5	-	-
09-May	11:14	8S121	MFM	Departure	12.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
09-May	11:18	3A063	YFT	Arrival	12.3	-	-
09-May	12:13	3A181	ZUI	Departure	13.5	-	-
09-May	12:16	3A168	YFT	Departure	12.0	-	-
09-May	12:43	8S215	MFM	Arrival	12.5	-	-
09-May	13:02	3A064	YFT	Arrival	11.6	-	-
09-May	13:14	8S123	MFM	Departure	12.2	-	-
09-May	14:03	3A082	ZUI	Arrival	13.0	≤5	<1
09-May	14:15	3A164	YFT	Departure	11.5	-	-
09-May	14:18	3A182	ZUI	Departure	11.2	-	-
09-May	14:58	3A065	YFT	Arrival	12.9	-	-
09-May	16:11	3A167	YFT	Departure	12.1	-	-
09-May	16:39	3A083	ZUI	Arrival	12.5	-	-
09-May	16:49	8S218	MFM	Arrival	12.4	-	-
09-May	17:04	3A067	YFT	Arrival	11.5	-	-
09-May	17:04	8S126	MFM	Departure	12.7	-	-
09-May	17:07	3A183	ZUI	Departure	14.0	-	-
09-May	19:02	3A166	YFT	Departure	13.8	-	-
09-May	19:46	3A084	ZUI	Arrival	12.4	-	-
09-May	20:10	3A185	ZUI	Departure	13.0	-	-
09-May	20:58	8S2113	MFM	Arrival	12.8	-	-
09-May	20:58	3A169	YFT	Departure	13.1	-	-
09-May	21:53	8S522	MFM	Departure	10.7	-	-
10-May	08:26	8S210	MFM	Arrival	13.3	-	-
10-May	08:33	3A061	YFT	Arrival	11.7	-	-
10-May	09:59	3A071	MFM	Arrival	11.8	-	-
10-May	10:38	8S212	MFM	Arrival	13.7	-	-
10-May	10:46	3A081	ZUI	Arrival	13.3	-	-
10-May	10:59	3A063	YFT	Arrival	11.8	-	-
10-May	11:10	8S121	MFM	Departure	12.1	-	-
10-May	12:18	3A168	YFT	Departure	12.1	-	-
10-May	12:24	3A181	ZUI	Departure	13.4	-	-
10-May	12:47	8S215	MFM	Arrival	11.9	-	-
10-May	13:14	3A064	YFT	Arrival	12.1	-	-
10-May	13:32	8S123	MFM	Departure	12.0	-	-
10-May	13:58	3A082	ZUI	Arrival	12.4	-	-
10-May	14:16	3A164	YFT	Departure	10.8	-	-
10-May	14:17	3A182	ZUI	Departure	12.1	-	-
10-May	15:03	3A065	YFT	Arrival	11.8	-	-
10-May	16:16	3A167	YFT	Departure	11.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
10-May	16:38	8S218	MFM	Arrival	11.8	-	-
10-May	16:42	3A083	ZUI	Arrival	12.8	-	-
10-May	17:03	8S126	MFM	Departure	12.8	-	-
10-May	17:06	3A183	ZUI	Departure	13.5	-	-
10-May	17:19	3A067	YFT	Arrival	10.9	-	-
10-May	18:56	3A166	YFT	Departure	12.3	-	-
10-May	19:53	3A084	ZUI	Arrival	11.8	-	-
10-May	20:12	3A185	ZUI	Departure	13.8	-	-
10-May	20:57	8S2113	MFM	Arrival	11.9	-	-
10-May	21:02	3A169	YFT	Departure	12.8	-	-
10-May	21:57	8S522	MFM	Departure	11.8	-	-
11-May	08:24	3A061	YFT	Arrival	11.0	-	-
11-May	08:29	8S210	MFM	Arrival	12.2	-	-
11-May	09:52	3A071	MFM	Arrival	11.7	-	-
11-May	10:45	3A081	ZUI	Arrival	13.3	-	-
11-May	10:57	8S212	MFM	Arrival	10.0	-	-
11-May	11:19	8S121	MFM	Departure	12.6	-	-
11-May	11:27	3A063	YFT	Arrival	12.8	-	-
11-May	12:20	3A181	ZUI	Departure	12.5	-	-
11-May	12:41	3A168	YFT	Departure	12.6	-	-
11-May	12:47	8S215	MFM	Arrival	11.5	-	-
11-May	13:01	3A064	YFT	Arrival	11.4	-	-
11-May	13:14	8S123	MFM	Departure	12.0	-	-
11-May	13:45	3A082	ZUI	Arrival	13.3	-	-
11-May	14:15	3A182	ZUI	Departure	13.3	-	-
11-May	14:29	3A164	YFT	Departure	11.8	-	-
11-May	15:01	3A065	YFT	Arrival	12.0	-	-
11-May	16:14	3A167	YFT	Departure	10.9	-	-
11-May	16:38	3A083	ZUI	Arrival	12.1	-	-
11-May	16:40	8S218	MFM	Arrival	11.9	-	-
11-May	17:01	8S126	MFM	Departure	12.6	-	-
11-May	17:02	3A067	YFT	Arrival	11.3	-	-
11-May	17:03	3A183	ZUI	Departure	12.3	-	-
11-May	18:58	3A166	YFT	Departure	13.5	-	-
11-May	19:47	3A084	ZUI	Arrival	12.1	-	-
11-May	20:04	3A185	ZUI	Departure	13.0	-	-
11-May	20:53	8S2113	MFM	Arrival	10.1	-	-
11-May	21:00	3A169	YFT	Departure	13.1	-	-
12-May	08:18	3A061	YFT	Arrival	12.4	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
12-May	08:26	8S210	MFM	Arrival	11.1	-	-
12-May	09:53	3A071	MFM	Arrival	10.7	-	-
