MOTT MACDONALD

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

Construction Phase Monthly EM&A Report No.11 (For November 2016)

December 2016

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This Monthly EM&A Report No. 11 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 5 January 2017

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By Email

Airport Authority Hong Kong
HKIA Tower, 1 Sky Plaza Road
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Attn: Mr. Lawrence Tsui, Senior Manager

5 January 2017

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Submission of Revised Monthly EM&A Report No.11 (November 2016)

Reference is made to the Environmental Team's submission of the revised Monthly EM&A Report No.11 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 5 January 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.

This is the 11th 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 November 2016 to 30 November 2016.

Key Activities in the Reporting Period

The key activities of the Project carried out in the reporting month were related to advanced works contract, which involved pilot hole drilling using Horizontal Directional Drilling (HDD) method at launching site, stockpiling of excavated materials from HDD operation at stockpiling area and casing installation on Sheung Sha Chau Island. CLP cable diversion enabling work contract was also carried out, which involved construction of drawpit, installation and backfilling for cable trough at the western part of the airport. The four in-progress deep cement mixing (DCM) contracts involved site investigation works, laying of geotextile and sand blanket.

EM&A Activities Conducted in the Reporting Period

The monthly EM&A programme was undertaken in accordance with the Updated EM&A Manual of the Project. During the reporting period, the ET conducted 33 sets of construction dust measurements, 21 sets of construction noise measurements, 13 events of water quality measurements, one round of terrestrial ecology monitoring on Sheung Sha Chau Island, 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 as well as landscape & visual and waste monitoring.

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, trainings for the dolphin observers were provided by the ET prior to the deployment of silt curtain, with the training records kept by the ET. Visual inspection and integrity check for silt curtain were carried out by the contractor and their daily records were audited by ET and IEC during site inspection. Audits of acoustic decoupling for construction vessels and Skypier High Speed Ferries route diversion and speed control and construction vessel management were 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 November 2016 were in the range of 88 to 93 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 837 HSF movements under the SkyPier Plan were recorded in the reporting period. All HSFs had travelled through the SCZ with average speeds under 15 knots (8.5 to 14.2 knots), which were in compliance with the SkyPier Plan, except that one HSF travelled with an average speed of 16.4 knots. Notice regarding the exceedance of average speed within SCZ was sent to the ferry operator and the case is under investigation by ET. One ferry movement not following the diverted route and 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), ET had conducted weekly audit of relevant information, including AIS data, vessel tracks and other relevant records to ensure the contractors complied with the requirements of the MTRMP-CAV. Training has been provided for the concerned skippers to facilitate them in familiarising with the requirements of the MTRMP-CAV. 3-month rolling programmes for construction vessel activities were also received from contractors.

Results of Impact Monitoring

All the monitoring works for construction dust, construction noise, water quality, construction waste, terrestrial ecology 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 the construction dust, construction noise, construction waste and CWD monitoring was recorded in the reporting month.

The water quality monitoring results for dissolved oxygen (DO), total alkalinity and chromium obtained during the reporting period were in compliance with their corresponding Action and Limit Levels. For turbidity, suspended solids (SS) and nickel, some of the testing results had exceeded the relevant Action or Limit Levels during the reporting period. The summary of exceedances are presented in **Section 4.5.2**. Investigations were carried out immediately for each of the exceedance cases, and the investigation findings concluded that all the exceedances were not due to the Project.

The monthly terrestrial ecology monitoring on Sheung Sha Chau Island observed that installation of casing was conducted on the Island and there was no encroachment upon the egretry area nor any significant disturbance to the egrets at Sheung Sha Chau by the works.

Summary of Upcoming Key Issues

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

Advanced Works Contract:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

- HDD pilot hole drilling;
- Stockpiling of excavated materials from HDD operation;
- Casing installation.

Reclamation Contracts:

Contract 3201 to 3205 DCM Works

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

Contract 3206 Main Reclamation Works

- Laying of sand blanket.

Other Contracts:

Contract 3213 CLP Cable Diversion Enabling Works

- Installaltion of cable trough; and
- Reinstatement of seawall.

Other site investigation works will continue. The key environmental issues will be associated with construction dust, construction noise, water quality, construction waste management, CWD and terrestrial ecology on Sheung Sha Chau. The implementation of required mitigation measures by the contractor will be monitored by the ET.

Ecological Monitoring

Dolphin Observers Training

Construction Vessel Skipper Training

Summary Table

The following table summarizes the key findings of the EM&A programme during the reporting period from 1 to 30 November 2016:

	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		✓	No construction activities related complaints were received.	Nil
Notification of any summons and status of prosecutions		✓	Neither notifications of summons nor 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 Contruction Phase Monthly EM&A Report No.10.

1.2 Scope of this Report

This is the 11th 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 30 November 2016.

1.3 Project Organisation

The Project's organization structure remained unchanged during the reporting month. The Project's organization structure can be referred to Appendix B of the Construction Phase Monthly EM&A Report No.1. 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)	Senior 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:			
Contract P560(R) Aviation Fuel Pipeline Diversion Works (Langfang Huayuan Mechanical and Electrical Engineering Co., Ltd.)	Project Manager	Shih Wei	2117 0566
	Environmental Officer	Lyn Lau	5172 6543
DCM Works Contracts:			
Contract 3201 DCM (Package 1) (Penta-Ocean-China State-Dong-Ah Joint Venture)	Project Director	Mr. Tsugunari SUZUKI	9178 9689
	Environmental Officer	Mr. Kanny CHO	9019 1962
Contract 3202 DCM (Package 2) (Samsung-BuildKing Joint Venture)	Project Manager	Mr. Ilkwon Nam	9643 3117
	Environmental Officer	Mr. Dickson Mak	9525 8408
Contract 3203 DCM (Package 3) (Sambo E&C Co.,Ltd)	Project Manager	Mr. Park Seong Jae	9683 8693
	Environmental Officer	Mr. Leung Min Pong	9203 5820
Contract 3204 DCM (Package 4) (CRBC-SAMBO Joint Venture)	Project Manager	Mr. Yoo Kyung-Sik	9683 8697
	Environmental Officer	Mr. David Man	6421 3238
Contract 3205 DCM (Package 5) (Bachy Soletanche- Sambo Joint Venture)	Project Manager	Mr. Park, Jong Heon	9139 6377
	Environmental Office	Margaret Chung	9130 3696
Reclamation Contract:			
Contract 3206 (ZHEC-CCCC-CDC Joint	Project Manager	Lim Kim Chuan	3693 2288

Party	Position	Name	Telephone
Venture)			
	Environmental Officer	Louie Chan	9270 1390
Other Works Contract:			
Contract 3213 CLP Cable Diversion Enabling Works (Wing Hing Construction Compan	Project Manager	Mr. Kan Yun Tai, Michael	9206 0550
	Environmental Officer	Ms Ivy Tam	2151 2090

1.4 Summary of Construction Works

Key activities of the Project were related to the advanced works contract which involved pilot hole drilling at the HDD launching site located at the west part of the airport and casing installation at Sheung Sha Chau. CLP cable diversion enabling work contract involved construction of drawpit, installation and backfilling for cable trough at the western part of the airport. The four DCM contracts involved site investigation works, laying of geotextile and sand blanket.

The active construction site is around 3 km and 900m away from the nearest air and noise sensitive receivers in Tung Chung and the villages in North Lantau. The locations of the works areas are presented in **Figure 1.1** to **Figure 1.2.** Some site investigation works were carried out during the reporting period.

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 (Version 1) 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 (Version 1) 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	To be commenced according to the detailed plan on DCM
Early/ Regular DCM Water Quality Monitoring	On-going
Waste Management	

Parameters	Status
Waste Monitoring	On-going
Land Contamination	
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 Egretry Survey Plan	The revised Egretry Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	On-going
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	On-going
Chinese White Dolphins (CWD)	
Vessel Survey, Land-based Theodolite Track 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 (Version 1) and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Environmental Auditing	
Regular site inspection	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, ecology, CWD and landscape & visual were carried out in the reporting month.

The EM&A programme also involved weekly site inspections and related auditings 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 envronemental performance of the contractors, environmental briefings and regular environemntal management meetings were conducted.

The EM&A programme has been following the recommendations presented in the approved EIA Report and the Updated EM&A 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 Updated EM&A 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 Updated EM&A 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 are provided in **Table 2.2**.

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

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

Monitoring Station	Action Level (μg/m^3)	Limit Level (μg/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 is provided in **Appendix B**.

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 D**.

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	27 - 237	306	500
AR2	16 - 197	298	

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

General meteorological conditions throughout the impact monitoring period were recorded. Wind data for each monitoring day including wind speed and wind direction was 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 Updated EM&A 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 Updated EM&A 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 Updated EM&A 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 Updated EM&A Manual, baseline noise levels at the noise monitoring stations were established as presented in the Baseline Monitoring Report (Version 1 dated December 2015). 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 are provided in **Table 3.2**. The construction noise monitoring schedule involved in the reporting period is provided in **Appendix C**.

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) reduce to 70dB(A) for school and 65dB(A) during school examination periods.

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 2016
	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. Any updates of calibration certificates will be reported in the Monthly EM&A report if necessary.

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 D**.

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 - 72	75
NM3A	57 - 63	75
NM4[(i)]	64 - 66	70[(ii)]
NM5[(i)]	53 - 61	75
NM6[(i)]	68 - 73	75

Note: (i) +3 dB(A) Façade correction included;
(ii) Reduced to 65 dB(A) during school examination periods.

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 aircraft noise at NM3A and NM5, aircraft noise and helicopter noise at NM6, road traffic noise at NM1A and school activities at NM4 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 22 water quality monitoring stations, comprising 12 impact stations, seven sensitive receiver stations and three control stations in the vicinity of water quality sensitive receivers around the airport island in accordance with the Updated EM&A 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	
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. 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 Updated EM&A 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 22 water quality monitoring stations during the reporting period. The sea conditions varied from clam to rough, and the weather conditions varied from fine to rainy during the monitoring period.

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

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 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 (Nickel)	3.2		3.6	
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, 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, 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 in the impact water quality monitoring programme.

Table 4.4: Water Quality Monitoring Equipment

Equipment	Brand and Model	
Water Sampler	Van Dorn Water Sampler	
Positioning Device (measurement of GPS)	Garmin eTrex Vista HCx	
Current Meter (measurement of current speed and direction, and water depth)	Sontek HydroSurveyor	
Equipment	**Brand and Model**	**Last Calibration Date**
Multifunctional Meter (measurement of DO, pH, temperature, salinity and turbidity)	YSI 6920 V2 (serial no. 11F100014)	5 Oct 2016
	YSI ProDSS (serial no. 15M100005)	5 Oct 2016
	YSI 6920 (serial no. 000109DF)	5 Oct 2016
Digital Titrator (measurement of total alkalinity)	Titrette Digital Burette 50ml Class A (serial no.10N64701)	11 Oct 2016
	Titrette Digital Burette 50ml Class A (serial no. 10N65665)	23 Sep 2016

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**. 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 should then be 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 provided in Appendix C of the Construction Phase Monthly EM&A Report No.10 are still valid. Any updates of calibration certifcates 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 4.5.** The QA/QC procedures for laboratory measurement/ analysis of SS and heavy metals was presented in Appendix F of the Construction Phase Monthly EM&A Report No.8.

Table 4.5: 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, total alkalinity and chromium obtained during the reporting period were in compliance with their corresponding Action and Limit Levels. For turbidity, SS and nickel, some of the testing results had exceeded the relevant Action Levels or Limit Levels during the reporting period. Details of the exceedances are presented in **Section 4.5.2**.

All the water quality monitoring results and graphical presentations are provided in **Appendix D**.

4.5.2 Summary of Findings for Investigation of Exceedances

SS, turbidity and nickel testing results exceeding the corresponding Action or Limit Levels were recorded at 12 monitoring days during the monitoring period. All required actions under the Event and Action Plan has been followed. Details of the exceedance cases are presented below.

Findings for SS Exceedances (Mid-Ebb Tide)

Impact Monitoring (IM) Stations

Table 4.6 presents a summary of the SS compliance status at IM stations during mid-ebb tide for the reporting month.

Table 4.6: Summary of SS Compliance Status at IM Stations (Mid-Ebb Tide)

Date	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
01/11/2016												
03/11/2016												
05/11/2016												
08/11/2016												
10/11/2016												
12/11/2016												
15/11/2016												
17/11/2016												
19/11/2016												
22/11/2016												
24/11/2016												
26/11/2016												
29/11/2016												
No. of SS Exceedances	2	2	2	2	1	3	1	0	1	1	0	0

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

No exceedance of Action and Limit Level

Exceedance of Action or Limit Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow

Exceedance of Action or 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

As shown in **Table 4.6**, exceedances of Action or Limit Level at IM stations were observed on four monitoring days. However, some of the exceedances occurred at monitoring stations which are located upstream of the 3RS Project during ebb tide. As such upstream stations would unlikely be affected by the Project, the investigation focused on those exceedances at IM stations located downstream of the Project and hence might be affected by the Project's construction activities.

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 4.7**.

Table 4.7: Summary of Findings from Investigations of SS Exceedance during Mid-Ebb Tide

Date	Marine construction works nearby	Status of silt curtains (if applicable)	Construction vessels in the vicinity	Silt plume observed	Exceedance due to Project
12/11/2016	Sand blanket laying Geotextile laying	Deployed and maintained properly	No	No	No
15/11/2016	Sand blanket laying Geotextile laying	Deployed and maintained properly	No	No	No
19/11/2016	Sand blanket laying Geotextile laying	Deployed and maintained properly	No	No	No
29/11/2016	Sand blanket laying Geotextile laying	Deployed and maintained properly	No	No	No

In addition to the investigation summary presented in **Table 4.7**, it is also noted from **Table 4.6** that all exceedances at downstream IM stations do not show any temporal trend and on all monitoring days with exceedances at downstream IM stations, exceedances were also observed at some of the upstream IM stations on the same day, which suggested that there might be other sources of SS that were not related to the Project. On 29 November 2016, it is also noted that the sea conditions were rough at the western side of the project area, which could cause natural elevations in ambient SS levels. Based on the findings of the exceedance investigation, these exceedances were considered not due to the Project.

Sensitive Receiver (SR) Stations

At SR stations, some exceedances were also observed at SR3 and SR4A during mid-ebb tide for the reporting month. SR3 is located upstream of the project during ebb tide, hence the exceedance at SR3 is unlikely to be due to the Project. SR4A is located remotely from the Project. For remote sensitive receivers like SR4A to be affected by SS released from the Project's activities, there would be similar exceedances at the IM stations located between the Project and the SR station. However, this was generally not observed, while the exceedances investigation had also concluded that exceedances at IM stations were not due to the Project. In addition, it is noted that similarly high SS levels were observed at these SR stations during baseline monitoring, which suggested that such SS elevations are not uncommon under ambient conditions due to natural fluctuation. Given these findings, the exceedances at SR stations were considered not due to the Project.

Findings for SS Exceedances (Mid-Flood Tide)

Impact Monitoring (IM) Stations

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

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

Date	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
01/11/2016												
03/11/2016												
05/11/2016												
08/11/2016												
10/11/2016												
12/11/2016												
15/11/2016												
17/11/2016												
19/11/2016												
22/11/2016												
24/11/2016												
26/11/2016												
29/11/2016												
No. of SS Exceedances	0	1	2	1	0	0	1	0	0	1	0	2

Note: Detailed results are presented in **Appendix D**.

Legend:

No exceedance of Action and Limit Level

Exceedance of Action or Limit Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow

Exceedance of Action or 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

As shown in **Table 4.8**, exceedances of Action or Limit Level at IM stations were observed on five monitoring days. However, some of the exceedances occur at monitoring stations which are located upstream of the 3RS Project during flood tide. As such upstream stations are unlikely to be affected by the Project, the investigation focused on those exceedances at IM stations located downstream of the Project and hence might be affected by the Project's construction activities.

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 SS Exceedance during Mid-Flood Tide

Date	Marine construction works nearby	Status of silt curtains (if applicable)	Construction vessels in the vicinity	Silt plume observed	Exceedance due to Project
1/11/2016	No marine construction works nearby during monitoring	Not applicable	No	No	No
12/11/2016	Sand blanket laying Geotextile laying	Deployed and maintained properly	No	No	No
15/11/2016	No marine construction works nearby during monitoring	Not applicable	No	No	No
17/11/2016	Sand blanket laying Geotextile laying	Deployed and maintained properly	No	No	No

Date	Marine construction works nearby	Status of silt curtains (if applicable)	Construction vessels in the vicinity	Silt plume observed	Exceedance due to Project
29/11/2016	Sand blanket laying Geotextile laying	Deployed and maintained properly	No	No	No

In addition to the investigation summary presented in **Table 4.9**, it is also noted from **Table 4.8** that all exceedances at downstream IM stations appear to be isolated cases with neither temporal nor spatial trend to indicate SS release due to Project activities. Based on the findings of the exceedance investigation, these exceedances were considered not due to the Project.

Sensitive Receiver (SR) Stations

At SR stations, exceedances were observed at SR4A and SR6. However, such SR stations are located upstream of the Project during flood tide, hence exceedances at these upstream SR stations are unlikely to be due to the Project. Separately, it is noted that similarly high SS levels were observed at these SR stations during baseline monitoring, which suggested that such SS elevations are not uncommon under ambient conditions.

Findings for Turbidity Exceedances (Mid-Ebb Tide)

Impact Monitoring (IM) Stations

Table 4.10 presents a summary of the turbidity compliance status at IM stations during mid-ebb tide for the reporting month.

Table 4.10: Summary of Turbidity Compliance Status at IM Stations (Mid-Ebb Tide)

Date	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
01/11/2016												
03/11/2016												
05/11/2016												
08/11/2016												
10/11/2016												
12/11/2016												
15/11/2016												
17/11/2016												
19/11/2016												
22/11/2016												
24/11/2016												
26/11/2016												
29/11/2016												
No. of SS Exceedances	0	0	0	1	0	0	0	0	0	0	0	0

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

No exceedance of Action and Limit Level
Exceedance of Action or Limit Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow
Exceedance of Action or 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

As shown in **Table 4.10**, an exceedance of Action Level was recorded at IM4 on 19 November 2016. According to the investigation findings summarized in **Table 4.7**, there were no

construction vessels in the vicinity of IM4 and silt curtains were deployed and maintained properly for sand blanket laying during the monitoring period.

In addition, no exceedance of turbidity was recorded at other monitoring stations close to IM4. The exceedance was also within the range of baseline monitoring at IM4. Therefore, it was considered that the exceedance was caused by natural fluctuation and unlikely to be due to the Project.

Sensitive Receiver (SR) Stations

There were no turbidity exceedances at any SR stations.

Findings for Turbidity Exceedances (Mid-Flood Tide)

Impact Monitoring (IM) Stations

Table 4.11 presents a summary of the turbidity compliance status at IM stations during mid-flood tide for the reporting month.

Table 4.11: Summary of Turbidity Compliance Status at IM Stations (Mid-Flood Tide)

Date	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
01/11/2016												
03/11/2016												
05/11/2016												
08/11/2016												
10/11/2016												
12/11/2016												
15/11/2016												
17/11/2016												
19/11/2016												
22/11/2016												
24/11/2016												
26/11/2016												
29/11/2016												
No. of SS Exceedances	0	0	0	0	0	0	0	0	0	1	0	1

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

No exceedance of Action and Limit Level
Exceedance of Action or Limit Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow
Exceedance of Action or 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

As shown in **Table 4.11**, exceedances of Action Level at IM stations were observed on two monitoring days. Referring to the details of the Project's marine construction activities and other observations presented in **Table 4.9**, there were no marine construction activities during the monitoring on 1 November 2016, and the findings presented in **Table 4.9** (which are also applicable to turbidity) concluded the exceedance was considered not due to the Project.

Separately, it is noted that the Action Level was only marginally exceeded (by 0.2 NTU) on 17 November 2016, and the exceedances occurred as very isolated cases with neither temporal nor spatial trend to indicate that the turbidity exceedances were due to Project activities.

Sensitive Receiver (SR) Stations

There were no turbidity exceedances at any SR stations.

Findings for Nickel Exceedances (Mid-Flood Tide)

Impact Monitoring (IM) Stations

Table 4.12 presents a summary of nickel compliance status at IM stations during mid-flood tide for the reporting month. There were no nickel exceedances at any IM stations during mid-ebb tide for the reporting month.

Table 4.12: Summary of Nickel Compliance Status at IM Stations (Mid-Flood Tide)

Date	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
01/11/2016												
03/11/2016												
05/11/2016												
08/11/2016												
10/11/2016												
12/11/2016												
15/11/2016												
17/11/2016												
19/11/2016												
22/11/2016												
24/11/2016												
26/11/2016												
29/11/2016												
No. of SS Exceedances	0	0	0	0	0	0	1	1	1	0	0	0

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

No exceedance of Action and Limit Level

Exceedance of Action or Limit Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow

Exceedance of Action or 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

As shown in **Table 4.12**, exceedances of Action or Limit Level at IM stations were observed on one monitoring day. Nickel is a representative heavy metal for DCM monitoring, however, no DCM activities were conducted during the entire reporting month. The exceedances of nickel were thus considered not due to the Project. Occasional elevations in nickel levels may arise due to other sources not associated with the Project.

Sensitive Receiver (SR) Stations

There were no nickel exceedances at any SR stations during mid-flood tide or mid-ebb tide.

Conclusions

Based on the findings of the exceedance investigations, it is concluded that none of the exceedances were considered due to the Project. Hence, no SR stations are adversely affected by the Project. All required actions under the Event and Action Plan has been followed. Exceedances appear to be due to natural fluctuation (such as naturally higher baseline SS levels at individual SR stations or rough sea conditions causing natural elevations in SS at both upstream and downstream IM stations) or other sources not related to the Project.

Nevertheless, the non-project related exceedances recorded at IM stations have been attended to as a precautionary measure. This is because the IM stations represent a ‘first line of defense’, which aims to promptly capture any potential water quality impacts from the Project before the impacts could become apparent at sensitive receivers (represented by the SR stations). During the reporting month, there were site trials for sand blanket laying and geotextile laying activities, whereby custom-designed methods and silt curtain systems were being further refined taking into account their environmental performance under actual marine conditions within the Project area. The ET and the contractors will keep exploring the opportunities for further enhancement on silt curtain systems. 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. These include maintaining the silt curtain for sand blanket laying properly and maintaining the levels of materials on barges to avoid overflow as recommended in the EM&A manual.

5 Waste Management

5.1 Monitoring Requirements

In accordance with the Updated EM&A 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 were provided during monitoring including provision of drip trays for chemical containers, as well as proper collection, sorting and disposal of C&D materials and sewage effluent from construction workforce. In addition, the relevant contractors were reminded to provide spill kit and chemical storage area, and to handle the chemical waste properly. The contractors had taken actions to implement the recommended measures.

Based on the updated information, metals and paper were recycled and about 70m^3 of excavated materials were produced from the HDD launching site under P560(R) in November 2016. The generated excavated materials were temporarily stored at storage and stockpiling area. The excavated material will be reused in the Project.

19.8 tonnes of general refuse was disposed of to the West New Territories (WENT) Landfill by advanced works contract and DCM contracts in November 2016. No Construction and Demolition (C&D) material and chemical waste were disposed off-site during the reporting month.

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 Updated EM&A Manual, Chinese White Dolphin (CWD) monitoring by small vessel line-transect survey supplemented by land-based theodolite tracking should be conducted during construction phase.

The small vessel line-transect survey as proposed in the Updated EM&A 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 Updated EM&A Manual, supplemental theodolite tracking have also been conducted during the initial implementation period 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 November 2016, data from 1 September to 30 November 2016 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 October 2016 (calculated by data from August to October 2016) and the running quarterly encounter rates of this month (calculated by data from September to November 2016).

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 Updated EM&A Manual, which are consistent with the Agriculture, Fisheries and Conservation Department (AFCD) long-term monitoring programme (except 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 Updated EM&A 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 densities and patterns of movements in the broader study area of the project.

For the NWL area, there was no significant physical demarcation of the 3RS works area during CWD monitoring survey in the reporting period, therefore most of the works area of the 3RS project was still accessible and the transect lines followed the waypoints and lengths conducted for baseline monitoring. The planned vessel survey transect lines are 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	5N	808504	828602
1N	804671	831404	6S	809490	820590
2S	805475	815457	6N	809490	825352
2N	805476	830562	7S	810499	820950
3S	806464	819550	7N	810499	824613
3N	806464	829598	8S	811508	821250
4S	807518	819900	8N	811508	824254
4N	807518	829230	9S	812516	821250
5S	808504	820250	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

Waypoint	Easting	Northing	Waypoint	Easting	Northing
2S	803489	803280	7S	808553	800329
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 Northeast Lantau (NEL), Northwest Lantau (NWL) covering the Airport West (AW), West Lantau (WL) and Southwest Lantau (SWL) areas as proposed in the Updated EM&A 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 on-effort data collected under conditions of Beaufort 0-3 and visibility of approximately 1200 m or beyond, on both primary and secondary transect lines, were used for analysis.

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, 11th, 14th, 16th,17th, 18th, 21st and 28th November 2016, covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

A total of 469.12 km of survey effort was collected from these surveys, with around 83.9% 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 D**.

Sighting Distribution

In November 2016, 11 groups of CWDs with 33 individuals were sighted. Amongst the sightings of CWD, 10 groups with 28 individuals were made 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 D**.

Distribution of CWD sightings recorded in November 2016 is illustrated in **Figure 6.3**. In NWL, one sigthing was recorded northeast off the Lung Kwu Chau while other two sightings were recorded at the southwest corner of the survey area near Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road alignment. CWD sightings in WL located mainly around Tai O, whilst no sightings of CWD were recorded near Fan Lau in this reporting month. In SWL, CWD sigthings scattered from Tai Long Wan to Lo Kei Wan. 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), Red polygon: 3RS land-formation footprint]

Note: Only on-effort sightings under Beaufort 3 or below were presented in the figure.

Encounter Rate

Two types of dolphin encounter rates were calculated based on the data from November 2016. They included the number of dolphin sightings per 100km survey effort (STG) and total number of dolphins per 100km 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 November 2016, a total of 393.70 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 10 on-effort sightings and a total number of 28 dolphins from on-effort sightings were obtained under such condition. Calculation of the encounter rates in November 2016 are shown as follows:

Encounter Rate by Number of Dolphin Sightings (STG) in November 2016

$$STG = \frac{10}{393.70}\ x\ 100 = 2.54$$

Encounter Rate by Number of Dolphins (ANI) in November 2016

$$ANI = \frac{28}{393.70}\ x\ 100 = 7.11$$

For the running quarter of the reporting month (i.e., from September to November 2016), a total of 1238.24 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 44 on-effort sightings and a total number of 133 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown as follows:

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

$$STG = \frac{44}{1238.24}\ x\ 100 = 3.55$$

Running Quarterly Encounter Rate of Number of Dolphins (ANI)

$$ANI = \frac{133}{1238.24}\ x\ 100 = 10.74$$

The STG and ANI of CWD in the whole survey area (i.e. NEL, NWL, AW, WL and SWL) during the month of November 2016 and during the 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)
November 2016	2.54	7.11
Running Quarter from September to November 2016*	3.55	10.74
Action Level	1.86	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 September to November 2016, containing six sets of transect surveys for all monitoring areas.

Group Size

In November 2016, the average group size of CWDs was 2.8 individuals per group. The majority of the sightings were of medium group size (i.e. 3-9 individuals). No large CWD groups with 10+ individuals were sighted in November 2016.

Activities and Association with Fishing Boats

No sightings of CWDs were recorded in association with operating fishing boats in November 2016.

Mother-calf Pair

One mother-and-unspotted juvenile pair and one mother-and-spotted juvenile pair were sighted in SWL and NWL respectively within this reporting month.

6.4.2 Photo Identification

In November 2016, a total number of 17 different CWD individuals were identified for totally 17 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix D**.

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)	Sigthing Group No.	Area
NLMM002	04/11/2016	2	NWL	SLMM028	04/11/2016	1	NWL
NLMM006	04/11/2016	2	NWL	SLMM033	14/11/2016	1	SWL
NLMM013	04/11/2016	2	NWL	WLMM001	17/11/2016	1	WL
NLMM043	21/11/2016	1	NWL	WLMM026	04/11/2016	1	NWL
NLMM044	21/11/2016	1	NWL	WLMM027	04/11/2016	1	NWL
SLMM010	18/11/2016	1	WL	WLMM028	28/11/2016	6	SWL
SLMM011	21/11/2016	1	NWL	WLMM029	28/11/2016	6	SWL
SLMM012	28/11/2016	4	SWL	WLMM062	17/11/2016	1	WL
SLMM017	28/11/2016	4	SWL				

6.4.3 Land-based Theodolite Tracking

Survey Effort

Land-based theodolite tracking surveys at LKC were conducted on 7th, 15th and 25th November 2016 and at SC on 8th and 17th November 2016, with a total of 5 days of land-based theodolite tracking survey effort accomplished in this reporting month. In total, 10 CWD groups were tracked 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 D**. The first sighting locations of CWD groups tracked at LKC station during land-based theodolite tracking surveys in November 2016 were depicted in **Figure 6.4**. No CWD group was sighted from SC station in this reporting month.

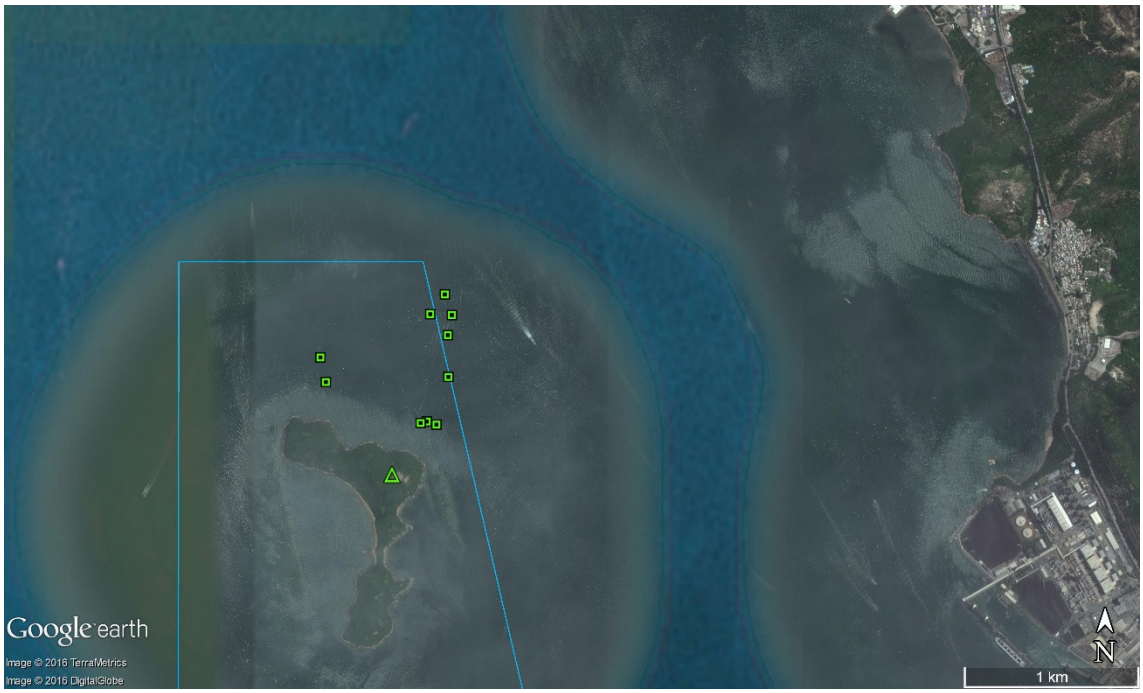
Table 6.6: Summary of Survey Effort and CWD Group of Land-based Theodolite Tracking

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	18:10	10	0.55
Sha Chau	2	12:00	0	0

TOTAL	**5**	**30:10**	**10**	**0.33**

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 on 7 November 2016, re-deployed on 16 November 2016 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

In accordance with the Marine Mammal Watching Plan, visual inspection by dolphin observer shall be implemented for works involving deployment and relocation of silt curtains and at enclosed areas once silt curtains are installed during construction phase. Briefings shall be provided by the trained dolphin observers for frontline site staff and other relevant personnel employed by the contractor to aid opportunistic observations of CWDs within waters surrounded by silt curtains.

During the reporting period, silt curtain was deployed by the contractor of CLP cable diversion enabling works as well as the DCM contractors for sand blanket laying works. Trainings for the dolphin observers were provided by the ET prior to the aforementioned works, with the training

records kept by the ET. Prior to the complete enclosure of any open water area within a silt curtain or deployment in form of linear floating silt curtain, observations around waters enclosed by the silt curtain deployment and vicinity area from the installation works were taken place for 30 minutes by the trained dolphin observer to ensure no dolphins were trapped within the silt curtain. Visual inspection and integrity check for silt curtain were carried out by the contractor and their daily records were audited by ET and IEC 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 yearly reports after a larger sample size of data has been collected.

6.8 Summary of CWD Monitoring

CWD monitoring was conducted as scheduled. The running quarterly encounter rates STG and ANI in the reporting month did not trigger the Action Level (i.e., remained above the Action Level). No adverse impact from the Project was observed.

7 Environmental Site Inspection and Audit

7.1 Environmental Site Inspection

Weekly site inspections of the construction works for the advanced works contract, CLP cable diversion enabling works 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 C**. 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 the provision of drip trays for chemical containers; improvement of dust control measures; display of noise emission labels for air compressors and Non-road mobile machinery (NRMM) labels for generators; sewage effluent from construction workforce as well as proper collection, sorting and disposal of C&D materials. In addition, recommendations were provided during site inspection on barges, including provision of spill kit and chemical waste storage area for the chemical waste, display of Environmental Permit, and provision of acoustic decoupling for noisy equipment. The contractors had taken actions to implement the recommended measures.

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

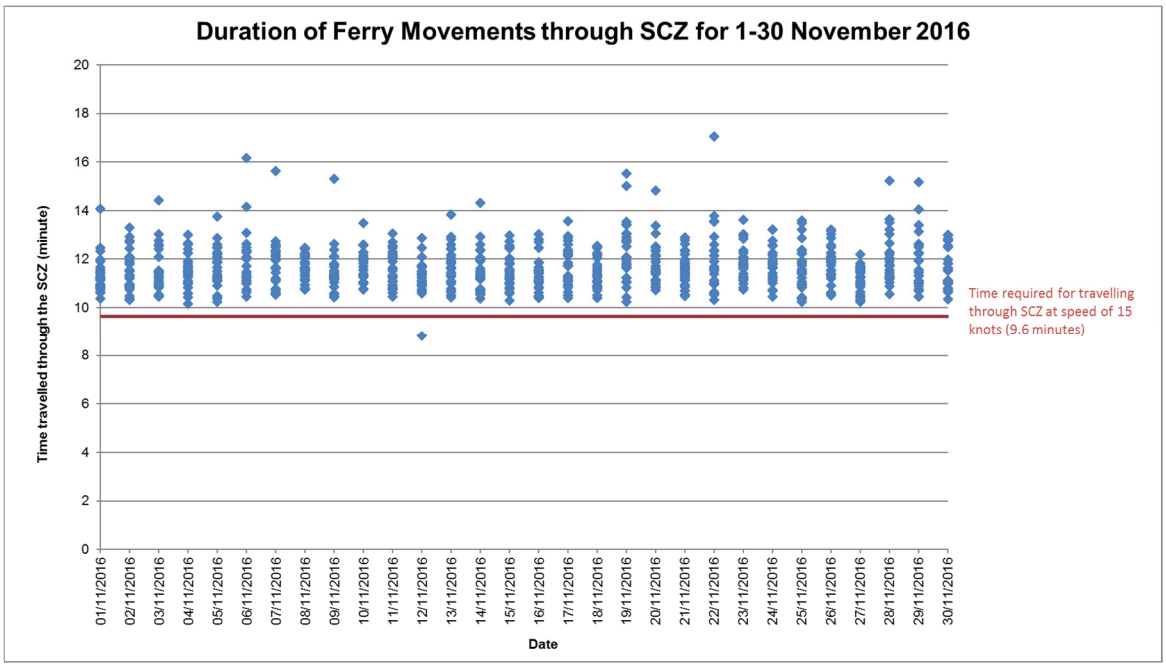
The Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan) has been submitted to the Advisory Council on the Environment (ACE) for comment and subsequently submitted to and approved by EPD in November 2015 under EP Condition 2.10. The approved SkyPier Plan is available 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 Chinese White Dolphin (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 November 2016 (i.e., 88 to 93 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, 837 ferry movements between HKIA SkyPier and Zhuhai / Macau were recorded in November 2016 and the data are presented in **Appendix G**. The time spent by the SkyPier HSFs travelling through the SCZ in November 2016 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 the SkyPier HSFs spent more than 9.6 minutes to travel through the SCZ, except that one HSF travelled at an average speed of

16.4. knots. Notice was therefore sent to the ferry operator and the case is currently under investigation by ET. The investigation result will be presented in the next monthly EM&A report.

Figure 7-1 Duration of the SkyPier HSFs travelling through the SCZ for 1 – 30 November 2016



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 12, 14, 17 and 22 November 2016. Another ferry was not travelled through the diverted route and it entered the Marine Prohibited Zone on 22 November 2016. Notices were accordingly sent to the ferry operator and the cases are under investigation by ET. The investigation result will be presented in the next monthly EM&A report.

The four cases of minor route deviations on 8, 10, 11 and 15 October 2016 as recorded in the previous Monthly EM&A Report have been investigated by ET. It was found from the investigation that the four minor deviation cases were all due to public safety considerations, i.e., strong tidal wave and current or giving way to other vessels, and the HSFs had returned to the normal route following the SkyPier Plan as soon as practicable.

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

Requirements in the SkyPier Plan	1 November to 30 November 2016
Total number of ferry movements recorded and audited	837
Use diverted route and enter / leave SCZ through Gate Access Points	5 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 (8.5 knots to 14.2 knots), which complied with the SkyPier Plan, except that one HSF travelled at an average speed of 16.4 knots. The time used by HSFs to travel through SCZ is presented in **Figure 7-1**.
Daily Cap (including all SkyPier HSFs)	88 to 93 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) has been 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 had carried out the following actions during the reporting period:

- 6 skipper trainings had been 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.
- 2 skipper trainings had been held by contractor's Environmental Officer. Competency test had subsequently been conducted with the trained skippers by ET.
- ET had conducted weekly audit of construction and associated vessel records as provided by the contractors. AIS data, vessel tracks, vessel speed and other relevant records had also been audited by ET to ensure the contractors complied with the requirements of the MTRMP-CAV and submitted sufficient records to the Marine Traffic Control Centre (MTCC) for records.
- From the weekly audit, deviations such as speeding in the works area, entry 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 weekly MTCC audit and such deviations were also reviewed during the Environmental Management Meeting in order to help the contractors prevent such deviations from happening again in future.
- A Marine Management Liaison Group (MMLG) has been set up and provided a forum to assist and resolve any marine issues which may be encountered under the 3RS Project. ET had participated in the 4th MMLG meeting held on 28 November 2016. The action plan for marine traffic management and the contingency route for tropical cyclone or emergency event had been discussed during the MMLG meeting.
- 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 also performed audit on the compliance of the requirements as part of the EM&A programme.

7.4 Ecological Monitoring

In accordance with the Updated EM&A Manual, ecological monitoring shall 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. During the reporting month, the monthly ecological monitoring on Sheung Sha Chau Island observed that installation of casing was conducted under the Contract P560(R) on the Island and there was no encroachment upon the egretry area nor any significant disturbance to the egrets at Sheung Sha Chau by the works.

7.5 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	

7.6 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**.

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

7.7.1 Complaints

During the reporting period, no construction activities related complaints were received.

7.7.2 Notifications of Summons or Status of Prosecution

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

7.7.3 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 contract works:

Advanced Works Contract:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

- HDD pilot hole drilling;
- Stockpiling of excavated materials from HDD operation; and
- Casing installation.

Reclamation Contracts:

Contract 3201 to 3205 Deep Cement Mixing Works

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

Contract 3206 Main Reclamation Works

- Laying of sand blanket.

Other Contracts:

Contract 3213 CLP Cable Diversion Enabling Works

- Installaltion of cable trough; and
- Reinstatement of seawall.

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 trial works;
- 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 C**.

9 Conclusion and Recommendation

Key activities of the Project carried out in the reporting month were related to advanced works contract which involved drilling of HDD pilot hole at launching site, stockpiling of excavated materials from HDD operation at stockpiling area, and casing installation at Sheung Sha Chau. CLP cable diversion enabling work contract was also carried out, which involved construction of drawpit, installation and backfilling for cable trough at the western part of the airport. The four in-progress deep cement mixing (DCM) contracts involved site investigation works, laying of geotextile and sand blanket.

All the monitoring works for construction dust, construction noise, water quality, construction waste, terrestrial ecology 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 the construction dust, construction noise, construction waste and CWD monitoring was recorded in the reporting month.

The water quality monitoring results for DO, total alkalinity and chromium obtained during the reporting period were in compliance with their corresponding Action and Limit Levels. For turbidity, SS and nickel, some of the testing results had exceeded the relevant Action Levels or Limit Levels during the reporting period. Investigations were carried out immediately for each of the exceedance cases, and the investigation findings concluded that all the exceedances were not due to the Project.

The monthly terrestrial ecology monitoring on Sheung Sha Chau Island observed that installation of casing was conducted on the Island and there was no encroachment upon the egretry area nor any significant disturbance to the egrets at Sheung Sha Chau by the works.

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 and recommendations were provided to the contractors together with the appropriate follow-up actions where necessary.

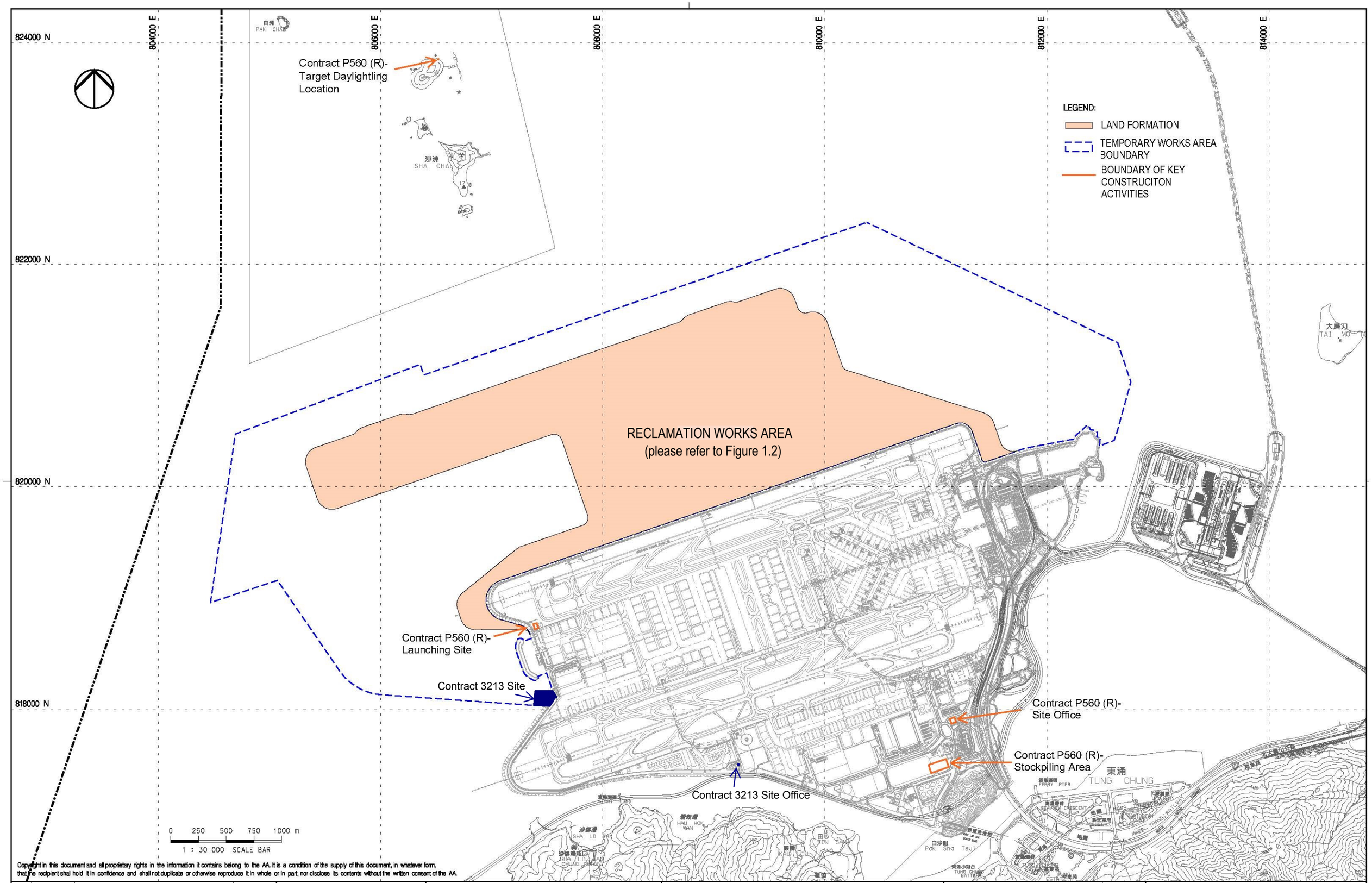
On the implementation of Marine Mammal Watching plan, trainings for the dolphin observers were provided by the ET prior to the deployment of silt curtain, with the training records kept by the ET. Visual inspection and integrity check for silt curtain were carried out by the contractor and their daily records were audited by ET and IEC during site inspection. Audits of acoustic decoupling for construction vessels and Skypier High Speed Ferries route diversion and speed control and construction vessel management were 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 November 2016 were in the range of 88 to 93 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 837 HSF movements under the SkyPier Plan were recorded in the reporting period. All HSFs had travelled through the SCZ with average speeds under 15 knots (8.5 to 14.2 knots), which were in compliance with the SkyPier Plan, except that one HSF travelled with an average speed of 16.4 knots. Notice regarding the exceedance of average speed within SCZ was sent to the ferry operator and the case is under investigation by ET. One ferry movement not following the diverted route and 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), ET had conducted weekly audit of relevant information, including AIS data, vessel tracks and other relevant records to ensure the contractors complied with the requirements of the MTRMP-CAV. Training has been provided for the concerned skippers to facilitate them in familiarising with the requirements of the MTRMP-CAV 3-month rolling programmes for construction vessel activities were also received from contractors.

Figures



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A	31AUG15	FIRST ISSUE	DC

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

Mott MacDonald

Title

LOCATIONS OF KEY CONSTRUCITON ACTIVITIES IN THIS REPORTING PERIOD

Consultant's Signatures for Approval		Date
Design	DC	31AUG15
Checkers	DC	31AUG15
Design Supervisor	EC	31AUG15
Authorised Representative	JFP	31AUG15

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

Drawing No.

FIGURE 1.1

Scale at A3 1 : 30000

Rev. A

Filename: J:\355482\REPORT\ENV\CWSLP\FIG 1.dgn

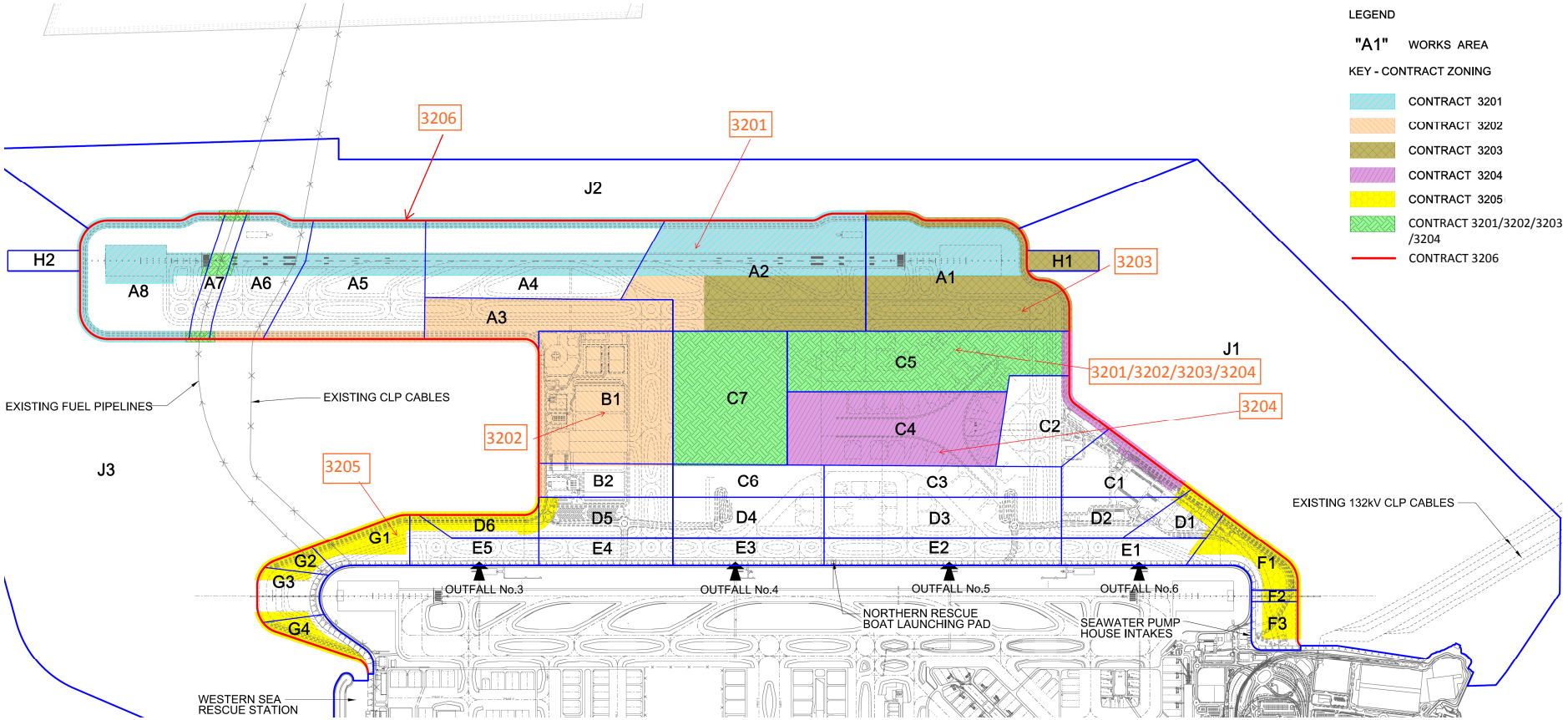

FIGURE 1.2- LOCATIONS OF RECLAMATION WORKS AREA

LEGEND:

- PROPOSED 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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B	29JAN16	GENERAL REVISION	RO
C	11FEB16	GENERAL REVISION	RO

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Mott MacDonald

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

SR2
SR3
SR4A
SR5A
SR6
SR7
SR8

LEGEND:

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

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

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WATER QUALITY MONITORING STATIONS

Consultant's Signatures for Approval		Date
Design	DC	06JUN16
Checkers	DC / TK	06JUN16
Approver	EC	06JUN16

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
WEST LANTAU

LEGEND:
- HKSAR BOUNDARY
- PROPOSED LAND FORMATION FOOTPRINT
- DOLPHIN VESSEL SURVEY TRANSECT ROUTE
- DOLPHIN VESSEL SURVEY TRANSECT ROUTE

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

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Title

VESSEL BASED DOLPHIN MONITORING TRANSECTS IN BASELINE MONITORING

Consultant's Signatures for Approval		Date
Design	JC	02DEC15
Checkers	JC / TK	02DEC15
Approver	EC	02DEC15

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

Drawing No.

FIGURE 6.1

Scale at A3 1 : 125000

Rev. A

Filename: J:\355482\REPORT\ENV\EMA\151202\MCL-P132-EMA-10-002.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
HKSAR BOUNDARY
沙洲及龍鼓洲海岸公園
SHA CHAU AND LUNG KWU CHAU MARINE PARK
LEGEND:
PROPOSED 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

Consultant's Signatures for Approval		Date
Design	JC	02DEC15
Checkers	JC / TK	02DEC15
Approver	EC	02DEC15

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

Drawing No.