12-May	10:36	8S212	MFM	Arrival	11.8	-	-
12-May	10:50	3A081	ZUI	Arrival	13.4	-	-
12-May	11:01	8S121	MFM	Departure	12.7	-	-
12-May	11:27	3A063	YFT	Arrival	10.6	-	-
12-May	12:13	3A168	YFT	Departure	12.7	-	-
12-May	12:16	3A181	ZUI	Departure	12.7	-	-
12-May	12:45	8S215	MFM	Arrival	12.4	-	-
12-May	12:53	3A064	YFT	Arrival	12.9	-	-
12-May	13:18	8S123	MFM	Departure	12.9	-	-
12-May	13:43	3A082	ZUI	Arrival	13.5	-	-
12-May	14:13	3A164	YFT	Departure	13.1	-	-
12-May	14:15	3A182	ZUI	Departure	11.9	-	-
12-May	14:59	3A065	YFT	Arrival	12.8	-	-
12-May	16:18	3A167	YFT	Departure	11.3	-	-
12-May	16:40	3A083	ZUI	Arrival	12.3	-	-
12-May	16:41	8S218	MFM	Arrival	12.5	-	-
12-May	16:56	3A067	YFT	Arrival	12.3	-	-
12-May	17:04	8S126	MFM	Departure	12.9	-	-
12-May	17:06	3A183	ZUI	Departure	13.1	-	-
12-May	19:01	3A166	YFT	Departure	11.9	-	-
12-May	19:49	3A084	ZUI	Arrival	11.1	-	-
12-May	20:15	3A185	ZUI	Departure	13.6	-	-
12-May	20:52	8S2113	MFM	Arrival	12.0	-	-
12-May	20:57	3A169	YFT	Departure	12.0	-	-
12-May	21:55	8S522	MFM	Departure	13.0	-	-
13-May	08:23	3A061	YFT	Arrival	12.2	-	-
13-May	08:35	8S210	MFM	Arrival	12.9	-	-
13-May	10:01	3A071	MFM	Arrival	11.9	-	-
13-May	10:37	8S212	MFM	Arrival	13.5	-	-
13-May	10:42	3A081	ZUI	Arrival	13.2	-	-
13-May	11:10	8S121	MFM	Departure	12.5	-	-
13-May	11:15	3A063	YFT	Arrival	11.6	-	-
13-May	12:12	3A168	YFT	Departure	11.4	-	-
13-May	12:15	3A181	ZUI	Departure	13.5	-	-
13-May	12:45	8S215	MFM	Arrival	12.9	-	-
13-May	13:02	3A064	YFT	Arrival	12.6	-	-
13-May	13:13	8S123	MFM	Departure	13.0	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
13-May	13:45	3A082	ZUI	Arrival	12.9	-	-
13-May	14:14	3A182	ZUI	Departure	13.6	-	-
13-May	14:15	3A164	YFT	Departure	11.6	-	-
13-May	14:57	3A065	YFT	Arrival	11.8	-	-
13-May	16:17	3A167	YFT	Departure	11.0	-	-
13-May	16:39	8S218	MFM	Arrival	12.8	-	-
13-May	16:44	3A083	ZUI	Arrival	12.2	-	-
13-May	17:02	3A183	ZUI	Departure	13.7	-	-
13-May	17:04	3A067	YFT	Arrival	12.6	≤5	<1
13-May	17:04	8S126	MFM	Departure	13.6	-	-
13-May	19:00	3A166	YFT	Departure	12.2	-	-
13-May	19:55	3A084	ZUI	Arrival	10.8	-	-
13-May	20:14	3A185	ZUI	Departure	13.3	-	-
13-May	20:56	8S2113	MFM	Arrival	11.3	-	-
13-May	20:57	3A169	YFT	Departure	12.6	-	-
13-May	21:54	8S522	MFM	Departure	11.8	-	-
14-May	08:23	3A061	YFT	Arrival	11.6	-	-
14-May	08:25	8S210	MFM	Arrival	13.2	-	-
14-May	09:49	3A071	MFM	Arrival	12.5	-	-
14-May	10:43	3A081	ZUI	Arrival	13.4	-	-
14-May	10:47	8S212	MFM	Arrival	12.1	-	-
14-May	11:19	3A063	YFT	Arrival	12.3	-	-
14-May	11:20	8S121	MFM	Departure	12.2	-	-
14-May	12:14	3A181	ZUI	Departure	13.2	-	-
14-May	12:19	3A168	YFT	Departure	12.9	-	-
14-May	12:51	8S215	MFM	Arrival	11.5	-	-
14-May	13:01	3A064	YFT	Arrival	12.1	-	-
14-May	13:15	8S123	MFM	Departure	10.5	-	-
14-May	13:47	3A082	ZUI	Arrival	12.7	-	-
14-May	14:18	3A182	ZUI	Departure	12.7	-	-
14-May	14:24	3A164	YFT	Departure	11.9	-	-
14-May	14:56	3A065	YFT	Arrival	12.7	-	-
14-May	16:32	3A167	YFT	Departure	12.2	-	-
14-May	16:55	8S218	MFM	Arrival	12.2	-	-
14-May	16:57	3A083	ZUI	Arrival	12.9	-	-
14-May	17:03	3A067	YFT	Arrival	11.8	-	-
14-May	17:28	3A183	ZUI	Departure	13.8	-	-
14-May	17:30	8S126	MFM	Departure	11.0	-	-
14-May	19:11	3A166	YFT	Departure	13.1	≤5	<1

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
14-May	20:05	3A084	ZUI	Arrival	11.6	-	-
14-May	20:27	3A185	ZUI	Departure	13.5	-	-
14-May	20:56	8S2113	MFM	Arrival	11.0	-	-
14-May	20:56	3A169	YFT	Departure	12.4	-	-
14-May	21:56	8S522	MFM	Departure	12.1	-	-
15-May	08:13	3A061	YFT	Arrival	11.9	-	-
15-May	08:32	8S210	MFM	Arrival	11.6	-	-
15-May	09:50	3A071	MFM	Arrival	11.8	-	-
15-May	10:37	8S212	MFM	Arrival	12.4	-	-
15-May	10:51	3A081	ZUI	Arrival	12.8	-	-
15-May	11:00	8S121	MFM	Departure	12.7	-	-
15-May	11:14	3A063	YFT	Arrival	13.5	-	-
15-May	12:18	3A181	ZUI	Departure	13.5	-	-
15-May	12:24	3A168	YFT	Departure	13.7	-	-
15-May	12:51	8S215	MFM	Arrival	8.5	-	-
15-May	13:04	3A064	YFT	Arrival	12.0	-	-
15-May	13:23	8S123	MFM	Departure	11.0	-	-
15-May	13:48	3A082	ZUI	Arrival	13.4	-	-
15-May	14:17	3A164	YFT	Departure	10.8	-	-
15-May	14:21	3A182	ZUI	Departure	13.4	-	-
15-May	14:55	3A065	YFT	Arrival	13.6	-	-
15-May	16:26	3A167	YFT	Departure	13.5	-	-
15-May	16:43	3A083	ZUI	Arrival	13.3	-	-
15-May	16:44	8S218	MFM	Arrival	13.0	-	-
15-May	17:00	3A067	YFT	Arrival	13.3	≤5	<1
15-May	17:21	8S126	MFM	Departure	11.5	-	-
15-May	17:23	3A183	ZUI	Departure	12.9	-	-
15-May	19:06	3A166	YFT	Departure	12.4	-	-
15-May	19:57	3A084	ZUI	Arrival	12.6	-	-
15-May	20:14	3A185	ZUI	Departure	13.6	-	-
15-May	20:57	8S2113	MFM	Arrival	12.1	-	-
15-May	21:02	3A169	YFT	Departure	12.7	-	-
15-May	21:55	8S522	MFM	Departure	12.8	-	-
16-May	08:16	3A061	YFT	Arrival	12.6	-	-
16-May	08:24	8S210	MFM	Arrival	12.9	-	-
16-May	10:05	3A071	MFM	Arrival	11.3	-	-
16-May	10:38	8S212	MFM	Arrival	12.5	-	-
16-May	10:45	3A081	ZUI	Arrival	13.0	-	-
16-May	11:13	8S121	MFM	Departure	12.4	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
16-May	11:17	3A063	YFT	Arrival	12.8	-	-
16-May	12:15	3A181	ZUI	Departure	13.5	-	-
16-May	12:26	3A168	YFT	Departure	13.4	-	-
16-May	12:50	8S215	MFM	Arrival	11.8	-	-
16-May	13:01	3A064	YFT	Arrival	12.6	-	-
16-May	13:19	8S123	MFM	Departure	12.4	-	-
16-May	13:53	3A082	ZUI	Arrival	12.4	-	-
16-May	14:13	3A182	ZUI	Departure	13.1	-	-
16-May	14:18	3A164	YFT	Departure	12.3	-	-
16-May	15:00	3A065	YFT	Arrival	13.3	-	-
16-May	16:20	3A167	YFT	Departure	12.8	-	-
16-May	16:39	3A083	ZUI	Arrival	12.3	-	-
16-May	16:56	8S218	MFM	Arrival	12.0	-	-
16-May	17:00	3A067	YFT	Arrival	12.6	-	-
16-May	17:15	3A183	ZUI	Departure	13.5	-	-
16-May	17:30	8S126	MFM	Departure	12.7	-	-
16-May	19:07	3A166	YFT	Departure	11.8	-	-
16-May	19:49	3A084	ZUI	Arrival	12.5	-	-
16-May	20:12	3A185	ZUI	Departure	12.9	-	-
16-May	20:58	8S2113	MFM	Arrival	11.9	-	-
16-May	21:04	3A169	YFT	Departure	12.7	-	-
16-May	21:52	8S522	MFM	Departure	12.2	-	-
17-May	08:15	3A061	YFT	Arrival	11.4	-	-
17-May	08:27	8S210	MFM	Arrival	11.8	-	-
17-May	10:02	3A071	MFM	Arrival	11.7	-	-
17-May	10:43	8S212	MFM	Arrival	12.2	-	-
17-May	10:51	3A081	ZUI	Arrival	12.7	-	-
17-May	11:14	8S121	MFM	Departure	9.1	-	-
17-May	11:23	3A063	YFT	Arrival	12.5	-	-
17-May	12:10	3A181	ZUI	Departure	13.2	-	-
17-May	12:23	3A168	YFT	Departure	12.4	-	-
17-May	12:44	8S215	MFM	Arrival	8.6	-	-
17-May	13:11	3A064	YFT	Arrival	11.3	-	-
17-May	13:26	8S123	MFM	Departure	12.3	-	-
17-May	13:53	3A082	ZUI	Arrival	12.7	-	-
17-May	14:14	3A182	ZUI	Departure	12.8	-	-
17-May	14:22	3A164	YFT	Departure	11.3	-	-
17-May	14:59	3A065	YFT	Arrival	12.5	-	-
17-May	16:19	3A167	YFT	Departure	11.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
17-May	16:47	8S218	MFM	Arrival	12.2	-	-
17-May	16:48	3A083	ZUI	Arrival	13.0	-	-
17-May	16:56	3A067	YFT	Arrival	11.2	-	-
17-May	17:03	3A183	ZUI	Departure	13.5	-	-
17-May	17:43	8S126	MFM	Departure	12.3	-	-
17-May	19:02	3A166	YFT	Departure	13.0	-	-
17-May	19:49	3A084	ZUI	Arrival	12.4	-	-
17-May	20:11	3A185	ZUI	Departure	12.6	-	-
17-May	21:03	8S2113	MFM	Arrival	11.2	-	-
17-May	21:09	3A169	YFT	Departure	13.1	-	-