FIGURE 6.2

Scale at A3 1 : 45000

Rev. A

Filename: J:\355482\REPORT\ENV\EMA\151202\MCL-P132-EMA-10-004.dgn

804000 E
806000 E
808000 E
810000 E
812000 E
814000 E
816000 E
818000 E
820000 E

828000 N
826000 N
824000 N
822000 N
820000 N
818000 N

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

龍鼓洲
LUNG KWU CHAU

沙洲
SHA CHAU

A5

HKSAR BOUNDARY

LEGEND:

PROPOSED LAND FORMATION FOOTPRINT

HONG KONG INTERNATIONAL AIRPORT

AUTONOMOUS PASSIVE ACOUSTIC MONITORING LOCATION

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

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Mott MacDonald

Title

LOCATIONS FOR AUTONOMOUS PASSIVE ACOUSTIC MONITORING IN BASELINE AND CONSTRUCTION PHASES

Consultant's Signatures for Approval		Date
Design	JC	02DEC15
Checkers	JC / TK	02DEC15
Approver	EC	02DEC15

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

Drawing No.

FIGURE 6.5

Scale at A3
1 : 45000

Rev. A

Filename: J:\355482\REPORT\ENV\EMA\151202\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. 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. 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	I
		-	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. Debris Handling		

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
			▪ 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. 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. 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. 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. 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.		
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 ▪ 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	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 ?^
			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; ▪ 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		

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
			▪ 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. 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.		
		-	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.		
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; ▪ 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	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 ?^
			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. 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; ▪ 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		

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
			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. 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. 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. 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.		
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: 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	Within Crushing 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 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. 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.		
		-	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. Rock drilling equipment • Appropriate dust control equipment such as a dust extraction and collection system shall be used during		

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
			rock drilling activities.		
			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; ▪ 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.	Within the Project site / During construction phase / Prior to commencement of operation	I
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	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
				commencement of operation	
			Water Quality Impact – Construction Phase		
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. <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; ▪ 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; ▪ 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 ▪ The Silt Curtain Deployment Plan shall be implemented.	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 ?^
			<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; ▪ 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 ▪ The silt curtains and silt screens should be regularly checked and maintained. <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; ▪ Double layer silt curtains to be applied at the south-western opening prior to commencement of marine filling activities; ▪ 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 ▪ The silt curtains and silt screens should be regularly checked and maintained. <u>Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion</u> ▪ 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.		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	I
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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
8.8.1.6 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. <u>For construction of the eastern approach lights at the CMPs</u> ▪ 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 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 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; ▪ 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; ▪ 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; ▪ 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	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 ?^
			proper disposal off-site. No direct discharge of contaminated groundwater is permitted; ▪ 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;		
		-	▪ Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the construction materials, soil, silt or debris from washing away into the drainage system; ▪ Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and to prevent stormwater runoff being directed into foul sewers; and ▪ Precautionary measures should be taken at any time of the year when rainstorms are likely. Actions to be taken when a rainstorm is imminent or forecasted are summarized in Appendix A2 of ProPECC Note PN 1/94. This includes actions to be taken during and/or after rainstorms. Particular attention should be paid to the control of silty surface runoff during storm events.		
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 ▪ 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.	Within construction site / During construction phase	I
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	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 ?^
			▪ 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. 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.		
			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; ▪ 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; ▪ 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; ▪ 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 ▪ 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.	Project Site Area / During design and construction phase	I
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;	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 ?^
			▪ 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.		
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; ▪ 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.	Project Site Area / Construction Phase	I
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	Project Site Area /	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
			reputable licensed recyclers whereas the non-recyclable waste materials should be disposed of at the designated landfill site by a reputable licensed waste collector.	Construction Phase	
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 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.	Project Site Area / Construction Phase	N/A
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	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 ?^
			▪ 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.		
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. ▪ 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. ▪ 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. ▪ 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.	Project Site Area inaccessible during site reconnaissance / Prior to Construction Phase	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	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 ?^
			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.		
			Terrestrial Ecological Impact – 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
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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
			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	N/A
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; ▪ 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; ▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; ▪ Avoid bored piling during CWD peak calving season (Mar to Jun); ▪ Prohibition of underwater percussive piling; and ▪ 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.	During construction phase at marine works area	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; ▪ 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); ▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and ▪ 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.	All works area during the construction phase	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	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 ?^
			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.		
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
13.11.5.4 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. **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; ▪ 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 ▪ A DEZ would also be implemented during bored piling work but as a precautionary measure only.	Marine waters around land formation works area during construction phase	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	Around coastal works area 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 ?^
			▪ Specific acoustic decoupling measures shall be specified during the detailed design of the project for use during the land formation works.		
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
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	N/A
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; ▪ 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; ▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and ▪ 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.	During construction phase at marine works area	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;	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 ?^
			▪ Fines for infractions should be implemented; and ▪ Unscheduled, on-site audits shall be implemented.		
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 ▪ 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
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; ▪ 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); ▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and ▪ 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.	All works area during the construction phase	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.	N/A
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.	N/A
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	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
				completion of works.	
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. – may be disassembled in phases	N/A
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	N/A
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;	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
				Upon handover and completion of works.	
			Cultural Heritage Impact – Construction Phase		
		-	Not applicable.		
			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 during site inspection

Appendix B. Calibration Certificates

EQUIPMENT CALIBRATION RECORD

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

Standard Equipment

Equipment :	MFC High Volume Air Sampler
Venue :	Tung Chung Pier
Model No.:	TE-5170 Total Suspended Particulate
Serial No.:	S/N3641
Previous Calibration Date	29/09/2016

Calibration Result

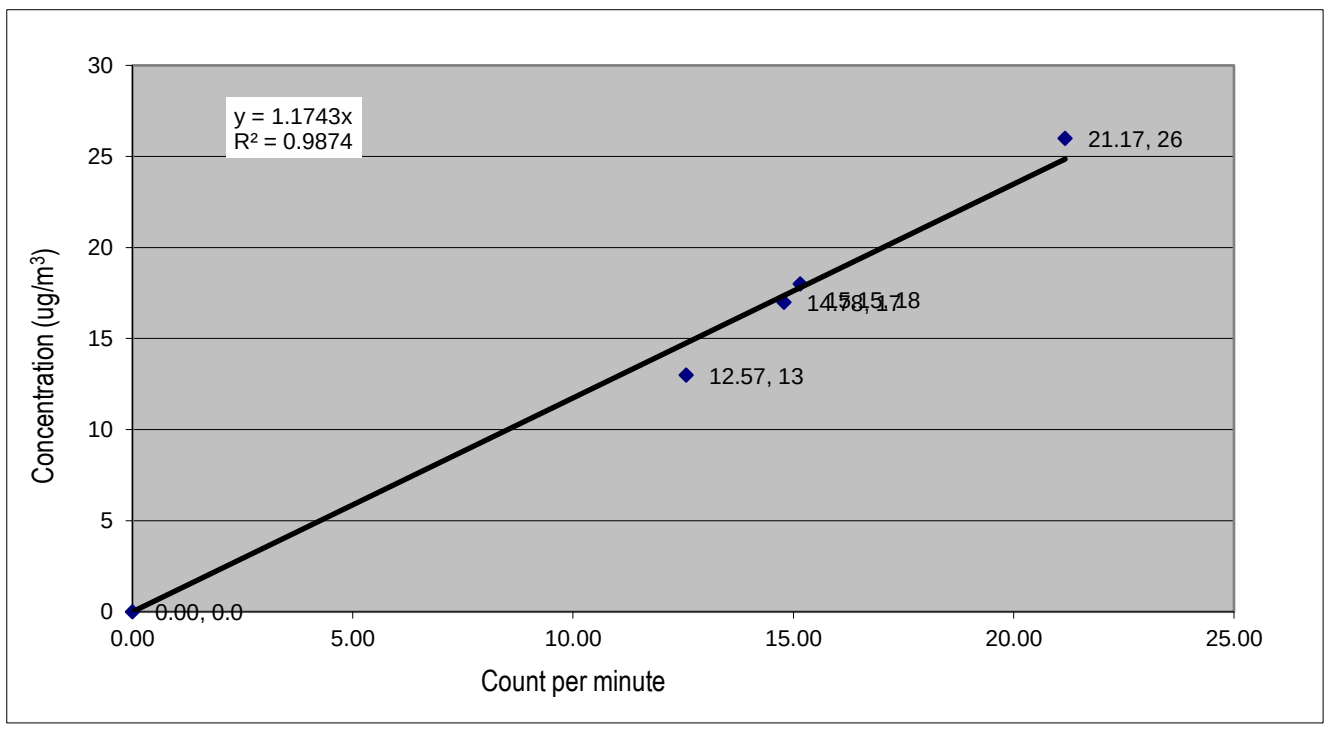
Sensitivity Adjustment Scale Setting (Before Calibration) :	622 CPM
Sensitivity Adjustment Scale Setting (After Calibration) :	622 CPM

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

Be Linear Regression of Y or X

Slope (K-factor):	1.1743
Correlation coefficient (R) :	0.9937

Remark: _____



Recorded by: Ray Cheng Signature: _____ Date: 25/11/2016

Checked by: Ketih Chau Signature: _____ Date: 25/11/2016

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location	**:**	**AMS2(Tung Chung Development Pier)**
Calibrated by	**:**	**P.F.Yeung**
Date	**:**	**29/09/2016**

Sampler

Model	**:**	**TE-5170**
Serial Number	**:**	**S/N3641**

Calibration Orifice and Standard Calibration Relationship

Serial Number	**:**	**2454**
Service Date	**:**	**14 Mar 2016**
Slope (m)	**:**	**2.10326**
Intercept (b)	**:**	**-0.06696**
Correlation Coefficient(r)	**:**	**0.99989**

Standard Condition

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

Calibration Condition

Pa (hpa)	**:**	**1000**
Ta(K)	**:**	**304**

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1	18 holes	11.4	3.321	1.611	55	54.10
2	13 holes	9.3	3.000	1.458	50	49.19
3	10 holes	7.0	2.603	1.269	45	44.27
4	7 holes	4.4	2.063	1.013	38	37.38
5	5 holes	2.7	1.616	0.800	31	30.49

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

Sampler Calibration Relationship

Slope(m):28.536 Intercept(b): 7.978 Correlation Coefficient(r): 0.9992

Checked by: Magnum Fan Date: 04/10/2016

Appendix C. Monitoring Schedule

Monitoring Schedule of This Reporting Period

NOVEMBER 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 WQ General & Regular DCM mid- ebb: 13:55 mid- flood: 08:11	**2** Site Inspection NM5/AR2	**3** Site Inspection NM6 WQ General & Regular DCM mid- ebb: 15:02 mid- flood: 09:26	**4** AR1A CWD Vessel Survey	**5** WQ General & Regular DCM mid- ebb: 16:23 mid- flood: 11:05
6	**7** Site Inspection CWD Land-based Survey	**8** NM5/AR2 CWD Land-based Survey WQ General & Regular DCM mid- ebb: 20:43 mid- flood: 14:43	**9** Site Inspection	**10** Site Inspection NM1A/AR1A NM4 NM3A NM6 WQ General & Regular DCM mid- ebb: 08:49 mid- flood: 16:02	**11** Site Inspection CWD Vessel Survey	**12** WQ General & Regular DCM mid- ebb: 10:48 mid- flood: 17:08
13	**14** Site Inspection NM5/AR2 CWD Vessel Survey	**15** NM6 CWD Land-based Survey WQ General & Regular DCM mid- ebb: 13:19 mid- flood: 07:36	**16** Site Inspection NM1A/AR1A NM4 NM3A CWD Vessel Survey Ecological Monitoring	**17** Site Inspection CWD Vessel Survey CWD Land-based Survey WQ General & Regular DCM mid- ebb: 15:00 mid- flood: 09:31	**18** Site Inspection AR2 CWD Vessel Survey	**19** WQ General & Regular DCM mid- ebb: 16:40 mid- flood: 11:24
20	**21** Site Inspection NM6 CWD Vessel Survey	**22** NM1A/AR1A NM4 WQ General & Regular DCM mid- ebb: 06:53 mid- flood: 14:54	**23** Site Inspection	**24** Site Inspection NM5/AR2 NM3A* WQ General & Regular DCM mid- ebb: 09:31 mid- flood: 16:08	**25** CWD Land-based Survey	**26** WQ General & Regular DCM mid- ebb: 11:09 mid- flood: 17:04
27	**28** Site Inspection NM1A/AR1A NM3A CWD Vessel Survey	**29** Site Inspection WQ General & Regular DCM mid- ebb: 13:02 mid- flood: 07:32	**30** Site Inspection NM5/AR2 NM4			

Notes:

Air quality and Noise montiorng Station

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

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

* Rescheduled due to adverse weather

^ Cancelled due to adverse weather

Tentative Monitoring Schedule of Next Reporting Period

DECEMBER 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 Site Inspection NM6 WQ General & Regular DCM mid- ebb: 14:11 mid- flood: 08:45	**2** AR1A CWD Vessel Survey	**3** WQ General & Regular DCM mid- ebb: 15:24 mid- flood: 10:02
4	**5** Site Inpsection CWD Vessel Survey	**6** Site Inspection NM5/AR2 WQ General & Regular DCM mid- ebb: 18:12 mid- flood: 12:40	**7** Site Inspection CWD Land-based Survey	**8** Site Inspection NM1A/AR1A NM4 NM3A NM6 CWD Land-based Survey WQ General & Regular DCM mid- ebb: 20:53 mid- flood: 14:29	**9** Site Inspection	**10** WQ General & Regular DCM mid- ebb: 09:17 mid- flood: 15:49
11	**12** Site Inpsection NM5/AR2 CWD Land-based Survey	**13** NM6 CWD Vessel Survey WQ General & Regular DCM mid- ebb: 12:17 mid- flood: 17:48	**14** Site Inspection NM1A/AR1A NM4 NM3A CWD Vessel Survey	**15** Site Inspection CWD Vessel Survey WQ General & Regular DCM mid- ebb: 13:59 mid- flood: 08:35	**16** Site Inspection NM5/AR2 CWD Vessel Survey Ecological Monitoring	**17** WQ General & Regular DCM mid- ebb: 15:31 mid- flood: 10:13
18	**19** Site Inpsection NM6 CWD Vessel Survey	**20** NM1A/AR1A NM4 NM3A CWD Vessel Survey CWD Land-based Survey WQ General & Regular DCM mid- ebb: 18:24 mid- flood: 12:45	**21** Site Inspection	**22** Site Inspection NM5/AR2 CWD Land-based Survey WQ General & Regular DCM mid- ebb: 06:58 mid- flood: 14:27	**23** AR1A	**24** WQ General & Regular DCM mid- ebb: 09:43 mid- flood: 15:46
25	**26**	**27** WQ General & Regular DCM mid- ebb: 12:06 mid- flood: 06:50	**28** Site Inspection NM5/AR2	**29** Site Inspection NM1A/AR1A NM4 NM3A NM6 WQ General & Regular DCM mid- ebb: 13:17 mid- flood: 08:02	**30**	**31** WQ General & Regular DCM mid- ebb: 14:29 mid- flood: 09:08

Notes:

Air quality and Noise montiorng 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

* Rescheduled due to adverse weather

^ Cancelled due to adverse weather

Appendix D. Monitoring Results

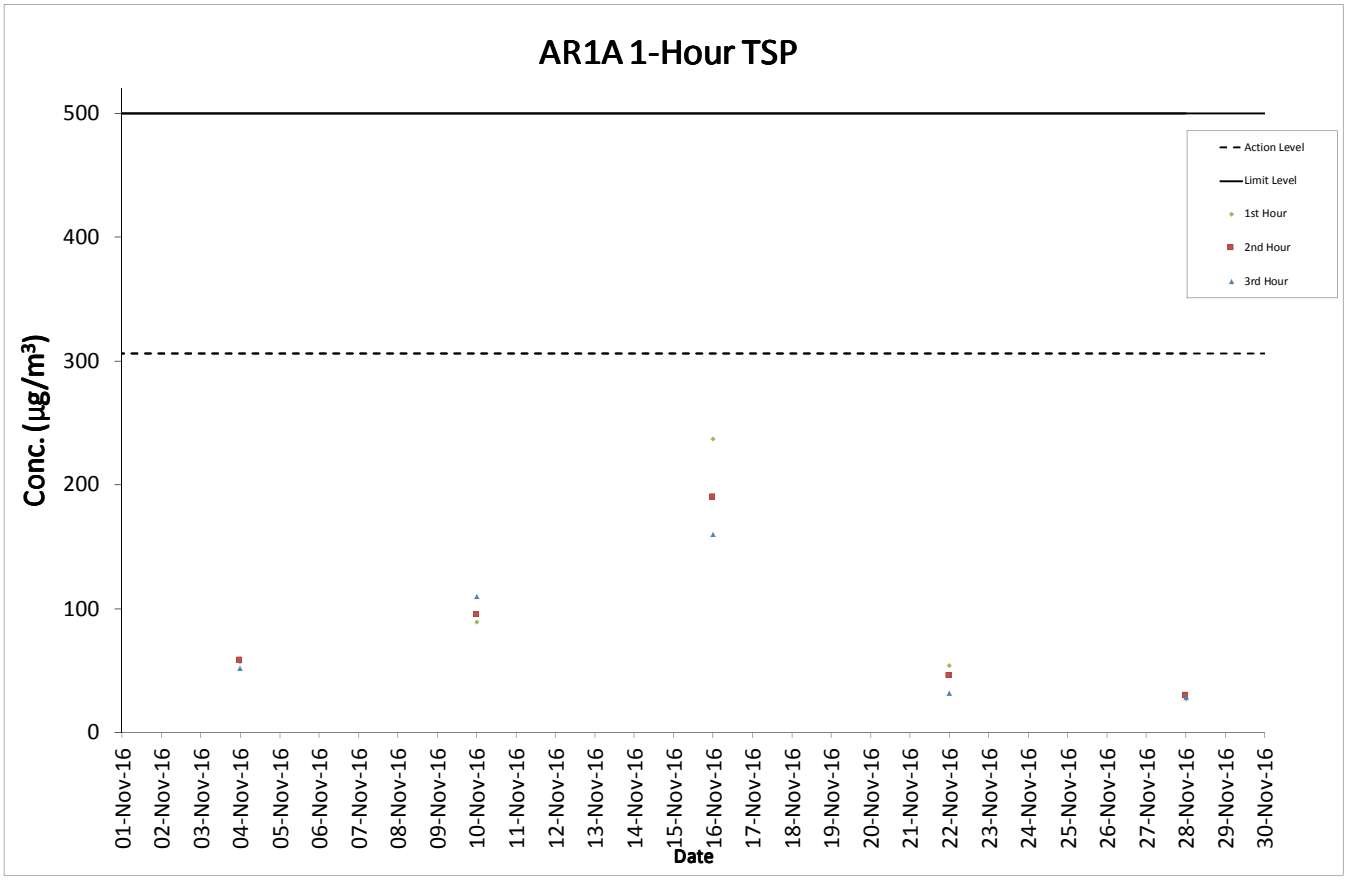
Air Quality Monitoring Results

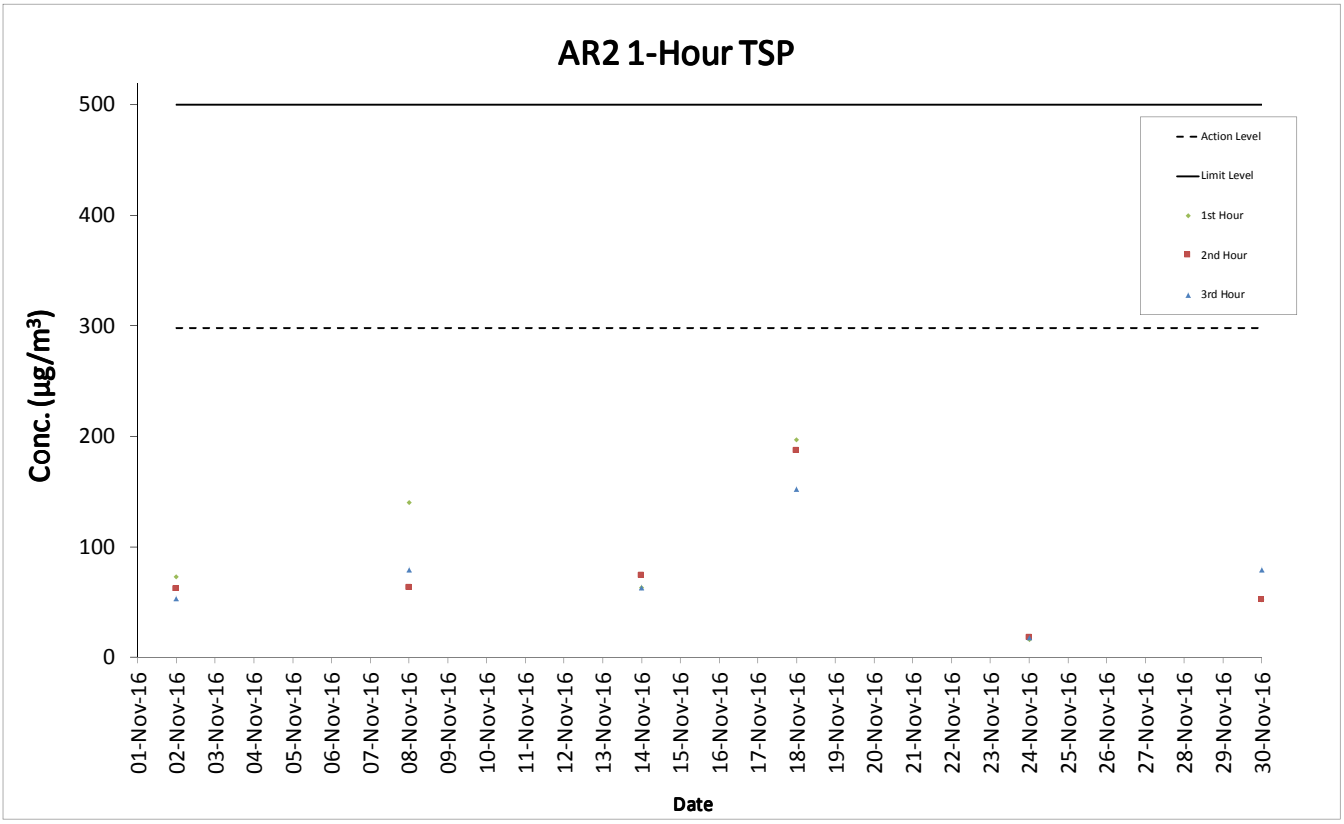
1-hour TSP Results
Station: AR1A- Man Tung Road Park

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 ($\mu g/m^3$)
04-Nov-16	14:10	Sunny	2.7	298	57	306	500
04-Nov-16	15:10	Sunny	3.0	292	58	306	500
04-Nov-16	16:10	Sunny	2.2	288	52	306	500
10-Nov-16	13:01	Cloudy	5.9	352	89	306	500
10-Nov-16	14:01	Cloudy	5.8	356	95	306	500
10-Nov-16	15:01	Cloudy	4.9	11	110	306	500
16-Nov-16	08:43	Cloudy	7.8	109	237	306	500
16-Nov-16	09:43	Cloudy	7.8	109	190	306	500
16-Nov-16	10:43	Cloudy	6.8	105	160	306	500
22-Nov-16	08:51	Cloudy	3.7	56	54	306	500
22-Nov-16	09:51	Cloudy	3.9	73	46	306	500
22-Nov-16	10:51	Cloudy	3.7	67	32	306	500
28-Nov-16	09:00	Sunny	7.6	59	27	306	500
28-Nov-16	10:00	Sunny	6.5	58	30	306	500
28-Nov-16	11:00	Sunny	3.8	61	29	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 ($\mu g/m^3$)
02-Nov-16	08:50	Sunny	4.4	26	73	298	500
02-Nov-16	09:50	Sunny	4.8	38	62	298	500
02-Nov-16	10:50	Sunny	5.0	37	53	298	500
08-Nov-16	9:04	Sunny	2.7	63	140	298	500
08-Nov-16	10:04	Sunny	2.5	43	63	298	500
08-Nov-16	11:04	Sunny	2.0	313	79	298	500
14-Nov-16	08:55	Fine	7.1	81	63	298	500
14-Nov-16	09:55	Fine	7.2	77	74	298	500
14-Nov-16	10:55	Fine	7.4	74	63	298	500
18-Nov-16	08:55	Fine	6.3	87	197	298	500
18-Nov-16	09:55	Fine	8.3	89	187	298	500
18-Nov-16	10:55	Fine	9.0	98	152	298	500
24-Nov-16	08:50	Fine	5.0	8	16	298	500
24-Nov-16	09:50	Fine	5.1	21	18	298	500
24-Nov-16	10:50	Fine	4.5	24	18	298	500
30-Nov-16	09:00	Fine	3.5	43	52	298	500
30-Nov-16	10:00	Fine	5.3	4	52	298	500
30-Nov-16	11:00	Fine	4.0	339	79	298	500


AR1A 1-Hour TSP
Conc. (µg/m³)
500
400
300
200
100
0
Action Level
Limit Level
1st Hour
2nd Hour
3rd Hour
01-Nov-16
02-Nov-16
03-Nov-16
04-Nov-16
05-Nov-16
06-Nov-16
07-Nov-16
08-Nov-16
09-Nov-16
10-Nov-16
11-Nov-16
12-Nov-16
13-Nov-16
14-Nov-16
15-Nov-16
16-Nov-16
17-Nov-16
18-Nov-16
19-Nov-16
20-Nov-16
21-Nov-16
22-Nov-16
23-Nov-16
24-Nov-16
25-Nov-16
26-Nov-16
27-Nov-16
28-Nov-16
29-Nov-16
30-Nov-16
Date


AR2 1-Hour TSP
Conc. (µg/m³)
500
400
300
200
100
0
Action Level
Limit Level
1st Hour
2nd Hour
3rd Hour
01-Nov-16
02-Nov-16
03-Nov-16
04-Nov-16
05-Nov-16
06-Nov-16
07-Nov-16
08-Nov-16
09-Nov-16
10-Nov-16
11-Nov-16
12-Nov-16
13-Nov-16
14-Nov-16
15-Nov-16
16-Nov-16
17-Nov-16
18-Nov-16
19-Nov-16
20-Nov-16
21-Nov-16
22-Nov-16
23-Nov-16
24-Nov-16
25-Nov-16
26-Nov-16
27-Nov-16
28-Nov-16
29-Nov-16
30-Nov-16
Date

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)
10-Nov-16	Cloudy	13:25	68.0	56.5	71
10-Nov-16	Cloudy	13:30	70.5	60.0	
10-Nov-16	Cloudy	13:35	70.0	59.5	
10-Nov-16	Cloudy	13:40	69.5	58.5	
10-Nov-16	Cloudy	13:45	68.5	57.5	
10-Nov-16	Cloudy	13:50	68.0	57.5	
16-Nov-16	Cloudy	08:57	71.5	53.0	71
16-Nov-16	Cloudy	09:02	70.5	54.5	
16-Nov-16	Cloudy	09:07	70.5	54.5	
16-Nov-16	Cloudy	09:12	69.5	54.0	
16-Nov-16	Cloudy	09:17	70.0	54.5	
16-Nov-16	Cloudy	09:22	68.5	54.0	
22-Nov-16	Cloudy	09:23	71.5	53.0	71
22-Nov-16	Cloudy	09:28	71.5	54.5	
22-Nov-16	Cloudy	09:33	71.0	54.5	
22-Nov-16	Cloudy	09:38	70.0	54.0	
22-Nov-16	Cloudy	09:43	70.5	54.5	
22-Nov-16	Cloudy	09:48	70.0	54.0	
28-Nov-16	Sunny	09:15	74.5	58.0	72
28-Nov-16	Sunny	09:20	72.5	60.0	
28-Nov-16	Sunny	09:25	73.5	59.0	
28-Nov-16	Sunny	09:30	72.0	56.0	
28-Nov-16	Sunny	09:35	71.5	55.0	
28-Nov-16	Sunny	09:40	73.5	58.5	

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)
10-Nov-16	Cloudy	13:01	70.5	55.0	57
10-Nov-16	Cloudy	13:06	69.0	55.5	
10-Nov-16	Cloudy	13:11	68.0	56.0	
10-Nov-16	Cloudy	13:16	65.0	57.5	
10-Nov-16	Cloudy	13:21	64.0	56.5	
10-Nov-16	Cloudy	13:26	68.0	56.0	
16-Nov-16	Sunny	14:46	67.0	59.0	63
16-Nov-16	Sunny	14:51	66.0	59.0	
16-Nov-16	Sunny	14:56	64.5	59.0	
16-Nov-16	Sunny	15:01	67.5	59.0	
16-Nov-16	Sunny	15:06	66.0	59.5	
16-Nov-16	Sunny	15:11	66.5	59.0	
24-Nov-16	Fine	13:45	71.0	58.5	61
24-Nov-16	Fine	13:50	67.5	58.5	
24-Nov-16	Fine	13:55	67.0	57.5	
24-Nov-16	Fine	14:00	67.0	57.5	
24-Nov-16	Fine	14:05	67.0	57.5	
24-Nov-16	Fine	14:10	67.5	58.0	
28-Nov-16	Fine	09:30	68.0	54.5	61
28-Nov-16	Fine	09:35	68.0	54.0	
28-Nov-16	Fine	09:40	70.0	55.5	
28-Nov-16	Fine	09:45	68.5	55.5	
28-Nov-16	Fine	09:50	69.5	55.0	
28-Nov-16	Fine	09:55	70.0	55.5	

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)
10-Nov-16	Cloudy	10:59	64.5	58.5	66
10-Nov-16	Cloudy	11:04	65.5	59.0	
10-Nov-16	Cloudy	11:09	65.0	60.0	
10-Nov-16	Cloudy	11:14	65.0	59.5	
10-Nov-16	Cloudy	11:19	64.5	59.0	
10-Nov-16	Cloudy	11:24	65.5	59.5	
16-Nov-16	Sunny	13:25	64.5	60.5	66
16-Nov-16	Sunny	13:30	65.0	59.5	
16-Nov-16	Sunny	13:35	65.5	60.0	
16-Nov-16	Sunny	13:40	64.0	59.5	
16-Nov-16	Sunny	13:45	63.5	60.0	
16-Nov-16	Sunny	13:50	64.5	59.5	
22-Nov-16	Cloudy	14:00	64.5	60.5	66
22-Nov-16	Cloudy	14:05	63.5	60.5	
22-Nov-16	Cloudy	14:10	64.0	60.0	
22-Nov-16	Cloudy	14:15	64.5	60.5	
22-Nov-16	Cloudy	14:20	66.0	60.0	
22-Nov-16	Cloudy	14:25	67.5	61.0	
30-Nov-16	Fine	13:30	68.5	62.5	64
30-Nov-16	Fine	13:35	68.0	61.5	
30-Nov-16	Fine	13:40	67.0	61.5	
30-Nov-16	Fine	13:45	67.0	62.0	
30-Nov-16	Fine	13:50	67.0	61.0	
30-Nov-16	Fine	13:55	65.5	61.5	

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)
02-Nov-16	Sunny	09:41	62.0	53.5	61
02-Nov-16	Sunny	09:46	61.5	53.5	
02-Nov-16	Sunny	09:51	61.5	54.0	
02-Nov-16	Sunny	09:56	63.0	52.0	
02-Nov-16	Sunny	10:01	61.0	52.0	
02-Nov-16	Sunny	10:06	62.0	53.5	
08-Nov-16	Sunny	09:43	54.5	47.0	55
08-Nov-16	Sunny	09:48	51.5	45.0	
08-Nov-16	Sunny	09:53	55.5	46.5	
08-Nov-16	Sunny	09:58	53.0	46.0	
08-Nov-16	Sunny	10:03	56.5	46.5	
08-Nov-16	Sunny	10:08	52.0	46.5	
14-Nov-16	Fine	09:09	52.5	44.0	53
14-Nov-16	Fine	09:14	59.5	44.5	
14-Nov-16	Fine	09:19	51.0	44.5	
14-Nov-16	Fine	09:24	53.0	48.5	
14-Nov-16	Fine	09:29	53.5	48.5	
14-Nov-16	Fine	09:34	54.5	47.0	
24-Nov-16	Fine	09:17	59.0	53.0	59
24-Nov-16	Fine	09:22	58.3	53.0	
24-Nov-16	Fine	09:27	58.5	54.5	
24-Nov-16	Fine	09:32	65.0	55.5	
24-Nov-16	Fine	09:37	61.0	53.0	
24-Nov-16	Fine	09:42	63.0	56.0	
30-Nov-16	Fine	09:08	62.0	54.0	59
30-Nov-16	Fine	09:13	63.0	54.5	
30-Nov-16	Fine	09:18	62.5	54.5	
30-Nov-16	Fine	09:23	61.5	53.5	
30-Nov-16	Fine	09:28	61.0	54.5	
30-Nov-16	Fine	09:33	61.5	52.5	

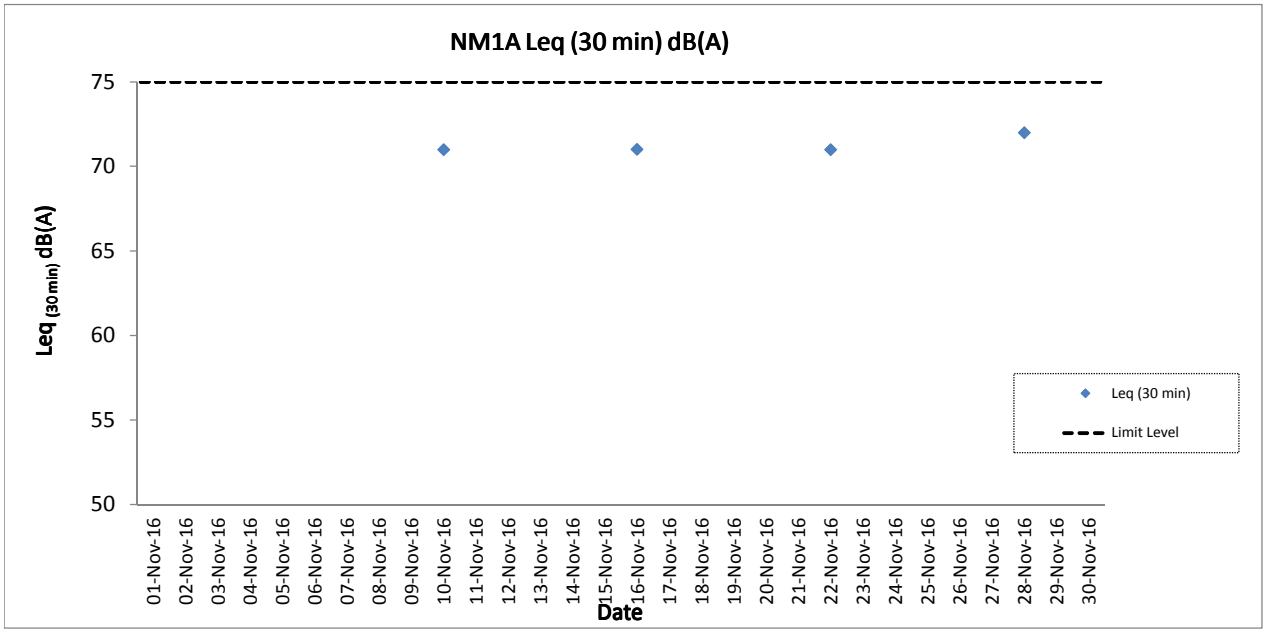
Remarks:
+3dB (A) correction was applied to free-field measurement.

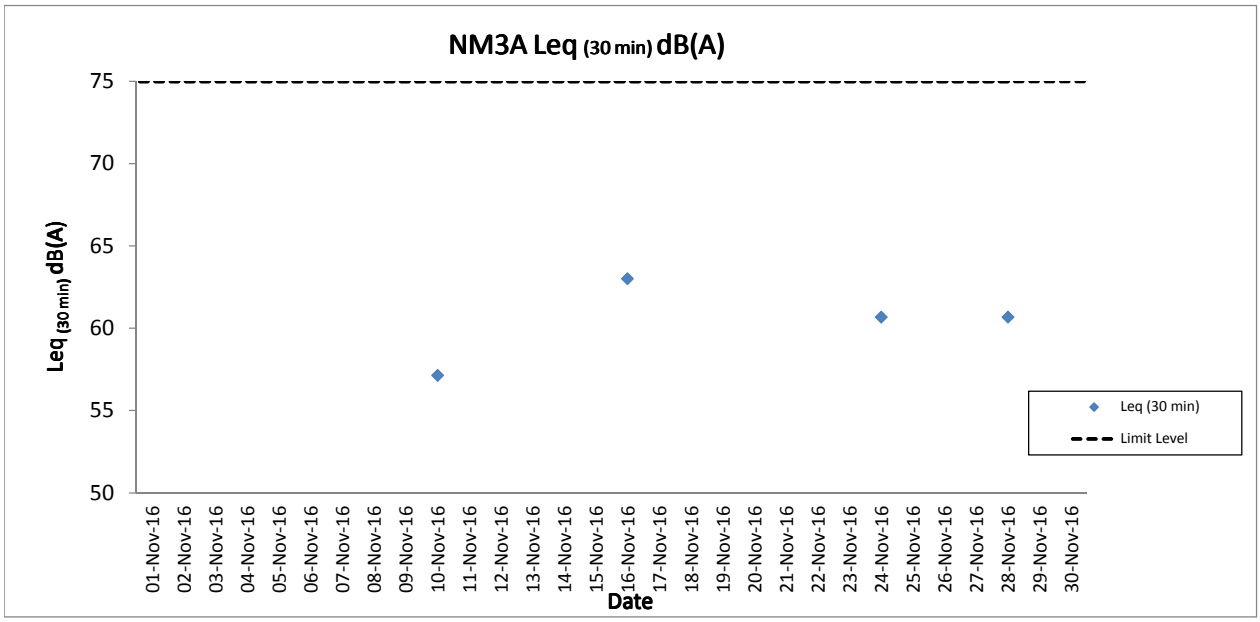
Noise Measurement Results

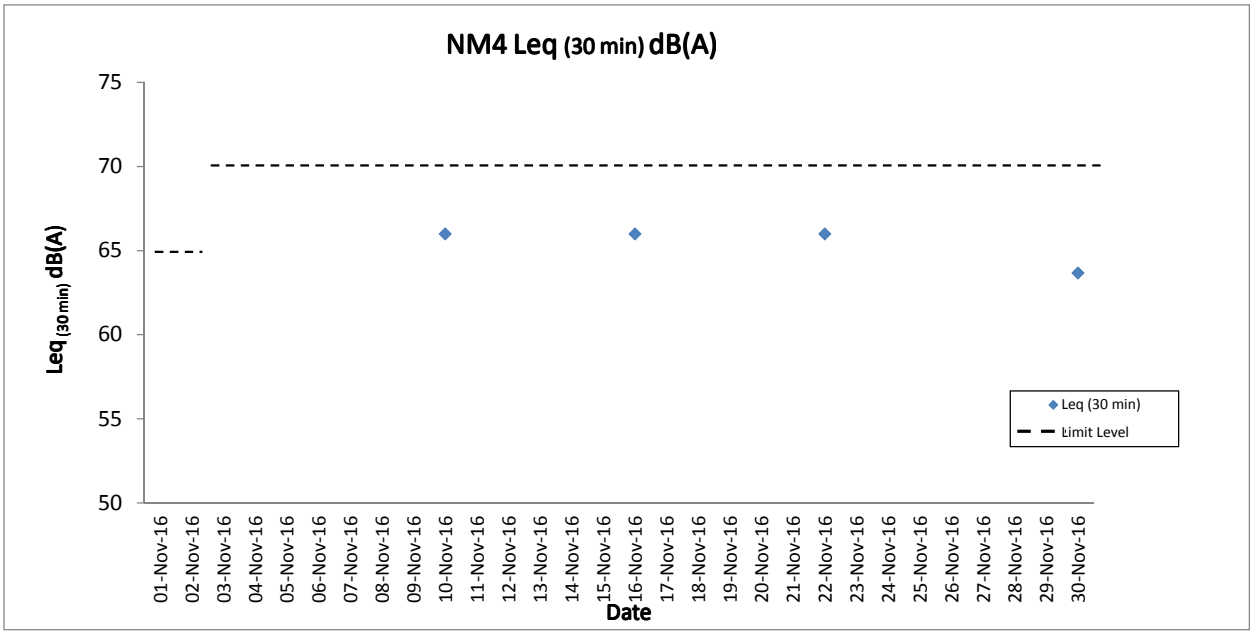
Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
03-Nov-16	Cloudy	09:41	69.0	58.5	70
03-Nov-16	Cloudy	09:46	78.0	57.5	
03-Nov-16	Cloudy	09:51	72.0	56.5	
03-Nov-16	Cloudy	09:56	70.5	55.5	
03-Nov-16	Cloudy	10:01	70.5	55.0	
03-Nov-16	Cloudy	10:06	70.5	55.0	
10-Nov-16	Cloudy	09:39	77.5	60.0	73
10-Nov-16	Cloudy	09:44	76.0	58.0	
10-Nov-16	Cloudy	09:49	74.0	54.5	
10-Nov-16	Cloudy	09:54	70.0	55.5	
10-Nov-16	Cloudy	09:59	73.5	59.0	
10-Nov-16	Cloudy	10:04	74.5	62.0	
15-Nov-16	Sunny	09:44	75.0	61.5	71
15-Nov-16	Sunny	09:49	75.5	60.0	
15-Nov-16	Sunny	09:54	73.5	52.5	
15-Nov-16	Sunny	09:59	64.2	50.5	
15-Nov-16	Sunny	10:04	74.0	51.5	
15-Nov-16	Sunny	10:09	75.0	54.0	
21-Nov-16	Sunny	09:38	69.5	57.0	68
21-Nov-16	Sunny	09:43	72.0	55.5	
21-Nov-16	Sunny	09:48	71.5	52.5	
21-Nov-16	Sunny	09:53	72.0	52.5	
21-Nov-16	Sunny	09:58	65.5	53.0	
21-Nov-16	Sunny	10:03	64.0	53.5	

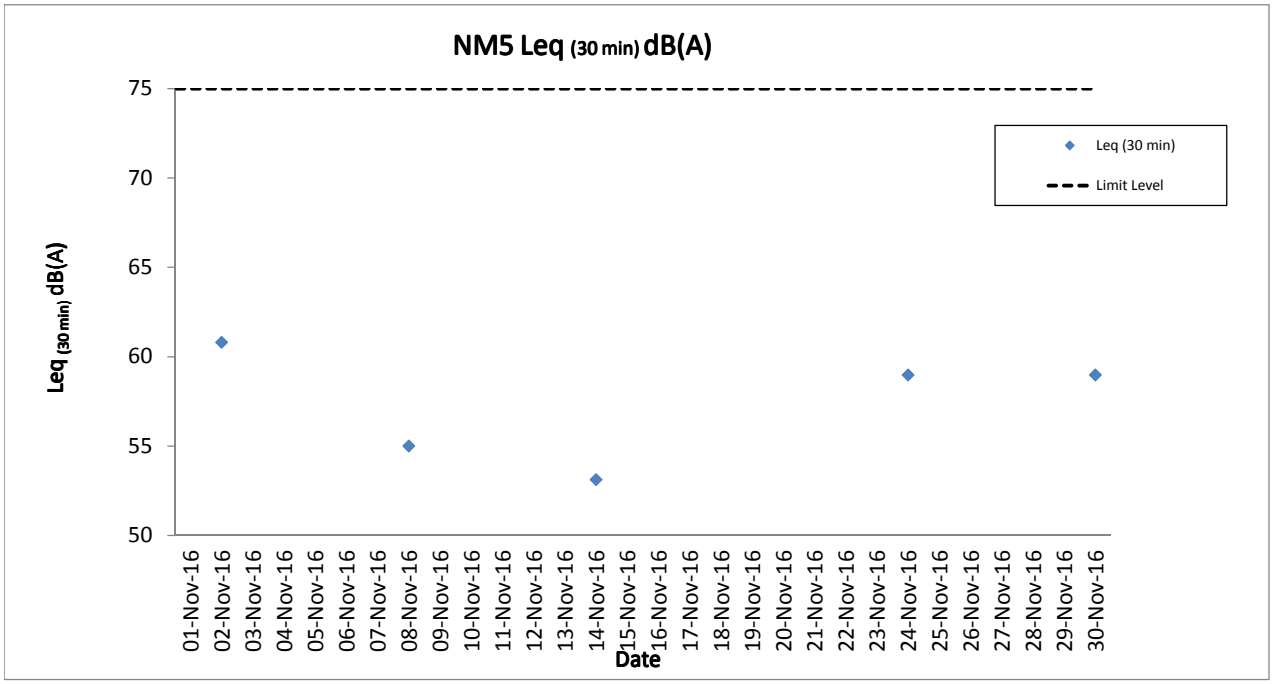
Remarks:
+3dB (A) correction was applied to free-field measurement.







Note: The examination period for NM4 was between 27 October and 2 November 2016.