17-May	21:57	8S522	MFM	Departure	11.9	-	-
18-May	08:26	3A061	YFT	Arrival	12.2	-	-
18-May	08:28	8S210	MFM	Arrival	12.0	-	-
18-May	10:01	3A071	MFM	Arrival	12.5	-	-
18-May	10:43	3A081	ZUI	Arrival	12.8	-	-
18-May	10:46	8S212	MFM	Arrival	9.7	-	-
18-May	11:10	8S121	MFM	Departure	10.3	-	-
18-May	11:19	3A063	YFT	Arrival	11.5	-	-
18-May	12:12	3A181	ZUI	Departure	13.2	-	-
18-May	12:20	3A168	YFT	Departure	12.8	-	-
18-May	12:43	8S215	MFM	Arrival	12.2	-	-
18-May	13:05	3A064	YFT	Arrival	12.7	-	-
18-May	13:16	8S123	MFM	Departure	12.5	≤5	<1
18-May	13:54	3A082	ZUI	Arrival	12.4	-	-
18-May	14:09	3A182	ZUI	Departure	13.2	-	-
18-May	14:19	3A164	YFT	Departure	11.5	-	-
18-May	15:03	3A065	YFT	Arrival	11.9	-	-
18-May	16:17	3A167	YFT	Departure	12.6	-	-
18-May	16:39	8S218	MFM	Arrival	11.8	-	-
18-May	16:45	3A083	ZUI	Arrival	12.6	-	-
18-May	17:02	3A183	ZUI	Departure	14.0	-	-
18-May	17:04	8S126	MFM	Departure	12.7	-	-
18-May	17:11	3A067	YFT	Arrival	12.8	-	-
18-May	18:59	3A166	YFT	Departure	12.3	-	-
18-May	19:52	3A084	ZUI	Arrival	12.4	-	-
18-May	20:09	3A185	ZUI	Departure	13.3	-	-
18-May	20:56	3A169	YFT	Departure	14.0	-	-
18-May	21:07	8S2113	MFM	Arrival	12.5	-	-
18-May	22:06	8S522	MFM	Departure	12.4	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
19-May	08:18	3A061	YFT	Arrival	13.1	-	-
19-May	08:21	8S210	MFM	Arrival	11.7	-	-
19-May	09:58	3A071	MFM	Arrival	12.3	-	-
19-May	10:38	8S212	MFM	Arrival	12.3	-	-
19-May	11:07	3A081	ZUI	Arrival	12.9	-	-
19-May	11:10	8S121	MFM	Departure	11.9	-	-
19-May	11:20	3A063	YFT	Arrival	11.2	-	-
19-May	12:18	3A181	ZUI	Departure	13.8	-	-
19-May	12:26	3A168	YFT	Departure	10.8	-	-
19-May	12:37	8S215	MFM	Arrival	12.0	-	-
19-May	13:09	3A064	YFT	Arrival	12.8	-	-
19-May	13:18	8S123	MFM	Departure	12.3	-	-
19-May	13:49	3A082	ZUI	Arrival	13.2	-	-
19-May	14:15	3A164	YFT	Departure	13.9	-	-
19-May	14:17	3A182	ZUI	Departure	12.9	-	-
19-May	15:16	3A065	YFT	Arrival	11.1	-	-
19-May	16:17	3A167	YFT	Departure	11.4	-	-
19-May	16:40	3A083	ZUI	Arrival	12.9	-	-
19-May	16:45	8S218	MFM	Arrival	12.5	-	-
19-May	17:00	3A183	ZUI	Departure	13.7	-	-
19-May	17:10	3A067	YFT	Arrival	13.2	-	-
19-May	17:12	8S126	MFM	Departure	13.0	-	-
19-May	18:58	3A166	YFT	Departure	13.5	-	-
19-May	19:53	3A084	ZUI	Arrival	12.7	-	-
19-May	20:16	3A185	ZUI	Departure	13.1	-	-
19-May	20:58	3A169	YFT	Departure	12.7	-	-
19-May	20:59	8S2113	MFM	Arrival	11.7	-	-
19-May	21:54	8S522	MFM	Departure	No AIS Data	-	-
20-May	08:14	3A061	YFT	Arrival	12.7	-	-
20-May	08:27	8S210	MFM	Arrival	11.7	-	-
20-May	10:09	3A071	MFM	Arrival	12.7	-	-
20-May	10:42	3A081	ZUI	Arrival	13.1	-	-
20-May	10:50	8S212	MFM	Arrival	12.2	-	-
20-May	11:12	8S121	MFM	Departure	13.2	-	-
20-May	11:18	3A063	YFT	Arrival	11.8	-	-
20-May	12:09	3A181	ZUI	Departure	13.3	-	-
20-May	12:13	3A168	YFT	Departure	12.4	-	-
20-May	12:37	8S215	MFM	Arrival	12.0	-	-
20-May	12:55	3A064	YFT	Arrival	12.5	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
20-May	13:19	8S123	MFM	Departure	10.7	-	-
20-May	13:46	3A082	ZUI	Arrival	12.4	-	-
20-May	14:12	3A182	ZUI	Departure	12.9	-	-
20-May	14:19	3A164	YFT	Departure	12.7	-	-
20-May	15:06	3A065	YFT	Arrival	12.2	-	-
20-May	16:21	3A167	YFT	Departure	12.9	-	-
20-May	16:45	8S218	MFM	Arrival	11.5	-	-
20-May	16:53	3A083	ZUI	Arrival	12.8	-	-
20-May	16:56	3A067	YFT	Arrival	12.2	-	-
20-May	17:09	8S126	MFM	Departure	11.0	-	-
20-May	17:12	3A183	ZUI	Departure	13.0	-	-
20-May	19:10	3A166	YFT	Departure	12.7	-	-
20-May	19:52	3A084	ZUI	Arrival	12.7	-	-
20-May	20:10	3A185	ZUI	Departure	12.2	-	-
20-May	20:54	8S2113	MFM	Arrival	12.9	-	-