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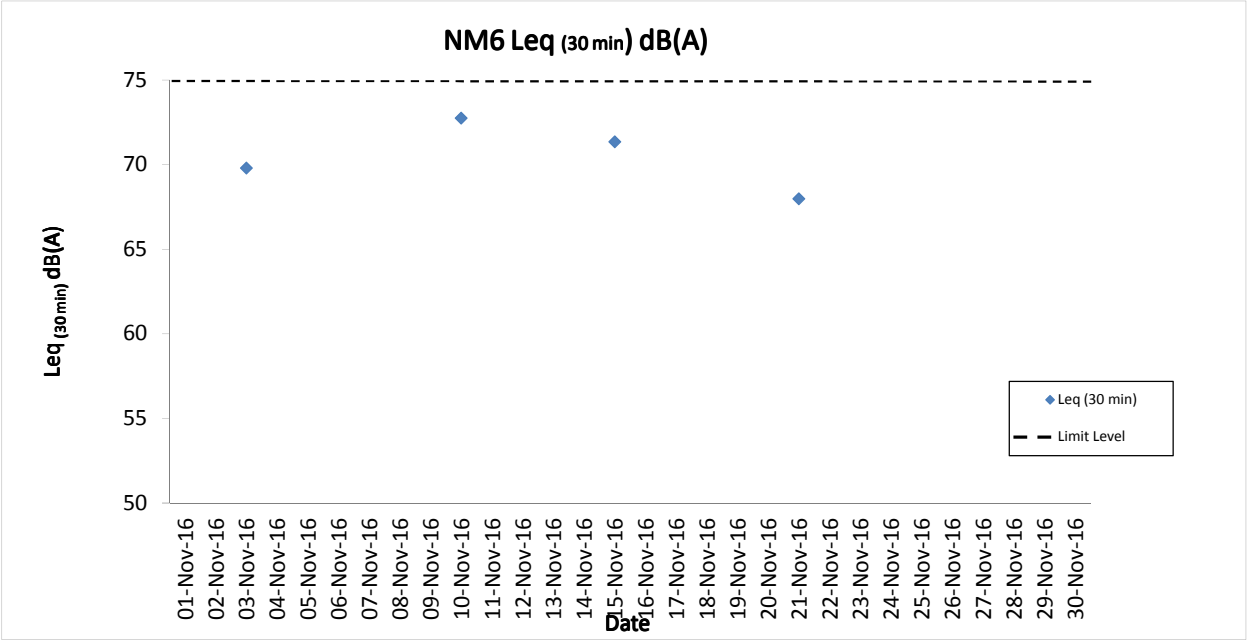
26-Nov-16
27-Nov-16
28-Nov-16
29-Nov-16
30-Nov-16
Date


NM6 Leq (30 min) dB(A)
75
70
65
60
55
50
Leq (30 min) dB(A)
Leq (30 min)
Limit Level
01-Nov-16
02-Nov-16
03-Nov-16
04-Nov-16
05-Nov-16
06-Nov-16
07-Nov-16
08-Nov-16
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22-Nov-16
23-Nov-16
24-Nov-16
25-Nov-16
26-Nov-16
27-Nov-16
28-Nov-16
29-Nov-16
30-Nov-16
Date

Water Quality Monitoring Results

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 01 November 16 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
C1	Fine	Rough	07:28	8.6	Surface	1.0	0.7	104	26.9	26.9	7.9	7.9	29.8	29.8	109.2	109.2	7.4	7.4	10.1	16.9	16	39	83	86	815601	804246	<0.2	<0.2	0.9	0.7
						1.0	0.7	107	26.9		7.9		29.8		109.1		7.4		10.1		15		83				<0.2		0.9	
					Middle	4.3	0.7	112	26.9	26.9	7.9	7.9	29.8	29.8	108.4	108.4	7.3		17.1		36		87				<0.2		0.6	
						4.3	0.7	121	26.9		7.9		29.8		108.4		7.3		17.1		40		86				<0.2		0.6	
					Bottom	7.6	0.9	114	27.0	27.0	7.9	7.9	29.8	29.8	108.0	108.1	7.3	7.3	23.6		64		87				<0.2		0.5	
						7.6	0.9	117	27.0		7.9		29.8		108.1		7.3		23.3		60		88				<0.2		0.5	
C2	Cloudy	Moderate	09:16	12.6	Surface	1.0	0.2	167	24.3	24.3	7.9	7.9	25.6	25.6	95.2	95.2	6.9	6.9	7.5	17.5	14	15	81	88	825663	806926	<0.2	<0.2	2.1	2.1
						1.0	0.3	167	24.3		7.9		25.6		95.2		6.9		7.6		14		83				<0.2		2.2	
					Middle	6.3	0.3	185	24.4	24.4	7.9	7.9	25.8	25.8	94.2	94.2	6.8		15.0		14		90				<0.2		2.0	
						6.3	0.3	186	24.4		7.9		25.8		94.2		6.8		15.1		16		90				<0.2		2.2	
					Bottom	11.6	0.5	168	24.5	24.5	7.8	7.8	26.2	26.2	95.7	95.7	6.9	6.9	29.9		16		92				<0.2		2.1	
						11.6	0.5	176	24.5		7.8		26.2		95.7		6.9		29.9		15		92				<0.2		2.0	
C3	Cloudy	Moderate	06:57	11.4	Surface	1.0	0.4	270	24.6	24.6	7.8	7.8	29.0	29.0	96.0	96.0	6.8	6.8	16.1	16.1	19	21	87	90	822090	817788	<0.2	<0.2	1.1	1.1
						1.0	0.4	296	24.6		7.8		29.0		96.0		6.8		16.0		18		86				<0.2		1.0	
					Middle	5.7	0.5	247	24.7	24.7	7.8	7.8	29.1	29.1	96.0	96.0	6.8		16.5		18		90				<0.2		1.0	
						5.7	0.5	267	24.7		7.8		29.1		96.0		6.8		16.5		17		91				<0.2		1.2	
					Bottom	10.4	0.5	258	24.7	24.7	7.8	7.8	29.3	29.3	96.9	96.9	6.8	6.8	15.7		25		92				<0.2		1.1	
						10.4	0.5	269	24.7		7.8		29.3		96.9		6.8		15.7		27		93				<0.2		0.9	
IM1	Fine	Rough	07:56	7.8	Surface	1.0	0.5	101	27.1	27.1	7.9	7.9	28.6	28.6	105.4	105.5	7.1	7.1	10.6	15.4	22	23	82	88	818338	806453	<0.2	<0.2	0.9	1.0
						1.0	0.5	103	27.1		7.9		28.6		105.5		7.1		10.7		23		84				<0.2		1.0	
					Middle	3.9	0.6	93	27.1	27.1	7.8	7.8	28.3	28.3	104.9	104.9	7.1		14.8		22		88				<0.2		0.9	
						3.9	0.6	94	27.1		7.8		28.3		104.9		7.1		15.1		22		89				<0.2		0.9	
					Bottom	6.8	0.6	95	27.1	27.1	7.7	7.7	27.7	27.7	105.4	105.4	7.2	7.2	21.2		24		91				<0.2		1.1	
						6.8	0.7	97	27.1		7.7		27.7		105.4		7.2		19.8		26		91				<0.2		1.0	
IM2	Fine	Rough	08:03	8.2	Surface	1.0	0.9	143	27.0	27.0	7.9	7.9	29.0	29.0	106.9	106.9	7.2	7.2	9.2	9.8	16	19	83	87	818861	806210	<0.2	<0.2	1.0	0.9
						1.0	1.0	151	27.0		7.9		29.0		106.9		7.2		9.3		14		84				<0.2		1.0	
					Middle	4.1	1.3	125	27.0	27.0	7.9	7.9	28.8	28.8	106.8	106.8	7.2		9.4		19		86				<0.2		1.0	
						4.1	1.3	128	27.0		7.9		28.8		106.8		7.2		9.4		20		87				<0.2		0.8	
					Bottom	7.2	1.4	149	27.0	27.0	7.8	7.8	28.5	28.5	106.9	106.9	7.3	7.3	10.7		20		89				<0.2		0.9	
						7.2	1.5	154	27.0		7.8		28.4		106.9		7.3		10.7		23		90				<0.2		0.9	
IM3	Fine	Rough	08:12	8.6	Surface	1.0	0.9	133	27.0	27.1	7.9	7.9	29.1	29.1	105.4	105.4	7.1	7.1	19.2	21.6	28	34	85	87	819407	806018	<0.2	<0.2	0.9	0.8
						1.0	0.9	146	27.1		7.9		29.1		105.4		7.1		18.8		28		85				<0.2		0.9	
					Middle	4.3	0.9	143	27.0	27.1	7.9	7.9	28.9	28.9	105.4	105.4	7.1		22.2		33		86				<0.2		0.8	
						4.3	0.9	156	27.1		7.9		28.9		105.4		7.1		22.2		33		87				<0.2		0.7	
					Bottom	7.6	0.8	146	27.1	27.1	7.8	7.8	28.4	28.4	105.9	105.9	7.2	7.2	23.9		40		89				<0.2		0.8	
						7.6	0.8	157	27.1		7.8		28.3		105.8		7.2		23.1		43		88				<0.2		0.8	
IM4	Fine	Rough	08:22	8.3	Surface	1.0	0.7	88	27.0	27.0	7.9	7.9	29.1	29.1	108.3	108.3	7.3	7.3	7.9	8.0	13	15	85	88	819558	805055	<0.2	<0.2	0.8	0.9
						1.0	0.7	95	27.0		7.9		29.1		108.3		7.3		7.7		13		86				<0.2		0.9	
					Middle	4.2	0.6	91	27.0	27.0	7.9	7.9	28.9	28.9	108.0	108.0	7.3		8.0		14		87				<0.2		1.0	
						4.2	0.7	98	27.0		7.9		28.8		107.9		7.3		7.8		16		88				<0.2		0.9	
					Bottom	7.3	0.8	96	27.0	27.0	7.8	7.8	28.4	28.4	107.7	107.7	7.3	7.3	8.4		15		90				<0.2		0.8	
						7.3	0.8	101	27.0		7.8		28.4		107.7		7.3		8.3		16		90				<0.2		0.8	
IM5	Fine	Rough	08:30	7.5	Surface	1.0	0.5	106	27.0	27.0	7.9	7.9	28.9	28.9	108.3	108.4	7.3	7.3	6.9	15.4	10	15	85	87	820560	804932	<0.2	<0.2	1.1	0.9
						1.0	0.6	109	27.0		7.9		28.9		108.4		7.3		6.9		10		85				<0.2		0.9	
					Middle	3.8	0.7	115	27.0	27.0	7.9	7.9	28.7	28.7	106.4	106.4	7.2		16.6		14		86				<0.2		0.8	
						3.8	0.7	118	27.0		7.9		28.6		106.3		7.2		16.6		12		87				<0.2		0.8	
					Bottom	6.5	0.8	89	27.1	27.1	7.8	7.8	28.4	28.4	106.9	106.9	7.3	7.3	23.1		22		88				<0.2		0.8	
						6.5	0.9	92	27.1		7.8		28.4		106.9		7.3		22.3		24		88				<0.2		0.9	
IM6	Fine	Rough	08:40	7.6	Surface	1.0	1.2	93	26.9	27.0	7.9	7.9	28.5	28.5	105.7	105.7	7.2	7.2	12.9	17.3	17	29	86	90	821076	805824	<0.2	<0.2	1.0	0.9
						1.0	1.2	94	27.0		7.9		28.4		105.7		7.2		12.9		17		86				<0.2		1.0	
					Middle	3.8	1.2	119	27.0	27.0	7.9	7.9	28.4	28.4	105.7	105.7	7.2		15.6		35		90				<0.2		1.0	
						3.8	1.3	125	27.0		7.9		28.4		105.7		7.2		15.7		35		91				<0.2		0.8	
					Bottom	6.6	0.6	81	27.0	27.0	7.8	7.8	28.1	28.1	105.9	105.9	7.2	7.2	23.3		36		92				<0.2		0.9	
						6.6	0.7	81	27.0		7.8		28.1		105.8		7.2		23.4		33		92				<0.2		0.9	
IM7	Fine	Rough	08:49	8.8	Surface	1.0	0.8	118	27.1	27.1	7.8	7.8	28.1	28.1	103.2	103.2	7.0	7.1	12.7	18.0	22	31	84	87	821365	806823	<0.2	<0.2	1.0	1.1
						1.0	0.9	123	27.1		7.8		28.1		103.2		7.0		12.9		20		84				<0.2		1.1	
					Middle	4.4	0.8	120	27.1	27.1	7.8	7.8	28.0	28.0	103.8	103.8	7.1		18.1		23		85				<0.2		1.2	
						4.4	0.9	121	27.1		7.8		28.0		103.8		7.1		18.4		22		87				<0.2		1.2	
					Bottom	7.8	0.8	116	27.2	27.2	7.8	7.8	28.1	28.1	105.0	105.1	7.1	7.1	23.0		49		89				<0.2		0.9	
						7.8	0.9	124	27.1		7.8		28.1		105.2		7.1		22.6		52		90				<0.2		0.9	
IM8	Cloudy	Moderate	08:35	8.3	Surface	1.0	0.5	119	24.3	24.3	7.9	7.9	27.9	27.9	99.6	99.6	7.1	7.1	11.6	14.7	13	18	82	88	821677	807822	<0.2	<0.2	1.1	1.2
						1.0	0.5	127	24.3		7.9		27.9		99.6		7.1		11.8		13		82				<0.2		1.3	
					Middle	4.2	0.5	94	24.3	24.3	7.9	7.9	27.9	27.9	99.2	99.2	7.1		12.7		12		90				<0.2		1.0	
						4.2	0.5	102	24.3		7.9		27.9		99.2		7.1		12.8		13		90				<0.2		1.3	
					Bottom	7.3	0.4	113	24.4	24.4	7.9	7.9	28.0	28.0	98.7	98.8	7.0	7.0	20.6		26		92				<0.2		1.2	
						7.3	0.5	114	24.4		7.9		28.0		98.8		7.0		18.6		28		92				<0.2		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 01 November 16 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	08:19	7.6	Surface	1.0	0.4	132	24.4	24.4	7.9	7.9	27.5	27.5	98.6	98.5	7.0	7.0	5.2	7.8	8	12	83	88	822077	808819	<0.2	<0.2	1.5	1.5
						1.0	0.5	142	24.4		7.9		27.5		98.3		7.0		5.4		8		83				<0.2		1.5	
					Middle	3.8	0.4	134	24.4	24.4	7.9	7.9	27.7	27.7	98.3	98.3	7.0		6.9		15		89				<0.2		1.4	
						3.8	0.4	140	24.4		7.9		27.7		98.3		7.0		7.4		13		90				<0.2		1.5	
					Bottom	6.6	0.4	155	24.4	24.4	7.9	7.9	27.9	27.9	99.7	99.7	7.1	7.1	11.0		14		91				<0.2		1.6	
						6.6	0.4	162	24.4		7.9		27.9		99.7		7.1		10.7		13		92				<0.2		1.5	
IM10	Cloudy	Moderate	08:11	8.8	Surface	1.0	0.4	223	24.4	24.4	7.9	7.9	27.8	27.8	100.7	100.7	7.2	7.2	11.8	14.9	19	23	84	89	822255	809856	<0.2	<0.2	1.2	1.2
						1.0	0.4	232	24.4		7.9		27.8		100.7		7.2		11.7		21		85				<0.2		1.2	
					Middle	4.4	0.3	228	24.4	24.4	7.9	7.9	27.8	27.8	100.3	100.3	7.2		12.9		23		90				<0.2		1.3	
						4.4	0.4	234	24.4		7.9		27.8		100.3		7.2		13.0		25		90				<0.2		1.3	
					Bottom	7.8	0.3	232	24.4	24.4	7.9	7.9	27.8	27.8	100.1	100.2	7.1	7.1	19.9		24		92				<0.2		1.2	
						7.8	0.3	236	24.4		7.9		27.8		100.2		7.1		19.8		24		92				<0.2		1.2	
IM11	Cloudy	Moderate	08:02	8.1	Surface	1.0	0.4	252	24.4	24.4	7.9	7.9	27.9	27.9	100.7	100.8	7.2	7.2	12.5	14.5	27	29	85	89	821515	810533	<0.2	<0.2	1.3	1.3
						1.0	0.4	254	24.4		7.9		27.9		100.8		7.2		12.4		27		85				<0.2		1.4	
					Middle	4.1	0.3	253	24.4	24.4	7.9	7.9	27.9	27.9	100.2	100.2	7.1		14.2		30		89				<0.2		1.2	
						4.1	0.4	265	24.4		7.9		27.9		100.1		7.1		15.0		30		90				<0.2		1.2	
					Bottom	7.1	0.3	258	24.4	24.4	7.9	7.9	28.0	28.0	100.1	100.1	7.1	7.1	16.5		28		92				<0.2		1.1	
						7.1	0.3	261	24.4		7.9		28.0		100.1		7.1		16.3		30		92				<0.2		1.3	
IM12	Cloudy	Moderate	07:50	9.2	Surface	1.0	0.4	244	24.4	24.4	7.9	7.9	28.1	28.1	101.3	101.4	7.2	7.2	11.4	25.2	36	35	86	89	821176	811507	<0.2	<0.2	1.3	1.2
						1.0	0.4	260	24.4		7.9		28.1		101.4		7.2		12.6		33		85				<0.2		1.4	
					Middle	4.6	0.4	252	24.5	24.5	7.9	7.9	27.8	27.8	99.7	99.7	7.1		35.8		35		90				<0.2		1.0	
						4.6	0.4	272	24.5		7.9		27.8		99.7		7.1		35.9		33		90				<0.2		1.2	
					Bottom	8.2	0.4	258	24.5	24.5	7.8	7.8	28.1	28.1	101.8	101.9	7.2	7.2	27.6		35		92				<0.2		1.3	
						8.2	0.4	260	24.5		7.8		28.1		101.9		7.2		27.6		36		92				<0.2		1.2	
SR2	Cloudy	Moderate	07:20	4.7	Surface	1.0	0.2	221	24.5	24.5	7.8	7.8	27.8	27.8	98.6	98.6	7.0	7.0	19.0	20.0	24	27	86	89	821473	814152	<0.2	<0.2	1.0	1.1
						1.0	0.2	226	24.5		7.8		27.8		98.6		7.0		19.0		24		86				<0.2		1.2	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.2	199	24.5	24.5	7.8	7.8	28.1	28.1	99.8	99.8	7.1	7.1	21.0		28		93				<0.2		1.0	
						3.7	0.2	212	24.5		7.8		28.1		99.8		7.1		21.0		31		92				<0.2		1.1	
SR3	Cloudy	Moderate	08:42	9.1	Surface	1.0	0.4	143	24.3	24.3	7.9	7.9	27.9	27.9	99.9	99.9	7.1	7.1	6.7	15.1	12	14	-	-	822156	807552	-	-	-	-
						1.0	0.4	146	24.3		7.9		27.9		99.9		7.1		6.7		14		-				-		-	
					Middle	4.6	0.4	146	24.3	24.3	7.9	7.9	28.0	28.0	99.6	99.6	7.1		9.5		14		-				-		-	
						4.6	0.4	156	24.3		7.9		28.0		99.6		7.1		9.5		14		-				-		-	
					Bottom	8.1	0.4	140	24.4	24.4	7.9	7.9	28.5	28.5	100.7	100.8	7.2	7.2	29.3		15		-				-		-	
						8.1	0.4	147	24.4		7.9		28.5		100.8		7.2		29.0		13		-				-		-	
SR4A	Fine	Calm	07:05	9.1	Surface	1.0	0.3	146	27.0	27.0	7.8	7.8	27.4	27.4	100.6	100.6	6.9	6.9	12.7	13.8	17	22	-	-	817175	807810	-	-	-	-
						1.0	0.3	150	27.0		7.8		27.3		100.6		6.9		12.5		15		-				-		-	
					Middle	4.6	0.3	132	27.0	27.0	7.8	7.8	27.3	27.3	101.1	101.1	6.9		13.9		18		-				-		-	
						4.6	0.4	133	27.0		7.8		27.3		101.1		6.9		14.0		21		-				-		-	
					Bottom	8.1	0.3	124	26.9	26.9	7.6	7.6	27.0	27.0	102.0	102.0	7.0	7.0	14.9		29		-				-		-	
						8.1	0.3	126	26.9		7.6		26.9		102.0		7.0		14.8		31		-				-		-	
SR5A	Fine	Calm	06:48	3.8	Surface	1.0	0.2	236	27.1	27.1	7.6	7.6	26.4	26.4	98.3	98.4	6.8	6.8	10.5	10.9	21	23	-	-	816582	810693	-	-	-	-
						1.0	0.2	244	27.1		7.6		26.4		98.4		6.8		10.6		19		-				-		-	
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.1	246	27.1	27.1	7.5	7.5	25.7	25.7	100.8	100.9	6.9	6.9	11.2		24		-				-		-	
						2.8	0.2	257	27.1		7.5		25.7		100.9		6.9		11.3		26		-				-		-	
SR6	Fine	Calm	06:26	4.4	Surface	1.0	0.1	222	27.1	27.1	7.7	7.7	27.5	27.5	97.2	97.2	6.6	6.6	8.4	9.1	13	21	-	-	817903	814662	-	-	-	-
						1.0	0.1	229	27.1		7.7		27.5		97.2		6.6		8.5		13		-				-		-	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.1	214	27.1	27.1	7.7	7.7	27.4	27.4	99.3	100.1	6.8	6.9	9.6		27		-				-		-	
						3.4	0.1	222	27.0		7.6		27.3		100.8		6.9		9.7		29		-				-		-	
SR7	Cloudy	Moderate	06:27	15.7	Surface	1.0	0.3	149	24.5	24.5	7.8	7.8	29.8	29.8	96.5	96.5	6.8	6.8	6.3	8.5	12	15	-	-	823637	823743	-	-	-	-
						1.0	0.3	162	24.5		7.8		29.8		96.5		6.8		6.4		13		-				-		-	
					Middle	7.9	0.2	126	24.6	24.6	7.8	7.8	30.1	30.1	95.7	95.7	6.7		9.2		15		-				-		-	
						7.9	0.2	133	24.6		7.8		30.1		95.7		6.7		9.3		17		-				-		-	
					Bottom	14.7	0.3	95	24.6	24.6	7.8	7.8	30.1	30.1	95.9	96.0	6.7	6.7	9.9		16		-				-		-	
						14.7	0.3	99	24.6		7.8		30.1		96.0		6.7		9.9		18		-				-		-	
SR8	Cloudy	Moderate	07:36	5.2	Surface	1.0	0.3	163	24.5	24.5	7.8	7.8	27.5	27.5	101.0	101.1	7.2	7.2	13.8	16.7	18	21	-	-	820418	811590	-	-	-	-
						1.0	0.3	172	24.5		7.8		27.5		101.1		7.2		13.8		19		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.2	169	24.5	24.5	7.8	7.8	27.8	27.8	101.0	101.0	7.2	7.2	19.7		22		-				-		-	
						4.2	0.2	180	24.5		7.8		27.8		101.0		7.2		19.6		24		-				-		-	

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 01 November 16 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	Fine	Rough	13:22	8.6	Surface	1.0	0.9	168	27.1	27.1	8.0	8.0	30.6	30.6	111.0	111.0	7.4	7.4	7.5	7.8	13	15	82	86	815614	804241	<0.2	<0.2	0.8	0.6
						1.0	1.0	171	27.1		8.0		30.6		111.0		7.4		7.6		14		83				<0.2		0.7	
					Middle	4.3	0.8	160	27.1	27.1	7.9	7.9	30.4	30.4	110.6	110.6	7.4		8.2		14		86				<0.2		0.6	
						4.3	0.8	171	27.1		7.9		30.4		110.6		7.4		8.2		16		87				<0.2		0.5	
					Bottom	7.6	0.9	174	27.0	27.0	7.8	7.8	29.8	29.8	109.7	109.7	7.4		7.7		17		89				<0.2		0.6	
						7.6	0.9	185	27.0		7.8		29.8		109.6		7.4		7.6		16		89				<0.2		0.6	
C2	Cloudy	Moderate	12:11	12.3	Surface	1.0	0.4	212	24.3	24.3	7.8	7.8	25.8	25.8	95.2	95.2	6.9	6.9	8.9	15.8	14	14	81	87	825667	806963	<0.2	<0.2	2.2	2.1
						1.0	0.4	214	24.3		7.8		25.8		95.2		6.9		8.9		14		81				<0.2		2.1	
					Middle	6.2	0.3	192	24.3	24.3	7.8	7.8	25.8	25.8	94.9	94.9	6.9		12.9		15		89				<0.2		2.2	
						6.2	0.3	195	24.3		7.8		25.8		94.9		6.9		13.1		14		90				<0.2		2.0	
					Bottom	11.3	0.3	196	24.4	24.4	7.8	7.8	26.2	26.2	94.8	94.9	6.8	6.8	25.7		14		92				<0.2		2.1	
						11.3	0.3	214	24.4		7.8		26.2		94.9		6.8		25.4		14		91				<0.2		2.0	
C3	Cloudy	Moderate	14:07	12.4	Surface	1.0	0.5	110	24.6	24.6	7.9	7.9	29.2	29.2	99.0	99.0	7.0	7.0	4.4	6.3	8	11	88	91	822111	817807	<0.2	<0.2	1.1	1.0
						1.0	0.5	113	24.6		7.9		29.2		99.0		7.0		4.4		10		88				<0.2		0.9	
					Middle	6.2	0.4	101	24.6	24.6	7.9	7.9	29.3	29.3	99.0	99.1	7.0		5.0		12		91				<0.2		1.0	
						6.2	0.4	104	24.6		7.9		29.3		99.1		7.0		5.0		12		91				<0.2		1.1	
					Bottom	11.4	0.4	93	24.6	24.6	7.9	7.9	29.5	29.5	99.8	99.8	7.0	7.0	9.6		12		93				<0.2		0.9	
						11.4	0.4	93	24.6		7.9		29.5		99.8		7.0		9.6		14		93				<0.2		0.9	
IM1	Fine	Rough	13:00	7.9	Surface	1.0	0.6	200	26.9	26.9	7.9	7.9	28.7	28.7	106.8	106.8	7.3	7.3	9.4	11.7	16	17	83	86	818346	806460	<0.2	<0.2	1.3	1.1
						1.0	0.6	207	26.9		7.9		28.7		106.8		7.3		9.5		17		84				<0.2		1.2	
					Middle	4.0	0.5	183	26.9	26.9	7.9	7.9	28.6	28.6	108.1	108.2	7.3		11.6		18		86				<0.2		1.3	
						4.0	0.6	195	26.9		7.9		28.6		108.2		7.3		11.8		18		87				<0.2		1.2	
					Bottom	6.9	0.7	147	26.9	26.9	7.8	7.8	29.6	29.6	107.9	107.9	7.3	7.3	14.0		17		88				<0.2		0.9	
						6.9	0.7	160	26.9		7.8		29.6		107.9		7.3		13.8		18		89				<0.2		0.9	
IM2	Fine	Rough	12:54	8.7	Surface	1.0	0.6	202	27.0	27.0	7.9	7.9	28.7	28.8	107.5	107.5	7.3	7.3	7.6	8.3	18	18	84	87	818865	806208	<0.2	<0.2	1.2	1.1
						1.0	0.7	221	27.0		7.9		28.8		107.5		7.3		7.7		16		85				<0.2		1.2	
					Middle	4.4	0.6	174	27.0	27.0	7.9	7.9	28.7	28.7	108.1	108.2	7.3		8.6		17		87				<0.2		1.2	
						4.4	0.6	188	27.0		7.9		28.7		108.2		7.3		8.7		17		86				<0.2		1.2	
					Bottom	7.7	0.6	144	26.9	27.0	7.8	7.8	29.6	29.6	108.0	108.0	7.3	7.3	8.7		20		90				<0.2		0.9	
						7.7	0.7	148	27.0		7.8		29.5		107.9		7.3		8.4		18		90				<0.2		0.9	
IM3	Fine	Rough	12:47	9.1	Surface	1.0	0.6	169	26.9	26.9	7.9	7.9	29.0	29.0	109.4	109.5	7.4	7.4	7.3	7.1	12	15	83	87	819413	806027	<0.2	<0.2	1.3	1.0
						1.0	0.6	183	26.9		7.9		29.0		109.5		7.4		7.3		14		84				<0.2		1.2	
					Middle	4.6	0.6	150	27.0	27.0	7.9	7.9	29.4	29.4	109.6	109.6	7.4		7.1		16		86				<0.2		1.0	
						4.6	0.6	162	27.0		7.9		29.4		109.6		7.4		7.2		14		87				<0.2		1.0	
					Bottom	8.1	0.7	141	26.9	26.9	7.9	7.9	29.6	29.6	108.8	108.9	7.3	7.4	6.9		15		90				<0.2		0.7	
						8.1	0.7	150	26.9		7.9		29.5		108.9		7.4		6.9		16		90				<0.2		0.8	
IM4	Fine	Rough	12:38	8.5	Surface	1.0	0.7	162	26.9	26.9	7.9	7.9	29.7	29.7	109.8	109.8	7.4	7.4	8.4	13.9	13	14	85	89	819588	805033	<0.2	<0.2	0.8	0.8
						1.0	0.7	174	26.9		7.9		29.7		109.8		7.4		8.5		11		86				<0.2		0.8	
					Middle	4.3	0.7	153	26.9	26.9	7.9	7.9	29.6	29.6	108.0	108.0	7.3		12.4		12		89				<0.2		0.8	
						4.3	0.7	161	26.9		7.9		29.6		107.9		7.3		12.7		14		90				<0.2		0.9	
					Bottom	7.5	0.6	135	27.0	27.0	7.9	7.9	29.9	29.9	107.8	107.9	7.3	7.3	21.0		16		91				<0.2		0.8	
						7.5	0.6	144	27.0		7.9		29.9		107.9		7.3		20.6		18		92				<0.2		0.9	
IM5	Fine	Rough	12:30	7.3	Surface	1.0	0.5	108	27.0	27.0	7.9	7.9	29.1	29.1	107.9	107.9	7.3	7.3	11.2	14.1	18	19	82	86	820568	804907	<0.2	<0.2	1.0	1.0
						1.0	0.6	112	27.0		7.9		29.1		107.9		7.3		11.2		18		83				<0.2		0.9	
					Middle	3.7	0.5	129	27.0	27.0	7.9	7.9	28.9	28.9	106.8	106.8	7.2		15.2		19		86				<0.2		1.0	
						3.7	0.5	139	27.0		7.9		28.9		106.8		7.2		15.2		18		87				<0.2		1.0	
					Bottom	6.3	0.5	126	27.0	27.0	7.8	7.8	28.4	28.4	107.6	107.6	7.3	7.3	16.0		18		90				<0.2		0.9	
						6.3	0.5	129	27.0		7.8		28.4		107.6		7.3		15.5		20		90				<0.2		0.9	
IM6	Fine	Rough	12:20	7.4	Surface	1.0	0.6	99	26.9	26.9	7.9	7.9	29.0	29.0	109.0	109.0	7.4	7.4	9.0	11.0	14	16	86	90	821048	805825	<0.2	<0.2	0.8	0.8
						1.0	0.6	103	26.9		7.9		29.0		109.0		7.4		9.1		12		87				<0.2		0.8	
					Middle	3.7	0.6	93	27.0	27.0	7.9	7.9	28.8	28.8	108.1	108.2	7.3		12.4		12		90				<0.2		0.9	
						3.7	0.7	102	26.9		7.9		28.8		108.2		7.3		12.7		12		90				<0.2		0.9	
					Bottom	6.4	0.7	94	26.9	27.0	7.8	7.8	28.4	28.4	108.4	108.4	7.4	7.4	11.7		23		92				<0.2		0.8	
						6.4	0.8	97	27.0		7.8		28.3		108.3		7.4		10.8		24		92				<0.2		0.7	
IM7	Fine	Rough	12:11	8.6	Surface	1.0	0.7	130	27.0	27.0	7.9	7.9	28.7	28.7	106.9	106.9	7.3	7.3	12.1	13.7	13	19	83	86	821367	806816	<0.2	<0.2	1.1	1.0
						1.0	0.7	130	27.0		7.8		28.7		106.9		7.3		12.0		14		84				<0.2		0.9	
					Middle	4.3	0.8	89	27.0	27.0	7.8	7.8	28.5	28.5	106.3	106.3	7.2		14.5		15		85				<0.2		1.0	
						4.3	0.8	91	27.0		7.8		28.5		106.3		7.2		14.7		15		86				<0.2		1.0	
					Bottom	7.6	0.6	90	27.0	27.0	7.7	7.7	27.9	27.9	107.2	107.2	7.3	7.3	14.5		28		89				<0.2		1.1	
						7.6	0.7	96	27.0		7.7		27.8		107.2		7.3		14.5		30		89				<0.2		0.9	
IM8	Cloudy	Moderate	12:53	8.6	Surface	1.0	0.4	107	24.3	24.3	7.9	7.9	27.6	27.6	106.6	106.6	7.6	7.7	6.4	12.2	9	12	82	88	821686	807855	<0.2	<0.2	1.4	1.3
						1.0	0.4	117	24.3		7.9		27.6		106.6		7.6		6.6		10		82				<0.2		1.3	
					Middle	4.3	0.4	106	24.2	24.2	8.0	8.0	28.2	28.2	107.5	107.5	7.7		9.3		10		90				<0.2		1.3	
						4.3	0.5	114	24.2		8.0		28.2		107.5		7.7		9.3		12		89				<0.2		1.4	
					Bottom	7.6	0.4	84	24.3	24.3	8.0	8.0	28.6	28.6	107.5	107.5	7.6	7.6	20.8		14		91				<0.2		1.1	
						7.6	0.4	85	24.3		8.0		28.6		107.5		7.6		20.8		16		91				<0.2		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 01 November 16 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
IM9	Cloudy	Moderate	13:01	7.5	Surface	1.0	0.4	158	24.3	24.3	7.9	7.9	27.7	27.7	105.0	105.0	7.5	7.6	7.1	13.7	11	18	83	88	822079	808797	<0.2	<0.2	1.4	1.4
						1.0	0.4	168	24.3		7.9		27.7		105.0		7.5		7.1		12		82				<0.2		1.4	
					Middle	3.8	0.4	93	24.2	24.3	8.0	8.0	28.5	28.5	106.8	106.8	7.6		14.9		14		90				<0.2		1.5	
						3.8	0.4	98	24.3		8.0		28.5		106.8		7.6		15.0		13		90				<0.2		1.4	
					Bottom	6.5	0.4	86	24.2	24.2	8.0	8.0	28.6	28.6	106.9	106.9	7.6	7.6	19.0		30		91				<0.2		1.2	
						6.5	0.4	92	24.2		8.0		28.6		106.9		7.6		19.0		30		91				<0.2		1.2	
IM10	Cloudy	Moderate	13:08	7.6	Surface	1.0	0.4	116	24.4	24.4	7.9	7.9	27.6	27.6	102.6	102.6	7.3	7.3	6.4	7.6	10	14	83	88	822225	809819	<0.2	<0.2	1.6	1.3
						1.0	0.4	120	24.4		7.9		27.6		102.6		7.3		6.5		12		83				<0.2		1.7	
					Middle	3.8	0.4	118	24.4	24.4	7.9	7.9	27.7	27.7	102.4	102.4	7.3		7.3		13		90				<0.2		1.2	
						3.8	0.4	126	24.4		7.9		27.7		102.4		7.3		7.1		14		90				<0.2		1.2	
					Bottom	6.6	0.3	94	24.4	24.4	7.9	7.9	28.0	28.0	103.9	104.0	7.4	7.4	9.2		16		91				<0.2		1.2	
						6.6	0.4	96	24.4		7.9		28.0		104.0		7.4		9.2		17		92				<0.2		1.1	
IM11	Cloudy	Moderate	13:16	7.2	Surface	1.0	0.4	111	24.4	24.4	7.9	7.9	27.9	27.9	101.6	101.6	7.2	7.2	7.9	8.5	14	14	84	89	821508	810552	<0.2	<0.2	1.2	1.5
						1.0	0.4	116	24.4		7.9		27.9		101.5		7.2		7.9		12		84				<0.2		1.4	
					Middle	3.6	0.3	140	24.5	24.5	7.9	7.9	28.0	28.0	101.3	101.3	7.2		8.4		13		91				<0.2		1.2	
						3.6	0.3	147	24.5		7.9		28.0		101.3		7.2		8.4		14		91				<0.2		1.5	
					Bottom	6.2	0.3	151	24.5	24.5	7.9	7.9	28.1	28.1	102.3	102.3	7.3	7.3	9.1		14		92				<0.2		1.8	
						6.2	0.3	154	24.5		7.9		28.1		102.3		7.3		9.1		16		90				<0.2		1.7	
IM12	Cloudy	Moderate	13:23	9.3	Surface	1.0	0.4	126	24.5	24.5	7.9	7.9	27.8	27.8	101.0	101.0	7.2	7.2	6.6	10.4	16	17	84	89	821172	811515	<0.2	<0.2	1.5	1.5
						1.0	0.4	127	24.5		7.9		27.8		101.0		7.2		6.6		15		85				<0.2		1.4	
					Middle	4.7	0.4	123	24.5	24.5	7.9	7.9	27.9	27.9	100.1	100.1	7.1		10.3		17		90				<0.2		1.4	
						4.7	0.4	127	24.5		7.9		27.9		100.1		7.1		10.3		18		91				<0.2		1.5	
					Bottom	8.3	0.4	119	24.5	24.5	7.9	7.9	28.2	28.2	100.7	100.8	7.2	7.2	14.4		19		92				<0.2		1.5	
						8.3	0.4	126	24.5		7.9		28.2		100.8		7.2		14.4		18		92				<0.2		1.4	
SR2	Cloudy	Moderate	13:45	4.9	Surface	1.0	0.3	127	24.4	24.4	7.9	7.9	27.9	27.9	101.1	101.1	7.2	7.2	6.7	16.2	12	20	87	89	821463	814174	<0.2	<0.2	1.2	1.1
						1.0	0.3	135	24.4		7.9		27.9		101.1		7.2		6.8		12		86				<0.2		1.2	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.3	139	24.6	24.6	7.8	7.8	28.8	28.8	96.5	96.5	6.8	6.8	25.7		28		92				<0.2		0.9	
						3.9	0.3	145	24.6		7.8		28.8		96.5		6.8		25.6		26		89				<0.2		0.9	
SR3	Cloudy	Moderate	12:47	9.5	Surface	1.0	0.3	177	24.3	24.3	7.9	7.9	27.5	27.5	106.2	106.2	7.6	7.6	11.1	17.4	16	17	-	-	822157	807555	-	-	-	-
						1.0	0.3	188	24.3		7.9		27.5		106.2		7.6		11.0		16		-				-		-	
					Middle	4.8	0.2	138	24.2	24.3	8.0	8.0	27.8	27.8	106.7	106.7	7.6		10.9		16		-				-		-	
						4.8	0.3	142	24.3		8.0		27.8		106.7		7.6		11.1		17		-				-		-	
					Bottom	8.5	0.3	205	24.3	24.3	8.0	8.0	28.1	28.1	107.1	107.1	7.6	7.6	30.0		18		-				-		-	
						8.5	0.3	206	24.3		8.0		28.1		107.1		7.6		30.1		16		-				-		-	
SR4A	Fine	Calm	13:44	8.4	Surface	1.0	0.3	100	27.0	27.0	7.9	7.9	28.4	28.4	106.2	106.2	7.2	7.2	10.9	11.3	16	17	-	-	817172	807801	-	-	-	-
						1.0	0.4	108	27.0		7.9		28.4		106.2		7.2		10.8		17		-				-		-	
					Middle	4.2	0.3	115	27.0	27.0	7.9	7.9	28.4	28.4	106.2	106.2	7.2		11.8		17		-				-		-	
						4.2	0.4	115	27.0		7.9		28.4		106.2		7.2		11.9		17		-				-		-	
					Bottom	7.4	0.3	117	27.0	27.0	7.8	7.8	28.1	28.1	106.8	106.8	7.3	7.3	11.2		17		-				-		-	
						7.4	0.3	118	27.0		7.8		28.1		106.8		7.3		11.1		18		-				-		-	
SR5A	Fine	Calm	14:00	4.2	Surface	1.0	0.1	308	27.0	27.0	7.8	7.8	26.8	26.8	101.8	101.9	7.0	7.0	7.1	8.2	12	14	-	-	816601	810688	-	-	-	-
						1.0	0.1	338	27.0		7.8		26.8		101.9		7.0		7.2		10		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	295	26.9	26.9	7.5	7.5	26.1	26.1	105.3	105.4	7.3	7.3	9.2		16		-				-		-	
						3.2	0.1	319	26.9		7.5		26.1		105.4		7.3		9.3		16		-				-		-	
SR6	Fine	Calm	14:24	4.5	Surface	1.0	0.2	94	27.1	27.1	7.8	7.8	26.9	26.9	100.9	100.8	6.9	6.9	7.2	8.2	9	12	-	-	817916	814675	-	-	-	-
						1.0	0.2	97	27.1		7.8		26.9		100.7		6.9		7.2		10		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	92	27.1	27.1	7.8	7.8	26.9	26.9	98.1	98.2	6.7	6.7	9.2		13		-				-		-	
						3.5	0.2	100	27.1		7.8		26.9		98.2		6.7		9.2		15		-				-		-	
SR7	Cloudy	Moderate	14:37	20.8	Surface	1.0	0.4	94	24.6	24.6	7.9	7.9	29.5	29.5	96.6	96.6	6.8	6.8	4.4	5.0	9	9	-	-	823646	823737	-	-	-	-
						1.0	0.4	100	24.6		7.9		29.5		96.6		6.8		4.4		9		-				-		-	
					Middle	10.4	0.3	91	24.6	24.6	7.9	7.9	29.5	29.5	96.2	96.2	6.8		5.3		8		-				-		-	
						10.4	0.3	97	24.6		7.9		29.5		96.2		6.8		5.4		9		-				-		-	
					Bottom	19.8	0.3	80	24.6	24.6	7.9	7.9	29.6	29.6	96.0	96.1	6.8	6.8	5.1		9		-				-		-	
						19.8	0.3	87	24.6		7.9		29.6		96.1		6.8		5.1		11		-				-		-	
SR8	Cloudy	Moderate	13:29	5.4	Surface	1.0	0.3	158	24.4	24.4	7.9	7.9	28.0	28.0	102.2	102.2	7.3	7.3	11.0	12.3	19	19	-	-	820399	811579	-	-	-	-
						1.0	0.3	169	24.4		7.9		28.0		102.2		7.3		11.0		20		-				-		-	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.3	138	24.4	24.4	7.8	7.8	28.1	28.1	103.5	103.6	7.4	7.4	13.6		18		-				-		-	
						4.4	0.3	143	24.4		7.8		28.1		103.6		7.4		13.6		18		-				-		-	

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 03 November 16 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
C1	Fine	Rough	08:47	8.8	Surface	1.0	0.9	126	26.0	26.0	7.8	7.8	31.0	31.0	103.9	103.9	7.1	7.1	17.9	22.6	6	14	85	90	815603	804233	<0.2	<0.2	1.3	1.0
						1.0	0.9	131	26.0		7.8		31.0		103.8		7.1		18.6		7		87				<0.2		1.2	
					Middle	4.4	0.9	116	26.0	26.0	7.8	7.8	30.9	30.9	103.5	103.6	7.0		24.5		14		90				<0.2		0.8	
						4.4	1.0	124	26.0		7.8		30.9		103.6		7.1		24.5		13		90				<0.2		0.8	
					Bottom	7.8	1.0	114	26.0	26.0	7.8	7.8	30.8	30.8	103.5	103.5	7.1	7.1	24.9		21		92				<0.2		0.9	
						7.8	1.0	114	26.0		7.8		30.8		103.5		7.1		25.1		22		93				<0.2		0.9	
C2	Cloudy	Moderate	10:17	12.2	Surface	1.0	0.3	199	23.4	23.4	7.9	7.9	28.0	28.0	100.1	100.1	7.3	7.3	5.9	8.7	5	9	83	90	825676	806929	<0.2	<0.2	1.6	1.6
						1.0	0.3	200	23.4		7.9		28.0		100.1		7.3		5.9		7		84				<0.2		1.6	
					Middle	6.1	0.4	212	23.6	23.6	7.9	7.9	28.4	28.5	100.0	100.0	7.2		8.4		9		92				<0.2		1.5	
						6.1	0.4	228	23.6		7.9		28.5		100.0		7.2		8.5		8		92				<0.2		1.6	
					Bottom	11.2	0.4	200	23.7	23.7	7.9	7.9	28.7	28.7	101.8	101.9	7.3	7.3	10.9		12		93				<0.2		1.5	
						11.2	0.4	209	23.7		7.9		28.7		101.9		7.3		12.4		12		93				<0.2		1.5	
C3	Cloudy	Moderate	08:18	12.3	Surface	1.0	0.5	267	23.8	23.8	7.9	7.9	30.6	30.6	97.9	97.9	6.9	6.9	6.4	10.7	8	9	88	92	822102	817784	<0.2	<0.2	1.0	1.0
						1.0	0.6	280	23.8		7.9		30.6		97.8		6.9		6.5		8		89				<0.2		1.0	
					Middle	6.2	0.5	273	24.0	24.0	7.9	7.9	31.0	31.0	97.6	97.6	6.9		12.3		9		94				<0.2		1.0	
						6.2	0.5	291	24.0		7.9		31.0		97.6		6.9		12.3		10		93				<0.2		1.1	
					Bottom	11.3	0.4	276	24.0	24.0	7.9	7.9	31.1	31.1	98.9	99.0	7.0	7.0	13.4		10		95				<0.2		0.9	
						11.3	0.4	297	24.0		7.9		31.1		99.0		7.0		13.3		10		94				<0.2		0.8	
IM1	Fine	Rough	09:09	7.6	Surface	1.0	0.7	144	26.0	26.0	7.7	7.7	29.7	29.7	105.9	105.9	7.3	7.3	7.0	11.8	8	8	88	91	818361	806441	<0.2	<0.2	0.8	1.0
						1.0	0.8	151	26.0		7.7		29.6		105.9		7.3		7.0		7		88				<0.2		1.1	
					Middle	3.8	0.7	130	26.1	26.1	7.7	7.7	29.5	29.5	104.7	104.7	7.2		12.9		7		90				<0.2		1.0	
						3.8	0.7	131	26.1		7.7		29.5		104.7		7.2		13.3		8		91				<0.2		1.0	
					Bottom	6.6	0.7	157	26.1	26.1	7.6	7.6	29.2	29.2	106.6	106.7	7.3	7.3	15.6		8		93				<0.2		1.1	
						6.6	0.8	169	26.1		7.6		29.1		106.7		7.3		15.2		8		93				<0.2		0.9	
IM2	Fine	Rough	09:21	8.6	Surface	1.0	0.7	124	26.1	26.1	7.8	7.8	30.2	30.2	106.7	106.7	7.3	7.3	5.9	7.2	6	7	89	90	818840	806178	<0.2	<0.2	0.9	1.7
						1.0	0.8	128	26.1		7.8		30.2		106.7		7.3		6.1		7		88				<0.2		1.0	
					Middle	4.3	0.8	121	26.1	26.1	7.7	7.7	30.1	30.1	106.0	106.0	7.2		7.3		8		89				<0.2		2.3	
						4.3	0.8	131	26.1		7.7		30.1		105.9		7.2		7.5		7		90				<0.2		2.4	
					Bottom	7.6	0.7	138	26.1	26.1	7.7	7.7	29.8	29.8	107.7	107.8	7.4	7.4	8.3		8		93				<0.2		1.7	
						7.6	0.7	148	26.1		7.6		29.8		107.8		7.4		7.9		8		93				<0.2		1.9	
IM3	Fine	Rough	09:35	9.0	Surface	1.0	0.6	93	26.1	26.1	7.8	7.8	30.3	30.3	108.2	108.2	7.4	7.4	5.4	6.7	7	15	86	88	819398	806035	<0.2	<0.2	1.6	1.5
						1.0	0.7	93	26.1		7.8		30.3		108.2		7.4		5.6		8		87				<0.2		1.7	
					Middle	4.5	0.6	116	26.1	26.1	7.8	7.8	30.2	30.2	107.6	107.6	7.3		7.9		15		88				<0.2		1.3	
						4.5	0.6	123	26.1		7.8		30.2		107.5		7.3		8.1		16		89				<0.2		1.5	
					Bottom	8.0	0.6	122	26.1	26.1	7.7	7.7	30.1	30.1	109.8	109.8	7.5	7.5	6.8		23		89				<0.2		1.3	
						8.0	0.6	127	26.1		7.7		30.1		109.8		7.5		6.3		21		90				<0.2		1.3	
IM4	Fine	Rough	09:52	8.3	Surface	1.0	0.7	127	26.1	26.1	7.8	7.8	29.8	29.8	108.9	108.9	7.5	7.5	3.9	5.2	7	15	87	90	819551	805029	<0.2	<0.2	1.8	1.6
						1.0	0.7	130	26.1		7.8		29.8		108.9		7.5		4.0		8		88				<0.2		1.7	
					Middle	4.2	0.7	121	26.1	26.1	7.7	7.7	29.7	29.7	108.0	108.0	7.4		5.1		18		91				<0.2		1.5	
						4.2	0.7	122	26.0		7.7		29.7		107.9		7.4		5.3		20		90				<0.2		1.3	
					Bottom	7.3	0.7	126	26.0	26.0	7.6	7.6	29.4	29.4	109.5	109.5	7.5	7.5	6.7		18		91				<0.2		1.6	
						7.3	0.7	137	26.0		7.6		29.3		109.5		7.5		5.9		19		92				<0.2		1.4	
IM5	Fine	Rough	09:59	7.1	Surface	1.0	0.7	117	26.1	26.1	7.8	7.8	29.9	29.9	106.7	106.7	7.3	7.3	8.4	16.2	5	8	86	89	820552	804939	<0.2	<0.2	1.1	1.6
						1.0	0.7	128	26.1		7.8		29.9		106.6		7.3		8.6		5		87				<0.2		1.2	
					Middle	3.6	0.7	107	26.1	26.1	7.8	7.8	29.8	29.8	106.0	106.0	7.3		14.3		6		88				<0.2		1.7	
						3.6	0.7	114	26.1		7.8		29.8		106.0		7.3		14.7		6		89				<0.2		1.4	
					Bottom	6.1	0.6	124	26.0	26.0	7.6	7.6	29.7	29.7	107.9	108.0	7.4	7.4	25.8		11		93				<0.2		2.0	
						6.1	0.6	125	26.0		7.6		29.7		108.0		7.4		25.2		13		92				<0.2		2.2	
IM6	Fine	Rough	10:07	7.3	Surface	1.0	0.8	119	26.1	26.1	7.8	7.8	29.8	29.8	105.2	105.2	7.2	7.2	6.5	7.0	6	7	87	91	821056	805815	<0.2	<0.2	1.5	1.5
						1.0	0.8	122	26.1		7.8		29.8		105.1		7.2		6.4		7		88				<0.2		1.6	
					Middle	3.7	0.8	118	26.2	26.2	7.8	7.8	29.6	29.7	105.0	105.0	7.2		6.8		6		91				<0.2		1.3	
						3.7	0.9	121	26.1		7.8		29.7		105.0		7.2		6.8		6		92				<0.2		1.4	
					Bottom	6.3	0.6	119	26.1	26.2	7.7	7.7	29.5	29.5	105.7	105.7	7.3	7.3	7.8		6		94				<0.2		1.6	
						6.3	0.7	119	26.2		7.7		29.4		105.7		7.3		7.7		8		94				<0.2		1.7	
IM7	Fine	Rough	10:15	8.7	Surface	1.0	0.6	88	26.1	26.1	7.8	7.8	29.4	29.4	103.8	103.9	7.1	7.2	10.9	15.0	7	14	86	89	821330	806852	<0.2	<0.2	1.7	1.6
						1.0	0.6	93	26.1		7.8		29.4		103.9		7.1		11.1		6		86				<0.2		1.5	
					Middle	4.4	0.7	96	26.1	26.1	7.7	7.7	29.2	29.2	105.1	105.2	7.2		15.5		15		89				<0.2		1.9	
						4.4	0.7	98	26.1		7.7		29.2		105.2		7.2		15.7		16		90				<0.2		1.6	
					Bottom	7.7	0.6	94	26.1	26.1	7.6	7.6	28.8	28.8	108.2	108.3	7.5	7.5	18.5		21		92				<0.2		1.4	
						7.7	0.6	97	26.1		7.5		28.8		108.3		7.5		18.2		19		92				<0.2		1.6	
IM8	Cloudy	Moderate	09:37	8.3	Surface	1.0	0.3	186	23.6	23.6	7.9	7.9	29.4	29.4	101.7	101.7	7.3	7.3	5.6	8.9	4	5	84	90	821684	807818	<0.2	<0.2	1.9	1.8
						1.0	0.4	186	23.6		7.9		29.4		101.7		7.3		5.7		5		83				<0.2		2.0	
					Middle	4.2	0.4	112	23.5	23.5	7.9	7.9	29.6	29.6	101.8	101.8	7.3		7.5		5		92				<0.2		1.8	
						4.2	0.4	118	23.5		7.9		29.6		101.8		7.3		7.5		3		91				<0.2		2.0	
					Bottom	7.3	0.4	111	23.3	23.3	7.9	7.9	30.1	30.1	102.5	102.5	7.4	7.4	13.4		8		93				<0.2		1.7	
						7.3	0.5	113	23.3		7.9		30.1		102.5		7.4		13.6		7		94				<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 03 November 16 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	09:28	7.8	Surface	1.0	0.4	222	23.4	23.4	8.0	8.0	30.0	30.0	104.1	104.2	7.5	7.5	8.8	11.2	9	9	85	90	822099	808828	<0.2	<0.2	1.9	1.9
						1.0	0.4	230	23.4		8.0		30.0		104.2		7.5		8.9		8		84				<0.2		2.0	
					Middle	3.9	0.4	234	23.4	23.4	8.0	8.0	30.0	30.0	103.8	103.9	7.5		10.7		8		92				<0.2		1.9	
						3.9	0.4	237	23.4		8.0		30.0		103.9		7.5		10.7		9		92				<0.2		1.8	
					Bottom	6.8	0.3	221	23.4	23.4	7.9	7.9	30.0	30.0	105.4	105.4	7.6	7.6	14.6		10		93				<0.2		1.8	
						6.8	0.3	234	23.4		7.9		30.0		105.4		7.6		13.2		8		92				<0.2		1.9	
IM10	Cloudy	Moderate	09:19	8.2	Surface	1.0	0.5	280	23.5	23.5	7.9	7.9	30.1	30.1	102.1	102.1	7.3	7.3	7.6	16.2	9	12	85	90	822223	809839	<0.2	<0.2	2.1	1.7
						1.0	0.5	303	23.5		7.9		30.1		102.1		7.3		7.7		10		85				<0.2		2.0	
					Middle	4.1	0.4	286	23.4	23.4	7.9	7.9	30.1	30.1	101.6	101.7	7.3		12.9		13		92				<0.2		1.7	
						4.1	0.4	305	23.4		7.9		30.1		101.7		7.3		13.1		14		91				<0.2		1.4	
					Bottom	7.2	0.3	257	23.5	23.5	7.9	7.9	30.2	30.2	102.9	102.9	7.4	7.4	27.8		13		93				<0.2		1.5	
						7.2	0.3	267	23.5		7.9		30.2		102.9		7.4		27.8		13		93				<0.2		1.6	
IM11	Cloudy	Moderate	09:11	8.3	Surface	1.0	0.5	256	23.4	23.4	7.9	7.9	30.1	30.1	101.6	101.6	7.3	7.3	7.7	10.1	9	10	86	91	821518	810562	<0.2	<0.2	1.8	1.8
						1.0	0.5	261	23.4		7.9		30.1		101.6		7.3		7.8		9		85				<0.2		1.7	
					Middle	4.2	0.5	274	23.4	23.4	7.9	7.9	30.1	30.1	101.3	101.3	7.3		8.9		10		92				<0.2		1.7	
						4.2	0.5	293	23.4		7.9		30.1		101.3		7.3		8.9		9		92				<0.2		1.8	
					Bottom	7.3	0.4	270	23.5	23.5	7.9	7.9	30.3	30.3	102.8	102.8	7.3	7.3	13.9		11		94				<0.2		1.9	
						7.3	0.4	292	23.5		7.9		30.3		102.8		7.3		13.6		12		94				<0.2		2.0	
IM12	Cloudy	Moderate	09:02	8.8	Surface	1.0	0.5	269	23.5	23.5	7.9	7.9	30.0	30.0	99.5	99.5	7.1	7.1	8.6	13.4	12	13	88	91	821146	811515	<0.2	<0.2	1.9	1.9
						1.0	0.5	270	23.5		7.9		30.0		99.5		7.1		8.7		13		87				<0.2		1.8	
					Middle	4.4	0.5	259	23.6	23.6	7.9	7.9	30.2	30.2	99.5	99.5	7.1		11.3		13		92				<0.2		2.0	
						4.4	0.5	280	23.6		7.9		30.2		99.5		7.1		11.3		12		91				<0.2		1.9	
					Bottom	7.8	0.4	257	23.6	23.6	7.9	7.9	30.3	30.4	101.3	101.6	7.2	7.3	19.7		13		94				<0.2		1.8	
						7.8	0.4	278	23.6		7.9		30.4		101.9		7.3		20.6		12		94				<0.2		1.9	
SR2	Cloudy	Moderate	08:40	4.8	Surface	1.0	0.3	194	23.6	23.6	7.9	7.9	30.5	30.5	99.7	99.7	7.1	7.1	9.8	10.5	13	14	88	91	821462	814158	<0.2	<0.2	1.8	1.7
						1.0	0.3	203	23.6		7.9		30.5		99.7		7.1		9.8		13		88				<0.2		1.7	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.3	189	23.6	23.6	7.9	7.9	30.7	30.7	102.0	102.1	7.3	7.3	11.3		15		93				<0.2		1.8	
						3.8	0.3	193	23.6		7.9		30.7		102.1		7.3		11.0		15		93				<0.2		1.6	
SR3	Cloudy	Moderate	09:43	9.3	Surface	1.0	0.4	196	23.6	23.6	7.9	7.9	29.4	29.4	101.0	101.0	7.2	7.3	6.5	15.9	6	6	-	-	822147	807575	-	-	-	-
						1.0	0.4	211	23.6		7.9		29.4		101.0		7.2		6.6		5		-				-		-	
					Middle	4.7	0.4	181	23.6	23.6	7.9	7.9	29.5	29.5	101.1	101.2	7.3		7.7		6		-				-		-	
						4.7	0.4	188	23.6		7.9		29.5		101.2		7.3		7.7		7		-				-		-	
					Bottom	8.3	0.5	165	23.4	23.4	7.9	7.9	30.0	30.0	102.1	102.1	7.3	7.3	33.4		5		-				-		-	
						8.3	0.5	170	23.4		7.9		30.0		102.1		7.3		33.3		7		-				-		-	
SR4A	Fine	Calm	08:24	9.1	Surface	1.0	0.4	183	25.8	25.8	7.8	7.8	29.0	29.1	98.2	98.2	6.8	6.8	9.9	12.0	16	17	-	-	817188	807791	-	-	-	-
						1.0	0.4	183	25.8		7.8		29.1		98.2		6.8		10.0		16		-				-		-	
					Middle	4.6	0.3	169	25.8	25.8	7.8	7.8	29.1	29.1	98.4	98.4	6.8		11.7		15		-				-		-	
						4.6	0.3	179	25.8		7.8		29.1		98.4		6.8		11.8		17		-				-		-	
					Bottom	8.1	0.4	162	25.8	25.8	7.7	7.7	29.3	29.3	99.8	99.9	6.9	6.9	14.4		20		-				-		-	
						8.1	0.4	173	25.8		7.7		29.3		99.9		6.9		14.4		19		-				-		-	
SR5A	Fine	Calm	08:06	4.3	Surface	1.0	0.2	277	25.9	25.9	7.6	7.6	28.1	28.1	99.0	99.1	6.9	6.9	7.7	7.9	11	16	-	-	816604	810685	-	-	-	-
						1.0	0.2	286	25.9		7.6		28.1		99.1		6.9		7.8		12		-				-		-	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.2	279	25.9	25.9	7.4	7.4	27.8	27.8	102.3	102.4	7.1	7.1	8.0		19		-				-		-	
						3.3	0.2	283	25.9		7.4		27.8		102.5		7.1		8.1		20		-				-		-	
SR6	Fine	Calm	07:43	4.5	Surface	1.0	0.2	226	25.8	25.8	7.6	7.6	27.4	27.4	99.2	99.2	6.9	6.9	12.2		25		-				-		-	
						1.0	0.2	234	25.8		7.5		27.4		99.2		6.9		12.0		26		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	223	25.8	25.8	7.5	7.4	26.9	26.7	101.7	103.0	7.1	7.2	12.4		26		-				-		-	
						3.5	0.2	232	25.8		7.3		26.4		104.3		7.3		12.1		28		-				-		-	
SR7	Cloudy	Moderate	07:50	18.1	Surface	1.0	0.3	79	24.0	24.0	7.9	7.9	30.8	30.8	97.4	97.5	6.9	6.9	6.2	7.0	6	7	-	-	823652	823722	-	-	-	-
						1.0	0.3	79	24.0		7.9		30.8		97.5		6.9		6.3		6		-				-		-	
					Middle	9.1	0.3	102	24.0	24.0	7.9	7.9	30.9	30.9	96.9	96.9	6.8		7.4		6		-				-		-	
						9.1	0.3	102	24.0		7.9		30.9		96.9		6.8		7.5		8		-				-		-	
					Bottom	17.1	1.1	271	24.0	24.0	7.9	7.9	31.0	31.0	96.7	96.7	6.8	6.8	7.3		9		-				-		-	
						17.1	1.1	297	24.0		7.9		31.0		96.7		6.8		7.3		8		-				-		-	
SR8	Cloudy	Moderate	08:56	4.2	Surface	1.0	0.3	171	23.4	23.4	7.9	7.9	30.3	30.3	101.2	101.2	7.2	7.2	12.1	15.5	9	11	-	-	820404	811575	-	-	-	-
						1.0	0.3	179	23.4		7.9		30.3		101.2		7.2		12.1		10		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.4	175	23.5	23.5	7.9	7.9	30.5	30.5	103.2	103.2	7.4	7.4	18.9		12		-				-		-	
						3.2	0.4	180	23.5		7.9		30.5		103.2		7.4		18.9		12		-				-		-	