20-May	20:56	3A169	YFT	Departure	11.4	-	-
20-May	21:56	8S522	MFM	Departure	13.6	≤5	<1
21-May	08:20	3A061	YFT	Arrival	12.5	-	-
21-May	08:24	8S210	MFM	Arrival	11.5	-	-
21-May	10:00	3A071	MFM	Arrival	13.0	-	-
21-May	10:40	8S212	MFM	Arrival	12.4	-	-
21-May	10:41	3A081	ZUI	Arrival	12.9	-	-
21-May	11:11	8S121	MFM	Departure	13.2	-	-
21-May	11:20	3A063	YFT	Arrival	11.7	-	-
21-May	12:15	3A168	YFT	Departure	11.6	-	-
21-May	12:18	3A181	ZUI	Departure	13.0	-	-
21-May	12:45	8S215	MFM	Arrival	12.7	-	-
21-May	13:04	3A064	YFT	Arrival	12.7	-	-
21-May	13:17	8S123	MFM	Departure	11.5	-	-
21-May	13:56	3A082	ZUI	Arrival	12.5	-	-
21-May	14:11	3A182	ZUI	Departure	13.1	-	-
21-May	14:15	3A164	YFT	Departure	13.1	-	-
21-May	14:57	3A065	YFT	Arrival	11.5	-	-
21-May	16:18	3A167	YFT	Departure	11.4	-	-
21-May	16:42	8S218	MFM	Arrival	11.9	-	-
21-May	16:47	3A083	ZUI	Arrival	13.2	-	-
21-May	16:56	3A067	YFT	Arrival	12.9	-	-
21-May	17:08	3A183	ZUI	Departure	13.2	-	-
21-May	17:12	8S126	MFM	Departure	12.1	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
21-May	19:01	3A166	YFT	Departure	12.6	-	-
21-May	19:48	3A084	ZUI	Arrival	13.0	-	-
21-May	20:16	3A185	ZUI	Departure	13.3	-	-
21-May	20:56	8S2113	MFM	Arrival	12.5	-	-
21-May	21:03	3A169	YFT	Departure	13.6	-	-
22-May	08:19	3A061	YFT	Arrival	11.8	-	-
22-May	08:30	8S210	MFM	Arrival	13.1	-	-
22-May	09:58	3A071	MFM	Arrival	12.7	-	-
22-May	10:38	8S212	MFM	Arrival	12.9	-	-
22-May	10:53	3A081	ZUI	Arrival	12.8	-	-
22-May	11:10	8S121	MFM	Departure	12.6	-	-
22-May	11:23	3A063	YFT	Arrival	12.3	-	-
22-May	12:10	3A181	ZUI	Departure	13.8	-	-
22-May	12:13	3A168	YFT	Departure	12.1	-	-
22-May	12:49	8S215	MFM	Arrival	12.2	-	-
22-May	13:03	3A064	YFT	Arrival	12.0	-	-
22-May	13:15	8S123	MFM	Departure	12.2	-	-
22-May	13:51	3A082	ZUI	Arrival	12.7	-	-
22-May	14:15	3A182	ZUI	Departure	12.8	-	-
22-May	14:18	3A164	YFT	Departure	12.5	-	-
22-May	14:59	3A065	YFT	Arrival	12.2	-	-
22-May	16:14	3A167	YFT	Departure	12.3	-	-
22-May	16:43	3A083	ZUI	Arrival	12.2	-	-
22-May	16:46	8S218	MFM	Arrival	11.4	-	-
22-May	17:00	3A067	YFT	Arrival	11.8	-	-
22-May	17:05	3A183	ZUI	Departure	13.7	-	-
22-May	17:10	8S126	MFM	Departure	11.7	-	-
22-May	19:00	3A166	YFT	Departure	11.9	-	-
22-May	19:59	3A084	ZUI	Arrival	12.9	-	-
22-May	20:24	3A185	ZUI	Departure	13.5	-	-
22-May	20:54	8S2113	MFM	Arrival	12.1	-	-
22-May	21:01	3A169	YFT	Departure	12.6	-	-
23-May	08:17	3A061	YFT	Arrival	11.6	-	-
23-May	08:28	8S210	MFM	Arrival	11.8	-	-
23-May	09:53	3A071	MFM	Arrival	12.5	-	-
23-May	10:45	8S212	MFM	Arrival	12.8	-	-
23-May	10:48	3A081	ZUI	Arrival	13.2	-	-
23-May	11:09	8S121	MFM	Departure	13.4	-	-
23-May	11:15	3A063	YFT	Arrival	12.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
23-May	12:15	3A181	ZUI	Departure	13.7	-	-
23-May	12:18	3A168	YFT	Departure	13.4	-	-
23-May	12:48	8S215	MFM	Arrival	12.0	-	-
23-May	13:06	3A064	YFT	Arrival	11.7	-	-
23-May	13:15	8S123	MFM	Departure	12.9	-	-
23-May	13:55	3A082	ZUI	Arrival	12.7	-	-
23-May	14:15	3A182	ZUI	Departure	12.9	-	-
23-May	14:20	3A164	YFT	Departure	10.9	-	-
23-May	15:01	3A065	YFT	Arrival	12.7	-	-
23-May	16:20	3A167	YFT	Departure	13.0	-	-
23-May	16:39	3A083	ZUI	Arrival	12.9	-	-
23-May	16:41	8S218	MFM	Arrival	9.5	-	-
23-May	17:06	3A183	ZUI	Departure	13.8	-	-
23-May	17:12	8S126	MFM	Departure	12.8	-	-
23-May	17:13	3A067	YFT	Arrival	10.3	-	-
23-May	19:20	3A166	YFT	Departure	12.3	-	-
23-May	19:47	3A084	ZUI	Arrival	12.8	-	-
23-May	20:14	3A185	ZUI	Departure	14.0	-	-
23-May	20:58	3A169	YFT	Departure	12.6	≤5	<1