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 03 November 16 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	Fine	Calm	14:27	8.9	Surface	1.0	0.5	145	26.5	26.5	7.9	7.9	30.9	30.9	105.4	105.4	7.1	7.1	6.8	7.2	9	10	87	90	815623	804234	<0.2	<0.2	0.6	0.6
						1.0	0.5	156	26.5		7.9		30.9		105.4		7.1		6.9		9		88				<0.2		0.6	
					Middle	4.5	0.5	163	26.5	26.5	7.9	7.9	30.7	30.8	105.7	105.8	7.1		7.1		9		89				<0.2		0.7	
						4.5	0.5	171	26.4		7.9		30.8		105.9		7.2		7.2		10		90				<0.2		0.6	
					Bottom	7.9	0.4	187	26.5	26.3	7.8	7.8	30.5	30.6	107.2	107.6	7.3	7.3	7.7		10		92				<0.2		0.5	
						7.9	0.5	203	26.1		7.8		30.7		107.9		7.3		7.7		11		92				<0.2		0.5	
C2	Cloudy	Moderate	13:24	12.3	Surface	1.0	0.3	165	23.6	23.6	7.9	7.9	31.1	31.1	100.4	100.4	7.1	7.1	5.9	8.0	4	5	83	89	825685	806964	<0.2	<0.2	1.8	1.6
						1.0	0.3	167	23.6		7.9		31.1		100.3		7.1		5.9		5		83				<0.2		1.7	
					Middle	6.2	0.2	129	23.6	23.6	7.9	7.9	31.3	31.3	99.8	99.8	7.1		9.1		6		91				<0.2		1.3	
						6.2	0.2	130	23.6		7.9		31.3		99.8		7.1		9.2		5		92				<0.2		1.6	
					Bottom	11.3	0.3	258	23.5	23.5	8.0	8.0	32.4	32.4	99.9	99.9	7.1	7.1	9.1		5		93				<0.2		1.6	
						11.3	0.3	261	23.5		8.0		32.3		99.8		7.1		8.8		7		93				<0.2		1.5	
C3	Cloudy	Moderate	15:11	12.7	Surface	1.0	0.5	94	24.1	24.1	8.0	8.0	31.0	31.0	100.5	100.5	7.1	7.1	4.4	5.5	7	7	89	92	822107	817818	<0.2	<0.2	0.9	0.9
						1.0	0.5	101	24.1		8.0		31.0		100.5		7.1		4.4		8		89				<0.2		0.9	
					Middle	6.4	0.5	96	24.2	24.2	8.0	8.0	31.3	31.3	100.0	100.0	7.0		4.5		8		93				<0.2		0.8	
						6.4	0.5	101	24.2		8.0		31.3		100.0		7.0		4.5		8		93				<0.2		0.7	
					Bottom	11.7	0.4	96	24.1	24.1	7.9	7.9	31.5	31.5	99.8	99.8	7.0	7.0	7.7		6		94				<0.2		0.9	
						11.7	0.4	104	24.1		7.9		31.5		99.8		7.0		7.7		7		95				<0.2		0.9	
IM1	Fine	Calm	14:04	7.9	Surface	1.0	0.3	194	26.3	26.3	7.9	7.9	30.3	30.3	107.5	107.6	7.3	7.3	6.0	6.7	9	9	87	90	818333	806450	<0.2	<0.2	0.9	1.0
						1.0	0.3	195	26.2		7.9		30.3		107.6		7.3		6.1		9		87				<0.2		0.9	
					Middle	4.0	0.3	153	26.3	26.3	7.9	7.9	30.4	30.4	107.2	107.3	7.3		6.9		8		89				<0.2		0.9	
						4.0	0.3	168	26.2		7.9		30.4		107.3		7.3		7.0		9		90				<0.2		0.9	
					Bottom	6.9	0.3	129	26.3	26.2	7.8	7.8	30.4	30.5	108.6	108.9	7.4	7.5	7.0		8		93				<0.2		1.1	
						6.9	0.3	138	26.0		7.8		30.6		109.2		7.5		7.0		9		93				<0.2		1.1	
IM2	Fine	Calm	13:58	9.1	Surface	1.0	0.5	157	26.4	26.2	7.9	7.9	30.9	31.0	107.4	107.7	7.3	7.3	5.8	6.0	8	8	88	91	818868	806209	<0.2	<0.2	0.8	0.6
						1.0	0.5	167	26.0		7.9		31.1		108.0		7.3		5.9		8		88				<0.2		0.7	
					Middle	4.6	0.6	145	26.0	26.2	7.9	7.9	31.0	30.9	107.4	107.2	7.3		6.3		8		90				<0.2		0.6	
						4.6	0.6	157	26.3		7.9		30.8		107.0		7.3		6.2		8		91				<0.2		0.5	
					Bottom	8.1	0.5	126	26.0	26.2	7.8	7.8	31.0	30.9	109.0	108.8	7.4	7.4	5.9		9		93				<0.2		0.6	
						8.1	0.6	129	26.4		7.8		30.7		108.5		7.4		5.8		8		93				<0.2		0.6	
IM3	Fine	Calm	13:51	8.9	Surface	1.0	0.6	136	26.2	26.3	7.9	7.9	30.9	30.9	106.7	106.7	7.2	7.2	8.3	9.5	10	12	86	89	819412	806023	<0.2	<0.2	0.7	0.7
						1.0	0.6	138	26.3		7.9		30.9		106.6		7.2		8.2		11		87				<0.2		0.7	
					Middle	4.5	0.5	153	26.3	26.3	7.9	7.9	30.8	30.8	106.6	106.6	7.2		9.6		11		87				<0.2		0.6	
						4.5	0.6	156	26.2		7.9		30.8		106.6		7.2		9.7		11		87				<0.2		0.6	
					Bottom	7.9	0.5	159	26.2	26.2	7.8	7.8	30.7	30.7	107.6	107.6	7.3	7.3	10.6		14		92				<0.2		0.6	
						7.9	0.6	167	26.2		7.8		30.7		107.6		7.3		10.6		15		93				<0.2		0.7	
IM4	Fine	Calm	13:44	8.4	Surface	1.0	0.6	174	26.5	26.5	7.9	7.9	30.8	30.8	106.9	106.9	7.2	7.2	7.8	10.5	8	10	84	88	819588	805042	<0.2	<0.2	0.6	0.7
						1.0	0.6	180	26.5		7.9		30.8		106.9		7.2		7.9		7		85				<0.2		0.7	
					Middle	4.2	0.5	165	26.1	26.3	7.9	7.9	31.0	30.9	107.0	106.7	7.3		11.5		9		89				<0.2		0.8	
						4.2	0.6	174	26.4		7.9		30.8		106.4		7.2		11.6		10		88				<0.2		0.8	
					Bottom	7.4	0.5	179	26.4	26.3	7.8	7.8	30.6	30.7	108.4	108.6	7.3	7.4	12.1		11		90				<0.2		0.6	
						7.4	0.6	187	26.2		7.8		30.7		108.7		7.4		11.8		13		91				<0.2		0.7	
IM5	Fine	Calm	13:36	7.5	Surface	1.0	0.5	153	26.4	26.4	7.9	7.9	30.9	30.9	107.8	107.8	7.3	7.3	6.4	11.9	9	13	89	90	820550	804934	<0.2	<0.2	0.8	0.8
						1.0	0.5	161	26.4		7.9		30.9		107.8		7.3		6.5		10		88				<0.2		0.8	
					Middle	3.8	0.6	138	26.4	26.4	7.9	7.9	30.9	30.9	106.6	106.6	7.2		11.9		10		89				<0.2		0.7	
						3.8	0.6	140	26.4		7.9		30.9		106.6		7.2		12.2		12		90				<0.2		0.7	
					Bottom	6.5	0.5	154	26.2	26.3	7.8	7.8	30.9	30.9	108.5	108.5	7.4	7.4	17.3		16		93				<0.2		1.0	
						6.5	0.5	161	26.3		7.8		30.8		108.4		7.3		17.3		18		93				<0.2		0.8	
IM6	Fine	Calm	13:27	7.2	Surface	1.0	0.5	116	26.4	26.4	7.9	7.9	30.1	30.1	107.9	108.0	7.3	7.3	6.1	11.3	10	14	86	90	821071	805831	<0.2	<0.2	0.9	1.0
						1.0	0.6	118	26.3		7.8		30.1		108.1		7.4		6.3		10		87				<0.2		0.9	
					Middle	3.6	0.4	138	26.0	26.2	7.8	7.8	30.3	30.2	106.7	106.4	7.3		13.0		14		91				<0.2		1.0	
						3.6	0.5	140	26.4		7.8		30.0		106.1		7.2		13.2		14		91				<0.2		0.9	
					Bottom	6.2	0.4	122	26.4	26.3	7.7	7.7	29.9	30.0	108.3	108.5	7.4	7.4	14.8		17		92				<0.2		1.1	
						6.2	0.4	126	26.2		7.7		30.0		108.7		7.4		14.6		18		92				<0.2		1.0	
IM7	Fine	Calm	13:18	8.6	Surface	1.0	0.5	106	26.2	26.2	7.8	7.8	30.2	30.2	103.7	103.7	7.1	7.1	12.7	12.5	8	10	87	91	821350	806830	<0.2	<0.2	1.0	1.0
						1.0	0.6	107	26.2		7.8		30.2		103.7		7.1		12.9		8		87				<0.2		1.1	
					Middle	4.3	0.5	103	26.2	26.2	7.8	7.8	30.1	30.1	104.2	104.2	7.1		15.4		11		91				<0.2		1.0	
						4.3	0.5	113	26.2		7.8		30.1		104.2		7.1		14.9		9		92				<0.2		1.0	
					Bottom	7.6	0.5	110	26.2	26.2	7.6	7.6	30.0	30.0	107.3	107.4	7.3	7.3	9.7		13		93				<0.2		1.0	
						7.6	0.5	119	26.2		7.6		30.0		107.5		7.3		9.6		13		93				<0.2		1.0	
IM8	Cloudy	Moderate	14:00	8.4	Surface	1.0	0.5	109	23.4	23.4	8.0	8.0	31.3	31.3	109.2	109.2	7.8	7.8	5.9	6.3	9	9	83	90	821698	807822	<0.2	<0.2	0.9	1.0
						1.0	0.5	111	23.4		8.0		31.3		109.2		7.8		5.9		9		84				<0.2		0.9	
					Middle	4.2	0.4	92	23.4	23.4	8.0	8.0	31.7	31.7	109.8	109.8	7.8		6.2		8		92				<0.2		0.9	
						4.2	0.4	97	23.4		8.0		31.7		109.8		7.8		6.3		9		92				<0.2		1.0	
					Bottom	7.4	0.4	81	23.4	23.4	8.0	8.0	32.0	32.0	109.8	109.8	7.8	7.8	6.8		8		93				<0.2		1.1	
						7.4	0.4	85	23.4		8.0		32.0		109.8		7.8		6.8		8		93				<0.2		1.1	

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 03 November 16 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	14:07	7.4	Surface	1.0	0.4	99	23.5	23.5	8.0	8.0	30.8	30.8	108.7	108.7	7.7	7.7	3.9	7.6	6	7	84	90	822074	808813	<0.2	<0.2	1.0	1.0
						1.0	0.5	103	23.5		8.0		30.8		108.7		7.7		3.7		7		84				<0.2		0.9	
					Middle	3.7	0.4	98	23.5	23.5	8.0	8.0	31.0	31.0	108.5	108.5	7.7		7.3		6		93				<0.2		1.2	
						3.7	0.4	98	23.5		8.0		31.0		108.5		7.7		7.4		6		92				<0.2		1.0	
					Bottom	6.4	0.4	106	23.4	23.4	8.0	8.0	31.3	31.3	108.9	109.0	7.8	7.8	11.5		7		93				<0.2		1.0	
						6.4	0.4	108	23.4		8.0		31.3		109.0		7.8		11.5		8		94				<0.2		1.1	
IM10	Cloudy	Moderate	14:16	7.8	Surface	1.0	0.4	117	24.0	24.0	8.0	8.0	30.5	30.5	102.5	102.5	7.3	7.3	4.6	5.1	6	7	85	90	822220	809824	<0.2	<0.2	1.1	1.1
						1.0	0.4	125	24.0		8.0		30.5		102.4		7.3		4.7		6		84				<0.2		1.1	
					Middle	3.9	0.4	113	23.7	23.7	8.0	8.0	30.6	30.6	101.1	101.1	7.2		4.6		8		93				<0.2		1.1	
						3.9	0.4	116	23.7		8.0		30.6		101.1		7.2		4.7		7		92				<0.2		1.2	
					Bottom	6.8	0.4	127	23.7	23.7	7.9	7.9	30.7	30.7	100.8	100.8	7.2	7.2	5.9		8		94				<0.2		1.1	
						6.8	0.4	139	23.7		7.9		30.7		100.8		7.2		5.9		9		93				<0.2		1.0	
IM11	Cloudy	Moderate	14:23	8.5	Surface	1.0	0.4	131	24.0	24.0	8.0	8.0	30.4	30.4	102.0	102.1	7.2	7.2	5.0	7.4	8	8	85	91	821500	810537	<0.2	<0.2	1.1	1.3
						1.0	0.4	138	24.0		8.0		30.4		102.1		7.2		5.0		8		86				<0.2		1.3	
					Middle	4.3	0.4	105	23.7	23.7	7.9	7.9	30.5	30.5	101.1	101.1	7.2		7.5		7		93				<0.2		1.3	
						4.3	0.4	107	23.7		7.9		30.5		101.1		7.2		7.5		8		93				<0.2		1.2	
					Bottom	7.5	0.3	117	23.6	23.6	7.9	7.9	30.5	30.5	102.9	103.0	7.3	7.3	9.7		8		94				<0.2		1.4	
						7.5	0.3	126	23.6		7.9		30.5		103.0		7.3		9.7		8		94				<0.2		1.2	
IM12	Cloudy	Moderate	14:30	9.5	Surface	1.0	0.4	94	23.9	23.9	8.0	8.0	30.3	30.3	101.0	101.0	7.2	7.1	5.3	7.6	7	7	86	91	821172	811535	<0.2	<0.2	1.3	1.1
						1.0	0.4	97	23.9		8.0		30.3		101.0		7.2		5.4		5		86				<0.2		1.1	
					Middle	4.8	0.4	109	23.7	23.7	7.9	7.9	30.6	30.6	98.9	98.9	7.0		7.6		8		93				<0.2		1.0	
						4.8	0.4	117	23.7		7.9		30.6		98.9		7.0		7.7		9		93				<0.2		1.1	
					Bottom	8.5	0.3	119	23.8	23.8	7.9	7.9	30.8	30.8	99.4	99.5	7.1	7.1	9.9		8		94				<0.2		1.0	
						8.5	0.3	123	23.8		7.9		30.8		99.5		7.1		9.9		7		94				<0.2		1.1	
SR2	Cloudy	Moderate	14:51	5.3	Surface	1.0	0.4	97	23.9	23.9	7.9	7.9	30.3	30.3	100.9	100.9	7.2	7.2	5.5	6.4	7	9	86	90	821479	814174	<0.2	<0.2	1.1	1.1
						1.0	0.4	105	23.9		7.9		30.3		100.9		7.2		5.4		9		87				<0.2		1.2	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.4	110	23.9	23.9	7.9	7.9	30.6	30.6	102.2	102.3	7.2	7.3	7.3		10		94				<0.2		1.0	
						4.3	0.5	120	23.9		7.9		30.6		102.4		7.3		7.3		8		94				<0.2		1.0	
SR3	Cloudy	Moderate	13:54	9.2	Surface	1.0	0.4	130	23.4	23.4	8.0	8.0	31.4	31.4	106.1	106.1	7.5	7.5	10.4	15.3	11	12	-	-	822148	807586	-	-	-	-
						1.0	0.4	136	23.4		8.0		31.4		106.1		7.5		10.5		11		-				-		-	
					Middle	4.6	0.3	107	23.4	23.4	8.0	8.0	31.6	31.6	105.3	105.3	7.5		14.1		12		-				-		-	
						4.6	0.4	111	23.4		8.0		31.6		105.3		7.5		14.2		13		-				-		-	
					Bottom	8.2	0.4	88	23.3	23.3	8.0	8.0	32.0	32.0	105.5	105.5	7.5	7.5	21.3		12		-				-		-	
						8.2	0.4	94	23.3		8.0		32.0		105.5		7.5		21.2		14		-				-		-	
SR4A	Fine	Calm	14:48	8.3	Surface	1.0	0.4	97	26.1	26.1	7.9	7.9	30.7	30.7	108.3	108.3	7.4	7.4	6.0	6.2	12	14	-	-	817174	807819	-	-	-	-
						1.0	0.4	98	26.1		7.9		30.6		108.3		7.4		5.8		12		-				-		-	
					Middle	4.2	0.4	81	26.1	26.1	7.8	7.8	30.6	30.6	107.7	107.7	7.3		4.2		15		-				-		-	
						4.2	0.4	88	26.1		7.8		30.6		107.6		7.3		4.1		13		-				-		-	
					Bottom	7.3	0.4	92	26.1	26.2	7.8	7.8	30.0	30.0	107.9	107.9	7.4	7.4	8.7		16		-				-		-	
						7.3	0.4	93	26.2		7.8		29.9		107.9		7.4		8.6		18		-				-		-	
SR5A	Fine	Calm	15:05	5.1	Surface	1.0	0.3	173	26.6	26.6	7.7	7.7	28.0	28.0	104.0	104.0	7.1	7.1	5.1	5.4	7	10	-	-	816593	810681	-	-	-	-
						1.0	0.3	180	26.6		7.7		28.0		104.0		7.1		5.1		7		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.3	153	26.1	26.2	7.5	7.5	27.6	27.6	106.4	106.5	7.4	7.4	5.8		13		-				-		-	
						4.1	0.3	161	26.2		7.5		27.6		106.6		7.4		5.7		11		-				-		-	
SR6	Fine	Calm	15:26	4.8	Surface	1.0	0.2	75	26.3	26.3	7.7	7.7	28.6	28.6	101.6	101.6	7.0	7.0	8.0	8.6	10	16	-	-	817894	814647	-	-	-	-
						1.0	0.2	79	26.3		7.7		28.6		101.6		7.0		8.0		9		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.1	84	26.1	26.1	7.5	7.5	28.8	28.8	105.4	105.5	7.3	7.3	9.2		22		-				-		-	
						3.8	0.1	86	26.1		7.5		28.8		105.6		7.3		9.2		21		-				-		-	
SR7	Cloudy	Moderate	15:40	17.6	Surface	1.0	0.4	95	24.0	24.0	7.9	7.9	31.2	31.2	99.9	99.9	7.0	7.0	4.1	4.4	6	8	-	-	823625	823760	-	-	-	-
						1.0	0.4	101	24.0		7.9		31.2		99.9		7.0		4.1		6		-				-		-	
					Middle	8.8	0.3	85	24.0	24.0	7.9	7.9	31.4	31.4	99.6	99.7	7.0		4.6		8		-				-		-	
						8.8	0.3	87	24.0		7.9		31.4		99.7		7.0		4.7		8		-				-		-	
					Bottom	16.6	0.3	97	24.0	24.0	7.9	7.9	31.5	31.5	100.6	100.6	7.1	7.1	4.6		12		-				-		-	
						16.6	0.3	97	24.0		7.9		31.5		100.6		7.1		4.4		10		-				-		-	
SR8	Cloudy	Moderate	14:37	5.4	Surface	1.0	0.3	221	23.7	23.7	8.0	8.0	30.2	30.2	103.7	103.7	7.4	7.4	9.3	10.8	10	14	-	-	820418	811605	-	-	-	-
						1.0	0.3	223	23.6		8.0		30.2		103.7		7.4		9.4		11		-				-		-	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.3	204	23.6	23.6	7.9	7.9	30.2	30.2	106.1	106.2	7.6	7.6	12.2		16		-				-		-	
						4.4	0.3	206	23.6		7.9		30.2		106.2		7.6		12.2		18		-				-		-	

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 05 November 16 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
C1	Fine	Calm	10:25	8.6	Surface	1.0	0.5	85	25.9	25.9	8.0	8.0	30.0	30.0	102.5	102.5	7.0	7.0	6.8	13.7	9	22	84	87	815603	804262	<0.2	<0.2	0.9	0.8
						1.0	0.6	91	25.9		8.0		30.0		102.5		7.0		6.8		10		85				<0.2		0.9	
					Middle	4.3	0.4	87	25.8	25.8	8.0	8.0	30.3	30.3	101.7	101.7	7.0		13.5		20		86				<0.2		0.8	
						4.3	0.5	94	25.8		8.0		30.3		101.7		7.0		13.8		20		87				<0.2		0.8	
					Bottom	7.6	0.4	99	25.7	25.8	8.0	8.0	30.7	30.7	102.6	102.6	7.0		20.6		36		90				<0.2		0.8	
						7.6	0.4	106	25.8		8.0		30.7		102.6		7.0		20.4		38		91				<0.2		0.8	
C2	Fine	Moderate	11:49	12.3	Surface	1.0	0.5	276	23.4	23.4	7.9	7.9	27.9	27.9	98.5	98.5	7.2	7.1	5.9	10.2	6	8	83	89	825683	806943	<0.2	<0.2	2.3	2.0
						1.0	0.5	296	23.4		7.9		27.9		98.5		7.2		5.9		4		83				<0.2		2.2	
					Middle	6.2	0.4	276	23.3	23.3	7.9	7.9	29.3	29.3	97.2	97.2	7.0		10.9		7		91				<0.2		2.1	
						6.2	0.5	299	23.3		7.9		29.3		97.2		7.0		11.0		9		91				<0.2		2.1	
					Bottom	11.3	0.4	269	23.4	23.4	7.9	7.9	29.7	29.7	97.6	97.6	7.0	7.0	13.7		9		93				<0.2		1.7	
						11.3	0.4	275	23.4		7.9		29.7		97.6		7.0		13.7		10		93				<0.2		1.8	
C3	Fine	Moderate	09:53	11.6	Surface	1.0	0.3	104	23.6	23.6	7.9	7.9	31.4	31.4	97.8	97.8	6.9	6.9	5.4	10.6	11	11	87	91	822119	817806	<0.2	<0.2	0.9	1.0
						1.0	0.3	114	23.6		7.9		31.4		97.8		6.9		5.4		11		88				<0.2		1.0	
					Middle	5.8	0.2	169	23.6	23.6	7.9	7.9	31.4	31.5	96.5	96.5	6.8		9.8		11		93				<0.2		1.0	
						5.8	0.2	181	23.6		7.9		31.5		96.5		6.8		9.9		13		93				<0.2		1.0	
					Bottom	10.6	0.3	261	23.6	23.6	7.9	7.9	31.5	31.6	96.2	96.2	6.8	6.8	16.6		10		94				<0.2		1.0	
						10.6	0.3	268	23.6		7.9		31.6		96.2		6.8		16.6		11		93				<0.2		1.1	
IM1	Fine	Calm	10:45	7.3	Surface	1.0	0.5	154	26.2	26.2	8.0	8.0	29.4	29.4	102.9	102.9	7.0	7.0	4.3	10.2	6	17	84	88	818351	806451	<0.2	<0.2	1.2	1.1
						1.0	0.5	164	26.2		8.0		29.4		102.9		7.0		4.3		8		84				<0.2		1.2	
					Middle	3.7	0.5	146	26.0	26.0	8.0	8.0	30.4	30.4	101.2	101.2	6.9		11.5		11		87				<0.2		1.0	
						3.7	0.5	150	26.0		8.0		30.4		101.1		6.9		11.8		13		88				<0.2		1.1	
					Bottom	6.3	0.5	180	26.1	26.1	8.0	8.0	30.6	30.6	102.0	102.1	6.9	7.0	14.7		32		91				<0.2		1.0	
						6.3	0.5	189	26.0		8.0		30.6		102.1		7.0		14.6		34		91				<0.2		1.2	
IM2	Fine	Calm	10:52	8.2	Surface	1.0	0.5	70	26.2	26.2	8.0	8.0	29.1	29.1	101.8	101.8	7.0	7.0	5.9	12.4	7	16	84	88	818865	806188	<0.2	<0.2	1.9	1.2
						1.0	0.5	72	26.2		8.0		29.1		101.8		7.0		6.1		5		85				<0.2		1.7	
					Middle	4.1	0.4	128	25.9	25.9	8.0	8.0	30.6	30.6	100.6	100.6	6.9		14.7		13		88				<0.2		1.0	
						4.1	0.5	131	25.9		8.0		30.6		100.6		6.9		14.8		15		89				<0.2		0.9	
					Bottom	7.2	0.4	144	25.9	25.9	8.0	8.0	30.6	30.6	101.7	101.7	6.9	6.9	16.4		27		91				<0.2		0.9	
						7.2	0.4	157	25.9		8.0		30.6		101.7		6.9		16.3		28		91				<0.2		0.9	
IM3	Fine	Calm	10:59	8.5	Surface	1.0	0.5	79	26.2	26.2	8.0	8.0	29.0	29.0	101.2	101.2	6.9	6.9	5.9	9.7	5	13	85	88	819394	806015	<0.2	<0.2	1.4	1.2
						1.0	0.5	80	26.2		8.0		29.0		101.2		6.9		6.1		4		85				<0.2		1.2	
					Middle	4.3	0.4	112	26.0	25.9	8.0	8.0	30.1	30.3	100.4	100.7	6.9		10.3		16		87				<0.2		1.1	
						4.3	0.4	115	25.7		8.0		30.4		100.9		6.9		10.4		14		88				<0.2		1.2	
					Bottom	7.5	0.4	130	26.0	25.9	8.0	8.0	30.1	30.3	101.1	101.4	6.9	7.0	12.7		20		91				<0.2		1.1	
						7.5	0.4	137	25.7		8.0		30.4		101.6		7.0		12.8		19		93				<0.2		1.0	
IM4	Fine	Calm	11:08	7.9	Surface	1.0	0.6	115	26.1	26.1	8.0	8.0	29.3	29.3	102.8	102.8	7.0	7.0	5.5	10.7	8	17	83	87	819577	805041	<0.2	<0.2	1.6	1.3
						1.0	0.6	126	26.1		8.0		29.3		102.7		7.0		5.7		9		84				<0.2		1.5	
					Middle	4.0	0.6	129	25.9	25.9	8.0	8.0	30.2	30.2	101.5	101.6	7.0		11.5		8		87				<0.2		1.3	
						4.0	0.6	131	25.9		8.0		30.2		101.6		7.0		11.7		7		88				<0.2		1.2	
					Bottom	6.9	0.5	120	26.0	25.8	8.0	8.0	30.3	30.4	102.4	102.7	7.0	7.1	15.0		34		91				<0.2		1.1	
						6.9	0.6	128	25.6		8.0		30.5		103.0		7.1		14.7		37		91				<0.2		1.1	
IM5	Fine	Calm	11:16	6.9	Surface	1.0	0.5	117	26.4	26.4	8.0	8.0	28.8	28.8	101.5	101.5	6.9	6.9	7.2	14.4	6	24	84	88	820565	804918	<0.2	<0.2	1.6	1.5
						1.0	0.5	117	26.4		8.0		28.8		101.5		6.9		7.4		8		85				<0.2		1.6	
					Middle	3.5	0.4	121	25.9	25.9	8.0	8.0	29.8	29.8	100.1	100.2	6.9		17.6		22		87				<0.2		1.4	
						3.5	0.5	124	25.9		8.0		29.8		100.2		6.9		17.7		21		88				<0.2		1.4	
					Bottom	5.9	0.4	104	26.0	25.9	8.0	8.0	29.7	29.8	101.7	102.0	7.0	7.0	18.3		42		90				<0.2		1.4	
						5.9	0.4	108	25.7		8.0		29.9		102.2		7.0		17.9		43		91				<0.2		1.4	
IM6	Fine	Calm	11:24	7.0	Surface	1.0	0.4	118	26.3	26.3	8.0	8.0	28.9	28.9	101.4	101.4	7.0	6.9	6.7	12.5	6	14	84	88	821067	805814	<0.2	<0.2	1.7	1.6
						1.0	0.4	118	26.2		8.0		28.9		101.4		7.0		6.9		7		85				<0.2		1.8	
					Middle	3.5	0.4	121	26.1	26.1	8.0	8.0	29.2	29.3	99.6	99.6	6.8		14.2		7		88				<0.2		1.5	
						3.5	0.4	131	26.1		8.0		29.3		99.6		6.8		14.8		9		89				<0.2		1.6	
					Bottom	6.0	0.3	134	26.0	26.0	8.0	8.0	29.7	29.7	100.5	100.6	6.9	6.9	16.3		27		91				<0.2		1.4	
						6.0	0.4	143	26.0		8.0		29.7		100.6		6.9		16.1		28		92				<0.2		1.4	
IM7	Fine	Calm	11:32	8.3	Surface	1.0	0.3	147	26.3	26.3	7.9	7.9	27.5	27.5	101.2	101.2	7.0	7.0	2.8	5.3	4	9	88	91	821364	806847	<0.2	<0.2	1.8	1.7
						1.0	0.4	150	26.3		7.9		27.5		101.2		7.0		2.9		4		87				<0.2		1.6	
					Middle	4.2	0.4	137	26.1	26.1	7.9	7.9	28.6	28.6	100.6	100.6	6.9		4.5		5		93				<0.2		1.8	
						4.2	0.4	143	26.1		7.9		28.5		100.6		6.9		4.5		5		92				<0.2		1.9	
					Bottom	7.3	0.4	120	25.8	25.8	8.0	8.0	30.2	30.2	101.5	101.6	7.0	7.0	8.5		18		93				<0.2		1.5	
						7.3	0.4	130	25.8		8.0		30.1		101.6		7.0		8.4		16		93				<0.2		1.6	
IM8	Fine	Moderate	11:12	8.2	Surface	1.0	0.3	164	23.3	23.3	7.9	7.9	28.1	28.1	101.2	101.2	7.4	7.4	4.0	7.0	7	7	83	89	821677	807821	<0.2	<0.2	1.6	1.3
						1.0	0.3	171	23.3		7.9		28.1		101.2		7.4		4.1		8		84				<0.2		1.5	
					Middle	4.1	0.4	75	23.2	23.2	7.9	7.9	28.7	28.7	100.9	100.9	7.3		5.7		7		91				<0.2		1.1	
						4.1	0.5	82	23.2		7.9		28.7		100.8		7.3		5.7		6		91				<0.2		1.1	
					Bottom	7.2	0.3	126	23.1	23.1	7.9	7.9	30.0	30.0	100.6	100.6	7.3	7.3	11.5		7		93				<0.2		1.3	
						7.2	0.3	132	23.1		7.9		30.0		100.6		7.3		11.2		7		93				<0.2		1.3	