23-May	20:58	8S2113	MFM	Arrival	11.7	-	-
23-May	21:57	8S522	MFM	Departure	11.3	-	-
24-May	08:21	3A061	YFT	Arrival	11.6	-	-
24-May	08:48	8S210	MFM	Arrival	11.1	-	-
24-May	09:54	3A071	MFM	Arrival	12.1	-	-
24-May	10:41	8S212	MFM	Arrival	12.1	-	-
24-May	11:02	3A081	ZUI	Arrival	13.5	-	-
24-May	11:10	8S121	MFM	Departure	12.4	-	-
24-May	11:23	3A063	YFT	Arrival	11.3	-	-
24-May	12:17	3A181	ZUI	Departure	13.7	-	-
24-May	12:22	3A168	YFT	Departure	10.9	-	-
24-May	12:42	8S215	MFM	Arrival	13.4	-	-
24-May	13:15	8S123	MFM	Departure	12.2	-	-
24-May	13:16	3A064	YFT	Arrival	11.6	-	-
24-May	13:55	3A082	ZUI	Arrival	13.2	-	-
24-May	14:17	3A182	ZUI	Departure	12.5	-	-
24-May	14:21	3A164	YFT	Departure	11.6	-	-
24-May	15:03	3A065	YFT	Arrival	11.8	-	-
24-May	16:20	3A167	YFT	Departure	11.4	-	-
24-May	16:43	3A083	ZUI	Arrival	12.5	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
24-May	16:43	8S218	MFM	Arrival	12.9	-	-
24-May	17:00	3A183	ZUI	Departure	13.2	-	-
24-May	17:04	3A067	YFT	Arrival	11.3	-	-
24-May	17:04	8S126	MFM	Departure	13.7	-	-
24-May	19:02	3A166	YFT	Departure	12.2	-	-
24-May	19:49	3A084	ZUI	Arrival	13.2	-	-
24-May	20:17	3A185	ZUI	Departure	13.5	-	-
24-May	21:01	8S2113	MFM	Arrival	11.1	-	-
24-May	21:16	3A169	YFT	Departure	12.5	-	-
24-May	21:56	8S522	MFM	Departure	11.4	-	-
25-May	08:19	3A061	YFT	Arrival	11.8	-	-
25-May	08:25	8S210	MFM	Arrival	12.2	-	-
25-May	09:51	3A071	MFM	Arrival	11.5	-	-
25-May	10:43	8S212	MFM	Arrival	11.9	-	-
25-May	10:49	3A081	ZUI	Arrival	12.9	-	-
25-May	11:12	8S121	MFM	Departure	11.3	-	-
25-May	11:27	3A063	YFT	Arrival	12.3	-	-
25-May	12:22	3A181	ZUI	Departure	13.6	-	-
25-May	12:30	3A168	YFT	Departure	12.2	-	-
25-May	12:58	8S215	MFM	Arrival	12.7	-	-
25-May	13:18	3A064	YFT	Arrival	12.4	-	-
25-May	13:25	8S123	MFM	Departure	13.2	-	-
25-May	13:46	3A082	ZUI	Arrival	11.9	-	-
25-May	14:17	3A182	ZUI	Departure	12.5	-	-
25-May	14:26	3A164	YFT	Departure	11.7	-	-
25-May	15:06	3A065	YFT	Arrival	12.1	-	-
25-May	16:18	3A167	YFT	Departure	12.0	-	-
25-May	16:41	3A083	ZUI	Arrival	12.4	-	-
25-May	16:50	8S218	MFM	Arrival	12.4	-	-
25-May	17:07	3A183	ZUI	Departure	13.8	-	-
25-May	17:11	3A067	YFT	Arrival	11.5	-	-
25-May	17:20	8S126	MFM	Departure	13.0	-	-
25-May	19:03	3A166	YFT	Departure	13.3	-	-
25-May	19:51	3A084	ZUI	Arrival	12.8	-	-
25-May	20:11	3A185	ZUI	Departure	13.3	-	-
25-May	21:03	3A169	YFT	Departure	11.8	-	-
25-May	21:06	8S2113	MFM	Arrival	11.5	-	-
26-May	08:16	3A061	YFT	Arrival	11.5	-	-
26-May	08:41	8S210	MFM	Arrival	11.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
26-May	09:54	3A071	MFM	Arrival	11.5	-	-
26-May	10:42	8S212	MFM	Arrival	11.7	-	-
26-May	10:50	3A081	ZUI	Arrival	13.1	-	-
26-May	11:11	8S121	MFM	Departure	12.1	-	-
26-May	11:18	3A063	YFT	Arrival	12.3	-	-
26-May	12:26	3A181	ZUI	Departure	13.6	-	-
26-May	12:29	3A168	YFT	Departure	11.4	-	-
26-May	12:55	8S215	MFM	Arrival	12.7	-	-
26-May	13:06	3A064	YFT	Arrival	11.9	-	-
26-May	13:34	8S123	MFM	Departure	12.2	-	-
26-May	13:47	3A082	ZUI	Arrival	13.0	-	-
26-May	14:17	3A182	ZUI	Departure	13.6	-	-
26-May	14:19	3A164	YFT	Departure	12.3	-	-
26-May	15:14	3A065	YFT	Arrival	13.2	-	-
26-May	16:19	3A167	YFT	Departure	11.8	-	-
26-May	16:42	3A083	ZUI	Arrival	12.6	-	-
26-May	16:44	8S218	MFM	Arrival	12.4	-	-
26-May	17:03	3A067	YFT	Arrival	11.5	-	-
26-May	17:16	3A183	ZUI	Departure	13.7	-	-
26-May	17:18	8S126	MFM	Departure	13.6	-	-
26-May	19:10	3A166	YFT	Departure	14.0	-	-
26-May	19:53	3A084	ZUI	Arrival	12.6	-	-
26-May	20:09	3A185	ZUI	Departure	12.9	-	-
26-May	20:55	8S2113	MFM	Arrival	11.5	-	-
26-May	20:58	3A169	YFT	Departure	13.1	-	-
26-May	22:04	8S522	MFM	Departure	12.9	-	-
27-May	08:11	3A061	YFT	Arrival	13.0	-	-
27-May	08:24	8S210	MFM	Arrival	12.2	-	-
27-May	09:54	3A071	MFM	Arrival	11.6	-	-
27-May	10:34	8S212	MFM	Arrival	13.2	-	-
27-May	10:47	3A081	ZUI	Arrival	12.7	-	-
27-May	11:01	8S121	MFM	Departure	11.8	-	-
27-May	11:15	3A063	YFT	Arrival	12.7	-	-
27-May	12:22	3A181	ZUI	Departure	12.9	-	-
27-May	12:22	3A168	YFT	Departure	12.6	-	-
27-May	12:43	8S215	MFM	Arrival	12.0	-	-
27-May	12:58	3A064	YFT	Arrival	13.4	-	-
27-May	13:24	8S123	MFM	Departure	13.5	-	-
27-May	13:45	3A082	ZUI	Arrival	12.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
27-May	14:21	3A182	ZUI	Departure	12.7	-	-
27-May	14:22	3A164	YFT	Departure	13.4	-	-
27-May	15:02	3A065	YFT	Arrival	13.1	-	-
27-May	16:10	3A167	YFT	Departure	12.9	>15	<1
27-May	16:41	3A083	ZUI	Arrival	13.2	-	-
27-May	16:42	8S218	MFM	Arrival	12.3	-	-
27-May	16:58	3A067	YFT	Arrival	11.9	-	-
27-May	17:08	8S126	MFM	Departure	13.3	-	-
27-May	17:12	3A183	ZUI	Departure	11.6	-	-
27-May	18:59	3A166	YFT	Departure	12.0	-	-
27-May	19:52	3A084	ZUI	Arrival	12.3	-	-
27-May	20:08	3A185	ZUI	Departure	13.9	-	-
27-May	20:57	8S2113	MFM	Arrival	11.4	-	-
27-May	20:57	3A169	YFT	Departure	12.4	-	-
27-May	21:55	8S522	MFM	Departure	13.0	-	-
28-May	08:20	3A061	YFT	Arrival	11.2	-	-
28-May	08:32	8S210	MFM	Arrival	12.6	-	-
28-May	09:52	3A071	MFM	Arrival	12.0	-	-
28-May	10:36	8S212	MFM	Arrival	12.1	-	-
28-May	10:51	3A081	ZUI	Arrival	12.6	-	-
28-May	11:07	8S121	MFM	Departure	12.9	-	-
28-May	11:16	3A063	YFT	Arrival	11.4	-	-
28-May	12:13	3A181	ZUI	Departure	13.1	-	-
28-May	12:16	3A168	YFT	Departure	11.5	-	-
28-May	12:45	8S215	MFM	Arrival	12.9	-	-
28-May	12:58	3A064	YFT	Arrival	11.9	-	-
28-May	13:18	8S123	MFM	Departure	12.5	-	-
28-May	13:55	3A082	ZUI	Arrival	13.8	-	-
28-May	14:15	3A182	ZUI	Departure	10.9	-	-
28-May	14:19	3A164	YFT	Departure	11.9	-	-
28-May	14:56	3A065	YFT	Arrival	10.3	-	-
28-May	16:12	3A167	YFT	Departure	11.0	-	-
28-May	16:38	8S218	MFM	Arrival	13.4	-	-
28-May	16:40	3A083	ZUI	Arrival	13.0	-	-
28-May	16:58	3A067	YFT	Arrival	12.3	-	-
28-May	17:10	8S126	MFM	Departure	13.1	-	-
28-May	17:14	3A183	ZUI	Departure	12.2	-	-
28-May	19:08	3A166	YFT	Departure	13.3	-	-
28-May	19:55	3A084	ZUI	Arrival	12.2	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
28-May	20:10	3A185	ZUI	Departure	13.7	-	-
28-May	20:55	8S2113	MFM	Arrival	11.8	-	-
28-May	20:59	3A169	YFT	Departure	13.2	-	-
28-May	22:05	8S522	MFM	Departure	13.1	-	-
29-May	08:27	3A061	YFT	Arrival	11.8	-	-
29-May	08:28	8S210	MFM	Arrival	12.6	-	-
29-May	09:48	3A071	MFM	Arrival	12.6	-	-
29-May	10:44	3A081	ZUI	Arrival	13.0	-	-
29-May	10:47	8S212	MFM	Arrival	12.7	-	-
29-May	11:09	8S121	MFM	Departure	12.8	-	-
29-May	11:17	3A063	YFT	Arrival	12.1	-	-
29-May	12:15	3A168	YFT	Departure	12.4	-	-
29-May	12:17	3A181	ZUI	Departure	13.3	-	-
29-May	12:48	8S215	MFM	Arrival	11.6	-	-
29-May	13:04	3A064	YFT	Arrival	12.1	-	-
29-May	13:15	8S123	MFM	Departure	12.3	-	-
29-May	13:44	3A082	ZUI	Arrival	12.9	-	-
29-May	14:14	3A182	ZUI	Departure	12.3	-	-
29-May	14:16	3A164	YFT	Departure	12.3	-	-
29-May	14:57	3A065	YFT	Arrival	12.7	-	-
29-May	16:16	3A167	YFT	Departure	11.8	-	-
29-May	16:34	8S218	MFM	Arrival	11.3	-	-
29-May	16:38	3A083	ZUI	Arrival	13.3	-	-
29-May	16:55	3A067	YFT	Arrival	12.1	-	-
29-May	17:08	8S126	MFM	Departure	12.3	-	-
29-May	17:10	3A183	ZUI	Departure	12.5	-	-
29-May	19:02	3A166	YFT	Departure	12.2	-	-
29-May	19:50	3A084	ZUI	Arrival	12.6	-	-