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 05 November 16 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	Fine	Moderate	11:02	7.2	Surface	1.0	0.3	178	23.2	23.2	7.9	7.9	29.6	29.6	100.4	100.4	7.2	7.2	7.2	10.2	8	15	84	90	822088	808821	<0.2	<0.2	1.3	1.2
						1.0	0.4	190	23.2		7.9		29.6		100.4		7.2		7.3		7		84				<0.2		1.4	
					Middle	3.6	0.3	252	23.2	23.2	7.9	7.9	29.8	29.8	100.4	100.4	7.2	7.2	9.1		9		92				<0.2		1.3	
						3.6	0.4	277	23.2		7.9		29.8		100.4		7.2		9.2		11		91				<0.2		1.2	
					Bottom	6.2	0.3	255	23.2	23.2	7.9	7.9	30.1	30.1	100.6	100.7	7.2	7.2	14.4		30		93				<0.2		1.0	
						6.2	0.3	263	23.2		7.9		30.1		100.7		7.2		13.8		26		93				<0.2		1.0	
IM10	Fine	Moderate	10:55	8.2	Surface	1.0	0.4	250	23.5	23.5	8.0	8.0	30.6	30.6	102.7	102.7	7.3	7.3	5.9	8.6	8	9	85	90	822226	809827	<0.2	<0.2	1.2	1.5
						1.0	0.4	269	23.5		8.0		30.6		102.7		7.3		5.9		6		84				<0.2		1.2	
					Middle	4.1	0.4	269	23.2	23.2	8.0	8.0	30.7	30.7	101.7	101.7	7.3	7.3	7.9		9		92				<0.2		1.6	
						4.1	0.4	276	23.2		8.0		30.7		101.7		7.3		8.0		11		91				<0.2		1.6	
					Bottom	7.2	0.3	265	23.2	23.2	8.0	8.0	30.7	30.7	101.4	101.4	7.3	7.3	11.8		9		93				<0.2		1.7	
						7.2	0.4	271	23.2		8.0		30.7		101.4		7.3		11.8		9		93				<0.2		1.8	
IM11	Fine	Moderate	10:46	7.9	Surface	1.0	0.3	252	23.3	23.3	8.0	8.0	30.7	30.7	102.0	102.0	7.3	7.3	8.3	10.6	9	12	86	90	821509	810527	<0.2	<0.2	1.2	1.2
						1.0	0.3	276	23.3		8.0		30.7		102.0		7.3		8.5		8		86				<0.2		1.1	
					Middle	4.0	0.3	254	23.2	23.2	8.0	8.0	30.7	30.7	101.5	101.5	7.3	7.3	9.7		15		92				<0.2		1.5	
						4.0	0.3	261	23.2		8.0		30.7		101.5		7.3		9.8		15		91				<0.2		1.4	
					Bottom	6.9	0.3	265	23.2	23.2	7.9	7.9	30.7	30.7	101.5	101.5	7.3	7.3	14.3		13		93				<0.2		0.9	
						6.9	0.3	266	23.2		7.9		30.7		101.5		7.3		12.7		13		93				<0.2		0.9	
IM12	Fine	Moderate	10:37	8.6	Surface	1.0	0.5	264	23.2	23.2	8.0	8.0	30.8	30.8	101.5	101.5	7.3	7.3	9.8	15.5	12	15	87	91	821181	811508	<0.2	<0.2	1.1	1.1
						1.0	0.5	265	23.2		8.0		30.8		101.5		7.3		9.8		13		86				<0.2		1.0	
					Middle	4.3	0.4	272	23.2	23.2	8.0	8.0	30.8	30.8	100.8	100.8	7.2	7.2	13.3		16		92				<0.2		1.2	
						4.3	0.4	291	23.2		8.0		30.8		100.8		7.2		13.5		17		92				<0.2		1.2	
					Bottom	7.6	0.4	257	23.2	23.2	7.9	7.9	30.8	30.8	100.4	100.4	7.2	7.2	23.3		16		93				<0.2		1.1	
						7.6	0.4	278	23.2		7.9		30.8		100.4		7.2		23.3		16		93				<0.2		1.0	
SR2	Fine	Moderate	10:14	4.6	Surface	1.0	0.3	237	23.3	23.3	7.9	7.9	30.9	30.9	102.2	102.2	7.3	7.3	6.6	6.5	10	10	88	91	821446	814173	<0.2	<0.2	1.5	1.5
						1.0	0.3	245	23.3		7.9		30.9		102.2		7.3		6.7		10		88				<0.2		1.4	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.3	180	23.2	23.2	7.9	7.9	31.1	31.1	102.1	102.1	7.3	7.3	6.2		11		94				<0.2		1.5	
						3.6	0.3	181	23.2		7.9		31.1		102.1		7.3		6.3		10		93				<0.2		1.6	
SR3	Fine	Moderate	11:17	8.7	Surface	1.0	0.3	181	23.4	23.4	7.9	7.9	27.8	27.8	100.7	100.8	7.3	7.3	3.7	9.0	6	7	-	-	822148	807554	-	-	-	-
						1.0	0.3	193	23.4		7.9		27.8		100.8		7.3		3.8		5		-				-		-	
					Middle	4.4	0.3	180	23.2	23.2	7.9	7.9	28.7	28.7	100.3	100.3	7.3	7.3	6.4		7		-				-		-	
						4.4	0.3	195	23.2		7.9		28.7		100.3		7.3		5.7		7		-				-		-	
					Bottom	7.7	0.3	126	23.1	23.1	7.9	7.9	29.7	29.7	99.2	99.2	7.2	7.2	17.3		9		-				-		-	
						7.7	0.4	136	23.1		7.9		29.7		99.2		7.2		17.3		10		-				-		-	
SR4A	Fine	Calm	10:03	7.4	Surface	1.0	0.5	152	25.8	25.8	7.9	7.9	30.4	30.4	99.6	99.6	6.8	6.8	7.9	8.4	12	14	-	-	817201	807807	-	-	-	-
						1.0	0.5	161	25.8		7.9		30.3		99.5		6.8		7.7		11		-				-		-	
					Middle	3.7	0.4	164	25.7	25.7	7.9	7.9	30.4	30.4	99.0	99.1	6.8	6.8	8.4		13		-				-		-	
						3.7	0.4	175	25.7		7.9		30.4		99.1		6.8		8.5		14		-				-		-	
					Bottom	6.4	0.5	156	25.7	25.7	7.9	7.9	30.4	30.4	101.0	101.1	6.9	6.9	9.0		16		-				-		-	
						6.4	0.5	165	25.7		7.9		30.4		101.2		6.9		9.1		15		-				-		-	
SR5A	Fine	Calm	09:45	3.6	Surface	1.0	0.3	243	25.8	25.8	7.9	7.9	29.9	29.9	97.7	97.8	6.7	6.7	12.9	15.7	13	12	-	-	816584	810696	-	-	-	-
						1.0	0.3	257	25.8		7.9		29.9		97.8		6.7		13.0		12		-				-		-	
					Middle	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-	
						1.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.3	237	25.8	25.8	7.9	7.9	29.9	29.9	98.7	98.8	6.8	6.8	17.3		12		-				-		-	
						2.6	0.3	247	25.8		7.9		29.9		98.9		6.8		19.5		11		-				-		-	
SR6	Fine	Calm	09:20	4.2	Surface	1.0	0.1	150	26.0	26.0	7.7	7.7	29.7	29.7	96.3	96.3	6.6	6.6	14.3	14.0	26	<u>26</u>	-	-	817914	814657	-	-	-	-
						1.0	0.1	160	26.0		7.7		29.7		96.3		6.6		14.1		25		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	181	26.0	26.0	7.7	7.7	29.6	29.7	98.6	99.8	6.8	6.9	14.2		26		-				-		-	
						3.2	0.2	182	26.0		7.7		29.7		101.0		6.9		13.4		27		-				-		-	
SR7	Fine	Moderate	09:21	18.5	Surface	1.0	0.2	116	23.6	23.6	7.9	7.9	32.1	32.1	97.3	97.3	6.9	6.9	6.0	7.2	8	10	-	-	823636	823745	-	-	-	-
						1.0	0.2	116	23.6		7.9		32.1		97.3		6.9		6.1		7		-				-		-	
					Middle	9.3	0.2	98	23.6	23.6	7.9	7.9	32.2	32.2	97.1	97.1	6.8	6.9	7.1		9		-				-		-	
						9.3	0.2	103	23.6		7.9		32.2		97.1		6.8		7.2		11		-				-		-	
					Bottom	17.5	0.5	171	23.6	23.6	7.9	7.9	32.2	32.2	97.8	97.9	6.9	6.9	8.4		13		-				-		-	
						17.5	0.6	177	23.6		7.9		32.2		97.9		6.9		8.4		11		-				-		-	
SR8	Fine	Moderate	10:30	5.1	Surface	1.0	0.2	211	23.4	23.4	7.9	7.9	30.3	30.3	100.7	100.7	7.2	7.2	7.2	7.5	10	11	-	-	820411	811602	-	-	-	-
						1.0	0.2	222	23.4		7.9		30.3		100.6		7.2		7.2		9		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.2	220	23.3	23.3	7.9	7.9	30.6	30.6	100.2	100.2	7.2	7.2	7.7		12		-				-		-	
						4.1	0.2	241	23.3		7.9		30.6		100.2		7.2		7.7		14		-				-		-	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 05 November 16 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	Fine	Calm	15:42	8.5	Surface	1.0	0.3	143	26.0	26.1	8.1	8.1	30.7	30.7	104.3	104.2	7.1	7.1	3.5	4.3	2	5	83	87	815616	804239	<0.2	<0.2	1.0	0.7
						1.0	0.3	143	26.1		8.1		30.7		104.1		7.1		3.5		3		84				<0.2		1.1	
					Middle	4.3	0.3	147	26.0	26.0	8.1	8.1	31.1	31.1	103.0	102.9	7.0		4.4		3		86				<0.2		0.5	
						4.3	0.3	157	26.0		8.1		31.1		102.8		7.0		4.3		4		88				<0.2		0.5	
					Bottom	7.5	0.4	169	26.0	26.0	8.0	8.0	31.5	31.5	103.9	103.9	7.1	7.1	5.0		9		90				<0.2		0.7	
						7.5	0.4	177	26.0		8.0		31.5		103.9		7.1		4.9		8		90				<0.2		0.6	
C2	Fine	Moderate	14:41	12.5	Surface	1.0	0.3	87	23.5	23.5	7.9	7.9	27.9	27.9	99.1	99.1	7.2	7.2	6.7	9.8	5	4	82	89	825667	806955	<0.2	<0.2	2.5	2.1
						1.0	0.4	93	23.4		7.9		27.9		99.0		7.2		6.8		3		83				<0.2		2.5	
					Middle	6.3	0.3	99	23.3	23.3	7.9	7.9	28.9	28.9	97.8	97.8	7.1		10.6		3		91				<0.2		1.7	
						6.3	0.3	100	23.3		7.9		28.9		97.8		7.1		10.6		4		91				<0.2		1.8	
					Bottom	11.5	0.3	95	23.4	23.4	7.9	7.9	30.4	30.4	97.7	97.7	7.0	7.0	11.9		4		93				<0.2		2.0	
						11.5	0.3	97	23.4		7.9		30.4		97.6		7.0		11.9		6		92				<0.2		2.0	
C3	Fine	Moderate	16:29	12.7	Surface	1.0	0.2	97	23.9	23.9	8.0	8.0	30.8	30.8	101.6	101.6	7.2	7.1	2.8	3.4	3	4	90	92	822108	817793	<0.2	<0.2	1.0	0.9
						1.0	0.3	98	23.9		8.0		30.8		101.5		7.2		2.8		4		88				<0.2		0.9	
					Middle	6.4	0.2	225	23.8	23.8	8.0	8.0	31.0	31.0	98.5	98.5	7.0		3.3		4		92				<0.2		0.9	
						6.4	0.2	239	23.8		8.0		31.0		98.4		7.0		3.1		3		92				<0.2		0.9	
					Bottom	11.7	0.2	265	23.7	23.7	8.0	8.0	31.3	31.3	98.7	98.7	7.0	7.0	4.4		4		94				<0.2		0.8	
						11.7	0.2	287	23.7		8.0		31.3		98.7		7.0		4.1		3		94				<0.2		0.8	
IM1	Fine	Calm	15:21	7.6	Surface	1.0	0.3	152	26.4	26.4	8.0	8.0	30.2	30.2	105.3	105.3	7.2	7.2	3.4	4.9	6	6	85	88	818334	806444	<0.2	<0.2	1.2	1.0
						1.0	0.3	157	26.3		8.0		30.2		105.3		7.2		3.4		5		86				<0.2		1.1	
					Middle	3.8	0.3	144	26.0	26.0	8.0	8.0	30.4	30.4	103.4	103.4	7.1		5.0		5		87				<0.2		0.9	
						3.8	0.3	148	26.0		8.0		30.4		103.3		7.1		4.9		5		88				<0.2		1.0	
					Bottom	6.6	0.4	138	25.9	25.9	8.0	8.0	30.7	30.7	103.4	103.5	7.1	7.1	6.3		7		90				<0.2		0.9	
						6.6	0.4	148	25.9		8.0		30.7		103.5		7.1		6.2		5		90				<0.2		0.9	
IM2	Fine	Calm	15:16	8.2	Surface	1.0	0.4	125	26.6	26.6	8.0	8.0	29.8	29.8	105.4	105.4	7.2	7.1	2.8	4.6	2	6	85	88	818855	806194	<0.2	<0.2	1.4	1.1
						1.0	0.4	127	26.6		8.0		29.8		105.4		7.2		2.9		4		86				<0.2		1.2	
					Middle	4.1	0.4	132	26.1	26.1	8.0	8.0	30.2	30.3	103.3	103.2	7.0		4.2		3		87				<0.2		1.0	
						4.1	0.4	133	26.1		8.0		30.3		103.1		7.0		4.3		4		88				<0.2		1.1	
					Bottom	7.2	0.3	153	25.9	25.9	8.0	8.0	30.8	30.8	102.8	102.9	7.0	7.0	6.8		13		90				<0.2		1.0	
						7.2	0.3	161	25.9		8.0		30.8		102.9		7.0		6.8		11		90				<0.2		1.0	
IM3	Fine	Calm	15:08	8.7	Surface	1.0	0.5	124	26.2	26.2	8.0	8.0	29.9	29.9	103.5	103.5	7.1	7.1	4.2	6.0	4	6	86	90	819408	806034	<0.2	<0.2	1.1	1.0
						1.0	0.5	129	26.2		8.0		29.9		103.4		7.1		4.2		2		87				<0.2		1.0	
					Middle	4.4	0.5	168	25.8	25.8	8.0	8.0	30.7	30.7	101.7	101.7	7.0		6.3		4		90				<0.2		1.1	
						4.4	0.5	182	25.8		8.0		30.7		101.7		7.0		6.3		5		91				<0.2		0.9	
					Bottom	7.7	0.5	141	25.8	25.8	8.0	8.0	30.8	30.8	102.5	102.6	7.0	7.0	7.3		10		93				<0.2		0.8	
						7.7	0.5	151	25.8		8.0		30.8		102.6		7.0		7.4		10		94				<0.2		0.9	
IM4	Fine	Calm	15:01	8.1	Surface	1.0	0.3	141	26.1	26.2	8.0	8.0	30.3	30.3	104.1	104.1	7.1	7.1	3.7	4.3	4	6	84	87	819576	805025	<0.2	<0.2	1.0	0.9
						1.0	0.3	149	26.2		8.0		30.2		104.1		7.1		3.6		6		85				<0.2		0.9	
					Middle	4.1	0.3	127	25.9	25.9	8.0	8.0	30.6	30.6	102.9	102.9	7.0		4.8		8		87				<0.2		1.0	
						4.1	0.4	135	25.9		8.0		30.6		102.9		7.0		4.9		6		88				<0.2		0.9	
					Bottom	7.1	0.3	122	25.8	25.9	8.0	8.0	30.8	30.8	103.4	103.4	7.1	7.1	4.6		7		89				<0.2		0.8	
						7.1	0.3	129	25.9		8.0		30.7		103.4		7.1		4.4		7		91				<0.2		0.8	
IM5	Fine	Calm	14:54	7.0	Surface	1.0	0.5	171	26.3	26.3	8.0	8.0	29.3	29.3	104.5	104.5	7.1	7.1	3.4	4.8	4	6	85	88	820549	804924	<0.2	<0.2	1.2	1.1
						1.0	0.5	180	26.3		8.0		29.3		104.4		7.1		3.5		3		86				<0.2		1.2	
					Middle	3.5	0.5	171	26.1	26.1	8.0	8.0	30.1	30.2	102.6	102.6	7.0		4.7		5		88				<0.2		1.2	
						3.5	0.5	174	26.1		8.0		30.2		102.6		7.0		4.8		4		88				<0.2		1.0	
					Bottom	6.0	0.4	165	25.9	26.0	8.0	8.0	30.5	30.5	102.5	102.5	7.0	7.0	6.4		8		90				<0.2		0.8	
						6.0	0.4	165	26.0		8.0		30.5		102.4		7.0		6.2		9		90				<0.2		0.9	
IM6	Fine	Calm	14:46	6.9	Surface	1.0	0.3	156	26.3	26.3	8.0	8.0	29.2	29.3	101.4	101.4	6.9	6.9	7.0	10.9	5	13	88	91	821068	805841	<0.2	<0.2	1.3	1.2
						1.0	0.3	157	26.3		8.0		29.3		101.3		6.9		7.2		4		88				<0.2		1.2	
					Middle	3.5	0.3	132	26.1	26.1	8.0	8.0	29.8	29.8	99.9	99.9	6.8		12.7		6		90				<0.2		1.3	
						3.5	0.4	138	26.1		8.0		29.8		99.9		6.8		13.0		5		91				<0.2		1.4	
					Bottom	5.9	0.3	144	26.1	26.1	8.0	8.0	29.8	29.8	100.9	101.1	6.9	6.9	12.8		28		93				<0.2		1.0	
						5.9	0.3	145	26.0		8.0		29.8		101.2		6.9		12.6		31		93				<0.2		0.9	
IM7	Fine	Calm	14:39	8.2	Surface	1.0	0.4	147	26.3	26.3	7.9	7.9	28.4	28.4	100.9	100.9	6.9	6.9	5.5	7.6	3	9	86	88	821353	806821	<0.2	<0.2	0.9	1.0
						1.0	0.4	157	26.2		7.9		28.4		100.8		6.9		5.6		3		86				<0.2		1.0	
					Middle	4.1	0.4	122	26.0	26.0	7.9	7.9	29.6	29.6	99.7	99.7	6.8		8.3		10		87				<0.2		1.0	
						4.1	0.4	130	26.0		7.9		29.6		99.7		6.8		8.5		12		88				<0.2		1.1	
					Bottom	7.2	0.4	145	25.9	25.9	7.9	7.9	30.1	30.1	101.1	101.2	6.9	6.9	8.8		14		91				<0.2		1.0	
						7.2	0.4	149	25.9		7.9		30.1		101.2		6.9		8.8		14		92				<0.2		0.9	
IM8	Fine	Moderate	15:17	8.2	Surface	1.0	0.3	132	23.6	23.6	8.0	8.0	27.8	27.8	104.4	104.4	7.6	7.5	3.6	6.0	3	5	83	89	821685	807826	<0.2	<0.2	1.2	1.2
						1.0	0.3	132	23.6		8.0		27.8		104.4		7.6		3.7		3		83				<0.2		1.1	
					Middle	4.1	0.3	107	23.3	23.3	8.0	8.0	29.2	29.2	102.8	102.8	7.4		5.0		3		91				<0.2		1.4	
						4.1	0.4	114	23.3		8.0		29.2		102.7		7.4		5.1		3		91				<0.2		1.2	
					Bottom	7.2	0.3	141	23.0	23.0	8.0	8.0	30.5	30.5	101.5	101.5	7.3	7.3	9.3		9		93				<0.2		1.1	
						7.2	0.3	143	23.0		8.0		30.5		101.5		7.3		9.3		8		93				<0.2		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 05 November 16 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
IM9	Fine	Moderate	15:25	7.6	Surface	1.0	0.4	100	23.4	23.4	8.0	8.0	28.9	28.9	101.5	101.5	7.3	7.3	6.5	8.8	5	7	83	89	822081	808820	<0.2	<0.2	1.2	1.4
						1.0	0.4	103	23.4		8.0		28.9		101.5		7.3		6.7		6		84				<0.2		1.2	
					Middle	3.8	0.3	142	23.1	23.1	8.0	8.0	29.8	29.8	99.7	99.7	7.2		8.4		8		91				<0.2		1.3	
						3.8	0.3	151	23.1		8.0		29.8		99.7		7.2		8.5		8		91				<0.2		1.4	
					Bottom	6.6	0.3	152	23.1	23.1	8.0	8.0	30.0	30.0	100.0	100.0	7.2	7.2	11.4		8		93				<0.2		1.5	
						6.6	0.3	163	23.1		7.9		30.0		100.0		7.2		11.1		7		93				<0.2		1.5	
IM10	Fine	Moderate	15:32	7.8	Surface	1.0	0.4	83	23.5	23.5	8.0	8.0	28.8	28.8	103.9	103.9	7.5	7.5	4.5	4.6	6	7	84	90	822235	809841	<0.2	<0.2	1.5	1.3
						1.0	0.4	91	23.5		8.0		28.8		103.9		7.5		4.6		8		85				<0.2		1.7	
					Middle	3.9	0.4	107	23.3	23.3	8.0	8.0	29.2	29.2	103.0	103.0	7.4		4.5		7		91				<0.2		1.2	
						3.9	0.4	110	23.3		8.0		29.2		103.0		7.4		4.5		7		91				<0.2		1.2	
					Bottom	6.8	0.3	130	23.4	23.4	8.0	8.0	30.2	30.2	103.7	103.7	7.4	7.4	4.7		6		93				<0.2		1.1	
						6.8	0.4	141	23.4		8.0		30.2		103.7		7.4		4.7		6		93				<0.2		1.2	
IM11	Fine	Moderate	15:40	8.7	Surface	1.0	0.3	113	23.4	23.4	8.0	8.0	29.1	29.1	103.9	103.9	7.5	7.4	3.8	4.9	5	6	85	90	821484	810562	<0.2	<0.2	0.9	1.0
						1.0	0.3	124	23.4		8.0		29.1		103.8		7.5		3.8		6		86				<0.2		0.9	
					Middle	4.4	0.3	173	23.4	23.4	8.0	8.0	30.2	30.2	102.3	102.3	7.3		4.7		7		92				<0.2		1.0	
						4.4	0.3	180	23.4		8.0		30.2		102.3		7.3		4.7		7		91				<0.2		1.1	
					Bottom	7.7	0.2	176	23.2	23.2	8.0	8.0	30.5	30.5	101.0	101.0	7.2	7.2	6.2		7		93				<0.2		1.0	
						7.7	0.3	178	23.2		8.0		30.5		101.0		7.2		6.2		6		93				<0.2		0.9	
IM12	Fine	Moderate	15:47	8.9	Surface	1.0	0.5	101	23.7	23.7	8.0	8.0	28.6	28.6	104.6	104.7	7.5	7.5	3.1	4.1	5	4	87	90	821161	811511	<0.2	<0.2	1.1	1.2
						1.0	0.5	108	23.7		8.0		28.6		104.7		7.5		3.1		3		86				<0.2		1.0	
					Middle	4.5	0.3	132	23.4	23.4	8.0	8.0	30.2	30.2	102.9	102.9	7.4		4.0		4		91				<0.2		1.2	
						4.5	0.4	140	23.4		8.0		30.2		102.9		7.4		4.0		4		92				<0.2		1.2	
					Bottom	7.9	0.3	140	23.3	23.3	7.9	7.9	30.5	30.5	102.5	102.5	7.3	7.3	5.1		6		93				<0.2		1.3	
						7.9	0.3	147	23.3		7.9		30.5		102.5		7.3		5.1		4		93				<0.2		1.3	
SR2	Fine	Moderate	16:08	4.5	Surface	1.0	0.3	62	23.6	23.6	8.0	8.0	30.3	30.3	103.5	103.5	7.4	7.4	4.8	5.4	6	7	88	91	821463	814157	<0.2	<0.2	0.9	0.9
						1.0	0.3	64	23.6		8.0		30.3		103.5		7.4		4.7		6		88				<0.2		0.9	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.3	68	23.3	23.3	7.9	7.9	30.4	30.4	102.9	102.9	7.4	7.4	6.1		7		93				<0.2		0.9	
						3.5	0.3	73	23.3		7.9		30.4		102.9		7.4		6.1		7		93				<0.2		0.9	
SR3	Fine	Moderate	15:11	8.8	Surface	1.0	0.3	132	23.7	23.7	7.9	7.9	27.5	27.6	103.7	103.7	7.5	7.4	3.7	7.0	4	5	-	-	822145	807572	-	-	-	-
						1.0	0.3	140	23.7		7.9		27.6		103.7		7.5		3.8		5		-				-		-	
					Middle	4.4	0.3	90	23.3	23.3	8.0	8.0	29.2	29.2	101.5	101.5	7.3		6.5		3		-				-		-	
						4.4	0.4	97	23.3		8.0		29.2		101.4		7.3		6.7		3		-				-		-	
					Bottom	7.8	0.3	106	23.1	23.1	8.0	8.0	30.4	30.4	100.3	100.4	7.2	7.2	10.5		6		-				-		-	
						7.8	0.3	109	23.1		8.0		30.4		100.5		7.2		10.6		8		-				-		-	
SR4A	Fine	Calm	16:03	9.4	Surface	1.0	0.3	152	26.1	26.2	8.0	8.0	30.4	30.4	105.4	105.4	7.2	7.2	4.7	6.2	5	9	-	-	817169	807805	-	-	-	-
						1.0	0.3	153	26.2		8.0		30.4		105.3		7.2		4.7		6		-				-		-	
					Middle	4.7	0.3	134	25.9	25.9	8.0	8.0	30.6	30.6	103.4	103.5	7.1		6.3		8		-				-		-	
						4.7	0.3	136	25.9		8.0		30.6		103.5		7.1		6.5		7		-				-		-	
					Bottom	8.4	0.3	136	25.9	25.9	8.0	8.0	30.6	30.6	103.4	103.4	7.1	7.1	7.6		12		-				-		-	
						8.4	0.3	147	25.9		8.0		30.6		103.4		7.1		7.6		14		-				-		-	
SR5A	Fine	Calm	16:19	3.7	Surface	1.0	0.2	225	25.9	25.9	8.0	8.0	30.1	30.1	100.8	100.8	6.9	6.9	5.8	6.8	11	11	-	-	816594	810706	-	-	-	-
						1.0	0.2	240	25.9		8.0		30.1		100.8		6.9		5.8		12		-				-		-	
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.1	192	25.8	25.8	8.0	8.0	30.1	30.1	100.7	100.7	6.9	6.9	7.8		11		-				-		-	
						2.7	0.2	209	25.8		8.0		30.1		100.7		6.9		7.8		11		-				-		-	
SR6	Fine	Calm	16:42	4.6	Surface	1.0	0.1	122	26.4	26.4	7.9	7.9	29.9	29.9	98.9	98.9	6.7	6.7	8.0	9.8	9	12	-	-	817892	814643	-	-	-	-
						1.0	0.1	125	26.4		7.9		29.9		98.8		6.7		8.0		10		-				-		-	
					Middle	2.3	-	-	-	-	-		-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	105	26.1	26.1	8.0	8.0	30.0	30.0	101.3	101.4	6.9	6.9	11.5		15		-				-		-	
						3.6	0.1	107	26.1		8.0		30.0		101.5		6.9		11.6		14		-				-		-	
SR7	Fine	Moderate	17:00	18.9	Surface	1.0	0.4	77	23.8	23.8	8.0	8.0	31.3	31.3	97.1	97.1	6.9	6.9	3.8	4.1	6	7	-	-	823633	823760	-	-	-	-
						1.0	0.4	83	23.8		8.0		31.3		97.1		6.9		3.8		7		-				-		-	
					Middle	9.5	0.2	71	23.8	23.8	8.0	8.0	31.3	31.3	96.6	96.6	6.8		4.3		7		-				-		-	
						9.5	0.2	76	23.8		8.0		31.3		96.6		6.8		4.4		6		-				-		-	
					Bottom	17.9	0.2	99	23.8	23.8	8.0	8.0	31.3	31.3	96.6	96.6	6.8	6.8	4.2		6		-				-		-	
						17.9	0.2	101	23.8		8.0		31.3		96.6		6.8		4.2		8		-				-		-	
SR8	Fine	Moderate	15:54	5.1	Surface	1.0	0.1	157	23.5	23.5	8.0	8.0	29.7	29.7	102.9	102.9	7.4	7.4	4.5	4.9	5	7	-	-	820425	811577	-	-	-	-
						1.0	0.1	157	23.4		8.0		29.7		102.8		7.4		4.7		4		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.2	201	23.3	23.3	8.0	8.0	30.3	30.3	102.8	102.8	7.4	7.4	5.2		8		-				-		-	
						4.1	0.2	202	23.3		8.0		30.3		102.8		7.4		5.1		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 08 November 16 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	Fine	Moderate	14:02	8.2	Surface	1.0	0.4	101	26.3	26.3	7.8	7.8	27.3	27.4	100.9	100.9	7.0	6.9	2.5	5.3	3	8	86	88	815639	804238	<0.2	<0.2	1.4	1.1
						1.0	0.4	105	26.3		7.8		27.4		100.9		7.0		2.6		5		87				<0.2		1.3	
					Middle	4.1	0.5	64	26.2	26.2	7.8	7.8	28.6	28.6	99.3	99.3	6.8		5.3		4		88				<0.2		1.0	
						4.1	0.5	65	26.2		7.8		28.6		99.3		6.8		5.2		5		88				<0.2		1.1	
					Bottom	7.2	0.5	61	26.2	26.2	7.7	7.7	29.3	29.3	99.9	99.9	6.8	6.8	8.1		17		90				<0.2		0.9	
						7.2	0.5	61	26.2		7.7		29.2		99.9		6.8		8.2		15		91				<0.2		1.0	
C2	Cloudy	Moderate	15:35	12.3	Surface	1.0	0.4	161	23.7	23.7	7.9	7.9	24.1	24.1	95.9	95.9	7.1	7.0	1.1	3.3	4	4	84	90	825677	806951	<0.2	<0.2	2.4	2.0
						1.0	0.4	165	23.7		7.9		24.1		95.9		7.1		1.1		5		84				<0.2		2.4	
					Middle	6.2	0.4	174	23.6	23.6	7.9	7.9	27.4	27.4	94.1	94.1	6.8		1.5		3		92				<0.2		2.1	
						6.2	0.4	182	23.6		7.9		27.4		94.1		6.8		1.5		4		92				<0.2		2.1	
					Bottom	11.3	0.3	202	23.5	23.5	7.9	7.9	28.6	28.6	93.7	93.8	6.8	6.8	7.0		4		94				<0.2		1.4	
						11.3	0.3	204	23.5		7.9		28.6		93.9		6.8		7.3		4		94				<0.2		1.6	
C3	Cloudy	Moderate	13:34	11.6	Surface	1.0	0.4	282	23.5	23.5	7.9	7.9	29.1	29.1	97.1	97.1	7.0	6.9	2.9	5.6	4	5	89	93	822122	817792	<0.2	<0.2	1.2	1.3
						1.0	0.4	304	23.5		7.9		29.1		97.0		7.0		2.9		4		89				<0.2		1.2	
					Middle	5.8	0.5	262	23.3	23.3	7.8	7.8	29.4	29.4	94.5	94.5	6.8		4.3		5		94				<0.2		1.3	
						5.8	0.5	272	23.3		7.8		29.4		94.4		6.8		4.4		4		94				<0.2		1.1	
					Bottom	10.6	0.4	251	23.4	23.4	7.8	7.8	30.1	30.1	93.5	93.5	6.7	6.7	9.5		6		95				<0.2		1.5	
						10.6	0.4	263	23.4		7.8		30.1		93.5		6.7		9.5		5		95				<0.2		1.4	
IM1	Fine	Rough	12:29	7.0	Surface	1.0	0.7	134	26.3	26.3	7.8	7.8	28.0	28.0	101.3	101.3	7.0	7.0	2.4	3.8	6	7	88	91	818348	806467	<0.2	<0.2	1.0	1.2
						1.0	0.7	140	26.3		7.8		28.0		101.3		7.0		2.4		7		89				<0.2		1.0	
					Middle	3.5	0.7	138	26.3	26.3	7.8	7.8	28.2	28.2	100.6	100.6	6.9		3.0		7		91				<0.2		1.0	
						3.5	0.7	146	26.3		7.8		28.2		100.6		6.9		3.1		7		90				<0.2		1.1	
					Bottom	6.0	0.7	175	26.2	26.2	7.8	7.8	29.6	29.6	100.1	100.2	6.8	6.9	6.0		7		93				<0.2		1.5	
						6.0	0.8	180	26.2		7.8		29.6		100.2		6.9		5.8		7		94				<0.2		1.3	
IM2	Fine	Rough	14:41	8.1	Surface	1.0	0.8	142	26.3	26.3	7.9	7.9	27.9	27.9	99.9	99.9	6.9	6.9	2.4	3.2	4	5	85	88	818835	806204	<0.2	<0.2	1.3	1.7
						1.0	0.9	149	26.2		7.9		27.9		99.9		6.9		2.4		4		85				<0.2		1.5	
					Middle	4.1	0.8	133	26.3	26.3	7.9	7.9	28.0	28.0	99.3	99.3	6.8		2.8		5		87				<0.2		1.5	
						4.1	0.8	144	26.3		7.9		28.0		99.3		6.8		2.9		5		88				<0.2		1.4	
					Bottom	7.1	0.8	154	26.2	26.2	7.9	7.9	29.5	29.5	99.0	99.1	6.8	6.8	4.3		6		91				<0.2		2.2	
						7.1	0.8	159	26.2		7.9		29.5		99.1		6.8		4.3		6		92				<0.2		2.2	
IM3	Fine	Rough	14:53	8.0	Surface	1.0	0.9	178	26.3	26.3	7.8	7.8	27.6	27.6	106.7	106.7	7.4	7.2	4.5	3.0	6	7	85	88	819421	806013	<0.2	<0.2	2.4	2.5
						1.0	0.9	186	26.3		7.8		27.6		106.7		7.4		4.4		7		86				<0.2		2.3	
					Middle	4.0	0.9	163	26.3	26.3	7.8	7.8	27.1	27.1	99.8	99.9	6.9		2.2		7		89				<0.2		2.6	
						4.0	0.9	164	26.3		7.8		27.1		99.9		6.9		2.3		8		89				<0.2		2.5	
					Bottom	7.0	0.9	154	26.3	26.3	7.8	7.8	27.4	27.5	100.0	100.0	6.9	6.9	2.4		6		90				<0.2		2.7	
						7.0	1.0	162	26.3		7.8		27.5		100.0		6.9		2.4		7		91				<0.2		2.7	
IM4	Fine	Rough	15:15	7.9	Surface	1.0	1.0	146	26.1	26.1	7.9	7.9	28.9	28.9	98.0	98.0	6.8	6.7	3.0	4.1	8	9	89	92	819562	805027	<0.2	<0.2	1.4	1.8
						1.0	1.0	148	26.0		7.9		28.9		98.0		6.8		3.0		8		90				<0.2		1.4	
					Middle	4.0	1.2	141	26.1	26.1	7.9	7.9	29.1	29.1	96.1	96.1	6.6		3.4		8		92				<0.2		2.3	
						4.0	1.3	155	26.1		7.9		29.1		96.0		6.6		3.4		7		93				<0.2		2.1	
					Bottom	6.9	0.9	146	26.1	26.1	7.8	7.8	29.7	29.8	96.2	96.3	6.6	6.6	5.8		10		94				<0.2		1.7	
						6.9	1.0	155	26.1		7.8		29.8		96.3		6.6		5.9		10		95				<0.2		1.7	
IM5	Fine	Rough	15:26	6.7	Surface	1.0	1.2	151	26.1	26.1	7.9	7.9	28.9	28.9	96.8	96.8	6.7	6.6	4.0	5.3	9	9	89	92	820554	804925	<0.2	<0.2	1.3	1.2
						1.0	1.3	152	26.1		7.9		28.9		96.7		6.6		3.9		9		89				<0.2		1.2	
					Middle	3.4	1.0	142	26.1	26.1	7.9	7.9	29.0	29.0	94.7	94.7	6.5		4.8		8		92				<0.2		1.6	
						3.4	1.0	153	26.1		7.9		28.9		94.6		6.5		4.7		8		92				<0.2		1.4	
					Bottom	5.7	1.8	166	26.1	26.1	7.9	7.9	29.4	29.4	91.4	91.4	6.3	6.3	7.0		10		94				<0.2		0.9	
						5.7	2.0	173	26.1		7.9		29.4		91.3		6.3		7.1		10		95				<0.2		0.9	
IM6	Fine	Rough	15:41	7.0	Surface	1.0	1.1	134	26.1	26.1	7.9	7.9	28.9	28.9	96.5	96.5	6.6	6.5	5.7	9.7	9	14	87	89	821061	805829	<0.2	<0.2	1.2	1.5
						1.0	1.1	137	26.1		7.9		28.9		96.5		6.6		5.9		9		87				<0.2		1.3	
					Middle	3.5	1.2	142	26.1	26.1	7.9	7.9	29.0	29.0	93.6	93.5	6.4		9.7		11		89				<0.2		1.9	
						3.5	1.3	153	26.1		7.9		29.0		93.4		6.4		10.1		11		89				<0.2		1.8	
					Bottom	6.0	1.4	163	26.1	26.1	7.9	7.9	29.6	29.6	93.3	93.3	6.4	6.4	13.3		20		91				<0.2		1.4	
						6.0	1.4	177	26.1		7.9		29.6		93.3		6.4		13.4		21		91				<0.2		1.5	
IM7	Fine	Rough	15:51	8.2	Surface	1.0	1.0	151	26.1	26.1	7.9	7.9	28.8	28.8	98.8	98.8	6.8	6.8	4.1	6.7	13	16	86	90	821340	806844	<0.2	<0.2	1.9	1.5
						1.0	1.1	162	26.1		7.9		28.8		98.8		6.8		4.2		14		87				<0.2		2.0	
					Middle	4.1	0.7	149	26.1	26.1	7.9	7.9	28.9	28.9	96.9	96.9	6.7		5.4		14		91				<0.2		1.0	
						4.1	0.7	156	26.1		7.9		28.9		96.9		6.7		5.5		14		90				<0.2		1.0	
					Bottom	7.2	0.6	160	26.1	26.1	7.9	7.9	29.7	29.7	95.8	95.9	6.6	6.6	10.6		21		92				<0.2		1.6	
						7.2	0.6	164	26.1		7.9		29.6		95.9		6.6		10.5		21		93				<0.2		1.4	
IM8	Cloudy	Moderate	14:52	8.2	Surface	1.0	0.2	190	23.7	23.7	7.9	7.9	25.7	25.7	98.8	98.9	7.2	7.2	2.4	3.2	4	5	84	91	821696	807846	<0.2	<0.2	2.5	2.4
						1.0	0.3	193	23.7		7.9		25.7		98.9		7.2		2.4		4		85				<0.2		2.4	
					Middle	4.1	0.3	233	23.7	23.7	7.9	7.9	26.8	26.8	99.2	99.2	7.2		2.9		4		93				<0.2		2.3	
						4.1	0.3	240	23.7		7.9		26.8		99.2		7.2		2.9		4		92				<0.2		2.4	
					Bottom	7.2	0.3	218	23.6	23.6	7.9	7.9	27.3	27.3	99.8	99.8	7.2	7.2	4.2		6		95				<0.2		2.4	
						7.2	0.4	236	23.6		7.9		27.3		99.8		7.2		4.2		6		94				<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 08 November 16 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	14:44	7.2	Surface	1.0	0.3	220	23.8	23.8	7.9	7.9	25.5	25.5	101.0	101.0	7.4	7.4	3.0	6.8	5	8	85	91	822107	808813	<0.2	<0.2	1.6	1.9
						1.0	0.3	229	23.8		7.9		25.5		101.0		7.4		3.0		4		85				<0.2		1.7	
					Middle	3.6	0.3	225	23.7	23.7	7.9	7.9	26.8	26.9	100.2	100.2	7.3		5.2		6		93				<0.2		2.0	
						3.6	0.3	240	23.7		7.9		26.9		100.2		7.3		5.9		7		92				<0.2		2.1	
					Bottom	6.2	0.3	222	23.6	23.6	7.9	7.9	27.5	27.5	99.8	99.8	7.2	7.2	11.8		13		94				<0.2		1.9	
						6.2	0.3	238	23.6		7.9		27.5		99.8		7.2		11.8		14		95				<0.2		1.8	
IM10	Cloudy	Moderate	14:36	8.2	Surface	1.0	0.4	274	23.8	23.8	7.9	7.9	27.4	27.4	101.5	101.5	7.3	7.3	3.8	10.2	4	6	87	92	822258	809844	<0.2	<0.2	1.5	1.9
						1.0	0.5	299	23.8		7.9		27.4		101.5		7.3		3.8		6		86				<0.2		1.6	
					Middle	4.1	0.4	268	23.7	23.7	7.9	7.9	27.6	27.6	100.5	100.5	7.3		7.2		6		99				<0.2		2.3	
						4.1	0.4	286	23.7		7.9		27.6		100.5		7.3		7.4		6		93				<0.2		2.3	
					Bottom	7.2	0.4	266	23.3	23.3	7.9	7.9	28.4	28.4	100.4	100.4	7.3	7.3	19.4		8		94				<0.2		1.8	
						7.2	0.4	266	23.3		7.9		28.4		100.4		7.3		19.4		7		94				<0.2		1.8	
IM11	Cloudy	Moderate	14:28	7.9	Surface	1.0	0.4	258	23.9	23.9	7.9	7.9	27.2	27.2	102.8	102.8	7.4	7.4	2.9	12.1	5	6	87	91	821517	810546	<0.2	<0.2	1.8	1.8
						1.0	0.4	278	23.9		7.9		27.2		102.8		7.4		2.9		6		87				<0.2		1.8	
					Middle	4.0	0.5	284	23.6	23.6	7.9	7.9	27.7	27.7	100.8	100.7	7.3		7.8		4		93				<0.2		1.9	
						4.0	0.5	299	23.6		7.9		27.7		100.5		7.3		8.1		6		93				<0.2		1.8	
					Bottom	6.9	0.3	257	23.2	23.2	7.9	7.9	28.9	29.0	100.4	100.5	7.3	7.3	25.4		6		94				<0.2		1.6	
						6.9	0.4	272	23.2		7.9		29.0		100.5		7.3		25.4		6		94				<0.2		1.7	
IM12	Cloudy	Moderate	14:21	8.6	Surface	1.0	0.5	272	23.8	23.8	7.9	7.9	27.6	27.6	101.9	101.9	7.4	7.4	2.8	10.5	4	5	88	92	821166	811512	<0.2	<0.2	2.0	1.6
						1.0	0.5	297	23.8		7.9		27.6		101.9		7.4		2.9		4		87				<0.2		1.9	
					Middle	4.3	0.5	280	23.5	23.5	7.9	7.9	28.2	28.2	100.5	100.5	7.3		4.8		4		93				<0.2		1.0	
						4.3	0.6	285	23.5		7.9		28.2		100.5		7.3		4.9		4		93				<0.2		1.1	
					Bottom	7.6	0.5	278	23.2	23.2	7.9	7.9	29.2	29.2	97.9	97.9	7.1	7.1	23.6		6		94				<0.2		1.8	
						7.6	0.5	294	23.2		7.9		29.2		97.9		7.1		23.8		5		95				<0.2		1.5	
SR2	Cloudy	Moderate	13:57	4.6	Surface	1.0	0.4	113	23.7	23.7	7.8	7.8	28.3	28.3	99.2	99.0	7.1	7.1	4.5	6.3	2	3	89	92	821461	814180	<0.2	<0.2	1.6	1.7
						1.0	0.4	116	23.7		7.8		28.3		98.8		7.1		4.8		3		89				<0.2		1.9	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.3	109	23.3	23.3	7.8	7.8	29.2	29.2	98.5	98.6	7.1	7.1	7.9		3		95				<0.2		1.6	
						3.6	0.4	114	23.3		7.8		29.2		98.6		7.1		8.0		4		94				<0.2		1.6	
SR3	Cloudy	Moderate	14:59	8.7	Surface	1.0	0.3	202	23.9	23.9	7.9	7.9	23.7	23.7	98.6	98.6	7.3	7.2	2.3	3.3	2	4	-	-	822155	807554	-	-	-	-
						1.0	0.3	219	23.9		7.9		23.7		98.5		7.3		2.3		4		-				-		-	
					Middle	4.4	0.3	173	23.6	23.6	7.9	7.9	27.2	27.2	97.5	97.5	7.1		2.7		4		-				-		-	
						4.4	0.3	177	23.6		7.9		27.2		97.5		7.1		2.7		4		-				-		-	
					Bottom	7.7	0.3	137	23.5	23.5	7.9	7.9	27.8	27.8	98.9	99.0	7.2	7.2	4.8		4		-				-		-	
						7.7	0.3	148	23.5		7.9		27.8		99.0		7.2		4.8		3		-				-		-	
SR4A	Fine	Moderate	13:40	8.0	Surface	1.0	0.4	221	26.2	26.2	7.8	7.8	29.3	29.3	97.8	97.8	6.7	6.7	7.5	7.9	10	13	-	-	817179	807814	-	-	-	-
						1.0	0.4	239	26.2		7.8		29.2		97.8		6.7		7.4		8		-				-		-	
					Middle	4.0	0.4	221	26.2	26.2	7.7	7.7	29.0	29.0	97.8	97.8	6.7		7.9		12		-				-		-	
						4.0	0.4	226	26.2		7.7		29.0		97.8		6.7		8.0		13		-				-		-	
					Bottom	7.0	0.3	210	26.2	26.2	7.6	7.6	28.6	28.6	99.0	99.0	6.8	6.8	8.4		18		-				-		-	
						7.0	0.3	222	26.2		7.6		28.6		99.0		6.8		8.4		17		-				-		-	
SR5A	Fine	Moderate	13:24	3.5	Surface	1.0	0.2	280	26.3	26.4	7.7	7.7	28.8	28.8	98.3	98.3	6.7	6.7	4.7	5.0	9	10	-	-	816591	810686	-	-	-	-
						1.0	0.2	296	26.4		7.7		28.7		98.2		6.7		4.6		9		-				-		-	
					Middle	1.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.5	0.2	267	26.3	26.3	7.6	7.6	28.3	28.3	99.1	99.2	6.8	6.8	5.3		10		-				-		-	
						2.5	0.2	285	26.3		7.6		28.3		99.2		6.8		5.4		10		-				-		-	
SR6	Fine	Moderate	12:59	3.6	Surface	1.0	0.1	255	26.2	26.2	7.6	7.6	28.8	28.8	96.9	96.9	6.7	6.7	13.5	16.9	20	31	-	-	817902	814656	-	-	-	-
						1.0	0.2	277	26.2		7.6		28.8		96.9		6.7		13.6		18		-				-		-	
					Middle	1.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.1	243	26.2	26.3	7.5	7.5	28.5	28.4	97.5	98.0	6.7	6.8	20.7		43		-				-		-	
						2.6	0.1	264	26.3		7.4		28.3		98.5		6.8		19.8		42		-				-		-	
SR7	Cloudy	Moderate	12:59	18.5	Surface	1.0	0.2	183	23.7	23.7	7.9	7.9	29.5	29.5	99.8	99.8	7.1	7.0	2.2	2.9	4	4	-	-	823625	823742	-	-	-	-
						1.0	0.2	200	23.7		7.9		29.5		99.8		7.1		2.2		4		-				-		-	
					Middle	9.3	0.2	186	23.3	23.3	7.8	7.8	29.9	29.9	96.1	96.1	6.9		3.1		4		-				-		-	
						9.3	0.2	196	23.3		7.8		29.9		96.1		6.9		3.1		5		-				-		-	
					Bottom	17.5	0.2	185	23.4	23.4	7.8	7.8	30.2	30.2	95.9	95.9	6.9	6.9	3.4		4		-				-		-	
						17.5	0.2	201	23.4		7.8		30.2		95.9		6.9		3.3		5		-				-		-	
SR8	Cloudy	Moderate	14:14	5.1	Surface	1.0	0.1	254	24.5	24.5	7.8	7.8	27.0	27.0	103.0	103.0	7.4	7.4	4.2	9.9	6	6	-	-	820416	811594	-	-	-	-
						1.0	0.2	269	24.5		7.8		27.0		103.0		7.4		4.2		4		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.1	191	23.4	23.4	7.8	7.8	28.3	28.3	99.5	99.5	7.2	7.2	15.5		7		-				-		-	
						4.1	0.1	206	23.4		7.8		28.3		99.5		7.2		15.5		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 08 November 16 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	Fine	Moderate	20:20	8.6	Surface	1.0	0.3	179	26.2	26.2	7.9	7.9	28.8	28.8	96.5	96.5	6.6	6.5	7.9	7.7	4	5	86	89	815634	804259	<0.2	<0.2	1.3	1.3
						1.0	0.3	184	26.1		7.9		28.8		96.5		6.6		7.9		4		86				<0.2		1.3	
					Middle	4.3	0.2	171	26.1	26.1	7.9	7.9	29.0	29.1	92.4	92.4	6.3		6.9		4		88				<0.2		1.1	
						4.3	0.3	186	26.1		7.9		29.1		92.3		6.3		7.0		4		90				<0.2		1.3	
					Bottom	7.6	0.3	200	26.1	26.1	7.9	7.9	29.7	29.7	92.8	92.9	6.4	6.4	8.4		7		92				<0.2		1.4	
						7.6	0.3	217	26.1		7.9		29.7		92.9		6.4		8.3		8		93				<0.2		1.1	
C2	Cloudy	Moderate	19:00	12.5	Surface	1.0	0.4	162	23.6	23.6	7.9	7.9	25.1	25.1	96.1	96.1	7.1	7.1	0.9	4.7	4	4	83	90	825673	806937	<0.2	<0.2	2.2	2.4
						1.0	0.4	171	23.6		7.9		25.1		96.1		7.1		1.0		5		84				<0.2		2.3	
					Middle	6.3	0.4	175	23.5	23.5	7.9	7.9	26.8	26.8	95.9	95.9	7.0		4.9		5		92				<0.2		2.3	
						6.3	0.4	190	23.5		7.9		26.8		95.9		7.0		4.9		3		92				<0.2		2.4	
					Bottom	11.5	0.3	180	23.4	23.4	7.9	7.9	28.7	28.7	95.5	95.5	6.9	6.9	8.3		4		94				<0.2		2.6	
						11.5	0.3	195	23.4		7.9		28.7		95.4		6.9		8.3		5		94				<0.2		2.5	
C3	Cloudy	Moderate	21:11	12.7	Surface	1.0	0.2	213	23.5	23.5	7.9	7.9	30.2	30.2	95.4	95.3	6.8	6.8	1.0	1.6	4	3	91	93	822117	817805	<0.2	<0.2	1.1	1.0
						1.0	0.2	220	23.5		7.9		30.2		95.1		6.8		1.0		3		89				<0.2		1.0	
					Middle	6.4	0.3	239	23.6	23.6	7.9	7.9	30.6	30.6	93.9	93.9	6.7		1.5		3		93				<0.2		0.9	
						6.4	0.3	250	23.6		7.9		30.6		93.9		6.7		1.5		4		93				<0.2		0.9	
					Bottom	11.7	0.2	246	23.6	23.6	7.9	7.9	30.7	30.7	93.7	93.8	6.7	6.7	2.3		3		95				<0.2		0.9	
						11.7	0.2	251	23.6		7.9		30.7		93.8		6.7		2.3		3		95				<0.2		0.9	
IM1	Fine	Moderate	19:57	7.8	Surface	1.0	0.5	167	26.1	26.1	7.9	7.9	28.8	28.8	96.5	96.5	6.6	6.5	8.4	12.5	4	4	87	91	818332	806455	<0.2	<0.2	1.6	1.5
						1.0	0.5	169	26.1		7.9		28.8		96.4		6.6		8.2		3		88				<0.2		1.6	
					Middle	3.9	0.4	187	26.1	26.1	7.9	7.9	29.1	29.1	92.6	92.5	6.4		7.1		3		90				<0.2		1.4	
						3.9	0.5	191	26.1		7.9		29.1		92.4		6.3		7.2		3		91				<0.2		1.5	
					Bottom	6.8	0.4	195	26.0	26.1	7.9	7.9	29.8	29.8	93.5	94.2	6.4	6.5	21.8		3		93				<0.2		1.4	
						6.8	0.4	202	26.1		7.9		29.7		94.8		6.5		22.0		5		94				<0.2		1.5	
IM2	Fine	Moderate	19:49	8.1	Surface	1.0	0.4	154	26.1	26.1	7.9	7.9	28.8	28.8	98.1	98.1	6.8	6.7	8.3	6.8	4	5	85	89	818853	806197	<0.2	<0.2	1.5	1.6
						1.0	0.4	166	26.1		7.9		28.8		98.0		6.7		8.2		4		87				<0.2		1.5	
					Middle	4.1	0.4	167	26.1	26.1	7.9	7.9	28.9	28.9	95.4	95.4	6.6		5.0		4		88				<0.2		1.5	
						4.1	0.4	179	26.1		7.9		28.9		95.3		6.6		5.0		4		89				<0.2		1.6	
					Bottom	7.1	0.4	199	26.1	26.1	7.9	7.9	29.7	29.7	93.9	94.0	6.4	6.4	7.2		6		92				<0.2		1.5	
						7.1	0.4	218	26.1		7.9		29.7		94.0		6.4		7.2		5		93				<0.2		1.7	
IM3	Rainy	Rough	19:41	8.5	Surface	1.0	0.4	116	26.1	26.1	7.9	7.9	28.8	28.8	98.0	98.0	6.7	6.7	8.2	6.8	14	12	87	92	819413	806037	<0.2	<0.2	1.8	1.7
						1.0	0.5	122	26.1		7.9		28.8		97.9		6.7		8.1		12		86				<0.2		1.5	
					Middle	4.3	0.4	176	26.1	26.1	7.9	7.9	28.9	28.9	95.8	95.8	6.6		4.9		12		94				<0.2		1.5	
						4.3	0.5	190	26.1		7.9		28.9		95.7		6.6		5.0		11		93				<0.2		1.7	
					Bottom	7.5	0.3	249	26.1	26.1	7.9	7.9	29.7	29.7	95.0	95.1	6.5	6.5	7.3		12		95				<0.2		1.7	
						7.5	0.3	268	26.1		7.9		29.7		95.1		6.5		7.1		12		95				<0.2		1.7	
IM4	Rainy	Rough	19:28	8.2	Surface	1.0	0.3	150	26.1	26.1	7.9	7.9	28.8	28.8	97.8	97.8	6.7	6.6	8.0	8.2	14	15	87	89	819579	805041	<0.2	<0.2	1.6	1.5
						1.0	0.3	152	26.1		7.9		28.8		97.7		6.7		7.9		14		87				<0.2		1.8	
					Middle	4.1	0.2	175	26.1	26.1	7.9	7.9	28.9	28.9	93.5	93.5	6.4		5.9		16		89				<0.2		1.6	
						4.1	0.3	185	26.1		7.9		28.9		93.4		6.4		6.1		16		89				<0.2		1.5	
					Bottom	7.2	0.2	178	26.1	26.1	7.9	7.9	29.7	29.7	91.7	91.7	6.3	6.3	10.6		15		91				<0.2		1.3	
						7.2	0.3	190	26.1		7.9		29.7		91.7		6.3		10.8		14		91				<0.2		1.4	
IM5	Rainy	Rough	19:20	8.0	Surface	1.0	0.4	134	26.1	26.1	7.9	7.9	28.8	28.8	98.3	98.3	6.8	6.7	7.9	7.9	15	14	88	92	820579	804942	<0.2	<0.2	1.3	1.5
						1.0	0.5	138	26.1		7.9		28.7		98.2		6.8		7.7		14		89				<0.2		1.4	
					Middle	4.0	0.4	142	26.1	26.1	7.9	7.9	28.9	28.9	96.1	96.1	6.6		5.1		14		92				<0.2		1.4	
						4.0	0.4	149	26.1		7.9		28.9		96.0		6.6		5.2		12		93				<0.2		1.6	
					Bottom	7.0	0.3	184	26.1	26.1	7.9	7.9	29.7	29.7	95.4	95.5	6.5	6.5	10.6		16		94				<0.2		1.6	
						7.0	0.3	188	26.1		7.9		29.7		95.6		6.5		10.7		14		94				<0.2		1.4	
IM6	Rainy	Rough	19:10	7.8	Surface	1.0	0.3	126	26.1	26.1	7.9	7.9	28.7	28.8	98.0	98.0	6.8	6.7	6.2	5.8	11	12	86	89	821040	805840	<0.2	<0.2	1.5	1.6
						1.0	0.3	130	26.1		7.9		28.8		98.0		6.8		6.2		11		87				<0.2		1.4	
					Middle	3.9	0.3	155	26.1	26.1	7.9	7.9	28.9	28.9	94.9	94.9	6.5		5.2		13		88				<0.2		1.6	
						3.9	0.3	162	26.1		7.9		28.9		94.8		6.5		5.2		12		89				<0.2		1.4	
					Bottom	6.8	0.2	165	26.1	26.1	7.9	7.9	29.7	29.7	94.5	94.6	6.5	6.5	6.1		13		91				<0.2		1.7	
						6.8	0.2	180	26.1		7.9		29.7		94.6		6.5		6.1		13		92				<0.2		1.7	
IM7	Rainy	Rough	19:00	8.9	Surface	1.0	0.3	134	26.1	26.1	7.9	7.9	28.7	28.7	98.2	98.2	6.8	6.7	4.8	6.4	11	12	86	89	821359	806851	<0.2	<0.2	1.6	1.6
						1.0	0.3	145	26.1		7.9		28.7		98.2		6.8		4.8		11		87				<0.2		1.6	
					Middle	4.5	0.3	133	26.1	26.1	7.9	7.9	28.8	28.8	95.2	95.2	6.6		5.1		11		88				<0.2		1.5	
						4.5	0.3	136	26.1		7.9		28.8		95.1		6.5		5.3		12		89				<0.2		1.6	
					Bottom	7.9	0.2	189	26.1	26.1	7.9	7.9	29.6	29.6	93.1	93.1	6.4	6.4	9.2		14		92				<0.2		1.4	
						7.9	0.2	203	26.1		7.9		29.5		93.1		6.4		9.2		13		93				<0.2		1.6	
IM8	Cloudy	Moderate	19:53	8.2	Surface	1.0	0.4	186	23.6	23.6	7.9	7.9	26.1	26.1	99.6	99.7	7.3	7.3	2.2	6.0	3	3	84	90	821690	807856	<0.2	<0.2	1.5	1.6
						1.0	0.4	189	23.6		7.9		26.1		99.7		7.3		2.2		2		84				<0.2		1.6	
					Middle	4.1	0.4	135	23.6	23.6	7.9	7.9	26.6	26.6	99.2	99.2	7.2		5.4		2		92				<0.2		1.7	
						4.1	0.5	143	23.6		7.9		26.6		99.2		7.2		5.4		2		93				<0.2		1.6	
					Bottom	7.2	0.4	175	23.4	23.4	7.9	7.9	29.7	29.7	99.9	100.0	7.2	7.2	10.3		3		94				<0.2		1.6	
						7.2	0.4	179	23.4		7.9		29.7		100.0		7.2		10.5		3		94				<0.2		1.5	

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 08 November 16 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
IM9	Cloudy	Moderate	20:01	7.6	Surface	1.0	0.4	172	23.6	23.6	7.9	7.9	26.4	26.4	100.7	100.8	7.3	7.3	2.7	7.5	2	4	84	90	822102	808818	<0.2	<0.2	1.5	1.4
						1.0	0.4	172	23.6		7.9		26.4		100.8		7.3		2.8		3		85				<0.2		1.6	
					Middle	3.8	0.3	185	23.6	23.6	7.9	7.9	26.7	26.7	100.0	100.0	7.3		6.3		3		92				<0.2		1.5	
						3.8	0.3	186	23.6		7.9		26.7		100.0		7.3		6.5		3		92				<0.2		1.3	
					Bottom	6.6	0.3	180	23.4	23.4	7.9	7.9	28.6	28.6	100.7	100.8	7.3	7.3	13.2		6		94				<0.2		1.3	
						6.6	0.4	187	23.4		7.9		28.6		100.8		7.3		13.2		6		94				<0.2		1.4	
IM10	Cloudy	Moderate	20:09	7.8	Surface	1.0	0.3	190	23.6	23.6	7.9	7.9	27.9	27.9	101.5	101.3	7.3	7.3	1.3	3.3	3	3	85	91	822228	809846	<0.2	<0.2	1.4	1.3
						1.0	0.3	197	23.6		7.9		27.8		101.0		7.3		1.4		3		86				<0.2		1.4	
					Middle	3.9	0.3	203	23.4	23.4	7.9	7.9	28.5	28.5	100.1	100.1	7.2		2.8		4		93				<0.2		1.0	
						3.9	0.3	212	23.4		7.9		28.5		100.1		7.2		2.8		3		92				<0.2		1.0	
					Bottom	6.8	0.3	228	23.4	23.4	7.9	7.9	28.9	28.9	101.2	101.3	7.3	7.3	5.8		2		94				<0.2		1.3	
						6.8	0.3	250	23.4		7.9		28.9		101.3		7.3		5.8		2		95				<0.2		1.4	
IM11	Cloudy	Moderate	20:16	8.7	Surface	1.0	0.3	179	23.7	23.7	7.9	7.9	27.6	27.6	103.2	103.2	7.5	7.4	0.5	1.6	3	3	86	91	821516	810543	<0.2	<0.2	1.4	1.3
						1.0	0.3	189	23.7		7.9		27.6		103.1		7.5		0.5		3		87				<0.2		1.3	
					Middle	4.4	0.3	212	23.5	23.5	7.9	7.9	28.5	28.5	100.5	100.5	7.3		1.8		2		93				<0.2		1.6	
						4.4	0.3	214	23.5		7.9		28.5		100.5		7.3		1.9		2		92				<0.2		1.5	
					Bottom	7.7	0.3	192	23.4	23.4	7.9	7.9	29.0	29.0	101.9	102.0	7.3	7.3	2.4		2		94				<0.2		1.1	
						7.7	0.3	196	23.4		7.9		29.0		102.0		7.3		2.4		4		95				<0.2		1.1	
IM12	Cloudy	Moderate	20:25	8.9	Surface	1.0	0.3	154	23.7	23.7	7.9	7.9	27.3	27.3	101.3	101.3	7.3	7.3	1.1	4.5	2	4	88	92	821146	811535	<0.2	<0.2	1.9	1.5
						1.0	0.3	161	23.7		7.9		27.3		101.3		7.3		1.1		<2		87				<0.2		1.8	
					Middle	4.5	0.3	198	23.4	23.4	7.9	7.9	28.6	28.6	99.0	99.0	7.2		3.0		4		93				<0.2		1.4	
						4.5	0.3	203	23.4		7.9		28.6		99.0		7.2		3.1		3		93				<0.2		1.4	
					Bottom	7.9	0.3	204	23.3	23.3	7.9	7.9	29.3	29.3	96.0	96.0	6.9	6.9	9.3		6		94				<0.2		1.4	
						7.9	0.3	216	23.3		7.9		29.3		96.0		6.9		9.3		5		95				<0.2		1.3	
SR2	Cloudy	Moderate	20:47	4.5	Surface	1.0	1.5	157	23.3	23.3	7.9	7.9	29.1	29.1	98.6	98.6	7.1	7.1	1.8	2.3	2	7	89	92	821456	814161	<0.2	<0.2	1.4	1.6
						1.0	1.6	160	23.3		7.9		29.1		98.5		7.1		1.8		2		89				<0.2		1.5	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				<0.2		-	
						2.3	-	-	-		-		-		-		-		-		-		-						-	
					Bottom	3.5	0.8	150	23.3	23.3	7.9	7.9	29.3	29.2	98.9	99.1	7.1	7.2	3.0		11		95				<0.2		1.6	
						3.5	0.8	163	23.3		7.9		29.1		99.3		7.2		2.7		12		94				<0.2		1.7	
SR3	Cloudy	Moderate	19:47	8.8	Surface	1.0	0.3	194	23.6	23.6	7.9	7.9	25.8	25.8	98.9	98.9	7.2	7.2	1.5	5.6	2	3	-	-	822159	807568	-	-	-	-
						1.0	0.3	208	23.6		7.9		25.8		98.9		7.2		1.5		4		-				-		-	
					Middle	4.4	0.4	153	23.6	23.6	7.9	7.9	26.1	26.1	98.4	98.4	7.2		3.6		2		-				-		-	
						4.4	0.4	160	23.6		7.9		26.1		98.4		7.2		3.6		3		-				-		-	
					Bottom	7.8	0.4	157	23.3	23.3	7.9	7.9	29.6	29.6	97.4	97.4	7.0	7.0	11.8		3		-				-		-	
						7.8	0.4	171	23.3		7.9		29.6		97.4		7.0		11.8		3		-				-		-	
SR4A	Fine	Moderate	20:43	8.1	Surface	1.0	0.2	181	26.1	26.1	7.9	7.9	28.8	28.8	97.7	97.7	6.7	6.6	8.1	8.3	5	5	-	-	817173	807799	-	-	-	-
						1.0	0.2	186	26.1		7.9		28.8		97.7		6.7		8.1		6		-				-		-	
					Middle	4.1	0.2	187	26.1	26.1	7.9	7.9	28.9	28.9	92.9	92.9	6.4		7.7		4		-				-		-	
						4.1	0.2	195	26.1		7.9		28.9		92.8		6.4		7.8		4		-				-		-	
					Bottom	7.1	0.3	213	26.1	26.1	7.9	7.9	29.7	29.7	92.0	92.1	6.3	6.3	8.9		6		-				-		-	
						7.1	0.3	224	26.1		7.9		29.7		92.1		6.3		9.0		7		-				-		-	
SR5A	Fine	Moderate	20:55	4.3	Surface	1.0	0.1	210	26.1	26.1	7.9	7.9	28.8	28.8	97.6	97.6	6.7	6.7	7.8	7.9	4	5	-	-	816573	810692	-	-	-	-
						1.0	0.1	223	26.1		7.9		28.8		97.6		6.7		7.9		4		-				-		-	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.1	215	26.1	26.1	7.9	7.9	29.1	29.1	98.0	98.1	6.7	6.7	7.8		6		-				-		-	
						3.3	0.1	223	26.1		7.9		29.1		98.1		6.7		7.9		6		-				-		-	
SR6	Fine	Moderate	21:14	4.5	Surface	1.0	0.1	145	26.1	26.1	7.9	7.9	28.8	28.8	98.1	98.1	6.8	6.8	7.5	7.5	9	9	-	-	817886	814647	-	-	-	-
						1.0	0.2	156	26.1		7.9		28.8		98.1		6.8		7.5		9		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	153	26.1	26.2	7.9	7.9	29.0	29.0	98.3	98.3	6.8	6.8	7.6		9		-				-		-	
						3.5	0.1	165	26.2		7.9		28.9		98.3		6.8		7.4		9		-				-		-	
SR7	Cloudy	Moderate	21:47	18.9	Surface	1.0	0.3	190	23.5	23.5	7.9	7.9	31.3	31.3	92.3	92.3	6.6	6.6	2.1	2.6	4	4	-	-	823622	823744	-	-	-	-
						1.0	0.3	200	23.5		7.9		31.3		92.3		6.6		2.1		4		-				-		-	
					Middle	9.5	0.2	184	23.7	23.7	7.9	7.9	31.5	31.5	92.8	92.8	6.6		2.5		5		-				-		-	
						9.5	0.2	195	23.7		7.9		31.5		92.8		6.6		2.5		4		-				-		-	
					Bottom	17.9	0.2	179	23.7	23.7	7.9	7.9	31.5	31.5	94.2	94.3	6.7	6.7	3.1		5		-				-		-	
						17.9	0.2	188	23.7		7.9		31.5		94.3		6.7		3.1		4		-				-		-	
SR8	Cloudy	Moderate	20:32	5.1	Surface	1.0	0.3	191	23.6	23.6	7.9	7.9	27.7	27.7	101.3	101.3	7.3	7.3	3.8	4.8	6	6	-	-	820413	811612	-	-	-	-
						1.0	0.3	198	23.6		7.9		27.7		101.2		7.3		3.9		5		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.3	191	23.3	23.3	7.9	7.9	29.1	29.1	100.0	100.0	7.2	7.2	5.7		6		-				-		-	
						4.1	0.3	196	23.3		7.9		29.1		100.0		7.2		5.7		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 10 November 16 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
C1	Rainy	Moderate	15:42	8.1	Surface	1.0	0.4	183	25.1	25.1	7.9	7.9	31.0	31.0	98.1	98.1	6.8	6.8	8.2	8.4	12	13	85	88	815625	804230	<0.2	<0.2	0.8	0.9
						1.0	0.4	199	25.1		7.9		31.0		98.1		6.8		8.2		10		85				<0.2		0.8	
					Middle	4.1	0.5	174	25.1	25.1	7.8	7.8	30.9	30.9	98.4	98.5	6.8		8.3		14		88				<0.2		0.8	
						4.1	0.5	185	25.1		7.8		30.9		98.5		6.8		8.4		12		89				<0.2		0.7	
					Bottom	7.1	0.4	160	25.1	25.1	7.8	7.8	30.5	30.5	102.0	102.1	7.1	7.1	8.6		14		91				<0.2		0.9	
						7.1	0.4	171	25.1		7.8		30.5		102.1		7.1		8.7		14		92				<0.2		1.2	
C2	Rainy	Moderate	14:18	10.2	Surface	1.0	0.5	178	22.2	22.2	7.9	7.9	29.4	29.4	95.3	95.3	7.0	7.0	5.7	11.1	5	8	85	90	825694	806933	<0.2	<0.2	1.0	0.9
						1.0	0.5	188	22.2		7.9		29.4		95.3		7.0		5.8		4		84				<0.2		1.0	
					Middle	5.1	0.4	193	22.5	22.5	7.9	7.9	30.1	30.1	95.8	95.8	7.0		7.6		7		93				<0.2		0.9	
						5.1	0.4	199	22.5		7.9		30.1		95.8		7.0		7.7		5		92				<0.2		0.9	
					Bottom	9.2	0.3	210	22.5	22.5	7.9	7.9	30.4	30.4	97.4	97.5	7.1	7.1	19.7		13		94				<0.2		0.8	
						9.2	0.3	221	22.5		7.9		30.4		97.5		7.1		20.1		12		94				<0.2		0.9	
C3	Cloudy	Moderate	16:22	12.2	Surface	1.0	0.3	253	22.8	22.8	8.0	8.0	31.3	31.3	91.1	91.1	6.6	6.6	3.1	5.0	3	5	89	93	822093	817784	<0.2	<0.2	0.9	0.8
						1.0	0.3	277	22.8		8.0		31.3		91.0		6.6		3.2		2		88				<0.2		0.8	
					Middle	6.1	0.3	259	23.0	23.0	8.0	8.0	31.6	31.6	90.3	90.3	6.5		5.4		4		94				<0.2		0.8	
						6.1	0.3	278	23.0		8.0		31.6		90.3		6.5		5.5		6		94				<0.2		0.8	
					Bottom	11.2	0.3	269	23.1	23.1	8.0	8.0	31.6	31.6	90.6	90.6	6.5	6.5	6.4		7		96				<0.2		0.7	
						11.2	0.3	291	23.1		8.0		31.6		90.5		6.5		6.5		6		95				<0.2		0.8	
IM1	Rainy	Moderate	15:19	6.9	Surface	1.0	0.5	173	25.3	25.3	7.8	7.8	30.8	30.8	96.2	96.3	6.6	6.7	7.1	8.6	8	10	87	89	818357	806449	<0.2	<0.2	0.8	0.8
						1.0	0.5	184	25.3		7.8		30.8		96.3		6.6		7.1		10		87				<0.2		0.8	
					Middle	3.5	0.5	194	25.3	25.3	7.8	7.8	30.8	30.8	97.1	97.2	6.7		8.3		11		88				<0.2		0.8	
						3.5	0.5	197	25.3		7.8		30.8		97.2		6.7		8.3		12		88				<0.2		0.8	
					Bottom	5.9	0.5	200	25.3	25.3	7.7	7.7	30.4	30.4	103.7	103.9	7.2	7.2	10.5		10		90				<0.2		0.7	
						5.9	0.5	210	25.3		7.7		30.4		104.0		7.2		10.5		11		91				<0.2		0.7	
IM2	Rainy	Moderate	15:14	7.8	Surface	1.0	0.6	216	24.9	24.9	7.8	7.8	30.2	30.2	99.2	99.3	6.9	7.0	4.0	4.4	7	8	87	91	818840	806191	<0.2	<0.2	1.0	1.2
						1.0	0.6	224	24.9		7.8		30.2		99.3		6.9		4.0		8		88				<0.2		0.9	
					Middle	3.9	0.6	218	24.9	24.9	7.8	7.8	30.1	30.1	99.8	99.9	7.0		4.2		8		91				<0.2		1.1	
						3.9	0.6	220	24.9		7.8		30.1		99.9		7.0		4.2		8		92				<0.2		1.3	
					Bottom	6.8	0.5	228	24.9	24.9	7.7	7.7	29.9	29.9	104.6	105.2	7.3	7.4	5.0		8		94				<0.2		1.5	
						6.8	0.5	233	24.9		7.7		29.8		105.8		7.4		4.8		8		94				<0.2		1.5	
IM3	Rainy	Moderate	15:08	9.1	Surface	1.0	0.5	223	25.0	25.0	7.8	7.8	30.0	30.0	98.5	98.5	6.9	6.9	5.1	5.5	9	9	87	90	819406	806036	<0.2	<0.2	1.2	1.4
						1.0	0.5	236	25.0		7.8		29.9		98.5		6.9		5.0		9		86				<0.2		1.1	
					Middle	4.6	0.4	225	25.0	25.0	7.8	7.8	29.9	29.9	99.4	99.4	6.9		5.4		10		89				<0.2		1.5	
						4.6	0.4	237	25.0		7.8		29.9		99.4		6.9		5.4		9		89				<0.2		1.3	
					Bottom	8.1	0.3	229	25.0	25.0	7.6	7.6	29.5	29.5	104.2	104.3	7.3	7.3	5.9		9		93				<0.2		1.4	
						8.1	0.3	232	25.0		7.6		29.5		104.4		7.3		5.9		9		93				<0.2		1.6	
IM4	Rainy	Moderate	14:46	7.2	Surface	1.0	0.7	135	25.0	25.0	7.8	7.8	30.2	30.2	97.9	97.9	6.8	6.9	7.0	7.4	10	11	88	91	819581	805052	<0.2	<0.2	1.5	1.4
						1.0	0.8	136	25.0		7.8		30.2		97.8		6.8		6.9		11		89				<0.2		1.5	
					Middle	3.6	0.5	149	25.0	25.0	7.7	7.7	30.1	30.1	99.0	99.0	6.9		7.4		12		91				<0.2		1.0	
						3.6	0.5	156	25.0		7.7		30.1		99.0		6.9		7.4		10		92				<0.2		1.2	
					Bottom	6.2	0.6	158	25.0	25.0	7.7	7.7	29.8	29.8	102.2	102.7	7.1	7.2	7.8		11		94				<0.2		1.5	
						6.2	0.6	161	25.0		7.7		29.8		103.1		7.2		7.9		12		93				<0.2		1.6	
IM5	Rainy	Moderate	14:38	7.4	Surface	1.0	0.5	211	24.9	24.9	7.7	7.7	29.8	29.8	97.4	97.4	6.8	6.8	12.1	13.7	18	20	87	89	820565	804913	<0.2	<0.2	1.7	1.6
						1.0	0.6	217	24.9		7.7		29.8		97.4		6.8		12.2		18		87				<0.2		1.5	
					Middle	3.7	0.6	220	24.9	24.9	7.7	7.7	29.7	29.7	97.7	97.8	6.8		13.1		22		89				<0.2		1.7	
						3.7	0.6	239	24.9		7.7		29.7		97.8		6.8		13.3		21		89				<0.2		1.5	
					Bottom	6.4	0.6	224	25.0	25.0	7.7	7.7	29.5	29.5	101.2	101.3	7.1	7.1	15.7		20		91				<0.2		1.6	
						6.4	0.6	239	24.9		7.7		29.5		101.3		7.1		15.7		20		92				<0.2		1.6	
IM6	Fine	Moderate	14:31	6.3	Surface	1.0	0.5	230	25.0	25.0	7.8	7.8	29.9	29.9	98.0	98.0	6.8	6.9	7.4	8.0	12	13	88	91	821071	805827	<0.2	<0.2	1.5	1.5
						1.0	0.5	243	25.0		7.8		29.9		98.0		6.8		7.5		13		89				<0.2		1.4	
					Middle	3.2	0.5	232	25.1	25.1	7.7	7.7	29.8	29.8	99.1	99.1	6.9		8.0		12		91				<0.2		1.2	
						3.2	0.6	240	25.1		7.7		29.8		99.1		6.9		8.0		14		92				<0.2		1.4	
					Bottom	5.3	0.7	241	25.0	25.0	7.6	7.6	29.5	29.5	102.9	103.0	7.2	7.2	8.5		12		93				<0.2		1.6	
						5.3	0.8	248	25.0		7.6		29.5		103.1		7.2		8.5		15		93				<0.2		1.6	
IM7	Fine	Moderate	14:17	7.6	Surface	1.0	0.5	221	25.4	25.4	7.8	7.8	30.3	30.3	93.9	94.0	6.5	6.5	8.7	10.9	12	17	86	89	821340	806819	<0.2	<0.2	1.7	1.4
						1.0	0.6	237	25.4		7.8		30.3		94.0		6.5		8.8		15		87				<0.2		1.8	
					Middle	3.8	0.6	214	25.4	25.4	7.8	7.8	30.2	30.2	94.5	94.5	6.5		10.6		19		89				<0.2		0.9	
						3.8	0.6	220	25.4		7.8		30.2		94.5		6.5		10.7		22		89				<0.2		1.2	
					Bottom	6.6	0.5	218	25.5	25.5	7.8	7.8	30.0	30.0	96.7	96.8	6.7	6.7	13.4		18		90				<0.2		1.4	
						6.6	0.5	229	25.4		7.8		30.0		96.9		6.7		13.4		18		91				<0.2		1.3	
IM8	Cloudy	Moderate	14:51	7.9	Surface	1.0	0.3	226	22.7	22.7	8.0	8.0	30.8	30.8	96.4	96.4	7.0	7.0	3.7	4.1	4	6	85	90	821713	807832	<0.2	<0.2	1.4	1.3
						1.0	0.3	241	22.7		8.0		30.8		96.3		7.0		3.7		6		84				<0.2		1.2	
					Middle	4.0	0.3	225	22.7	22.7	8.0	8.0	30.8	30.8	97.2	97.2	7.0		3.9		6		93				<0.2		1.5	
						4.0	0.3	237	22.7		8.0		30.8		97.2		7.0		3.9		6		92				<0.2		1.4	
					Bottom	6.9	0.3	219	22.8	22.8	8.0	8.0	30.8	30.8	99.3	99.3	7.2	7.2	4.8		6		94				<0.2		1.1	
						6.9	0.3	239	22.8		8.0		30.8		99.3		7.2		4.8		6		94				<0.2		1.0	

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 10 November 16 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	6.8	Surface	1.0	0.3	232	22.7	22.7	8.0	8.0	30.9	30.9	96.7	96.7	7.0	7.0	3.7	4.3	5	6	85	91	822111	808803	<0.2	<0.2	1.0	0.9
						1.0	0.3	251	22.7		8.0		30.9		96.7		7.0		3.8		5		85				<0.2		1.0	
					Middle	3.4	0.3	238	22.8	22.8	8.0	8.0	30.9	30.9	97.2	97.2	7.0		4.1		5		93				<0.2		0.9	
						3.4	0.3	247	22.8		8.0		30.9		97.2		7.0		4.1		5		93				<0.2		0.9	
					Bottom	5.8	0.3	244	22.8	22.8	8.0	8.0	30.9	30.9	99.5	99.6	7.2	7.2	4.9		8		95				<0.2		0.9	
						5.8	0.3	265	22.8		8.0		30.9		99.6		7.2		4.9		7		94				<0.2		0.8	
IM10	Cloudy	Moderate	15:11	6.9	Surface	1.0	0.3	227	22.7	22.7	8.0	8.0	30.8	30.8	97.0	97.0	7.0	7.1	3.5	3.6	6	6	86	91	822247	809838	<0.2	<0.2	0.9	0.9
						1.0	0.3	235	22.7		8.0		30.8		97.0		7.0		3.4		6		86				<0.2		1.0	
					Middle	3.5	0.3	247	22.7	22.7	8.0	8.0	30.8	30.8	98.5	98.5	7.1		3.7		5		93				<0.2		1.0	
						3.5	0.3	264	22.7		8.0		30.8		98.5		7.1		3.7		5		93				<0.2		0.9	
					Bottom	5.9	0.3	227	22.7	22.7	8.0	8.0	30.8	30.8	101.1	101.2	7.3	7.3	3.7		7		94				<0.2		0.9	
						5.9	0.3	237	22.7		8.0		30.8		101.2		7.3		3.7		6		95				<0.2		0.9	
IM11	Cloudy	Moderate	15:21	7.9	Surface	1.0	0.4	256	22.4	22.4	8.0	8.0	30.8	30.8	99.1	99.1	7.2	7.2	4.3	6.1	7	7	86	92	821517	810534	<0.2	<0.2	1.0	1.1
						1.0	0.5	280	22.4		8.0		30.8		99.1		7.2		4.3		5		87				<0.2		1.1	
					Middle	4.0	0.4	257	22.4	22.4	8.0	8.0	30.8	30.8	99.1	99.1	7.2		6.8		9		93				<0.2		0.9	
						4.0	0.4	275	22.4		8.0		30.8		99.1		7.2		7.0		7		93				<0.2		1.0	
					Bottom	6.9	0.4	257	22.3	22.3	8.0	8.0	30.9	30.9	100.4	100.5	7.3	7.3	7.2		8		95				<0.2		1.1	
						6.9	0.4	270	22.3		8.0		30.9		100.5		7.3		7.1		8		95				<0.2		1.2	
IM12	Cloudy	Moderate	15:31	8.4	Surface	1.0	0.4	267	22.3	22.3	8.0	8.0	30.7	30.7	98.4	98.4	7.2	7.2	4.1	5.0	4	5	87	92	821181	811535	<0.2	<0.2	0.8	1.0
						1.0	0.4	281	22.3		8.0		30.7		98.3		7.2		4.1		5		87				<0.2		0.9	
					Middle	4.2	0.4	266	22.3	22.3	8.0	8.0	30.8	30.8	98.5	98.5	7.2		4.7		4		93				<0.2		1.0	
						4.2	0.4	281	22.3		8.0		30.8		98.5		7.2		4.7		4		93				<0.2		0.9	
					Bottom	7.4	0.4	260	22.3	22.3	8.0	8.0	30.8	30.8	99.0	99.1	7.2	7.2	6.3		5		95				<0.2		1.2	
						7.4	0.4	271	22.3		8.0		30.8		99.1		7.2		6.3		6		94				<0.2		1.1	
SR2	Cloudy	Moderate	15:56	4.7	Surface	1.0	0.3	235	22.6	22.6	7.9	7.9	31.1	31.1	94.4	94.4	6.8	6.8	5.7	5.9	6	7	88	92	821453	814159	<0.2	<0.2	0.9	0.9
						1.0	0.3	250	22.6		7.9		31.1		94.4		6.8		5.7		6		88				<0.2		0.8	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.3	258	22.7	22.7	7.9	7.9	31.1	31.1	95.7	95.7	6.9	6.9	6.0		7		95				<0.2		1.0	
						3.7	0.3	262	22.7		7.9		31.1		95.7		6.9		6.1		8		95				<0.2		0.9	
SR3	Rainy	Moderate	14:44	8.3	Surface	1.0	0.4	202	22.6	22.6	8.0	8.0	30.5	30.5	97.6	97.7	7.1	7.1	3.1	3.4	3	6	-	-	822163	807586	-	-	-	-
						1.0	0.4	218	22.6		8.0		30.5		97.7		7.1		3.0		5		-				-		-	
					Middle	4.2	0.4	215	22.6	22.6	8.0	8.0	30.5	30.5	98.4	98.4	7.1		3.3		6		-				-		-	
						4.2	0.4	229	22.6		8.0		30.5		98.4		7.1		3.3		5		-				-		-	
					Bottom	7.3	0.4	237	22.7	22.7	7.9	7.9	30.6	30.6	105.2	105.2	7.6	7.6	3.7		8		-				-		-	
						7.3	0.4	237	22.7		7.9		30.6		105.2		7.6		3.7		10		-				-		-	
SR4A	Rainy	Moderate	16:06	7.5	Surface	1.0	0.3	247	24.9	24.9	7.7	7.7	29.6	29.6	94.4	94.5	6.6	6.7	13.9	13.8	13	18	-	-	817191	807814	-	-	-	-
						1.0	0.3	254	24.9		7.7		29.6		94.5		6.6		13.7		15		-				-		-	
					Middle	3.8	0.3	252	24.9	24.9	7.7	7.7	29.4	29.4	96.5	96.5	6.8		13.5		17		-				-		-	
						3.8	0.3	267	24.9		7.7		29.4		96.5		6.8		13.6		19		-				-		-	
					Bottom	6.5	0.3	220	24.9	24.9	7.6	7.6	29.1	29.1	101.9	102.0	7.1	7.2	14.1		23		-				-		-	
						6.5	0.3	241	24.9		7.6		29.1		102.1		7.2		14.0		21		-				-		-	
SR5A	Rainy	Moderate	16:25	4.2	Surface	1.0	0.3	291	24.8	24.8	7.6	7.6	28.9	28.9	97.0	97.1	6.8	6.8	6.2	6.4	9	10	-	-	816575	810682	-	-	-	-
						1.0	0.3	306	24.8		7.6		28.9		97.1		6.8		6.2		8		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.3	291	24.8	24.8	7.5	7.5	28.4	28.4	104.1	104.2	7.3	7.4	6.5		11		-				-		-	
						3.2	0.3	291	24.8		7.5		28.4		104.3		7.4		6.5		10		-				-		-	
SR6	Rainy	Moderate	16:50	4.1	Surface	1.0	0.1	232	24.6	24.6	7.7	7.7	29.2	29.2	91.8	91.8	6.5	6.5	14.2	17.9	21	22	-	-	817885	814681	-	-	-	-
						1.0	0.1	248	24.6		7.7		29.2		91.8		6.5		14.3		19		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.2	231	24.6	24.6	7.7	7.7	29.1	29.1	94.0	94.0	6.6	6.6	21.4		25		-				-		-	
						3.1	0.2	238	24.6		7.7		29.1		94.0		6.6		21.5		23		-				-		-	
SR7	Cloudy	Moderate	16:59	18.1	Surface	1.0	0.3	100	23.1	23.1	8.0	8.0	31.7	31.7	91.2	91.3	6.5	6.5	4.3	4.8	8	8	-	-	823648	823750	-	-	-	-
						1.0	0.3	102	23.1		8.0		31.7		91.3		6.5		4.4		7		-				-		-	
					Middle	9.1	0.3	83	23.2	23.2	8.0	8.0	31.7	31.7	91.2	91.2	6.5		5.0		8		-				-		-	
						9.1	0.3	90	23.2		8.0		31.7		91.2		6.5		4.7		9		-				-		-	
					Bottom	17.1	0.2	114	23.2	23.2	8.0	8.0	31.8	31.8	92.0	92.1	6.6	6.6	5.3		9		-				-		-	
						17.1	0.2	123	23.2		8.0		31.8		92.1		6.6		4.9		8		-				-		-	
SR8	Cloudy	Moderate	15:39	4.7	Surface	1.0	0.3	247	22.4	22.4	8.0	8.0	30.8	30.8	97.0	97.1	7.0	7.1	8.4	9.0	12	12	-	-	820421	811605	-	-	-	-
						1.0	0.4	255	22.4		8.0		30.8		97.1		7.1		8.4		11		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.3	230	22.4	22.4	8.0	8.0	30.8	30.8	97.6	97.7	7.1	7.1	9.5		13		-				-		-	
						3.7	0.3	235	22.4		7.9		30.8		97.7		7.1		9.6		12		-				-		-	

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 10 November 16 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	Rainy	Moderate	08:12	8.2	Surface	1.0	0.7	199	25.0	25.0	7.9	7.9	30.9	30.9	99.9	99.9	6.9	6.9	9.5	9.5	13	14	85	87	815627	804239	<0.2	<0.2	0.7	0.8
						1.0	0.7	216	25.0		7.9		30.9		99.8		6.9		9.3		14		85				<0.2		0.8	
					Middle	4.1	0.7	220	25.0	25.0	7.9	7.9	30.8	30.8	100.1	100.1	6.9		9.6		13		86				<0.2		0.7	
						4.1	0.8	239	25.0		7.9		30.8		100.1		6.9		9.7		15		87				<0.2		0.7	
					Bottom	7.2	0.7	217	25.0	25.0	7.8	7.8	30.6	30.6	101.1	101.2	7.0	7.0	9.4		13		90				<0.2		0.9	
						7.2	0.7	228	25.0		7.8		30.6		101.2		7.0		9.5		14		91				<0.2		1.0	
C2	Rainy	Moderate	10:01	11.3	Surface	1.0	0.6	179	22.2	22.2	7.9	7.9	29.8	29.8	97.1	97.1	7.1	7.1	4.3	8.9	3	3	84	91	825676	806946	<0.2	<0.2	1.3	1.1
						1.0	0.6	181	22.2		7.9		29.8		97.1		7.1		4.3		3		85				<0.2		1.1	
					Middle	5.7	0.6	177	22.3	22.3	7.9	7.9	30.1	30.1	97.5	97.5	7.1		6.7		3		92				<0.2		1.0	
						5.7	0.6	189	22.3		7.9		30.1		97.5		7.1		6.8		3		92				<0.2		1.1	
					Bottom	10.3	0.4	182	22.5	22.5	7.9	7.9	30.5	30.5	102.2	102.3	7.4	7.4	15.9		4		95				<0.2		0.9	
						10.3	0.4	199	22.5		7.9		30.5		102.3		7.4		15.1		3		95				<0.2		0.9	
C3	Cloudy	Moderate	07:42	11.7	Surface	1.0	0.3	94	23.1	23.1	7.9	7.9	31.5	31.5	91.7	91.7	6.5	6.6	5.0	4.7	3	5	92	94	822118	817810	<0.2	<0.2	0.6	0.9
						1.0	0.4	98	23.1		7.9		31.5		91.7		6.5		5.0		5		91				<0.2		0.7	
					Middle	5.9	0.3	90	23.1	23.1	7.9	7.9	31.6	31.6	93.2	93.2	6.7		4.4		6		93				<0.2		1.1	
						5.9	0.4	98	23.1		7.9		31.6		93.2		6.7		4.3		6		93				<0.2		1.2	
					Bottom	10.7	0.4	104	23.1	23.1	7.9	7.9	31.6	31.6	95.7	95.8	6.8	6.8	4.8		4		96				<0.2		0.9	
						10.7	0.4	114	23.1		7.9		31.6		95.9		6.8		4.9		5		96				<0.2		0.8	
IM1	Rainy	Moderate	08:39	6.8	Surface	1.0	0.5	189	24.9	24.9	7.9	7.9	30.4	30.4	98.7	98.8	6.9	7.0	5.1	6.0	6	7	85	87	818340	806465	<0.2	<0.2	1.4	1.2
						1.0	0.5	205	24.9		7.9		30.4		98.8		6.9		5.2		6		85				<0.2		1.4	
					Middle	3.4	0.5	183	24.9	25.0	7.8	7.8	30.2	30.2	99.9	100.0	7.0		6.1		6		86				<0.2		1.1	
						3.4	0.5	200	25.0		7.8		30.2		100.0		7.0		6.1		6		87				<0.2		1.0	
					Bottom	5.8	0.5	184	24.9	24.9	7.7	7.7	29.8	29.8	102.5	102.6	7.1	7.2	6.6		9		89				<0.2		1.2	
						5.8	0.5	196	24.9		7.7		29.8		102.6		7.2		6.6		10		90				<0.2		1.1	
IM2	Rainy	Moderate	08:45	7.9	Surface	1.0	0.5	208	25.1	25.1	7.9	7.9	30.7	30.7	98.1	98.1	6.8	6.8	6.3	6.4	7	8	85	89	818836	806201	<0.2	<0.2	1.6	1.3
						1.0	0.5	213	25.1		7.9		30.7		98.1		6.8		6.3		7		86				<0.2		1.6	
					Middle	4.0	0.5	202	25.1	25.1	7.9	7.9	30.6	30.6	98.3	98.4	6.8		6.3		7		88				<0.2		1.0	
						4.0	0.5	221	25.1		7.9		30.6		98.4		6.8		6.4		7		89				<0.2		1.2	
					Bottom	6.9	0.5	198	25.1	25.1	7.8	7.8	30.3	30.3	101.3	101.3	7.0	7.0	6.5		10		91				<0.2		1.1	
						6.9	0.5	209	25.1		7.8		30.3		101.3		7.0		6.5		9		92				<0.2		1.2	
IM3	Rainy	Moderate	08:54	8.1	Surface	1.0	0.7	221	24.9	24.9	7.9	7.9	30.2	30.2	98.2	98.2	6.8	6.8	4.8	5.8	6	8	88	91	819424	806027	<0.2	<0.2	1.3	1.5
						1.0	0.8	238	24.9		7.9		30.2		98.2		6.8		4.8		7		88				<0.2		1.4	
					Middle	4.1	0.6	213	25.0	25.0	7.9	7.9	30.3	30.3	98.4	98.4	6.8		6.0		7		91				<0.2		1.7	
						4.1	0.6	222	25.0		7.9		30.3		98.4		6.8		6.1		6		91				<0.2		1.8	
					Bottom	7.1	0.5	204	25.0	25.0	7.8	7.8	30.1	30.1	100.5	100.6	7.0	7.0	6.5		13		94				<0.2		1.4	
						7.1	0.6	208	25.0		7.8		30.1		100.6		7.0		6.5		11		93				<0.2		1.4	
IM4	Rainy	Moderate	09:06	7.5	Surface	1.0	0.5	214	24.9	24.9	7.9	7.9	30.3	30.3	98.6	98.6	6.9	6.9	10.2	11.8	14	17	86	89	819580	805044	<0.2	<0.2	1.1	1.4
						1.0	0.5	230	24.9		7.9		30.2		98.5		6.9		10.2		13		86				<0.2		1.1	
					Middle	3.8	0.5	211	24.9	24.9	7.9	7.9	30.1	30.1	99.1	99.2	6.9		11.4		14		89				<0.2		1.6	
						3.8	0.6	231	24.9		7.9		30.1		99.2		6.9		11.5		14		89				<0.2		1.7	
					Bottom	6.5	0.4	209	24.9	24.9	7.8	7.8	29.8	29.8	101.8	102.3	7.1	7.2	13.8		23		92				<0.2		1.5	
						6.5	0.5	210	24.9		7.8		29.8		102.8		7.2		13.9		22		92				<0.2		1.5	
IM5	Rainy	Moderate	09:15	6.3	Surface	1.0	0.5	191	24.9	24.9	7.9	7.9	29.9	29.9	97.9	97.9	6.8	6.9	13.6	15.3	19	22	88	92	820556	804926	<0.2	<0.2	1.0	1.0
						1.0	0.5	201	24.9		7.9		29.9		97.9		6.8		13.6		20		89				<0.2		0.9	
					Middle	3.2	0.5	194	24.9	24.9	7.8	7.8	29.8	29.8	98.7	98.7	6.9		15.6		22		91				<0.2		0.8	
						3.2	0.5	204	24.9		7.8		29.8		98.7		6.9		15.6		20		93				<0.2		0.9	
					Bottom	5.3	0.4	208	24.9	24.9	7.8	7.8	29.6	29.6	101.2	101.8	7.1	7.2	17.2		23		94				<0.2		1.2	
						5.3	0.5	226	24.9		7.8		29.5		102.4		7.2		16.2		25		94				<0.2		1.0	
IM6	Rainy	Moderate	09:24	6.4	Surface	1.0	0.5	203	24.9	24.9	7.9	7.9	29.9	29.9	97.6	97.7	6.8	6.9	8.3	9.2	13	13	85	88	821079	805842	<0.2	<0.2	1.1	1.0
						1.0	0.5	213	24.9		7.9		29.9		97.7		6.8		8.4		12		85				<0.2		1.0	
					Middle	3.2	0.4	215	24.9	24.9	7.8	7.8	29.9	29.9	98.7	98.7	6.9		9.1		13		87				<0.2		1.1	
						3.2	0.5	232	24.9		7.8		29.9		98.7		6.9		9.0		13		88				<0.2		1.0	
					Bottom	5.4	0.4	228	25.0	25.0	7.8	7.8	29.7	29.7	101.4	101.5	7.1	7.1	10.1		13		90				<0.2		0.9	
						5.4	0.5	232	25.0		7.8		29.7		101.5		7.1		10.2		13		91				<0.2		0.9	
IM7	Rainy	Moderate	09:33	6.8	Surface	1.0	0.4	210	25.3	25.3	7.8	7.8	30.2	30.2	94.3	94.3	6.5	6.5	8.2	10.9	13	19	86	89	821335	806852	<0.2	<0.2	0.8	0.9
						1.0	0.4	228	25.3		7.8		30.2		94.2		6.5		8.1		12		87				<0.2		0.8	
					Middle	3.4	0.4	214	25.3	25.3	7.8	7.8	30.2	30.2	94.4	94.4	6.5		9.0		22		88				<0.2		1.0	
						3.4	0.4	232	25.3		7.8		30.2		94.4		6.5		9.2		22		89				<0.2		0.9	
					Bottom	5.8	0.4	216	25.3	25.3	7.8	7.8	30.0	30.0	96.6	96.7	6.7	6.7	15.5		24		92				<0.2		0.9	
						5.8	0.4	230	25.3		7.8		29.9		96.7		6.7		15.4		22		93				<0.2		1.0	
IM8	Rainy	Moderate	09:17	6.8	Surface	1.0	0.6	184	22.4	22.4	8.0	8.0	30.5	30.5	100.1	100.2	7.3	7.4	5.3	5.0	6	5	85	91	821704	807825	<0.2	<0.2	1.3	1.1
						1.0	0.6	193	22.4		8.0		30.5		100.2		7.3		5.3		5		85				<0.2		1.1	
					Middle	3.4	0.4	196	22.4	22.4	8.0	8.0	30.5	30.5	101.2	101.3	7.4		5.1		6		92				<0.2		1.0	
						3.4	0.5	203	22.4		8.0		30.5		101.3		7.4		5.1		5		92				<0.2		1.0	
					Bottom	5.8	0.5	220	22.4	22.4	7.9	7.9	30.6	30.6	104.1	104.2	7.6	7.6	4.5		5		95				<0.2		1.2	
						5.8	0.5	230	22.4		7.9		30.6		104.2		7.6		4.4		5		95				<0.2		1.0	

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 10 November 16 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
IM9	Rainy	Moderate	09:08	6.8	Surface	1.0	0.6	170	22.2	22.2	8.0	8.0	30.4	30.4	100.5	100.5	7.3	7.4	3.1	3.8	3	4	86	91	822092	808828	<0.2	<0.2	1.1	1.0
						1.0	0.6	183	22.2		8.0		30.4		100.5		7.3		3.0		4		86				<0.2		1.0	
					Middle	3.4	0.5	172	22.3	22.3	8.0	8.0	30.4	30.4	101.1	101.1	7.4		3.6		4		92				<0.2		0.8	
						3.4	0.5	175	22.3		8.0		30.4		101.1		7.4		3.6		3		92				<0.2		0.9	
					Bottom	5.8	0.4	205	22.3	22.3	8.0	8.0	30.7	30.7	103.8	104.0	7.6	7.6	5.0		5		95				<0.2		1.1	
						5.8	0.5	205	22.3		7.9		30.7		104.1		7.6		4.7		5		95				<0.2		1.2	
IM10	Rainy	Moderate	08:58	7.1	Surface	1.0	0.5	151	22.4	22.4	8.0	8.0	30.6	30.6	98.8	98.9	7.2	7.2	4.2	5.5	3	7	87	92	822230	809829	<0.2	<0.2	0.8	0.9
						1.0	0.5	163	22.4		8.0		30.6		98.9		7.2		4.2		3		87				<0.2		0.8	
					Middle	3.6	0.4	142	22.4	22.4	8.0	8.0	30.6	30.6	98.9	99.0	7.2		5.4		7		93				<0.2		1.1	
						3.6	0.5	147	22.4		8.0		30.6		99.0		7.2		5.4		8		93				<0.2		0.9	
					Bottom	6.1	0.3	175	22.4	22.4	8.0	8.0	30.8	30.8	100.0	100.0	7.3	7.3	6.8		10		95				<0.2		0.9	
						6.1	0.3	183	22.4		8.0		30.8		100.0		7.3		6.8		8		94				<0.2		0.8	
IM11	Rainy	Moderate	08:47	6.9	Surface	1.0	0.4	129	22.3	22.3	8.0	8.0	30.6	30.6	99.0	99.0	7.2	7.2	3.7	6.0	2	10	89	92	821514	810530	<0.2	<0.2	0.8	0.9
						1.0	0.4	131	22.3		8.0		30.6		99.0		7.2		3.8		4		88				<0.2		0.9	
					Middle	3.5	0.4	115	22.4	22.4	8.0	8.0	30.8	30.8	98.9	98.9	7.2		5.4		7		93				<0.2		1.0	
						3.5	0.4	124	22.4		8.0		30.8		98.9		7.2		5.5		9		93				<0.2		0.9	
					Bottom	5.9	0.4	96	22.5	22.5	8.0	8.0	31.1	31.1	100.1	100.2	7.3	7.3	8.8		18		95				<0.2		0.9	
						5.9	0.4	96	22.5		8.0		31.1		100.2		7.3		8.9		20		94				<0.2		1.0	
IM12	Rainy	Moderate	08:36	8.9	Surface	1.0	0.5	117	22.6	22.6	7.9	7.9	30.7	30.7	95.3	95.3	6.9	6.9	5.1	6.2	9	9	88	92	821156	811536	<0.2	<0.2	0.9	0.9
						1.0	0.5	121	22.6		7.9		30.7		95.3		6.9		5.2		7		89				<0.2		0.8	
					Middle	4.5	0.4	123	22.6	22.6	7.9	7.9	30.7	30.7	95.2	95.3	6.9		5.7		9		93				<0.2		0.9	
						4.5	0.4	124	22.6		7.9		30.7		95.3		6.9		5.8		7		92				<0.2		0.9	
					Bottom	7.9	0.3	129	22.7	22.7	7.9	7.9	30.8	30.8	95.7	95.7	6.9	6.9	7.8		12		95				<0.2		0.8	
						7.9	0.3	136	22.7		7.9		30.8		95.7		6.9		7.8		10		95				<0.2		0.9	
SR2	Rainy	Moderate	08:09	4.5	Surface	1.0	0.5	122	22.8	22.8	7.9	7.9	31.2	31.2	93.2	93.2	6.7	6.7	5.6	6.8	8	10	89	92	821447	814156	<0.2	<0.2	0.8	0.8
						1.0	0.5	134	22.8		7.9		31.2		93.2		6.7		5.6		9		86				<0.2		0.9	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.5	111	22.9	22.9	7.9	7.9	31.3	31.3	94.4	94.4	6.8	6.8	7.9		11		96				<0.2		0.8	
						3.5	0.5	117	22.9		7.9		31.3		94.4		6.8		7.9		13		96				<0.2		0.8	
SR3	Rainy	Moderate	09:25	8.4	Surface	1.0	0.6	189	22.3	22.3	8.0	8.0	30.5	30.5	98.5	98.5	7.2	7.2	6.1	9.1	6	9	-	-	822140	807576	-	-	-	-
						1.0	0.6	206	22.3		8.0		30.5		98.4		7.2		6.2		8		-				-		-	
					Middle	4.2	0.4	191	22.3	22.3	8.0	8.0	30.5	30.5	98.7	98.7	7.2		9.2		9		-				-		-	
						4.2	0.5	198	22.3		8.0		30.5		98.7		7.2		9.3		11		-				-		-	
					Bottom	7.4	0.3	205	22.5	22.5	8.0	8.0	30.8	30.8	99.6	99.9	7.2	7.3	11.8		9		-				-		-	
						7.4	0.3	210	22.5		8.0		30.8		100.2		7.3		12.0		9		-				-		-	
SR4A	Rainy	Moderate	07:51	7.8	Surface	1.0	0.2	178	25.0	25.0	7.8	7.8	30.4	30.4	95.4	95.4	6.6	6.7	7.5	8.2	12	11	-	-	817189	807814	-	-	-	-
						1.0	0.3	189	25.0		7.8		30.4		95.4		6.6		7.5		11		-				-		-	
					Middle	3.9	0.2	173	25.0	25.0	7.8	7.8	30.4	30.4	95.8	95.8	6.7		7.6		11		-				-		-	
						3.9	0.3	184	25.0		7.8		30.4		95.8		6.7		7.7		10		-				-		-	
					Bottom	6.8	0.2	156	25.1	25.1	7.8	7.8	30.4	30.4	96.4	96.5	6.7	6.7	9.4		12		-				-		-	
						6.8	0.3	169	25.1		7.8		30.4		96.5		6.7		9.5		10		-				-		-	
SR5A	Rainy	Moderate	12:32	3.5	Surface	1.0	0.1	152	24.8	24.8	7.7	7.7	29.1	29.0	91.6	91.9	6.4	6.5	4.5	4.8	4	5	-	-	816592	810714	-	-	-	-
						1.0	0.1	158	24.8		7.7		28.8		92.2		6.5		4.9		5		-				-		-	
					Middle	1.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.5	0.1	145	24.8	24.8	7.7	7.7	28.8	28.8	92.2	92.3	6.5	6.5	4.9		5		-				-		-	
						2.5	0.2	158	24.8		7.6		28.8		92.3		6.5		4.9		6		-				-		-	
SR6	Fine	Moderate	07:04	3.9	Surface	1.0	0.3	127	24.7	24.7	7.6	7.6	28.7	28.7	95.6	95.6	6.8	6.8	4.1		7		-				-		-	
						1.0	0.3	131	24.7		7.6		28.7		95.6		6.8		4.2		6		-				-		-	
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.2	138	24.7	24.7	7.4	7.4	28.0	28.0	100.5	100.6	7.1	7.1	4.1		6		-				-		-	
						2.9	0.2	151	24.6		7.4		28.0		100.7		7.1		4.1		6		-				-		-	
SR7	Cloudy	Moderate	07:06	19.3	Surface	1.0	0.4	67	23.2	23.2	7.9	7.9	31.6	31.6	92.3	92.3	6.6	6.6	4.1	4.9	7	7	-	-	823650	823755	-	-	-	-
						1.0	0.4	68	23.2		7.9		31.6		92.3		6.6		4.2		5		-				-		-	
					Middle	9.7	0.8	67	23.2	23.2	7.9	7.9	31.7	31.7	92.4	92.4	6.6		4.5		7		-				-		-	
						9.7	0.9	67	23.2		7.9		31.7		92.4		6.6		4.5		6		-				-		-	
					Bottom	18.3	1.6	79	23.2	23.2	7.9	7.9	31.7	31.7	93.2	93.3	6.6	6.6	6.1		9		-				-		-	
						18.3	1.7	82	23.2		7.9		31.7		93.3		6.6		6.2		7		-				-		-	
SR8	Rainy	Moderate	08:28	4.9	Surface	1.0	0.3	160	23.0	23.0	7.9	7.9	30.7	30.7	93.4	93.4	6.7	6.7	8.4	11.0	5	9	-	-	820426	811596	-	-	-	-
						1.0	0.3	170	23.0		7.9		30.7		93.4		6.7		8.3		6		-				-		-	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.2	161	22.9	22.9	7.9	7.9	30.9	30.9	95.5	95.6	6.9	6.9	13.6		14		-				-		-	
						3.9	0.3	170	22.9		7.9		30.9		95.6		6.9		13.6		12		-				-		-	

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 12 November 16 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	Fine	Moderate	16:28	7.8	Surface	1.0	0.4	214	24.9	24.9	8.0	8.0	31.4	31.4	100.4	100.4	6.9	6.9	8.2	11.8	11	16	86	91	815638	804264	<0.2	<0.2	0.8	0.7
						1.0	0.5	214			8.0		31.4		100.3		6.9		8.3		12		87				<0.2		0.8	
					Middle	3.9	0.3	226	24.8	24.8	7.9	7.9	31.2	31.2	99.7	99.7	6.9		12.1		11		90				<0.2		0.6	
						3.9	0.3	239	24.8		7.9		31.1		99.7		6.9		12.2		13		92				<0.2		0.6	
					Bottom	6.8	0.4	217	24.7	24.7	7.9	7.9	30.7	30.7	101.2	101.3	7.1	7.1	14.9		26		94				<0.2		0.7	
						6.8	0.4	229	24.7		7.9		30.7		101.3		7.1		14.8		24		95				<0.2		0.8	
C2	Fine	Moderate	15:24	9.1	Surface	1.0	0.9	190	22.3	22.3	7.9	7.9	29.8	29.8	95.9	95.9	7.0	7.0	5.5	10.5	4	7	84	90	825669	806937	<0.2	<0.2	1.0	0.9
						1.0	1.0	195	22.3		7.9		29.8		95.9		7.0		5.6		3		84				<0.2		1.0	
					Middle	4.6	0.7	189	22.2	22.2	7.9	7.9	30.5	30.5	94.9	94.9	6.9		9.0		5		93				<0.2		0.9	
						4.6	0.7	200	22.2		7.9		30.4		94.9		6.9		9.0		7		92				<0.2		0.9	
					Bottom	8.1	0.6	185	22.0	22.0	7.9	7.9	30.6	30.6	94.4	94.4	6.9	6.9	16.9		11		95				<0.2		0.8	
						8.1	0.6	197	22.0		7.9		30.6		94.4		6.9		16.8		12		94				<0.2		0.9	
C3	Fine	Moderate	17:28	11.0	Surface	1.0	0.4	258	22.4	22.4	8.0	8.0	31.6	31.6	95.4	95.4	6.9	6.9	5.8	10.1	6	8	88	92	822116	817801	<0.2	<0.2	0.8	0.7
						1.0	0.4	266	22.4		8.0		31.6		95.4		6.9		5.8		5		87				<0.2		0.7	
					Middle	5.5	0.4	251	22.1	22.1	8.0	8.0	31.6	31.6	95.0	95.0	6.9		8.2		10		94				<0.2		0.8	
						5.5	0.4	270	22.1		8.0		31.6		95.0		6.9		8.2		9		93				<0.2		0.6	
					Bottom	10.0	0.3	255	22.0	22.0	8.0	8.0	31.6	31.6	94.5	94.5	6.9	6.9	16.2		9		96				<0.2		0.7	
						10.0	0.4	273	22.0		8.0		31.6		94.5		6.9		16.1		9		95				<0.2		0.8	
IM1	Fine	Moderate	16:06	6.8	Surface	1.0	0.5	204	24.6	24.6	8.0	8.0	31.3	31.3	97.5	97.5	6.8	6.8	6.9	8.4	12	13	86	89	818357	806448	<0.2	<0.2	0.8	0.9
						1.0	0.5	206	24.6		8.0		31.3		97.5		6.8		7.0		12		86				<0.2		0.9	
					Middle	3.4	0.5	200	24.5	24.5	7.9	7.9	31.2	31.2	97.4	97.4	6.8		8.6		12		89				<0.2		0.9	
						3.4	0.5	219	24.5		7.9		31.2		97.4		6.8		8.6		12		89				<0.2		0.9	
					Bottom	5.8	0.5	204	24.4	24.4	7.9	7.9	31.0	31.0	98.8	98.9	6.9	6.9	9.8		15		91				<0.2		0.9	
						5.8	0.5	215	24.4		7.9		31.0		98.9		6.9		9.5		16		92				<0.2		0.8	
IM2	Fine	Moderate	16:00	7.4	Surface	1.0	0.7	222	24.6	24.6	7.9	7.9	30.9	30.9	97.5	97.5	6.8	6.8	9.0	10.3	14	17	88	91	818865	806204	<0.2	<0.2	1.1	1.1
						1.0	0.8	231	24.6		7.9		30.9		97.5		6.8		9.0		15		88				<0.2		0.9	
					Middle	3.7	0.7	216	24.6	24.6	7.9	7.9	30.8	30.8	97.5	97.5	6.8		10.3		15		90				<0.2		0.9	
						3.7	0.7	231	24.6		7.9		30.8		97.5		6.8		10.4		14		91				<0.2		1.1	
					Bottom	6.4	0.6	214	24.6	24.6	7.9	7.9	30.6	30.6	99.1	99.2	6.9	6.9	11.6		22		94				<0.2		1.1	
						6.4	0.7	228	24.6		7.9		30.6		99.2		6.9		11.5		22		93				<0.2		1.2	
IM3	Fine	Moderate	15:53	5.2	Surface	1.0	0.6	216	24.6	24.6	7.9	7.9	30.9	30.9	96.6	96.6	6.7	6.8	17.5	19.5	27	26	86	89	819430	806010	<0.2	<0.2	1.3	1.1
						1.0	0.7	218	24.6		7.9		30.9		96.5		6.7		17.5		25		86				<0.2		1.3	
					Middle	2.6	0.6	218	24.6	24.6	7.9	7.9	30.8	30.8	96.9	96.9	6.8		20.2		27		89				<0.2		1.2	
						2.6	0.6	218	24.6		7.9		30.8		96.8		6.8		20.1		25		90				<0.2		1.2	
					Bottom	4.2	0.7	219	24.6	24.7	7.9	7.9	30.6	30.6	97.7	97.7	6.8	6.8	20.9		26		92				<0.2		0.7	
						4.2	0.7	232	24.7		7.9		30.6		97.7		6.8		20.7		24		92				<0.2		0.6	
IM4	Fine	Moderate	15:45	7.2	Surface	1.0	0.6	221	24.7	24.7	7.9	7.9	31.1	31.1	98.9	98.9	6.9	6.9	8.3	12.9	19	23	86	89	819570	805046	<0.2	<0.2	0.7	0.8
						1.0	0.6	222	24.7		7.9		31.1		98.9		6.9		8.5		17		86				<0.2		0.7	
					Middle	3.6	0.6	216	24.6	24.6	7.9	7.9	31.1	31.1	98.9	99.0	6.9		12.0		19		88				<0.2		0.9	
						3.6	0.6	216	24.6		7.9		31.1		99.0		6.9		12.1		19		88				<0.2		1.0	
					Bottom	6.2	0.5	217	24.6	24.6	7.9	7.9	30.8	30.8	100.5	100.5	7.0	7.0	18.4		32		91				<0.2		0.7	
						6.2	0.5	227	24.6		7.9		30.8		100.5		7.0		17.9		30		92				<0.2		0.6	
IM5	Fine	Moderate	15:38	6.2	Surface	1.0	0.6	216	24.5	24.5	7.9	7.9	31.3	31.3	98.8	98.8	6.9	6.9	13.4	18.2	21	23	85	87	820578	804943	<0.2	<0.2	0.9	0.9
						1.0	0.6	222	24.5		7.9		31.3		98.8		6.9		13.6		23		85				<0.2		1.0	
					Middle	3.1	0.6	217	24.5	24.5	7.9	7.9	31.2	31.2	98.6	98.7	6.9		17.5		22		87				<0.2		0.8	
						3.1	0.6	228	24.5		7.9		31.2		98.7		6.9		17.5		21		87				<0.2		0.9	
					Bottom	5.2	0.5	217	24.4	24.4	7.9	7.9	31.2	31.2	98.4	98.4	6.9	6.9	23.8		25		88				<0.2		0.8	
						5.2	0.6	229	24.4		7.9		31.2		98.4		6.9		23.6		23		89				<0.2		1.0	
IM6	Fine	Moderate	15:30	6.2	Surface	1.0	0.5	229	24.6	24.6	7.9	7.9	30.9	30.9	98.6	98.6	6.9	6.9	7.5	9.0	13	16	86	89	821044	805844	<0.2	<0.2	1.1	1.0
						1.0	0.5	233	24.6		7.9		30.9		98.6		6.9		7.6		12		87				<0.2		1.0	
					Middle	3.1	0.4	225	24.6	24.6	7.9	7.9	30.9	30.9	98.9	98.9	6.9		8.3		16		89				<0.2		0.9	
						3.1	0.4	235	24.6		7.9		30.9		98.9		6.9		8.4		16		90				<0.2		0.8	
					Bottom	5.2	0.4	217	24.5	24.5	7.9	7.9	30.7	30.7	100.1	100.2	7.0	7.0	11.0		21		92				<0.2		0.9	
						5.2	0.4	234	24.5		7.9		30.7		100.2		7.0		10.9		20		92				<0.2		1.1	
IM7	Fine	Moderate	15:24	7.3	Surface	1.0	0.9	212	24.8	24.8	7.9	7.9	30.7	30.7	97.3	97.3	6.8	6.8	7.9	15.7	12	24	86	88	821365	806822	<0.2	<0.2	1.2	1.0
						1.0	0.9	217	24.8		7.9		30.7		97.3		6.8		8.0		14		86				<0.2		1.0	
					Middle	3.7	0.7	220	24.7	24.7	7.9	7.9	30.6	30.6	96.8	96.8	6.8		15.1		23		88				<0.2		0.8	
						3.7	0.7	228	24.7		7.9		30.6		96.8		6.8		15.2		25		88				<0.2		0.8	
					Bottom	6.3	0.7	213	24.5	24.5	7.9	7.9	30.5	30.5	97.0	97.0	6.8	6.8	24.0		34		91				<0.2		1.1	
						6.3	0.7	213	24.5		7.9		30.5		97.0		6.8		24.2		36		91				<0.2		1.1	
IM8	Fine	Moderate	15:59	7.6	Surface	1.0	0.6	203	22.4	22.4	8.0	8.0	31.2	31.2	97.4	97.4	7.1	7.1	6.6	15.2	20	23	85	91	821694	807821	<0.2	<0.2	1.1	1.2
						1.0	0.6	210	22.4		8.0		31.2		97.4		7.1		6.7		18		85				<0.2		1.1	
					Middle	3.8	0.5	210	22.0	22.0	8.0	8.0	31.3	31.3	95.5	95.5	7.0		13.7		25		93				<0.2		1.0	
						3.8	0.6	218	22.0		8.0		31.3		95.5		7.0		13.7		25		92				<0.2		1.2	
					Bottom	6.6	0.4	207	21.9	21.9	8.0	8.0	31.3	31.3	95.1	95.1	6.9	6.9	25.2		23		94				<0.2		1.4	
						6.6	0.4	224	21.9		8.0		31.3		95.1		6.9		25.1		24		95				<0.2		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 12 November 16 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	Fine	Moderate	16:10	6.5	Surface	1.0	0.5	201	22.5	22.5	8.0	8.0	31.2	31.2	97.2	97.2	7.0	7.0	4.6	9.7	6	9	85	91	822093	808825	<0.2	<0.2	1.1	1.1
						1.0	0.5	209	22.5		8.0		31.2		97.2		7.0		4.6		7		86				<0.2		1.0	
					Middle	3.3	0.4	201	22.3	22.3	8.0	8.0	31.3	31.3	96.6	96.6	7.0		6.4		9		92				<0.2		1.2	
						3.3	0.4	213	22.3		8.0		31.3		96.6		7.0		6.4		11		93				<0.2		1.3	
					Bottom	5.5	0.3	202	22.0	22.0	8.0	8.0	31.3	31.3	95.8	95.8	7.0	7.0	18.1		11		95				<0.2		1.1	
						5.5	0.4	203	22.0		8.0		31.3		95.8		7.0		18.1		10		95				<0.2		1.1	
IM10	Fine	Moderate	16:19	5.2	Surface	1.0	0.3	178	22.6	22.6	8.0	8.0	31.2	31.2	96.6	96.6	7.0	7.0	4.8	8.5	10	10	86	91	822229	809850	<0.2	<0.2	1.3	1.2
						1.0	0.4	189	22.6		8.0		31.2		96.6		7.0		4.8		8		86				<0.2		1.1	
					Middle	2.6	0.3	184	22.2	22.2	8.0	8.0	31.3	31.3	95.3	95.3	6.9		8.7		12		93				<0.2		1.1	
						2.6	0.3	188	22.2		8.0		31.3		95.3		6.9		8.8		10		93				<0.2		1.0	
					Bottom	4.2	0.3	185	22.1	22.1	8.0	8.0	31.3	31.3	95.4	95.4	6.9	6.9	12.0		10		95				<0.2		1.5	
						4.2	0.3	185	22.1		8.0		31.3		95.4		6.9		11.9		10		95				<0.2		1.3	
IM11	Fine	Moderate	16:28	7.8	Surface	1.0	0.4	213	22.3	22.3	8.0	8.0	31.3	31.3	97.1	97.1	7.0	7.1	6.4	9.1	13	13	86	91	821503	810529	<0.2	<0.2	1.7	1.4
						1.0	0.4	227	22.3		8.0		31.3		97.1		7.0		6.4		11		86				<0.2		1.5	
					Middle	3.9	0.3	216	22.0	22.0	8.0	8.0	31.2	31.2	96.5	96.5	7.1		9.3		11		93				<0.2		1.6	
						3.9	0.4	216	21.9		8.0		31.2		96.5		7.1		9.4		10		93				<0.2		1.6	
					Bottom	6.8	0.3	206	21.7	21.7	8.0	8.0	31.3	31.3	96.6	96.6	7.1	7.1	11.4		16		94				<0.2		1.1	
						6.8	0.3	207	21.7		8.0		31.3		96.6		7.1		11.4		15		95				<0.2		1.0	
IM12	Fine	Moderate	16:38	8.0	Surface	1.0	0.3	209	22.2	22.2	8.0	8.0	31.2	31.2	98.5	98.5	7.2	7.2	5.7	7.5	13	13	87	92	821174	811522	<0.2	<0.2	1.3	1.1
						1.0	0.3	211	22.2		8.0		31.2		98.5		7.2		5.6		12		87				<0.2		1.3	
					Middle	4.0	0.2	237	21.8	21.8	8.0	8.0	31.4	31.4	98.6	98.6	7.2		7.9		10		93				<0.2		1.0	
						4.0	0.3	246	21.8		8.0		31.4		98.6		7.2		7.9		12		93				<0.2		1.0	
					Bottom	7.0	0.3	224	21.7	21.7	8.0	8.0	31.6	31.6	98.7	98.7	7.2	7.2	9.0		13		95				<0.2		1.0	
						7.0	0.3	229	21.7		8.0		31.6		98.7		7.2		9.0		15		95				<0.2		1.1	
SR2	Fine	Moderate	17:03	4.1	Surface	1.0	0.3	287	22.1	22.1	8.0	8.0	31.6	31.6	99.4	99.4	7.2	7.2	7.5	9.9	10	14	88	91	821468	814163	<0.2	<0.2	0.8	0.8
						1.0	0.3	294	22.1		8.0		31.6		99.4		7.2		7.6		12		87				<0.2		0.8	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.3	275	21.8	21.8	8.0	8.0	31.7	31.7	99.8	99.8	7.3	7.3	12.4		15		95				<0.2		0.7	
						3.1	0.3	283	21.8		8.0		31.7		99.8		7.3		12.2		17		95				<0.2		0.7	
SR3	Fine	Moderate	15:53	8.1	Surface	1.0	0.7	196	22.5	22.5	8.0	8.0	30.9	30.9	97.7	97.7	7.1	7.1	5.7	16.8	7	9	-	-	822138	807569	-	-	-	-
						1.0	0.7	213	22.5		8.0		30.9		97.7		7.1		5.7		9		-				-		-	
					Middle	4.1	0.6	204	22.1	22.1	8.0	8.0	31.2	31.2	95.8	95.8	7.0		13.4		7		-				-		-	
						4.1	0.6	208	22.1		8.0		31.2		95.8		7.0		13.5		8		-				-		-	
					Bottom	7.1	0.4	206	22.0	22.0	8.0	8.0	31.2	31.2	94.9	94.9	6.9	6.9	31.3		13		-				-		-	
						7.1	0.5	218	22.0		8.0		31.2		94.9		6.9		31.1		11		-				-		-	
SR4A	Fine	Moderate	16:52	7.5	Surface	1.0	0.6	251	24.4	24.5	7.9	7.9	30.7	30.7	96.9	96.9	6.8	6.8	17.2	17.6	27	28	-	-	817178	807806	-	-	-	-
						1.0	0.6	259	24.5		7.9		30.7		96.8		6.8		16.9		25		-				-		-	
					Middle	3.8	0.6	250	24.4	24.4	7.9	7.9	30.5	30.6	97.2	97.2	6.8		17.5		29		-				-		-	
						3.8	0.6	267	24.4		7.9		30.6		97.2		6.8		17.7		29		-				-		-	
					Bottom	6.5	0.5	254	24.5	24.5	7.8	7.8	30.2	30.2	99.3	99.4	7.0	7.0	18.2		28		-				-		-	
						6.5	0.5	261	24.5		7.8		30.2		99.4		7.0		18.2		28		-				-		-	
SR5A	Fine	Moderate	17:11	3.7	Surface	1.0	0.3	286	24.4	24.4	7.8	7.8	30.0	30.0	95.5	95.5	6.7	6.7	18.1	13.3	18	19	-	-	816575	810704	-	-	-	-
						1.0	0.3	310	24.4		7.8		30.0		95.5		6.7		18.1		20		-				-		-	
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.3	287	24.4	24.4	7.8	7.8	29.7	29.7	97.6	97.7	6.9	6.9	8.5		20		-				-		-	
						2.7	0.3	298	24.4		7.8		29.7		97.7		6.9		8.5		19		-				-		-	
SR6	Fine	Moderate	17:37	3.9	Surface	1.0	0.2	224	25.3	25.3	7.8	7.8	30.2	30.2	96.4	96.5	6.7	6.7	13.3	13.8	23	24	-	-	817881	814658	-	-	-	-
						1.0	0.2	229	25.3		7.8		30.2		96.5		6.7		13.2		23		-				-		-	
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.2	258	25.3	25.3	7.7	7.7	29.8	29.8	100.7	101.0	7.0	7.0	14.3		23		-				-		-	
						2.9	0.2	274	25.3		7.7		29.8		101.2		7.0		14.2		25		-				-		-	
SR7	Fine	Moderate	18:08	20.1	Surface	1.0	0.3	91	22.8	22.8	8.0	8.0	32.0	32.0	91.5	91.6	6.6	6.6	8.1	7.4	11	14	-	-	823632	823752	-	-	-	-
						1.0	0.3	97	22.8		8.0		32.0		91.6		6.6		7.9		12		-				-		-	
					Middle	10.1	0.4	72	22.8	22.8	8.0	8.0	32.0	32.0	91.4	91.4	6.5		7.1		14		-				-		-	
						10.1	0.4	73	22.8		8.0		32.0		91.4		6.5		7.2		14		-				-		-	
					Bottom	19.1	0.3	57	22.9	22.9	8.0	8.0	31.9	31.9	91.8	91.9	6.6	6.6	7.1		16		-				-		-	
						19.1	0.3	61	22.9		8.0		31.9		91.9		6.6		7.2		18		-				-		-	
SR8	Fine	Moderate	16:46	4.7	Surface	1.0	0.3	238	22.2	22.2	8.0	8.0	31.2	31.2	99.7	99.7	7.3	7.3	6.0	9.3	8	9	-	-	820397	811597	-	-	-	-
						1.0	0.3	258	22.2		8.0		31.2		99.7		7.3		6.0		8		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.3	252	21.8	21.8	8.0	8.0	31.5	31.5	97.9	97.9	7.2	7.2	12.6		9		-				-		-	
						3.7	0.3	252	21.8		8.0		31.5		97.9		7.2		12.6		10		-				-		-	