29-May	20:14	3A185	ZUI	Departure	13.2	-	-
29-May	21:00	8S2113	MFM	Arrival	11.5	-	-
29-May	21:11	3A169	YFT	Departure	11.7	-	-
30-May	08:17	3A061	YFT	Arrival	11.9	-	-
30-May	08:33	8S210	MFM	Arrival	12.0	-	-
30-May	09:56	3A071	MFM	Arrival	11.7	-	-
30-May	10:41	3A081	ZUI	Arrival	12.4	-	-
30-May	10:41	8S212	MFM	Arrival	12.6	-	-
30-May	11:13	3A063	YFT	Arrival	13.4	-	-
30-May	11:14	8S121	MFM	Departure	12.5	-	-
30-May	12:11	3A181	ZUI	Departure	13.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
30-May	12:14	3A168	YFT	Departure	13.4	-	-
30-May	12:42	8S215	MFM	Arrival	12.8	-	-
30-May	13:01	3A064	YFT	Arrival	12.5	-	-
30-May	13:12	8S123	MFM	Departure	12.9	-	-
30-May	13:50	3A082	ZUI	Arrival	13.1	-	-
30-May	14:16	3A182	ZUI	Departure	13.8	-	-
30-May	14:19	3A164	YFT	Departure	11.7	-	-
30-May	14:53	3A065	YFT	Arrival	13.4	-	-
30-May	16:16	3A167	YFT	Departure	14.0	-	-
30-May	16:43	8S218	MFM	Arrival	12.4	-	-
30-May	16:46	3A083	ZUI	Arrival	13.2	-	-
30-May	17:02	3A183	ZUI	Departure	12.8	-	-
30-May	17:07	8S126	MFM	Departure	11.9	-	-
30-May	17:08	3A067	YFT	Arrival	12.3	-	-
30-May	19:03	3A166	YFT	Departure	11.8	-	-
30-May	19:47	3A084	ZUI	Arrival	12.6	-	-
30-May	20:04	3A185	ZUI	Departure	12.8	-	-
30-May	20:57	3A169	YFT	Departure	12.5	-	-
30-May	21:00	8S2113	MFM	Arrival	11.3	-	-
30-May	21:55	8S522	MFM	Departure	12.2	-	-
31-May	08:15	3A061	YFT	Arrival	13.3	-	-
31-May	08:25	8S210	MFM	Arrival	12.5	-	-
31-May	10:04	3A071	MFM	Arrival	12.0	-	-
31-May	10:36	8S212	MFM	Arrival	11.3	-	-
31-May	10:47	3A081	ZUI	Arrival	12.6	-	-
31-May	11:08	8S121	MFM	Departure	12.4	-	-
31-May	11:16	3A063	YFT	Arrival	12.7	-	-
31-May	12:09	3A181	ZUI	Departure	12.9	-	-
31-May	12:10	3A168	YFT	Departure	12.5	-	-
31-May	12:44	8S215	MFM	Arrival	12.0	-	-
31-May	13:03	3A064	YFT	Arrival	12.7	-	-
31-May	13:13	8S123	MFM	Departure	12.5	-	-
31-May	13:54	3A082	ZUI	Arrival	12.6	-	-
31-May	14:12	3A182	ZUI	Departure	13.6	-	-
31-May	14:14	3A164	YFT	Departure	12.4	-	-
31-May	14:56	3A065	YFT	Arrival	12.8	-	-
31-May	16:18	3A167	YFT	Departure	12.1	>5 and ≤15	<1
31-May	16:39	8S218	MFM	Arrival	11.8	-	-
31-May	16:44	3A083	ZUI	Arrival	12.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
31-May	16:58	3A183	ZUI	Departure	12.9	-	-
31-May	16:59	3A067	YFT	Arrival	13.0	-	-
31-May	17:10	8S126	MFM	Departure	13.6	-	-
31-May	19:05	3A166	YFT	Departure	12.2	-	-
31-May	19:48	3A084	ZUI	Arrival	12.6	-	-
31-May	20:09	3A185	ZUI	Departure	12.5	-	-
31-May	20:56	8S2113	MFM	Arrival	11.6	-	-
31-May	20:59	3A169	YFT	Departure	10.2	-	-
31-May	22:01	8S522	MFM	Departure	11.1	-	-

Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in May 2017, instantaneous speeding (i.e. a sudden change in speed at over 15 knots for a short period of time) within the SCZ was recorded from 11 HSF movements. The duration of instantaneous speeding of all HSF movements were less than one minute. The AIS data and ferry operators' responses showed the cases were due to local strong water currents / giving way to other vessels. The captain had reduced speed and maintained the speed at less than 15 knots after the public safety / emergency incidents.

Two HSF movements with no AIS data and four HSF movements with insufficient transmission of AIS data were received in May 2017. AIS data were retrieved from other sources such as Marine Traffic Data and Shipxy. Vessel captain was also requested to provide the radar track photos which indicated the vessel entered the SCZ though the gate access point and no speeding in the SCZ.