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 12 November 16 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	Fine	Moderate	10:11	8.5	Surface	1.0	0.6	224	25.1	25.1	7.9	7.9	31.3	31.3	99.2	99.2	6.8	6.9	7.2	11.8	13	19	85	88	815620	804241	<0.2	<0.2	0.7	0.8
						1.0	0.7	240	25.1		7.9		31.3		99.2		6.8		7.3		12		85				<0.2		0.8	
					Middle	4.3	0.6	228	24.7	24.7	7.8	7.8	31.0	31.0	98.6	98.6	6.9		12.5		22		88				<0.2		0.6	
						4.3	0.7	248	24.7		7.8		31.0		98.6		6.9		12.5		20		88				<0.2		0.7	
					Bottom	7.5	0.6	219	24.7	24.7	7.8	7.8	30.4	30.4	100.8	100.9	7.0	7.1	15.5		24		91				<0.2		0.9	
						7.5	0.6	224	24.7		7.8		30.4		100.9		7.1		15.5		25		92				<0.2		0.9	
C2	Fine	Moderate	12:01	11.2	Surface	1.0	0.9	169	22.2	22.2	8.0	8.0	30.6	30.6	95.8	95.8	7.0	6.9	4.6	14.1	6	6	85	91	825683	806954	<0.2	<0.2	1.1	1.2
						1.0	0.9	177	22.2		8.0		30.6		95.7		7.0		4.7		6		85				<0.2		1.2	
					Middle	5.6	0.8	167	22.1	22.1	8.0	8.0	31.1	31.1	93.8	93.8	6.8		8.4		8		92				<0.2		1.3	
						5.6	0.8	169	22.1		8.0		31.1		93.8		6.8		8.4		6		93				<0.2		1.3	
					Bottom	10.2	0.7	167	22.1	22.1	8.0	8.0	31.4	31.4	92.9	92.9	6.8	6.8	29.6		6		95				<0.2		1.0	
						10.2	0.7	177	22.1		8.0		31.4		92.9		6.8		28.9		6		95				<0.2		1.0	
C3	Fine	Moderate	09:41	11.9	Surface	1.0	0.3	119	22.7	22.7	8.0	8.0	31.8	31.8	91.4	91.4	6.6	6.6	4.9	6.7	6	7	89	93	822097	817798	<0.2	<0.2	0.9	1.0
						1.0	0.3	124	22.7		8.0		31.8		91.3		6.6		5.0		6		89				<0.2		1.0	
					Middle	6.0	0.4	96	22.7	22.7	8.0	8.0	31.8	31.8	91.1	91.1	6.5		5.9		6		92				<0.2		0.9	
						6.0	0.4	104	22.7		8.0		31.8		91.1		6.5		5.9		8		94				<0.2		0.9	
					Bottom	10.9	0.5	74	22.8	22.8	8.0	8.0	32.0	32.0	91.6	91.8	6.6	6.6	9.1		9		95				<0.2		1.3	
						10.9	0.5	76	22.8		7.9		32.0		91.9		6.6		9.2		8		96				<0.2		1.1	
IM1	Fine	Moderate	10:37	5.2	Surface	1.0	0.7	188	24.5	24.5	7.9	7.9	31.1	31.1	97.8	97.8	6.8	6.8	10.8	14.3	19	24	87	89	818368	806461	<0.2	<0.2	0.8	1.1
						1.0	0.7	200	24.5		7.9		31.1		97.8		6.8		11.0		19		87				<0.2		0.9	
					Middle	2.6	0.6	189	24.5	24.5	7.9	7.9	30.8	30.8	97.9	97.9	6.8		15.7		25		88				<0.2		1.3	
						2.6	0.6	198	24.5		7.9		30.8		97.9		6.8		15.9		23		88				<0.2		1.4	
					Bottom	4.2	0.5	186	24.5	24.5	7.8	7.8	30.5	30.5	99.0	99.1	6.9	6.9	16.1		28		90				<0.2		1.0	
						4.2	0.6	204	24.5		7.8		30.5		99.1		6.9		16.1		30		91				<0.2		1.2	
IM2	Fine	Moderate	10:45	7.8	Surface	1.0	0.7	200	24.6	24.6	7.9	7.9	31.3	31.3	98.8	98.8	6.9	6.9	11.6	12.6	17	19	86	89	818842	806173	<0.2	<0.2	1.2	1.1
						1.0	0.7	218	24.6		7.9		31.3		98.7		6.9		11.5		18		86				<0.2		1.1	
					Middle	3.9	0.7	202	24.6	24.6	7.9	7.9	31.2	31.2	98.7	98.8	6.9		11.9		19		89				<0.2		1.0	
						3.9	0.8	211	24.6		7.9		31.2		98.8		6.9		12.1		19		89				<0.2		1.0	
					Bottom	6.8	0.7	198	24.6	24.6	7.9	7.9	30.9	30.9	99.8	99.8	7.0	7.0	14.2		21		92				<0.2		1.2	
						6.8	0.7	213	24.6		7.9		30.9		99.8		7.0		14.0		22		92				<0.2		1.2	
IM3	Fine	Moderate	10:54	7.9	Surface	1.0	0.7	217	24.6	24.6	7.9	7.9	31.3	31.3	99.1	99.1	6.9	6.9	9.8	12.6	10	16	87	90	819397	806004	<0.2	<0.2	1.1	1.2
						1.0	0.7	234	24.6		7.9		31.3		99.1		6.9		9.9		11		88				<0.2		1.2	
					Middle	4.0	0.7	215	24.6	24.6	7.9	7.9	31.3	31.3	99.0	99.0	6.9		12.2		16		90				<0.2		1.2	
						4.0	0.7	229	24.6		7.9		31.3		99.0		6.9		12.4		17		92				<0.2		1.2	
					Bottom	6.9	0.7	210	24.6	24.6	7.9	7.9	31.3	31.3	99.0	99.0	6.9	6.9	15.6		21		92				<0.2		1.2	
						6.9	0.8	216	24.6		7.9		31.2		99.0		6.9		15.5		22		93				<0.2		1.3	
IM4	Fine	Moderate	11:00	7.4	Surface	1.0	0.7	214	24.6	24.6	7.9	7.9	31.5	31.5	99.4	99.4	6.9	6.9	17.6	20.6	28	30	87	89	819573	805023	<0.2	<0.2	1.3	1.0
						1.0	0.7	230	24.6		7.9		31.5		99.4		6.9		17.6		26		87				<0.2		1.2	
					Middle	3.7	0.6	213	24.6	24.6	7.9	7.9	31.4	31.4	99.4	99.4	6.9		20.2		28		89				<0.2		0.9	
						3.7	0.6	219	24.6		7.9		31.4		99.4		6.9		20.4		30		89				<0.2		0.8	
					Bottom	6.4	0.6	211	24.6	24.6	7.9	7.9	31.1	31.1	100.6	100.6	7.0	7.0	24.1		35		92				<0.2		0.8	
						6.4	0.6	223	24.6		7.9		31.0		100.6		7.0		23.6		34		92				<0.2		0.8	
IM5	Fine	Moderate	11:12	6.3	Surface	1.0	0.6	208	24.6	24.6	7.9	7.9	31.4	31.4	100.2	100.2	7.0	7.0	11.3	13.7	18	22	86	88	820571	804938	<0.2	<0.2	0.6	0.8
						1.0	0.6	222	24.6		7.9		31.4		100.2		7.0		11.3		18		86				<0.2		0.7	
					Middle	3.2	0.5	212	24.6	24.6	7.9	7.9	31.3	31.3	100.0	100.0	7.0		12.9		20		88				<0.2		0.7	
						3.2	0.6	220	24.6		7.9		31.3		100.0		7.0		13.0		20		89				<0.2		0.6	
					Bottom	5.3	0.5	210	24.5	24.5	7.9	7.9	31.3	31.3	99.7	99.7	6.9	6.9	16.7		28		90				<0.2		1.0	
						5.3	0.6	218	24.5		7.9		31.3		99.7		6.9		16.7		27		91				<0.2		1.0	
IM6	Fine	Moderate	11:22	6.2	Surface	1.0	0.5	213	24.6	24.6	7.9	7.9	31.3	31.3	99.1	99.1	6.9	6.9	12.6	17.2	21	26	87	91	821057	805843	<0.2	<0.2	1.0	0.9
						1.0	0.6	220	24.6		7.9		31.3		99.1		6.9		12.7		21		87				<0.2		0.8	
					Middle	3.1	0.5	209	24.5	24.5	7.9	7.9	31.3	31.3	98.9	98.9	6.9		14.4		25		92				<0.2		0.9	
						3.1	0.5	220	24.5		7.9		31.3		98.9		6.9		14.5		26		93				<0.2		0.8	
					Bottom	5.2	0.4	211	24.4	24.4	7.9	7.9	31.2	31.2	98.6	98.6	6.9	6.9	24.4		29		94				<0.2		0.9	
						5.2	0.5	216	24.4		7.9		31.2		98.6		6.9		24.3		31		95				<0.2		1.0	
IM7	Fine	Moderate	11:33	7.7	Surface	1.0	0.7	204	24.7	24.7	7.9	7.9	30.7	30.7	96.9	96.9	6.8	6.8	7.5	11.4	9	11	87	89	821362	806839	<0.2	<0.2	1.2	1.3
						1.0	0.8	210	24.7		7.9		30.6		96.9		6.8		7.5		8		87				<0.2		0.9	
					Middle	3.9	0.7	212	24.5	24.6	7.9	7.9	30.6	30.6	97.2	97.2	6.8		12.2		13		89				<0.2		1.3	
						3.9	0.7	224	24.6		7.9		30.6		97.2		6.8		12.3		12		89				<0.2		1.4	
					Bottom	6.7	0.5	219	24.5	24.5	7.9	7.9	30.4	30.4	98.8	98.9	6.9	6.9	14.5		11		92				<0.2		1.4	
						6.7	0.6	228	24.5		7.9		30.4		98.9		6.9		14.3		11		92				<0.2		1.4	
IM8	Fine	Moderate	11:14	8.0	Surface	1.0	0.6	192	21.9	21.9	8.0	8.0	31.1	31.1	97.7	97.8	7.2	7.2	7.9	13.7	9	12	85	91	821676	807824	<0.2	<0.2	1.3	1.2
						1.0	0.6	198	21.9		8.0		31.1		97.8		7.2		7.9		10		84				<0.2		1.4	
					Middle	4.0	0.5	186	21.7	21.7	8.0	8.0	31.3	31.3	97.7	97.8	7.2		10.6		9		92				<0.2		1.1	
						4.0	0.5	190	21.7		8.0		31.3		97.8		7.2		11.1		9		92				<0.2		1.1	
					Bottom	7.0	0.3	193	21.6	21.6	8.0	8.0	31.7	31.7	98.2	98.2	7.2	7.2	22.5		18		95				<0.2		1.2	
						7.0	0.3	197	21.6		8.0		31.7		98.2		7.2		22.3		16		95				<0.2		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**

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Water Quality Monitoring
Water Quality Monitoring Results on 12 November 16 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	Fine	Moderate	11:05	7.2	Surface	1.0	0.5	179	21.8	21.8	8.0	8.0	31.2	31.2	98.0	98.0	7.2	7.2	6.6	12.3	8	11	85	91	822094	808819	<0.2	<0.2	1.5	1.3
						1.0	0.6	196	21.8		8.0		31.2		98.0		7.2		6.6		8		85				<0.2		1.5	
					Middle	3.6	0.5	155	21.8	21.8	8.0	8.0	31.2	31.2	97.7	97.8	7.2		7.5		10		92				<0.2		1.4	
						3.6	0.5	164	21.8		8.0		31.2		97.8		7.2		7.6		12		93				<0.2		1.4	
					Bottom	6.2	0.4	145	21.5	21.5	8.0	8.0	31.7	31.7	98.3	98.3	7.2	7.2	22.7		14		96				<0.2		0.9	
						6.2	0.4	150	21.5		8.0		31.7		98.3		7.2		22.8		12		95				<0.2		1.0	
IM10	Fine	Moderate	10:55	7.5	Surface	1.0	0.5	152	21.8	21.8	8.0	8.0	31.3	31.3	97.9	97.9	7.2	7.2	5.7	9.3	6	12	86	91	822249	809844	<0.2	<0.2	1.0	1.2
						1.0	0.6	152	21.8		8.0		31.3		97.9		7.2		5.8		8		85				<0.2		1.1	
					Middle	3.8	0.5	127	21.6	21.6	8.0	8.0	31.5	31.5	97.4	97.4	7.1		8.1		11		92				<0.2		1.1	
						3.8	0.5	134	21.6		8.0		31.5		97.4		7.1		8.1		11		93				<0.2		1.2	
					Bottom	6.5	0.4	113	21.6	21.6	8.0	8.0	31.6	31.6	97.7	97.7	7.2	7.2	13.9		20		96				<0.2		1.3	
						6.5	0.4	116	21.6		8.0		31.6		97.6		7.2		14.0		18		95				<0.2		1.3	
IM11	Fine	Moderate	10:44	7.2	Surface	1.0	0.6	106	21.8	21.8	8.0	8.0	31.7	31.7	99.3	99.3	7.3	7.3	7.7	16.8	12	15	86	91	821483	810563	<0.2	<0.2	1.5	0.9
						1.0	0.7	114	21.8		8.0		31.7		99.3		7.3		7.7		12		87				<0.2		1.5	
					Middle	3.6	0.6	93	21.7	21.7	8.0	8.0	31.7	31.7	98.8	98.8	7.2		9.0		15		93				<0.2		0.6	
						3.6	0.6	94	21.7		8.0		31.7		98.8		7.2		9.0		14		92				<0.2		0.7	
					Bottom	6.2	0.5	97	21.6	21.6	8.0	8.0	31.9	31.9	98.5	98.6	7.2	7.2	34.1		17		95				<0.2		0.6	
						6.2	0.5	98	21.6		8.0		31.9		98.6		7.2		33.5		17		95				<0.2		0.7	
IM12	Fine	Moderate	10:33	9.2	Surface	1.0	0.5	94	21.7	21.7	8.0	8.0	31.6	31.6	98.5	98.5	7.2	7.2	6.8	13.2	7	11	87	92	821148	811523	<0.2	<0.2	0.8	1.1
						1.0	0.6	96	21.7		8.0		31.6		98.5		7.2		6.9		6		86				<0.2		0.9	
					Middle	4.6	0.5	97	21.6	21.6	8.0	8.0	31.7	31.7	98.1	98.1	7.2		12.1		10		93				<0.2		1.3	
						4.6	0.6	103	21.6		8.0		31.7		98.1		7.2		12.2		11		93				<0.2		1.2	
					Bottom	8.2	0.5	102	21.6	21.6	8.0	8.0	31.8	31.8	97.8	97.9	7.2	7.2	21.1		17		95				<0.2		1.1	
						8.2	0.5	102	21.6		8.0		31.8		97.9		7.2		20.3		15		95				<0.2		1.2	
SR2	Fine	Moderate	10:08	4.8	Surface	1.0	0.4	68	22.4	22.4	7.9	7.9	31.5	31.5	92.2	92.2	6.7	6.7	9.5	11.2	14	14	87	92	821471	814159	<0.2	<0.2	0.9	0.8
						1.0	0.5	70	22.4		7.9		31.5		92.2		6.7		9.6		14		89				<0.2		0.8	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.4	56	22.4	22.4	7.9	7.9	31.6	31.6	92.8	92.8	6.7	6.7	12.8		13		96				<0.2		0.7	
						3.8	0.4	57	22.4		7.9		31.6		92.8		6.7		12.8		13		95				<0.2		0.7	
SR3	Fine	Moderate	11:21	8.5	Surface	1.0	0.8	225	21.9	21.9	8.0	8.0	31.2	31.2	97.5	97.5	7.1	7.2	7.4	11.0	10	10	-	-	822159	807581	-	-	-	-
						1.0	0.9	243	21.9		8.0		31.2		97.5		7.1		7.4		8		-				-		-	
					Middle	4.3	0.6	179	21.8	21.8	8.0	8.0	31.3	31.3	97.8	97.8	7.2		8.9		11		-				-		-	
						4.3	0.6	179	21.8		8.0		31.3		97.8		7.2		8.9		10		-				-		-	
					Bottom	7.5	0.4	186	21.6	21.6	8.0	8.0	31.8	31.8	98.3	98.3	7.2	7.2	16.6		11		-				-		-	
						7.5	0.4	188	21.6		8.0		31.8		98.3		7.2		16.6		10		-				-		-	
SR4A	Fine	Moderate	09:52	8.1	Surface	1.0	0.3	148	24.4	24.4	7.8	7.8	30.9	30.9	97.1	97.1	6.8	6.8	12.5	13.6	25	24	-	-	817191	807807	-	-	-	-
						1.0	0.3	149	24.3		7.8		30.9		97.1		6.8		12.6		23		-				-		-	
					Middle	4.1	0.3	147	24.3	24.3	7.8	7.8	30.8	30.8	97.5	97.6	6.8		13.8		23		-				-		-	
						4.1	0.3	148	24.3		7.8		30.8		97.6		6.8		13.9		23		-				-		-	
					Bottom	7.1	0.3	160	24.3	24.3	7.8	7.8	30.4	30.4	99.0	99.1	7.0	7.0	14.4		24		-				-		-	
						7.1	0.3	169	24.3		7.8		30.4		99.1		7.0		14.4		25		-				-		-	
SR5A	Fine	Moderate	09:31	3.6	Surface	1.0	0.2	238	24.2	24.4	7.7	7.7	29.6	29.5	95.4	95.2	6.8	6.8	7.6	8.5	8	9	-	-	816588	810713	-	-	-	-
						1.0	0.2	251	24.6		7.7		29.3		94.9		6.7		7.5		9		-				-		-	
					Middle	1.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.1	222	24.4	24.3	7.5	7.5	28.7	28.8	99.4	99.8	7.0	7.1	9.3		10		-				-		-	
						2.6	0.1	233	24.1		7.5		28.9		100.1		7.1		9.4		9		-				-		-	
SR6	Fine	Moderate	09:05	4.3	Surface	1.0	0.2	113	24.9	24.9	7.6	7.6	29.8	29.8	91.4	91.4	6.4	6.4	5.6	6.2	7	11	-	-	817905	814648	-	-	-	-
						1.0	0.2	117	24.9		7.6		29.8		91.4		6.4		5.7		8		-				-		-	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.2	120	24.9	24.9	7.6	7.6	29.7	29.5	93.7	95.1	6.5	6.7	6.5		14		-				-		-	
						3.3	0.2	130	24.9		7.5		29.3		96.5		6.8		7.1		16		-				-		-	
SR7	Fine	Moderate	09:03	20.5	Surface	1.0	0.5	45	22.8	22.8	8.0	8.0	32.1	32.1	92.1	92.1	6.6	6.6	6.6	6.8	8	9	-	-	823630	823761	-	-	-	-
						1.0	0.5	47	22.8		8.0		32.1		92.1		6.6		6.7		7		-				-		-	
					Middle	10.3	0.4	61	22.7	22.7	8.0	8.0	32.2	32.2	92.2	92.2	6.6		7.1		10		-				-		-	
						10.3	0.4	61	22.7		8.0		32.2		92.2		6.6		7.1		8		-				-		-	
					Bottom	19.5	0.5	111	22.7	22.7	8.0	8.0	32.2	32.2	94.3	94.4	6.8	6.8	6.6		10		-				-		-	
						19.5	0.5	121	22.7		8.0		32.2		94.4		6.8		6.6		10		-				-		-	
SR8	Fine	Moderate	10:25	5.2	Surface	1.0	0.3	190.0	22.4	22.4	7.9	7.9	31.2	31.2	95.9	95.9	6.9	6.9	7.7	7.3	9	10	-	-	820421	811580	-	-	-	-
						1.0	0.3	206.0	22.4		7.9		31.2		95.9		6.9		7.7		11		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.3	197.0	21.8	21.8	7.9	7.9	31.5	31.5	95.5	95.6	7.0	7.0	7.3		11		-				-		-	
						4.2	0.3	214.0	21.8		7.9		31.5		95.6		7.0		6.4		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 15 November 16 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
C1	Fine	Moderate	07:09	8.6	Surface	1.0	0.5	69	25.3	25.3	7.9	7.9	30.2	30.3	96.1	96.2	6.6	6.6	13.1	20.1	26	40	87	91	815608	804235	<0.2	<0.2	1.3	1.1
						1.0	0.5	69	25.3		7.9		30.3		96.2		6.7		13.1		25		87				<0.2		1.3	
					Middle	4.3	0.4	83	25.2	25.2	7.9	7.9	30.4	30.4	95.7	95.7	6.6		21.5		41		91				<0.2		1.0	
						4.3	0.4	86	25.2		7.9		30.4		95.7		6.6		21.6		39		92				<0.2		1.1	
					Bottom	7.6	0.4	94	25.3	25.3	7.9	7.9	30.5	30.5	95.6	95.7	6.6	6.6	25.6		53		93				<0.2		0.9	
						7.6	0.4	102	25.2		7.9		30.5		95.7		6.6		25.5		56		94				<0.2		1.1	
C2	Cloudy	Moderate	08:22	11.9	Surface	1.0	0.2	203	22.6	22.6	7.9	7.9	28.0	28.0	90.9	90.9	6.7	6.7	13.8	19.2	17	18	85	90	825671	806940	<0.2	<0.2	1.1	1.3
						1.0	0.2	221	22.6		7.9		28.0		90.9		6.7		13.9		17		84				<0.2		1.1	
					Middle	6.0	0.2	157	22.5	22.5	7.9	7.9	28.2	28.2	90.9	90.9	6.7		17.5		16		92				<0.2		1.4	
						6.0	0.3	165	22.5		7.9		28.2		90.9		6.7		17.5		16		92				<0.2		1.4	
					Bottom	10.9	0.4	64	22.5	22.5	7.9	7.9	28.5	28.5	91.5	91.5	6.7	6.7	26.6		19		94				<0.2		1.3	
						10.9	0.4	69	22.5		7.9		28.5		91.5		6.7		25.7		20		94				<0.2		1.2	
C3	Cloudy	Moderate	06:25	12.1	Surface	1.0	0.4	253	22.7	22.7	7.9	7.9	30.5	30.5	91.3	91.3	6.6	6.7	10.4	17.5	7	18	89	93	822121	817791	<0.2	<0.2	1.0	0.9
						1.0	0.4	277	22.7		7.9		30.5		91.3		6.6		10.4		7		89				<0.2		1.1	
					Middle	6.1	0.4	255	22.7	22.7	7.8	7.8	30.7	30.7	92.2	92.3	6.7		12.9		13		94				<0.2		0.8	
						6.1	0.4	269	22.7		7.8		30.7		92.3		6.7		13.0		13		94				<0.2		0.9	
					Bottom	11.1	0.3	248	22.7	22.7	7.9	7.9	30.7	30.7	89.5	89.5	6.5	6.5	29.0		32		96				<0.2		0.8	
						11.1	0.3	257	22.7		7.9		30.7		89.5		6.5		29.1		33		95				<0.2		0.8	
IM1	Fine	Moderate	07:30	7.8	Surface	1.0	0.5	65	25.2	25.2	7.9	7.9	30.0	30.0	95.8	95.8	6.6	6.7	15.4	16.6	22	23	88	92	818338	806460	<0.2	<0.2	0.9	1.0
						1.0	0.5	71	25.2		7.9		30.0		95.7		6.6		15.4		21		88				<0.2		1.0	
					Middle	3.9	0.4	115	25.2	25.2	7.8	7.8	29.9	29.9	96.0	96.0	6.7		15.7		23		92				<0.2		0.9	
						3.9	0.4	115	25.2		7.8		29.9		96.0		6.7		15.7		22		93				<0.2		0.9	
					Bottom	6.8	0.3	176	25.3	25.3	7.8	7.8	29.9	29.9	98.8	98.8	6.8	6.9	18.8		23		94				<0.2		1.2	
						6.8	0.3	191	25.3		7.8		29.8		98.8		6.9		18.7		24		95				<0.2		1.0	
IM2	Fine	Moderate	07:37	8.8	Surface	1.0	0.5	65	25.5	25.5	7.9	7.9	30.0	30.0	96.0	96.0	6.6	6.6	12.5	18.3	21	31	86	89	818871	806174	<0.2	<0.2	1.0	1.1
						1.0	0.5	69	25.5		7.9		30.0		96.0		6.6		12.5		22		87				<0.2		1.1	
					Middle	4.4	0.4	119	25.2	25.2	7.9	7.9	30.2	30.2	94.7	94.7	6.6		17.6		32		89				<0.2		1.0	
						4.4	0.4	120	25.2		7.9		30.2		94.7		6.6		17.8		30		89				<0.2		1.0	
					Bottom	7.8	0.4	156	25.1	25.2	7.9	7.9	30.3	30.3	94.7	94.7	6.6	6.6	24.9		38		91				<0.2		1.3	
						7.8	0.4	167	25.2		7.9		30.3		94.7		6.6		24.7		40		91				<0.2		1.2	
IM3	Fine	Moderate	07:46	8.9	Surface	1.0	0.5	85	25.5	25.5	7.9	7.9	30.3	30.3	95.7	95.7	6.6	6.6	14.2	19.5	20	32	85	89	819412	806007	<0.2	<0.2	0.9	0.9
						1.0	0.5	86	25.5		7.9		30.3		95.7		6.6		14.2		22		85				<0.2		0.8	
					Middle	4.5	0.4	88	25.2	25.2	7.9	7.9	30.3	30.3	94.8	94.8	6.6		19.9		35		88				<0.2		0.7	
						4.5	0.4	92	25.2		7.9		30.3		94.8		6.6		19.8		36		89				<0.2		0.7	
					Bottom	7.9	0.3	133	25.2	25.2	7.9	7.9	30.3	30.3	94.8	94.8	6.6	6.6	24.5		39		93				<0.2		1.1	
						7.9	0.3	144	25.2		7.9		30.3		94.8		6.6		24.4		38		93				<0.2		1.0	
IM4	Fine	Moderate	07:56	8.4	Surface	1.0	0.4	103	25.7	25.7	7.9	7.9	30.1	30.1	96.4	96.4	6.6	6.6	11.3	16.6	15	28	87	89	819550	805058	<0.2	<0.2	0.8	0.8
						1.0	0.4	108	25.6		7.9		30.1		96.4		6.6		11.4		16		87				<0.2		0.8	
					Middle	4.2	0.3	114	25.4	25.4	7.9	7.9	30.1	30.1	94.6	94.7	6.5		13.5		26		89				<0.2		0.8	
						4.2	0.3	119	25.4		7.9		30.1		94.7		6.5		13.5		25		89				<0.2		0.8	
					Bottom	7.4	0.3	162	25.1	25.2	7.9	7.9	30.5	30.5	94.0	94.0	6.5	6.5	25.0		43		91				<0.2		0.8	
						7.4	0.3	172	25.2		7.9		30.5		93.9		6.5		24.9		40		91				<0.2		0.7	
IM5	Fine	Moderate	08:07	7.1	Surface	1.0	0.3	108	25.2	25.2	7.9	7.9	29.8	29.8	95.2	95.2	6.6	6.6	11.7	17.0	22	23	88	91	820555	804918	<0.2	<0.2	0.8	0.8
						1.0	0.3	112	25.2		7.9		29.8		95.2		6.6		11.7		23		88				<0.2		0.8	
					Middle	3.6	0.3	129	25.2	25.2	7.9	7.9	30.0	30.0	94.7	94.8	6.6		14.0		22		91				<0.2		0.8	
						3.6	0.3	130	25.1		7.9		30.0		94.8		6.6		14.1		24		93				<0.2		0.8	
					Bottom	6.1	0.3	144	25.2	25.2	7.9	7.9	30.2	30.2	95.3	95.3	6.6	6.6	25.2		25		94				<0.2		0.9	
						6.1	0.3	151	25.2		7.9		30.2		95.3		6.6		25.3		23		94				<0.2		0.8	
IM6	Fine	Moderate	08:14	7.2	Surface	1.0	0.4	82	25.2	25.2	7.9	7.9	29.9	29.9	95.0	95.0	6.6	6.6	11.3	13.9	15	17	85	89	821047	805831	<0.2	<0.2	0.9	0.8
						1.0	0.4	83	25.2		7.9		29.9		95.0		6.6		11.4		15		86				<0.2		1.0	
					Middle	3.6	0.4	102	25.1	25.2	7.9	7.9	30.1	30.1	94.6	94.6	6.6		12.7		17		88				<0.2		0.8	
						3.6	0.4	111	25.2		7.9		30.0		94.6		6.6		12.7		17		89				<0.2		0.7	
					Bottom	6.2	0.3	114	25.2	25.2	7.9	7.9	30.4	30.4	94.6	94.6	6.6	6.6	17.8		19		91				<0.2		0.8	
						6.2	0.3	115	25.2		7.9		30.4		94.6		6.6		17.7		18		92				<0.2		0.8	
IM7	Fine	Moderate	08:23	8.6	Surface	1.0	0.4	88	25.3	25.3	7.9	7.9	30.0	30.0	96.1	96.1	6.7	6.6	11.4	16.3	14	25	88	91	821333	806844	<0.2	<0.2	1.1	1.0
						1.0	0.5	89	25.3		7.9		30.0		96.0		6.6		11.5		14		89				<0.2		0.9	
					Middle	4.3	0.4	98	25.3	25.3	7.9	7.9	30.1	30.1	95.5	95.5	6.6		12.5		21		90				<0.2		0.7	
						4.3	0.4	99	25.3		7.9		30.1		95.5		6.6		12.6		21		91				<0.2		0.9	
					Bottom	7.6	0.3	121	25.2	25.2	7.9	7.9	30.3	30.3	95.8	95.8	6.6	6.6	25.0		38		93				<0.2		1.1	
						7.6	0.3	129	25.2		7.9		30.2		95.8		6.6		24.9		39		94				<0.2		1.0	
IM8	Cloudy	Moderate	07:44	8.4	Surface	1.0	0.6	41	22.6	22.6	8.0	8.0	29.7	29.7	92.7	92.8	6.8	6.8	15.2	20.1	15	29	86	91	821682	807829	<0.2	<0.2	0.9	0.9
						1.0	0.6	44	22.6		8.0		29.7		92.8		6.8		15.2		15		85				<0.2		0.8	
					Middle	4.2	0.5	70	22.5	22.5	7.9	7.9	29.8	29.8	93.4	93.6	6.8		18.6		31		92				<0.2		1.1	
						4.2	0.5	75	22.5		7.9		29.8		93.8		6.8		19.1		30		92				<0.2		0.8	
					Bottom	7.4	0.5	91	22.6	22.6	8.0	8.0	29.8	29.8	93.2	93.2	6.8	6.8	26.2		43		94				<0.2		0.8	
						7.4	0.5	94	22.6		8.0		29.8		93.2		6.8		26.2		39		94				<0.2		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 15 November 16 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	07:29	7.4	Surface	1.0	0.4	212	22.6	22.6	7.9	7.9	29.2	29.2	93.0	93.0	6.8	6.8	13.2	18.6	16	23	86	91	822087	808792	<0.2	<0.2	1.2	1.2
						1.0	0.4	219	22.6		7.9		29.2		93.0		6.8		13.0		17		85				<0.2		1.1	
					Middle	3.7	0.3	187	22.6	22.6	7.9	7.9	29.2	29.2	93.0	93.1	6.8		14.2		20		93				<0.2		1.2	
						3.7	0.3	187	22.6		7.9		29.2		93.1		6.8		14.2		21		93				<0.2		1.2	
					Bottom	6.4	0.3	198	22.5	22.5	7.9	7.9	29.6	29.7	93.2	93.2	6.8	6.8	28.1		34		93				<0.2		1.1	
						6.4	0.4	204	22.5		7.9		29.7		93.1		6.8		28.6		31		94				<0.2		1.2	
IM10	Cloudy	Moderate	07:20	7.7	Surface	1.0	0.4	212	22.6	22.6	8.0	8.0	29.8	29.8	95.7	95.7	7.0	7.0	14.5	19.0	17	24	86	91	822222	809855	<0.2	<0.2	0.9	1.0
						1.0	0.4	228	22.6		8.0		29.8		95.7		7.0		14.4		18		86				<0.2		0.8	
					Middle	3.9	0.3	187	22.6	22.6	8.0	8.0	29.8	29.8	95.4	95.4	6.9		16.2		20		93				<0.2		1.1	
						3.9	0.3	192	22.6		8.0		29.8		95.4		6.9		16.3		20		92				<0.2		1.0	
					Bottom	6.7	0.3	198	22.5	22.5	8.0	8.0	29.9	29.9	95.2	95.2	6.9	6.9	26.8		34		93				<0.2		1.0	
						6.7	0.4	205	22.5		8.0		29.9		95.2		6.9		25.5		33		93				<0.2		1.1	
IM11	Cloudy	Moderate	07:13	8.7	Surface	1.0	0.3	236	22.6	22.6	7.9	7.9	29.6	29.6	95.2	95.3	6.9	6.9	10.5	15.5	11	14	87	92	821501	810564	<0.2	<0.2	1.2	1.1
						1.0	0.4	237	22.6		7.9		29.6		95.3		6.9		10.5		11		87				<0.2		1.1	
					Middle	4.4	0.3	228	22.6	22.6	7.9	7.9	29.7	29.7	95.1	95.1	6.9		12.9		13		94				<0.2		1.2	
						4.4	0.3	245	22.6		7.9		29.7		95.1		6.9		12.9		13		93				<0.2		1.1	
					Bottom	7.7	0.3	226	22.5	22.5	7.9	7.9	29.9	29.9	95.2	95.2	6.9	6.9	23.0		17		94				<0.2		1.0	
						7.7	0.3	245	22.5		7.9		29.9		95.2		6.9		23.2		18		94				<0.2		0.9	
IM12	Cloudy	Moderate	07:05	9.2	Surface	1.0	0.3	245	22.6	22.6	8.0	8.0	29.6	29.6	95.5	95.5	7.0	7.0	15.6	17.3	15	22	88	92	821158	811521	<0.2	<0.2	0.9	1.2
						1.0	0.3	268	22.6		8.0		29.6		95.4		7.0		15.5		13		87				<0.2		1.2	
					Middle	4.6	0.3	244	22.5	22.5	7.9	7.9	29.6	29.6	95.2	95.2	6.9		16.6		27		94				<0.2		1.2	
						4.6	0.4	262	22.5		7.9		29.6		95.2		6.9		16.7		26		93				<0.2		1.2	
					Bottom	8.2	0.3	243	22.5	22.5	7.9	7.9	29.7	29.7	95.5	95.5	7.0	7.0	19.6		26		94				<0.2		1.4	
						8.2	0.3	249	22.5		7.9		29.7		95.5		7.0		19.6		26		95				<0.2		1.4	
SR2	Cloudy	Moderate	06:44	4.8	Surface	1.0	0.1	132	22.6	22.6	7.9	7.9	29.9	29.9	95.5	95.5	7.0	7.0	14.7	15.8	10	15	88	92	821451	814168	<0.2	<0.2	1.4	1.3
						1.0	0.1	139	22.6		7.9		29.9		95.5		7.0		14.7		10		88				<0.2		1.4	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.1	119	22.6	22.6	7.9	7.9	30.1	30.1	97.1	97.2	7.1	7.1	16.8		19		95				<0.2		1.2	
						3.8	0.1	128	22.6		7.9		30.1		97.2		7.1		16.8		19		95				<0.2		1.2	
SR3	Cloudy	Moderate	07:56	9.2	Surface	1.0	0.5	71	22.6	22.6	8.0	8.0	29.6	29.6	92.1	92.1	6.7	6.7	14.8	22.3	17	24	-	-	822156	807583	-	-	-	-
						1.0	0.5	71	22.6		8.0		29.6		92.1		6.7		14.9		17		-				-		-	
					Middle	4.6	0.5	63	22.5	22.5	8.0	8.0	29.7	29.7	91.8	91.8	6.7		22.9		18		-				-		-	
						4.6	0.6	65	22.5		8.0		29.7		91.8		6.7		23.0		18		-				-		-	
					Bottom	8.2	0.5	63	22.5	22.5	8.0	8.0	29.7	29.7	92.0	92.0	6.7	6.7	28.8		39		-				-		-	
						8.2	0.5	65	22.5		8.0		29.7		92.0		6.7		29.1		37		-				-		-	
SR4A	Fine	Moderate	06:42	7.9	Surface	1.0	0.5	75	25.4	25.4	7.8	7.8	30.5	30.5	96.0	96.1	6.6	6.6	15.8	19.0	23	26	-	-	817178	807818	-	-	-	-
						1.0	0.5	78	25.3		7.8		30.5		96.1		6.6		16.0		25		-				-		-	
					Middle	4.0	0.4	104	25.3	25.3	7.8	7.8	30.4	30.4	96.1	96.2	6.6		17.6		26		-				-		-	
						4.0	0.4	109	25.3		7.8		30.4		96.2		6.6		17.7		24		-				-		-	
					Bottom	6.9	0.4	109	25.3	25.3	7.8	7.8	30.2	30.2	97.0	97.2	6.7	6.7	23.1		30		-				-		-	
						6.9	0.4	117	25.3		7.8		30.2		97.3		6.7		23.6		29		-				-		-	
SR5A	Fine	Moderate	06:18	3.3	Surface	1.0	0.3	199	25.2	25.2	7.7	7.7	30.4	30.4	94.9	95.0	6.6	6.6	8.3	9.6	14	15	-	-	816609	810681	-	-	-	-
						1.0	0.3	218	25.2		7.7		30.4		95.0		6.6		8.4		13		-				-		-	
					Middle	1.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.3	0.4	213	25.3	25.3	7.6	7.6	29.9	29.9	97.8	97.9	6.8	6.8	10.7		16		-				-		-	
						2.3	0.5	231	25.3		7.6		29.9		97.9		6.8		10.8		17		-				-		-	
SR6	Fine	Moderate	05:51	4.5	Surface	1.0	0.2	194	25.2	25.2	7.7	7.7	30.0	30.0	95.4	95.5	6.6	6.6	9.5	9.8	15	16	-	-	817879	814644	-	-	-	-
						1.0	0.2	204	25.2		7.7		30.0		95.5		6.6		9.5		16		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	180	25.3	25.3	7.5	7.5	29.5	29.3	98.1	99.3	6.8	6.9	9.8		16		-				-		-	
						3.5	0.1	181	25.3		7.4		29.1		100.5		7.0		10.3		15		-				-		-	
SR7	Cloudy	Moderate	05:52	18.9	Surface	1.0	0.2	227	22.7	22.7	7.9	7.9	31.1	31.1	91.8	91.8	6.6	6.6	10.6	16.1	13	17	-	-	823639	823723	-	-	-	-
						1.0	0.2	227	22.7		7.9		31.1		91.7		6.6		10.6		13		-				-		-	
					Middle	9.5	0.2	244	22.7	22.7	7.9	7.9	31.3	31.3	90.5	90.5	6.5		18.0		19		-				-		-	
						9.5	0.2	262	22.7		7.9		31.3		90.5		6.5		18.3		18		-				-		-	
					Bottom	17.9	0.3	132	22.7	22.7	7.8	7.8	31.7	31.8	90.2	90.5	6.5	6.5	20.1		19		-				-		-	
						17.9	0.3	135	22.7		7.8		31.8		90.8		6.5		18.8		20		-				-		-	
SR8	Cloudy	Moderate	06:59	5.2	Surface	1.0	0.2	172	22.6	22.6	7.9	7.9	29.4	29.4	95.7	95.7	7.0	7.0	11.0	12.0	11	15	-	-	820429	811577	-	-	-	-
						1.0	0.2	173	22.6		7.9		29.4		95.7		7.0		11.0		12		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.2	192	22.5	22.5	7.9	7.9	29.6	29.6	96.9	97.0	7.1	7.1	12.9		18		-				-		-	
						4.2	0.2	197	22.5		7.9		29.6		97.0		7.1		12.9		18		-				-		-	

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 15 November 16 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	Fine	Moderate	12:42	8.4	Surface	1.0	0.3	197	25.8	25.8	7.9	7.9	30.0	30.0	97.9	97.9	6.7	6.7	5.6	8.7	8	10	88	91	815607	804247	<0.2	<0.2	1.4	1.1
						1.0	0.3	204	25.8		7.9		30.0		97.9		6.7		5.7		8		89				<0.2		1.4	
					Middle	4.2	0.3	204	25.4	25.4	7.9	7.9	30.0	30.0	96.6	96.6	6.7		8.0		9		91				<0.2		1.0	
						4.2	0.4	212	25.4		7.9		30.0		96.6		6.7		8.1		8		92				<0.2		1.2	
					Bottom	7.4	0.4	221	25.3	25.3	7.9	7.9	30.5	30.5	97.2	97.3	6.7	6.7	12.4		13		94				<0.2		0.9	
						7.4	0.4	229	25.3		7.9		30.5		97.3		6.7		12.3		13		94				<0.2		0.9	
C2	Cloudy	Moderate	11:41	13.1	Surface	1.0	0.2	121	22.9	22.9	7.9	7.9	28.2	28.2	94.0	94.0	6.9	6.9	11.5	19.0	12	18	83	90	825688	806961	<0.2	<0.2	1.7	1.6
						1.0	0.3	121	22.9		7.9		28.2		94.0		6.9		11.5		12		84				<0.2		1.6	
					Middle	6.6	0.2	175	22.6	22.6	7.9	7.9	28.7	28.7	92.8	92.8	6.8		22.0		18		92				<0.2		1.5	
						6.6	0.2	177	22.6		7.9		28.7		92.8		6.8		21.8		16		92				<0.2		1.7	
					Bottom	12.1	0.2	198	22.6	22.6	7.9	7.9	29.5	29.5	93.7	93.7	6.8	6.8	23.5		24		93				<0.2		1.4	
						12.1	0.2	212	22.6		7.9		29.5		93.7		6.8		23.5		23		94				<0.2		1.5	
C3	Cloudy	Moderate	13:24	12.7	Surface	1.0	0.5	74	22.9	22.9	7.9	7.9	29.8	29.8	94.4	94.4	6.8	6.7	9.9	16.9	11	13	91	93	822089	817790	<0.2	<0.2	0.9	0.9
						1.0	0.5	79	22.9		7.9		29.8		94.4		6.8		10.0		10		89				<0.2		0.8	
					Middle	6.4	0.4	86	22.7	22.7	7.9	7.9	30.0	30.0	91.6	91.6	6.7		14.4		13		93				<0.2		1.0	
						6.4	0.4	94	22.7		7.9		30.0		91.6		6.6		14.5		14		93				<0.2		0.9	
					Bottom	11.7	0.4	99	22.7	22.7	7.9	7.9	30.2	30.2	91.4	91.5	6.6	6.6	26.5		14		95				<0.2		0.8	
						11.7	0.5	99	22.7		7.9		30.2		91.5		6.6		25.9		14		95				<0.2		0.8	
IM1	Fine	Moderate	12:20	7.6	Surface	1.0	0.3	163	25.4	25.4	7.9	7.9	30.3	30.3	96.3	96.3	6.7	6.7	9.7	9.9	11	13	86	90	818342	806452	<0.2	<0.2	0.8	0.8
						1.0	0.3	169	25.4		7.9		30.3		96.3		6.7		9.6		10		87				<0.2		0.8	
					Middle	3.8	0.3	173	25.5	25.5	7.9	7.9	30.0	30.0	96.5	96.5	6.7		9.1		11		90				<0.2		0.7	
						3.8	0.3	174	25.5		7.9		30.0		96.5		6.7		9.1		11		92				<0.2		0.7	
					Bottom	6.6	0.3	159	25.3	25.3	7.9	7.9	30.1	30.1	97.5	97.6	6.8	6.8	10.9		18		93				<0.2		1.0	
						6.6	0.3	159	25.3		7.9		30.1		97.6		6.8		11.1		17		93				<0.2		0.8	
IM2	Fine	Moderate	12:14	8.3	Surface	1.0	0.3	159	25.7	25.7	7.9	7.9	30.2	30.2	96.7	96.7	6.6	6.6	9.1	12.5	12	19	89	92	818833	806192	<0.2	<0.2	1.0	1.0
						1.0	0.3	165	25.7		7.9		30.2		96.7		6.6		9.2		12		89				<0.2		1.2	
					Middle	4.2	0.3	172	25.2	25.2	7.9	7.9	30.2	30.2	95.4	95.4	6.6		14.4		22		92				<0.2		1.2	
						4.2	0.3	177	25.2		7.9		30.2		95.4		6.6		14.3		22		94				<0.2		1.2	
					Bottom	7.3	0.3	202	25.2	25.2	7.9	7.9	30.1	30.1	98.6	98.7	6.8	6.8	13.8		22		94				<0.2		0.8	
						7.3	0.3	217	25.2		7.9		30.1		98.7		6.8		14.0		22		95				<0.2		0.8	
IM3	Fine	Moderate	12:07	8.9	Surface	1.0	0.3	150	26.4	26.4	7.9	7.9	30.2	30.2	99.1	99.1	6.7	6.7	7.6	12.3	11	19	85	89	819410	806006	<0.2	<0.2	1.2	1.0
						1.0	0.3	161	26.4		7.9		30.2		99.1		6.7		7.5		10		86				<0.2		1.1	
					Middle	4.5	0.3	160	25.2	25.2	7.9	7.9	30.3	30.3	95.0	95.0	6.6		14.5		21		89				<0.2		1.0	
						4.5	0.3	160	25.2		7.9		30.3		95.0		6.6		14.6		20		89				<0.2		1.0	
					Bottom	7.9	0.3	180	25.2	25.2	7.9	7.9	30.1	30.1	97.5	97.5	6.8	6.8	14.7		26		92				<0.2		0.9	
						7.9	0.3	182	25.2		7.9		30.1		97.5		6.8		14.6		25		92				<0.2		0.8	
IM4	Fine	Moderate	11:59	8.1	Surface	1.0	0.3	153	25.2	25.2	7.9	7.9	30.1	30.2	95.7	95.7	6.6	6.6	9.7	12.9	13	18	88	92	819578	805026	<0.2	<0.2	0.9	0.9
						1.0	0.3	159	25.2		7.9		30.2		95.7		6.6		9.7		15		89				<0.2		1.1	
					Middle	4.1	0.3	176	25.1	25.2	7.9	7.9	30.3	30.3	94.8	94.8	6.6		14.3		19		92				<0.2		0.9	
						4.1	0.3	177	25.2		7.9		30.3		94.8		6.6		14.2		20		93				<0.2		0.8	
					Bottom	7.1	0.3	181	25.2	25.2	7.9	7.9	30.1	30.1	96.7	96.8	6.7	6.7	14.9		21		94				<0.2		0.8	
						7.1	0.3	189	25.2		7.9		30.1		96.8		6.7		14.8		21		95				<0.2		0.8	
IM5	Fine	Moderate	11:51	7.2	Surface	1.0	0.3	165	25.3	25.3	7.9	7.9	29.7	29.7	95.4	95.4	6.6	6.6	12.3	15.9	17	22	87	91	820575	804909	<0.2	<0.2	1.0	1.0
						1.0	0.4	172	25.3		7.9		29.7		95.4		6.6		12.5		18		88				<0.2		1.0	
					Middle	3.6	0.3	162	25.1	25.1	7.9	7.9	29.9	29.9	94.8	94.8	6.6		15.4		21		91				<0.2		1.1	
						3.6	0.3	173	25.1		7.9		29.9		94.8		6.6		15.5		20		92				<0.2		1.0	
					Bottom	6.2	0.3	187	25.2	25.2	7.9	7.9	30.1	30.1	96.3	96.4	6.7	6.7	19.8		28		94				<0.2		1.0	
						6.2	0.3	187	25.2		7.9		30.1		96.4		6.7		19.8		27		94				<0.2		0.9	
IM6	Fine	Moderate	11:43	7.1	Surface	1.0	0.3	136	25.2	25.2	7.9	7.9	29.9	29.9	95.2	95.2	6.6	6.6	11.9	14.5	15	20	86	88	821046	805839	<0.2	<0.2	1.0	1.0
						1.0	0.4	142	25.2		7.9		29.9		95.2		6.6		11.9		18		86				<0.2		0.8	
					Middle	3.6	0.3	139	25.2	25.2	7.9	7.9	30.0	30.0	94.9	94.9	6.6		13.6		20		88				<0.2		1.1	
						3.6	0.3	152	25.1		7.9		30.0		94.9		6.6		13.6		18		89				<0.2		0.9	
					Bottom	6.1	0.3	148	25.2	25.2	7.9	7.9	30.1	30.1	95.5	95.6	6.6	6.6	17.9		23		90				<0.2		1.0	
						6.1	0.3	158	25.2		7.9		30.1		95.6		6.6		17.8		23		90				<0.2		1.1	
IM7	Fine	Moderate	11:34	8.7	Surface	1.0	0.4	114	25.6	25.6	7.9	7.9	29.8	29.8	96.7	96.7	6.7	6.7	11.0	14.5	15	19	88	91	821348	806830	<0.2	<0.2	1.0	1.3
						1.0	0.4	125	25.6		7.9		29.8		96.7		6.7		11.1		16		89				<0.2		1.2	
					Middle	4.4	0.3	108	25.2	25.2	7.9	7.9	30.1	30.1	95.8	95.8	6.6		14.0		17		90				<0.2		1.4	
						4.4	0.4	110	25.2		7.9		30.1		95.8		6.6		14.0		18		91				<0.2		1.4	
					Bottom	7.7	0.3	138	25.2	25.2	7.8	7.8	30.0	30.0	98.1	98.2	6.8	6.8	18.6		23		93				<0.2		1.4	
						7.7	0.3	138	25.2		7.8		30.0		98.2		6.8		18.5		22		93				<0.2		1.5	
IM8	Cloudy	Moderate	12:14	8.3	Surface	1.0	0.5	104	22.8	22.8	8.0	8.0	29.1	29.1	97.9	97.9	7.1	7.1	12.1	17.7	13	20	84	90	821691	807836	<0.2	<0.2	1.2	1.1
						1.0	0.6	111	22.8		8.0		29.1		97.9		7.1		12.1		12		84				<0.2		1.1	
					Middle	4.2	0.5	104	22.5	22.5	8.0	8.0	29.4	29.4	96.4	96.4	7.0		17.6		23		93				<0.2		0.9	
						4.2	0.5	114	22.5		8.0		29.4		96.4		7.0		17.5		22		92				<0.2		1.2	
					Bottom	7.3	0.4	98	22.5	22.5	8.0	8.0	29.5	29.5	97.3	97.3	7.1	7.1	23.3		24		93				<0.2		1.1	
						7.3	0.5	103	22.5		8.0		29.5		97.3		7.1		23.3		24		94				<0.2		0.9	

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 15 November 16 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
IM9	Cloudy	Moderate	12:23	7.0	Surface	1.0	0.7	102	22.9	22.9	8.0	8.0	29.5	29.5	97.5	97.5	7.1	7.1	11.9	20.4	12	27	85	91	822094	808825	<0.2	<0.2	1.1	1.1
						1.0	0.7	104	22.9		8.0		29.5		97.4		7.1		11.9		14		85				<0.2		1.2	
					Middle	3.5	0.5	92	22.6	22.6	8.0	8.0	29.6	29.6	96.3	96.3	7.0		24.2		27		92				<0.2		1.2	
						3.5	0.5	97	22.6		8.0		29.6		96.3		7.0		24.3		26		93				<0.2		0.9	
					Bottom	6.0	0.5	98	22.6	22.6	8.0	8.0	29.6	29.6	96.3	96.3	7.0	7.0	25.3		40		94				<0.2		1.0	
						6.0	0.5	99	22.6		8.0		29.6		96.3		7.0		24.8		41		94				<0.2		1.0	
IM10	Cloudy	Moderate	12:30	7.9	Surface	1.0	0.6	94	22.8	22.8	8.0	8.0	29.8	29.8	98.0	98.0	7.1	7.1	13.7	22.1	18	29	86	91	822229	809853	<0.2	<0.2	0.9	1.1
						1.0	0.7	99	22.8		8.0		29.8		98.0		7.1		13.6		18		86				<0.2		1.0	
					Middle	4.0	0.6	89	22.6	22.6	8.0	8.0	29.9	29.9	96.5	96.5	7.0		23.0		34		93				<0.2		1.1	
						4.0	0.6	95	22.6		8.0		29.9		96.5		7.0		23.2		32		93				<0.2		1.1	
					Bottom	6.9	0.5	101	22.6	22.6	8.0	8.0	29.9	29.9	96.6	96.7	7.0	7.0	31.3		36		95				<0.2		1.2	
						6.9	0.5	109	22.6		8.0		29.9		96.7		7.0		27.5		34		95				<0.2		1.3	
IM11	Cloudy	Moderate	12:38	7.5	Surface	1.0	0.6	95	23.1	23.1	8.0	8.0	29.4	29.4	97.0	97.0	7.0	7.0	9.8	16.4	10	13	87	91	821518	810555	<0.2	<0.2	1.3	1.1
						1.0	0.7	100	23.1		8.0		29.4		97.0		7.0		9.8		8		86				<0.2		1.2	
					Middle	3.8	0.6	90	22.6	22.6	8.0	8.0	29.7	29.7	95.3	95.3	6.9		15.8		14		93				<0.2		0.9	
						3.8	0.6	90	22.6		8.0		29.7		95.3		6.9		15.9		15		93				<0.2		1.0	
					Bottom	6.5	0.5	92	22.6	22.6	8.0	8.0	29.8	29.8	94.9	94.9	6.9	6.9	23.4		14		94				<0.2		1.1	
						6.5	0.5	95	22.6		8.0		29.8		94.9		6.9		23.4		14		95				<0.2		1.0	
IM12	Cloudy	Moderate	12:45	7.1	Surface	1.0	0.7	110	22.9	22.9	8.0	8.0	29.9	29.9	96.4	96.4	7.0	7.0	11.3	16.1	12	16	87	92	821160	811516	<0.2	<0.2	1.1	1.0
						1.0	0.7	116	22.9		8.0		29.9		96.4		7.0		11.3		12		87				<0.2		1.0	
					Middle	3.6	0.6	106	22.8	22.8	8.0	8.0	29.9	29.9	95.3	95.3	6.9		14.4		13		93				<0.2		1.0	
						3.6	0.6	108	22.8		8.0		29.9		95.3		6.9		14.5		12		93				<0.2		1.1	
					Bottom	6.1	0.6	141	22.6	22.6	7.9	7.9	30.1	30.1	94.8	94.9	6.9	6.9	22.6		23		95				<0.2		1.0	
						6.1	0.6	146	22.6		7.9		30.1		94.9		6.9		22.5		23		94				<0.2		1.0	
SR2	Cloudy	Moderate	13:04	4.6	Surface	1.0	0.7	99	22.9	22.9	7.9	7.9	29.9	29.9	96.6	96.6	7.0	7.0	10.6	12.4	11	13	87	91	821454	814166	<0.2	<0.2	1.2	1.3
						1.0	0.7	101	22.9		7.9		29.9		96.6		7.0		10.7		12		88				<0.2		1.2	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.6	90	22.7	22.7	7.9	7.9	30.2	30.2	97.5	97.6	7.1	7.1	14.0		14		95				<0.2		1.2	
						3.6	0.7	94	22.7		7.9		30.2		97.6		7.1		14.3		14		95				<0.2		1.4	
SR3	Cloudy	Moderate	12:10	8.2	Surface	1.0	0.4	140	22.8	22.8	7.9	7.9	28.2	28.2	94.7	94.7	6.9	7.0	12.1	19.1	13	16	-	-	822155	807563	-	-	-	-
						1.0	0.4	144	22.8		7.9		28.2		94.7		6.9		12.1		11		-				-		-	
					Middle	4.1	0.4	113	22.7	22.7	7.9	7.9	28.3	28.3	95.4	95.4	7.0		16.4		17		-				-		-	
						4.1	0.4	119	22.7		7.9		28.3		95.4		7.0		16.5		15		-				-		-	
					Bottom	7.2	0.4	111	22.5	22.5	8.0	8.0	28.9	28.9	95.7	95.7	7.0	7.0	28.7		19		-				-		-	
						7.2	0.4	111	22.5		8.0		28.9		95.7		7.0		28.7		21		-				-		-	
SR4A	Fine	Moderate	13:03	8.8	Surface	1.0	0.4	99	25.8	25.8	7.9	7.9	29.9	29.9	98.1	98.1	6.7	6.8	8.0	9.5	13	13	-	-	817203	807815	-	-	-	-
						1.0	0.4	107	25.8		7.9		29.9		98.1		6.7		8.1		12		-				-		-	
					Middle	4.4	0.4	88	25.7	25.7	7.9	7.9	29.9	29.9	97.9	97.9	6.8		9.6		12		-				-		-	
						4.4	0.4	95	25.7		7.9		29.9		97.9		6.8		9.6		12		-				-		-	
					Bottom	7.8	0.3	110	25.6	25.6	7.8	7.8	29.8	29.8	99.6	99.7	6.9	6.9	10.9		14		-				-		-	
						7.8	0.3	119	25.6		7.8		29.8		99.7		6.9		11.0		15		-				-		-	
SR5A	Fine	Moderate	13:19	4.2	Surface	1.0	0.1	156	26.2	26.2	7.9	7.9	30.6	30.6	102.1	102.1	6.9	6.9	6.0	5.9	8	8	-	-	816600	810706	-	-	-	-
						1.0	0.1	164	26.2		7.9		30.6		102.1		6.9		6.0		8		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	183	26.1	26.1	7.8	7.8	30.2	30.2	102.8	102.8	7.0	7.0	5.7		9		-				-		-	
						3.2	0.1	185	26.1		7.8		30.2		102.8		7.0		5.7		8		-				-		-	
SR6	Fine	Moderate	13:41	3.9	Surface	1.0	0.1	135	25.6	25.6	7.8	7.8	30.4	30.4	98.7	98.7	6.8	6.8	7.1	7.7	12	12	-	-	817914	814659	-	-	-	-
						1.0	0.1	136	25.6		7.8		30.4		98.7		6.8		7.1		12		-				-		-	
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.1	125	25.5	25.5	7.8	7.8	30.1	30.1	100.8	100.9	7.0	7.0	8.2		12		-				-		-	
						2.9	0.1	131	25.5		7.7		30.1		101.0		7.0		8.2		12		-				-		-	
SR7	Cloudy	Moderate	13:51	19.8	Surface	1.0	0.4	80	23.0	23.0	7.9	7.9	30.1	30.1	92.7	92.7	6.7	6.7	7.0	7.7	9	10	-	-	823634	823726	-	-	-	-
						1.0	0.4	81	23.0		7.9		30.1		92.7		6.7		7.0		10		-				-		-	
					Middle	9.9	0.4	155	22.9	22.9	7.9	7.9	30.1	30.1	92.1	92.1	6.7		7.6		8		-				-		-	
						9.9	0.4	159	22.9		7.9		30.1		92.1		6.7		7.6		10		-				-		-	
					Bottom	18.8	0.4	223	22.9	22.9	7.9	7.9	30.0	30.0	92.1	92.2	6.7	6.7	8.5		13		-				-		-	
						18.8	0.4	226	22.9		7.9		30.0		92.2		6.7		8.6		12		-				-		-	
SR8	Cloudy	Moderate	12:51	5.2	Surface	1.0	0.2	250.0	23.0	23.0	7.9	7.9	29.8	29.8	96.2	96.2	6.9	6.9	9.2	11.2	10	13	-	-	820410	811582	-	-	-	-
						1.0	0.2	273.0	23.0		7.9		29.8		96.2		6.9		9.2		10		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.2	223.0	22.6	22.6	7.8	7.8	30.0	30.1	96.9	96.9	7.0	7.0	13.1		15		-				-		-	
						4.2	0.2	230.0	22.6		7.8		30.1		96.9		7.0		13.1		16		-				-		-	

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 17 November 16 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	Fine	Moderate	08:55	8.1	Surface	1.0	0.8	58	25.7	25.7	7.8	7.8	30.2	30.2	96.3	96.3	6.6	6.6	10.5	15.8	17	27	86	89	815623	804241	<0.2	<0.2	1.1	1.0
						1.0	0.9	62	25.6		7.8		30.2		96.3		6.6		10.5		19		86				<0.2		1.1	
					Middle	4.1	0.6	57	25.6	25.7	7.8	7.8	30.2	30.2	95.6	95.6	6.6		12.3		24		89				<0.2		1.1	
						4.1	0.7	59	25.7		7.8		30.2		95.5		6.6		12.3		26		90				<0.2		1.0	
					Bottom	7.1	0.6	57	25.3	25.3	7.8	7.8	30.4	30.4	93.7	93.7	6.5	6.5	24.5		36		92				<0.2		0.9	
						7.1	0.7	60	25.3		7.8		30.4		93.7		6.5		24.7		38		93				<0.2		1.0	
C2	Cloudy	Moderate	10:23	12.3	Surface	1.0	0.4	261	23.0	23.0	7.8	7.8	28.1	28.1	91.1	91.1	6.7	6.7	8.4	14.3	10	11	85	90	825693	806925	<0.2	<0.2	1.5	1.5
						1.0	0.4	284	23.0		7.8		28.1		91.1		6.7		8.5		12		84				<0.2		1.4	
					Middle	6.2	0.4	271	22.6	22.6	7.8	7.8	28.4	28.4	89.4	89.4	6.6		14.3		11		92				<0.2		1.5	
						6.2	0.5	288	22.6		7.8		28.4		89.4		6.6		14.3		12		93				<0.2		1.5	
					Bottom	11.3	0.4	177	22.6	22.6	7.9	7.9	28.8	28.8	89.8	89.8	6.6	6.6	20.1		10		94				<0.2		1.5	
						11.3	0.4	189	22.6		7.9		28.8		89.8		6.6		20.2		10		94				<0.2		1.5	
C3	Cloudy	Moderate	08:22	11.6	Surface	1.0	0.6	274	22.7	22.7	7.9	7.9	30.3	30.3	94.6	94.5	6.9	6.8	7.0	15.2	11	14	89	93	822094	817789	<0.2	<0.2	0.9	0.8
						1.0	0.6	294	22.7		7.9		30.3		94.4		6.8		7.2		10		89				<0.2		1.0	
					Middle	5.8	0.6	273	22.7	22.7	7.9	7.9	30.5	30.5	93.4	93.4	6.8		9.6		11		94				<0.2		0.8	
						5.8	0.6	279	22.7		7.9		30.5		93.4		6.8		9.8		9		94				<0.2		0.8	
					Bottom	10.6	0.5	274	22.7	22.7	7.9	7.9	30.4	30.4	93.7	93.7	6.8	6.8	29.3		22		95				<0.2		0.7	
						10.6	0.5	279	22.7		7.9		30.4		93.7		6.8		28.3		21		96				<0.2		0.7	
IM1	Fine	Moderate	09:21	8.7	Surface	1.0	0.6	74	25.6	25.6	7.9	7.9	30.3	30.3	96.3	96.3	6.6	6.6	10.6	15.1	16	16	89	91	818359	806441	<0.2	<0.2	0.7	0.8
						1.0	0.6	80	25.6		7.9		30.3		96.3		6.6		10.7		15		89				<0.2		0.7	
					Middle	4.4	0.5	104	25.5	25.5	7.9	7.9	30.3	30.3	95.4	95.4	6.6		13.5		17		90				<0.2		0.8	
						4.4	0.6	106	25.5		7.9		30.3		95.3		6.6		13.5		17		92				<0.2		0.8	
					Bottom	7.7	0.5	137	25.3	25.4	7.8	7.8	30.5	30.5	94.4	94.4	6.5	6.5	21.3		16		93				<0.2		1.0	
						7.7	0.5	147	25.4		7.8		30.5		94.4		6.5		21.0		16		94				<0.2		0.9	
IM2	Fine	Moderate	09:38	9.1	Surface	1.0	0.7	58	25.8	25.8	7.9	7.9	30.1	30.1	96.5	96.5	6.6	6.6	12.1	16.7	17	20	87	91	818866	806211	<0.2	<0.2	0.7	0.8
						1.0	0.7	59	25.8		7.9		30.1		96.5		6.6		12.2		17		88				<0.2		0.7	
					Middle	4.6	0.5	99	25.7	25.7	7.9	7.9	30.5	30.5	96.2	96.2	6.6		15.0		19		91				<0.2		0.8	
						4.6	0.6	106	25.7		7.9		30.4		96.2		6.6		14.9		18		92				<0.2		0.7	
					Bottom	8.1	0.5	129	25.5	25.5	7.9	7.9	30.6	30.6	95.8	95.8	6.6	6.6	21.4		22		94				<0.2		0.8	
						8.1	0.5	141	25.5		7.9		30.6		95.7		6.6		24.4		25		95				<0.2		0.8	
IM3	Fine	Moderate	09:46	8.9	Surface	1.0	0.6	70	25.9	25.9	7.9	7.9	30.2	30.2	96.8	96.8	6.6	6.6	10.5	14.0	12	19	86	89	819412	806021	<0.2	<0.2	0.9	1.0
						1.0	0.7	74	25.9		7.9		30.2		96.8		6.6		10.6		13		86				<0.2		0.9	
					Middle	4.5	0.7	54	25.7	25.7	7.9	7.9	30.5	30.5	96.6	96.6	6.6		13.5		15		89				<0.2		1.0	
						4.5	0.7	54	25.7		7.9		30.5		96.5		6.6		13.4		17		90				<0.2		1.0	
					Bottom	7.9	0.6	69	25.5	25.5	7.9	7.9	30.8	30.8	96.2	96.3	6.6	6.6	17.8		27		92				<0.2		1.0	
						7.9	0.6	74	25.5		7.9		30.8		96.3		6.6		17.9		29		92				<0.2		0.9	
IM4	Fine	Moderate	09:53	8.3	Surface	1.0	0.5	85	25.8	25.8	7.9	7.9	30.5	30.5	97.0	97.0	6.6	6.6	11.8	13.9	15	21	85	88	819558	805054	<0.2	<0.2	0.7	0.8
						1.0	0.6	89	25.8		7.9		30.5		97.0		6.6		11.8		15		86				<0.2		0.8	
					Middle	4.2	0.6	97	25.7	25.7	7.9	7.9	30.7	30.7	96.4	96.4	6.6		13.4		20		87				<0.2		0.8	
						4.2	0.6	101	25.7		7.9		30.7		96.4		6.6		13.6		18		89				<0.2		0.8	
					Bottom	7.3	0.6	78	25.5	25.5	7.9	7.9	30.9	30.9	95.6	95.6	6.6	6.6	16.4		29		91				<0.2		0.8	
						7.3	0.6	84	25.5		7.9		30.9		95.6		6.6		16.3		31		92				<0.2		0.8	
IM5	Fine	Moderate	09:59	7.1	Surface	1.0	0.6	74	25.9	25.9	7.9	7.9	30.7	30.7	97.5	97.5	6.7	6.7	11.6	17.4	17	18	87	91	820576	804909	<0.2	<0.2	0.8	0.9
						1.0	0.6	79	25.9		7.9		30.7		97.5		6.7		11.6		17		87				<0.2		0.8	
					Middle	3.6	0.5	104	25.6	25.6	7.9	7.9	30.9	30.9	96.6	96.6	6.6		16.1		17		91				<0.2		1.1	
						3.6	0.5	108	25.6		7.9		30.9		96.6		6.6		16.2		16		92				<0.2		1.0	
					Bottom	6.1	0.5	125	25.4	25.4	7.9	7.9	31.0	31.0	95.6	95.6	6.6	6.6	24.6		19		94				<0.2		0.8	
						6.1	0.5	128	25.4		7.9		31.0		95.6		6.6		24.4		20		94				<0.2		0.7	
IM6	Fine	Moderate	10:05	7.2	Surface	1.0	0.6	82	25.8	25.8	7.9	7.9	30.8	30.8	97.6	97.6	6.7	6.7	10.8	16.6	15	16	86	89	821058	805839	<0.2	<0.2	0.8	0.8
						1.0	0.6	86	25.8		7.9		30.8		97.6		6.7		10.8		15		87				<0.2		0.8	
					Middle	3.6	0.7	106	25.6	25.6	7.9	7.9	30.9	30.9	95.9	95.9	6.6		14.0		16		88				<0.2		0.8	
						3.6	0.7	110	25.6		7.9		30.9		95.9		6.6		14.1		18		89				<0.2		0.8	
					Bottom	6.2	0.5	77	25.4	25.4	7.9	7.9	31.0	31.0	95.2	95.2	6.5	6.5	24.9		16		92				<0.2		0.8	
						6.2	0.5	78	25.4		7.9		31.0		95.2		6.5		24.8		18		93				<0.2		0.8	
IM7	Fine	Moderate	10:10	8.4	Surface	1.0	0.6	61	25.8	25.8	7.9	7.9	30.8	30.8	97.1	97.1	6.6	6.6	12.1	14.2	14	14	87	91	821354	806837	<0.2	<0.2	1.1	0.9
						1.0	0.6	65	25.8		7.9		30.8		97.0		6.6		12.0		12		88				<0.2		0.9	
					Middle	4.2	0.5	75	25.5	25.5	7.9	7.9	31.0	31.0	96.0	96.0	6.6		14.6		12		90				<0.2		0.9	
						4.2	0.5	76	25.5		7.9		30.9		95.9		6.6		14.6		14		91				<0.2		1.0	
					Bottom	7.4	0.5	69	25.4	25.4	7.9	7.9	31.0	31.0	96.2	96.2	6.6	6.6	15.9		15		93				<0.2		0.8	
						7.4	0.5	71	25.4		7.9		31.0		96.2		6.6		15.9		15		94				<0.2		0.8	
IM8	Cloudy	Moderate	09:43	8.3	Surface	1.0	0.6	52	23.0	23.0	7.8	7.8	28.1	28.1	90.3	90.3	6.6	6.6	9.2	12.8	7	11	85	90	821714	807835	<0.2	<0.2	2.8	2.8
						1.0	0.6	55	23.0		7.8		28.1		90.2		6.6		9.2		9		85				<0.2		2.9	
					Middle	4.2	0.5	79	22.7	22.7	7.8	7.8	28.2	28.2	89.4	89.4	6.6		12.9		9		92				<0.2		2.6	
						4.2	0.5	85	22.7		7.8		28.2		89.4		6.6		13.1		11		92				<0.2		2.7	
					Bottom	7.3	0.4	138	22.7	22.7	7.8	7.8	28.5	28.5	89.4	89.4	6.5	6.5	16.0		14		94				<0.2		2.9	
						7.3	0.4	149	22.7		7.8		28.5		89.4		6.5		16.1		14		94				<0.2		2.9	

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 17 November 16 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	09:35	7.2	Surface	1.0	0.4	146	22.8	22.8	7.8	7.8	28.5	28.5	91.1	91.1	6.7	6.7	15.9	19.7	18	19	86	91	822102	808824	<0.2	<0.2	1.8	2.3
						1.0	0.4	155	22.8		7.8		28.5		91.1		6.7		15.9		18		85				<0.2		1.9	
					Middle	3.6	0.4	208	22.7	22.7	7.8	7.8	28.8	28.8	91.5	91.6	6.7		20.0		17		92				<0.2		2.4	
						3.6	0.4	216	22.7		7.8		28.8		91.7		6.7		19.8		18		92				<0.2		2.7	
					Bottom	6.2	0.4	243	22.7	22.7	7.8	7.8	29.1	29.1	94.1	94.2	6.9	6.9	23.4		22		94				<0.2		2.4	
						6.2	0.4	243	22.7		7.8		29.1		94.2		6.9		23.0		21		94				<0.2		2.4	
IM10	Cloudy	Moderate	09:26	8.2	Surface	1.0	0.5	307	22.7	22.7	7.9	7.9	30.2	30.2	94.2	94.2	6.8	6.8	13.5	22.8	16	17	86	91	822220	809818	<0.2	<0.2	1.4	1.4
						1.0	0.5	337	22.7		7.9		30.2		94.2		6.8		13.6		18		86				<0.2		1.4	
					Middle	4.1	0.5	272	22.7	22.7	7.9	7.9	30.3	30.3	94.1	94.1	6.8		17.2		16		93				<0.2		1.3	
						4.1	0.5	298	22.7		7.9		30.3		94.1		6.8		17.3		18		93				<0.2		1.4	
					Bottom	7.2	0.4	239	22.6	22.6	7.9	7.9	30.4	30.5	93.9	93.9	6.8	6.8	35.8		17		95				<0.2		1.3	
						7.2	0.5	249	22.6		7.9		30.5		93.8		6.8		39.2		18		94				<0.2		1.3	
IM11	Cloudy	Moderate	09:16	8.6	Surface	1.0	0.4	277	22.7	22.7	7.9	7.9	30.1	30.1	94.1	94.1	6.8	6.8	13.8	20.4	13	18	87	91	821494	810528	<0.2	<0.2	1.2	1.3
						1.0	0.4	291	22.7		7.9		30.1		94.1		6.8		14.0		15		86				<0.2		1.2	
					Middle	4.3	0.4	276	22.6	22.6	7.9	7.9	30.2	30.2	93.9	94.0	6.8		16.8		17		93				<0.2		1.6	
						4.3	0.4	286	22.6		7.9		30.2		94.0		6.8		16.8		18		93				<0.2		1.5	
					Bottom	7.6	0.3	241	22.6	22.6	7.9	7.9	30.5	30.5	94.9	95.0	6.9	6.9	30.4		22		95				<0.2		1.1	
						7.6	0.3	257	22.6		7.9		30.5		95.0		6.9		30.3		21		94				<0.2		1.1	
IM12	Cloudy	Moderate	09:09	9.1	Surface	1.0	0.4	258	22.7	22.7	7.9	7.9	30.1	30.1	94.0	94.0	6.8	6.8	17.8	22.6	21	25	87	92	821167	811537	<0.2	<0.2	1.4	1.3
						1.0	0.5	283	22.7		7.9		30.1		93.9		6.8		17.9		21		87				<0.2		1.4	
					Middle	4.6	0.4	259	22.6	22.6	7.9	7.9	30.2	30.2	93.6	93.6	6.8		21.8		24		94				<0.2		1.1	
						4.6	0.5	279	22.6		7.9		30.2		93.5		6.8		21.1		23		93				<0.2		1.3	
					Bottom	8.1	0.4	268	22.6	22.6	7.9	7.9	30.4	30.4	93.3	93.3	6.8	6.8	28.4		29		95				<0.2		1.4	
						8.1	0.4	269	22.6		7.9		30.4		93.3		6.8		28.4		29		94				<0.2		1.4	
SR2	Cloudy	Moderate	08:44	4.5	Surface	1.0	0.2	259	22.6	22.6	7.9	7.9	30.4	30.4	93.0	93.0	6.7	6.7	17.6	18.4	16	16	88	92	821477	814160	<0.2	<0.2	1.6	1.6
						1.0	0.3	277	22.6		7.9		30.4		93.0		6.7		17.7		15		88				<0.2		1.7	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	273	22.6	22.6	7.9	7.9	30.4	30.4	93.3	93.4	6.8	6.8	19.0		16		95				<0.2		1.6	
						3.5	0.2	280	22.6		7.9		30.4		93.4		6.8		19.1		16		95				<0.2		1.6	
SR3	Cloudy	Moderate	09:51	8.8	Surface	1.0	0.6	68	23.0	23.0	7.8	7.8	28.1	28.1	90.1	90.1	6.6	6.6	8.5	12.0	9	9	-	-	822127	807584	-	-	-	-
						1.0	0.6	70	23.0		7.8		28.1		90.1		6.6		8.5		9		-				-		-	
					Middle	4.4	0.5	68	22.7	22.7	7.8	7.8	28.2	28.2	89.3	89.3	6.5		10.5		7		-				-		-	
						4.4	0.5	72	22.7		7.8		28.2		89.3		6.5		10.6		8		-				-		-	
					Bottom	7.8	0.4	112	22.6	22.6	7.8	7.8	28.6	28.6	89.6	89.6	6.6	6.6	17.1		10		-				-		-	
						7.8	0.5	119	22.6		7.8		28.6		89.6		6.6		17.0		8		-				-		-	
SR4A	Fine	Moderate	08:38	6.7	Surface	1.0	0.3	131	25.7	25.7	7.8	7.8	30.1	30.1	96.4	96.4	6.6	6.6	10.5	16.8	18	26	-	-	817174	807825	-	-	-	-
						1.0	0.3	134	25.7		7.8		30.1		96.4		6.6		10.6		17		-				-		-	
					Middle	3.4	0.3	111	25.5	25.5	7.8	7.8	30.2	30.2	95.0	95.0	6.6		15.3		27		-				-		-	
						3.4	0.4	115	25.5		7.8		30.2		95.0		6.5		15.3		26		-				-		-	
					Bottom	5.7	0.4	109	25.3	25.3	7.8	7.8	30.3	30.3	93.5	93.5	6.5	6.5	24.5		36		-				-		-	
						5.7	0.5	114	25.3		7.8		30.3		93.5		6.5		24.8		33		-				-		-	
SR5A	Fine	Moderate	08:11	4.1	Surface	1.0	0.1	204	25.3	25.3	7.8	7.8	30.4	30.4	94.1	94.1	6.5	6.5	10.6	11.9	16	18	-	-	816590	810695	-	-	-	-
						1.0	0.1	220	25.3		7.8		30.4		94.1		6.5		10.6		18		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.1	176	25.3	25.3	7.7	7.7	30.2	30.2	95.3	95.4	6.6	6.6	13.3		19		-				-		-	
						3.1	0.1	189	25.3		7.7		30.1		95.4		6.6		13.1		18		-				-		-	
SR6	Fine	Moderate	07:47	18.8	Surface	1.0	0.1	212	25.4	25.4	7.7	7.7	30.1	30.1	92.8	92.8	6.4	6.4	14.6	18.1	20	26	-	-	817914	814646	-	-	-	-
						1.0	0.1	215	25.4		7.7		30.1		92.8		6.4		14.6		20		-				-		-	
					Middle	9.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						9.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	17.8	0.1	205	25.4	25.4	7.7	7.7	29.9	29.9	92.7	92.8	6.4	6.4	21.6		33		-				-		-	
						17.8	0.1	222	25.4		7.7		29.9		92.8		6.4		21.6		32		-				-		-	
SR7	Cloudy	Moderate	07:50	18.8	Surface	1.0	0.2	196	22.7	22.7	7.8	7.8	30.4	30.4	92.0	92.0	6.7	6.7	12.9	20.7	17	19	-	-	823655	823761	-	-	-	-
						1.0	0.2	204	22.7		7.8		30.4		92.0		6.7		12.9		16		-				-		-	
					Middle	9.4	0.3	113	22.7	22.7	7.8	7.8	30.5	30.5	91.6	91.6	6.6		18.6		20		-				-		-	
						9.4	0.3	113	22.7		7.8		30.5		91.6		6.6		18.5		20		-				-		-	
					Bottom	17.8	0.3	139	22.7	22.7	7.8	7.8	30.7	30.8	91.6	91.9	6.6	6.7	30.9		20		-				-		-	
						17.8	0.3	147	22.7		7.8		30.8		92.1		6.7		30.4		21		-				-		-	
SR8	Cloudy	Moderate	08:59	5.1	Surface	1.0	0.2	198	23.0	23.0	7.8	7.8	29.5	29.5	94.5	94.5	6.8	6.8	13.4	18.9	19	19	-	-	820419	811581	-	-	-	-
						1.0	0.2	200	23.0		7.8		29.5		94.5		6.8		13.5		19		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.2	235	22.6	22.6	7.9	7.9	30.4	30.4	94.8	94.8	6.9	6.9	24.3		18		-				-		-	
						4.1	0.2	256	22.6		7.9		30.4		94.8		6.9		24.3		18		-				-		-	

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 17 November 16 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	Fine	Moderate	14:12	8.4	Surface	1.0	0.2	149	25.7	25.7	7.9	7.9	29.9	29.9	96.5	96.5	6.6	6.6	9.5	11.0	13	16	86	90	815626	804246	<0.2	<0.2	0.9	0.9
						1.0	0.2	155	25.7		7.9		29.9		96.4		6.6		9.5		14		86				<0.2		0.9	
					Middle	4.2	0.2	191	25.3	25.4	7.9	7.9	29.9	29.9	94.8	94.8	6.6		11.8		16		90				<0.2		0.8	
						4.2	0.2	204	25.4		7.9		29.9		94.8		6.6		11.8		16		90				<0.2		1.0	
					Bottom	7.4	0.2	208	25.4	25.4	7.9	7.9	30.0	30.0	96.5	96.6	6.7	6.7	11.8		18		94				<0.2		1.0	
						7.4	0.3	223	25.4		7.9		30.0		96.6		6.7		11.5		18		94				<0.2		1.0	
C2	Cloudy	Moderate	13:17	18.8	Surface	1.0	0.2	211	23.2	23.2	7.8	7.8	28.1	28.1	92.3	92.3	6.7	6.7	8.2	19.0	10	10	84	90	825698	806949	<0.2	<0.2	2.3	2.0
						1.0	0.3	216	23.2		7.8		28.1		92.3		6.7		8.1		8		84				<0.2		2.2	
					Middle	9.4	0.2	165	22.7	22.7	7.8	7.8	28.5	28.5	89.9	89.9	6.6		19.0		8		92				<0.2		1.9	
						9.4	0.2	178	22.7		7.8		28.5		89.9		6.6		19.2		9		91				<0.2		1.9	
					Bottom	17.8	0.3	94	22.7	22.7	7.8	7.8	28.9	28.8	89.8	90.1	6.6	6.6	29.2		13		93				<0.2		1.7	
						17.8	0.3	94	22.7		7.8		28.7		90.3		6.6		30.4		12		94				<0.2		1.8	
C3	Cloudy	Moderate	15:13	12.9	Surface	1.0	0.5	77	23.0	23.0	8.0	8.0	30.4	30.4	93.2	93.2	6.7	6.7	7.3	10.7	7	9	90	93	822113	817799	<0.2	<0.2	1.1	1.0
						1.0	0.6	84	23.0		8.0		30.4		93.1		6.7		7.4		8		89				<0.2		1.0	
					Middle	6.5	0.6	90	22.8	22.8	8.0	8.0	30.7	30.7	91.5	91.6	6.6		9.6		8		93				<0.2		1.0	
						6.5	0.6	93	22.8		8.0		30.7		91.6		6.6		9.6		7		93				<0.2		1.1	
					Bottom	11.9	0.6	91	22.8	22.8	8.0	8.0	30.9	30.9	91.5	91.7	6.6	6.6	15.2		12		95				<0.2		1.0	
						11.9	0.6	96	22.8		7.9		30.9		91.9		6.6		15.3		10		95				<0.2		1.0	
IM1	Fine	Moderate	13:55	7.7	Surface	1.0	0.3	162	25.4	25.4	7.9	7.9	30.2	30.2	94.0	94.0	6.5	6.5	13.4	16.7	11	14	86	89	818337	806452	<0.2	<0.2	0.8	0.9
						1.0	0.3	171	25.4		7.9		30.2		94.0		6.5		13.6		10		86				<0.2		0.7	
					Middle	3.9	0.3	168	25.3	25.3	7.9	7.9	30.2	30.2	93.9	94.0	6.5		17.1		16		88				<0.2		0.9	
						3.9	0.3	170	25.3		7.9		30.2		94.0		6.5		17.2		15		89				<0.2		1.0	
					Bottom	6.7	0.3	134	25.3	25.3	7.9	7.9	30.1	30.1	95.5	95.6	6.6	6.6	19.5		16		91				<0.2		1.0	
						6.7	0.3	145	25.3		7.9		30.1		95.6		6.6		19.5		16		92				<0.2		0.9	
IM2	Fine	Moderate	13:51	9.1	Surface	1.0	0.5	114	25.8	25.8	7.9	7.9	30.4	30.4	98.0	98.0	6.7	6.7	9.1	9.8	14	14	87	89	818862	806212	<0.2	<0.2	1.0	1.0
						1.0	0.5	125	25.8		7.9		30.4		98.0		6.7		9.1		13		87				<0.2		1.0	
					Middle	4.6	0.4	129	25.7	25.7	7.9	7.9	30.4	30.4	97.7	97.7	6.7		9.4		15		89				<0.2		1.2	
						4.6	0.5	140	25.7		7.9		30.4		97.7		6.7		9.4		15		89				<0.2		0.9	
					Bottom	8.1	0.5	162	25.6	25.6	7.9	7.9	30.3	30.3	97.6	97.6	6.7	6.7	10.8		15		91				<0.2		0.8	
						8.1	0.5	162	25.6		7.9		30.3		97.6		6.7		10.8		14		92				<0.2		0.9	
IM3	Fine	Moderate	13:44	9.3	Surface	1.0	0.5	93	25.8	25.8	8.0	8.0	30.8	30.8	98.3	98.3	6.7	6.7	9.3	11.3	11	12	86	90	819420	806006	<0.2	<0.2	1.4	1.1
						1.0	0.5	98	25.8		8.0		30.8		98.3		6.7		9.3		12		86				<0.2		1.3	
					Middle	4.7	0.4	128	25.8	25.8	8.0	8.0	30.8	30.8	97.8	97.8	6.7		10.3		12		90				<0.2		1.1	
						4.7	0.4	137	25.8		8.0		30.8		97.8		6.7		10.3		11		91				<0.2		0.9	
					Bottom	8.3	0.4	123	25.5	25.5	7.9	7.9	30.9	30.9	96.8	96.8	6.6	6.6	14.4		13		93				<0.2		0.9	
						8.3	0.4	127	25.5		7.9		30.9		96.8		6.6		14.3		13		94				<0.2		1.0	
IM4	Fine	Moderate	13:37	8.2	Surface	1.0	0.5	87	25.7	25.8	7.9	7.9	30.8	30.8	98.1	98.1	6.7	6.7	9.5	11.6	10	15	85	88	819586	805047	<0.2	<0.2	1.1	1.0
						1.0	0.5	91	25.8		7.9		30.8		98.1		6.7		9.4		12		85				<0.2		1.0	
					Middle	4.1	0.4	100	25.7	25.7	7.9	7.9	30.8	30.9	97.7	97.7	6.7		10.3		14		87				<0.2		1.2	
						4.1	0.5	106	25.7		7.9		30.9		97.6		6.7		10.4		16		89				<0.2		1.3	
					Bottom	7.2	0.4	114	25.5	25.5	7.9	7.9	30.9	30.9	96.8	96.8	6.7	6.7	14.9		18		90				<0.2		0.8	
						7.2	0.4	114	25.5		7.9		30.8		96.8		6.6		14.9		18		91				<0.2		0.8	
IM5	Fine	Moderate	13:30	6.9	Surface	1.0	0.3	89	25.7	25.7	7.9	7.9	30.8	30.8	98.3	98.3	6.7	6.7	9.5	13.1	13	13	86	90	820569	804907	<0.2	<0.2	0.8	0.8
						1.0	0.4	91	25.7		7.9		30.8		98.2		6.7		9.5		14		85				<0.2		0.8	
					Middle	3.5	0.4	91	25.8	25.8	7.9	7.9	30.8	30.8	97.8	97.8	6.7		10.5		14		89				<0.2		0.8	
						3.5	0.5	91	25.7		7.9		30.8		97.7		6.7		10.6		14		90				<0.2		0.8	
					Bottom	5.9	0.4	99	25.5	25.5	7.9	7.9	30.9	30.9	96.2	96.2	6.6	6.6	19.4		12		93				<0.2		0.8	
						5.9	0.4	104	25.5		7.9		30.9		96.2		6.6		19.3		12		94				<0.2		0.8	
IM6	Fine	Moderate	13:23	7.1	Surface	1.0	0.4	56	25.7	25.7	7.9	7.9	30.8	30.8	98.1	98.1	6.7	6.7	9.8	14.2	15	16	85	89	821049	805817	<0.2	<0.2	0.8	0.9
						1.0	0.5	57	25.7		7.9		30.8		98.1		6.7		9.7		16		86				<0.2		0.9	
					Middle	3.6	0.5	84	25.7	25.7	7.9	7.9	30.7	30.8	97.7	97.7	6.7		10.5		16		88				<0.2		0.9	
						3.6	0.5	84	25.7		7.9		30.8		97.7		6.7		10.4		17		88				<0.2		0.8	
					Bottom	6.1	0.4	87	25.5	25.5	7.9	7.9	30.8	30.8	95.8	95.9	6.6	6.6	22.2		17		92				<0.2		0.8	
						6.1	0.4	91	25.5		7.9		30.8		95.9		6.6		22.3		17		92				<0.2		0.9	
IM7	Fine	Moderate	13:16	18.8	Surface	1.0	0.6	76	25.8	25.8	7.9	7.9	30.6	30.6	97.9	97.9	6.7	6.7	10.3	13.8	14	15	87	90	821358	806819	<0.2	<0.2	0.9	0.9
						1.0	0.6	78	25.8		7.9		30.6		97.9		6.7		10.4		15		86				<0.2		0.9	
					Middle	9.4	0.6	68	25.6	25.6	7.9	7.9	30.6	30.6	97.2	97.2	6.7		12.3		13		89				<0.2		1.0	
						9.4	0.6	71	25.6		7.9		30.6		97.2		6.7		12.4		15		90				<0.2		1.0	
					Bottom	17.8	0.5	73	25.4	25.4	7.9	7.9	30.5	30.5	96.8	96.8	6.7	6.7	18.6		15		94				<0.2		0.9	
						17.8	0.5	74	25.4		7.9		30.5		96.8		6.7		18.6		16		94				<0.2		0.9	
IM8	Cloudy	Moderate	13:59	8.1	Surface	1.0	0.5	68	23.0	23.0	7.9	7.9	29.7	29.7	95.8	95.8	6.9	6.9	8.7	13.9	6	9	84	90	821706	807836	<0.2	<0.2	1.4	1.5
						1.0	0.5	68	23.0		7.9		29.7		95.8		6.9		8.8		8		84				<0.2		1.5	
					Middle	4.1	0.5	85	23.1	23.1	7.9	7.9	30.1	30.1	96.4	96.4	6.9		11.5		8		92				<0.2		1.4	
						4.1	0.5	85	23.1		7.9		30.1		96.3		6.9		11.6		10		92				<0.2		1.3	
					Bottom	7.1	0.4	91	22.9	22.9	7.9	7.9	30.3	30.3	95.3	95.3	6.9	6.9	21.7		11		94				<0.2		1.7	
						7.1	0.4	99	22.9		7.9		30.3		95.3		6.9		21.0		10		94				<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 17 November 16 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
IM9	Cloudy	Moderate	14:09	7.2	Surface	1.0	0.5	70	23.0	23.0	7.9	7.9	29.8	29.8	96.2	96.2	7.0	7.0	8.5	16.9	10	10	85	90	822080	808819	<0.2	<0.2	1.7	1.5
						1.0	0.5	74	23.0		7.9		29.8		96.1		6.9		8.6		8		84				<0.2		1.6	
					Middle	3.6	0.5	75	23.1	23.1	7.9	7.9	30.3	30.3	96.9	96.9	7.0		10.6		12		93				<0.2		1.6	
						3.6	0.5	77	23.1		7.9		30.3		96.9		7.0		10.5		12		92				<0.2		1.6	
					Bottom	6.2	0.4	74	22.8	22.8	7.9	7.9	30.5	30.5	99.7	100.2	7.2	7.3	33.2		10		94				<0.2		1.2	
						6.2	0.5	74	22.8		7.9		30.4		100.6		7.3		29.8		10		94				<0.2		1.0	
IM10	Cloudy	Moderate	14:17	7.4	Surface	1.0	0.5	91	23.0	23.0	7.9	7.9	29.8	29.8	95.3	95.3	6.9	6.9	8.8	14.5	9	9	85	91	822220	809843	<0.2	<0.2	1.4	1.3
						1.0	0.6	99	23.0		7.9		29.8		95.2		6.9		8.9		10		85				<0.2		1.4	
					Middle	3.7	0.5	92	22.8	22.8	7.9	7.9	30.2	30.2	94.3	94.4	6.8		16.7		8		93				<0.2		1.3	
						3.7	0.5	98	22.8		7.9		30.2		94.4		6.8		16.5		9		93				<0.2		1.3	
					Bottom	6.4	0.4	99	22.8	22.8	7.9	7.9	30.2	30.2	95.5	95.6	6.9	6.9	18.1		10		95				<0.2		1.3	
						6.4	0.4	102	22.8		7.9		30.2		95.6		6.9		18.1		9		94				<0.2		1.3	
IM11	Cloudy	Moderate	14:24	8.1	Surface	1.0	0.4	114	23.2	23.2	7.9	7.9	29.9	30.0	95.5	95.5	6.9	6.9	8.6	8.9	9	14	86	91	821511	810558	<0.2	<0.2	1.4	1.1
						1.0	0.4	120	23.2		7.9		30.0		95.4		6.9		8.7		8		87				<0.2		1.4	
					Middle	4.1	0.4	119	22.8	22.8	7.9	7.9	30.1	30.1	94.7	94.7	6.9		9.0		12		93				<0.2		0.8	
						4.1	0.4	122	22.8		7.9		30.1		94.7		6.9		8.9		14		93				<0.2		0.7	
					Bottom	7.1	0.3	189	22.6	22.6	7.9	7.9	30.4	30.4	95.7	96.1	6.9	7.0	9.2		20		95				<0.2		1.2	
						7.1	0.3	192	22.6		7.9		30.4		96.5		7.0		8.8		22		94				<0.2		1.3	
IM12	Cloudy	Moderate	14:31	8.3	Surface	1.0	0.4	97	23.0	23.1	7.9	7.9	29.8	29.8	96.2	96.2	6.9	6.9	7.1	9.0	13	15	87	92	821159	811506	<0.2	<0.2	1.1	1.2
						1.0	0.4	103	23.1		7.9		29.8		96.2		6.9		7.1		14		87				<0.2		1.0	
					Middle	4.2	0.4	106	23.0	23.0	7.9	7.9	30.1	30.1	95.7	95.7	6.9		7.9		14		93				<0.2		1.4	
						4.2	0.4	113	23.0		7.9		30.1		95.6		6.9		8.0		15		93				<0.2		1.3	
					Bottom	7.3	0.4	103	22.7	22.7	7.9	7.9	30.4	30.4	95.7	95.8	6.9	6.9	11.9		18		95				<0.2		1.3	
						7.3	0.4	109	22.7		7.9		30.4		95.8		6.9		11.8		16		95				<0.2		1.3	
SR2	Cloudy	Moderate	14:51	4.7	Surface	1.0	0.4	101	22.9	22.9	8.0	8.0	30.3	30.3	95.4	95.4	6.9	6.9	9.3	13.3	11	13	89	92	821449	814156	<0.2	<0.2	1.0	1.0
						1.0	0.4	104	22.9		8.0		30.3		95.4		6.9		9.3		12		89				<0.2		1.1	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.4	102	22.8	22.8	7.9	7.9	30.3	30.3	95.9	96.0	6.9	7.0	17.2		14		95				<0.2		0.8	
						3.7	0.5	108	22.8		7.9		30.3		96.1		7.0		17.2		14		95				<0.2		1.0	
SR3	Cloudy	Moderate	13:51	9.3	Surface	1.0	0.5	73	23.1	23.1	7.9	7.9	29.6	29.6	95.8	95.8	6.9	6.9	8.4	16.3	12	11	-	-	822144	807562	-	-	-	-
						1.0	0.6	79	23.1		7.9		29.6		95.8		6.9		8.5		12		-				-		-	
					Middle	4.7	0.5	81	23.1	23.1	7.9	7.9	30.2	30.2	96.4	96.4	6.9		13.0		10		-				-		-	
						4.7	0.6	81	23.1		7.9		30.2		96.4		6.9		13.2		9		-				-		-	
					Bottom	8.3	0.4	86	22.9	22.9	7.9	7.9	30.4	30.4	95.7	95.8	6.9	6.9	27.4		11		-				-		-	
						8.3	0.4	89	22.9		7.9		30.4		95.8		6.9		27.4		11		-				-		-	
SR4A	Fine	Moderate	14:35	7.9	Surface	1.0	0.5	82	25.5	25.5	7.9	7.9	30.1	30.1	95.3	95.3	6.6	6.6	9.1	10.2	16	16	-	-	817192	807829	-	-	-	-
						1.0	0.5	85	25.5		7.9		30.1		95.3		6.6		9.1		14		-				-		-	
					Middle	4.0	0.4	86	25.6	25.6	7.9	7.9	30.0	30.0	95.0	95.0	6.5		9.4		15		-				-		-	
						4.0	0.5	90	25.6		7.9		30.0		95.0		6.5		9.5		16		-				-		-	
					Bottom	6.9	0.5	118	25.4	25.4	7.8	7.8	29.8	29.8	94.8	94.9	6.6	6.6	12.1		16		-				-		-	
						6.9	0.5	124	25.4		7.8		29.8		94.9		6.6		12.0		16		-				-		-	
SR5A	Fine	Moderate	14:52	4.9	Surface	1.0	0.2	182	25.6	25.6	7.8	7.8	30.2	30.2	97.2	97.2	6.7	6.7	9.2	8.9	17	21	-	-	816611	810693	-	-	-	-
						1.0	0.2	195	25.6		7.8		30.2		97.2		6.7		9.1		19		-				-		-	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.1	194	25.4	25.4	7.8	7.8	29.9	29.9	97.2	97.3	6.7	6.7	8.5		22		-				-		-	
						3.9	0.1	203	25.4		7.8		29.9		97.3		6.7		8.6		24		-				-		-	
SR6	Fine	Moderate	15:16	4.2	Surface	1.0	0.2	109	26.0	26.0	7.8	7.8	30.0	30.0	98.3	98.3	6.7	6.7	6.3	7.3	12	13	-	-	817910	814652	-	-	-	-
						1.0	0.2	118	26.0		7.8		30.0		98.3		6.7		6.4		10		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	108	25.4	25.4	7.8	7.8	29.6	29.6	96.9	97.0	6.7	6.7	8.3		15		-				-		-	
						3.2	0.1	116	25.4		7.7		29.6		97.0		6.7		8.3		14		-				-		-	
SR7	Cloudy	Moderate	15:42	17.6	Surface	1.0	0.4	56	22.9	22.9	7.9	7.9	31.7	31.7	90.6	90.6	6.5	6.5	7.7	9.3	12	12	-	-	823651	823728	-	-	-	-
						1.0	0.4	58	22.9		7.9		31.7		90.6		6.5		7.7		10		-				-		-	
					Middle	8.8	0.3	146	22.8	22.8	7.9	7.9	31.7	31.7	90.3	90.3	6.5		9.3		13		-				-		-	
						8.8	0.3	148	22.8		7.9		31.7		90.3		6.5		9.2		13		-				-		-	
					Bottom	16.6	0.5	75	22.8	22.8	7.9	7.9	31.6	31.6	91.1	91.1	6.5	6.5	11.1		11		-				-		-	
						16.6	0.6	80	22.8		7.9		31.6		91.1		6.5		11.0		12		-				-		-	
SR8	Cloudy	Moderate	14:37	5.1	Surface	1.0	0.4	129	22.7	22.7	7.9	7.9	30.1	30.1	94.3	94.3	6.8	6.8	12.7	12.8	12	14	-	-	820422	811599	-	-	-	-
						1.0	0.4	139	22.7		7.9		30.1		94.2		6.8		12.8		14		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.3	158	22.6	22.6	7.9	7.9	30.3	30.3	95.4	95.4	6.9	6.9	13.0		16		-				-		-	
						4.1	0.3	163	22.6		7.9		30.3		95.4		6.9		12.7		14		-				-		-	

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 19 November 16 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	10:54	8.1	Surface	1.0	0.8	68	25.6	25.6	7.8	7.9	29.7	29.7	93.1	93.1	6.4	6.4	15.8	20.2	22	25	84	89	815612	804241	<0.2	<0.2	1.2	1.1
						1.0	0.8	68	25.6		7.9		29.7		93.1		6.4		15.9		23		83				<0.2		1.1	
					Middle	4.1	0.7	69	25.6	25.6	7.8	7.8	29.7	29.7	93.1	93.1	6.4		17.2		22		90				<0.2		1.1	
						4.1	0.7	71	25.6		7.8		29.7		93.1		6.4		17.2		22		89				<0.2		1.0	
					Bottom	7.1	0.5	86	25.6	25.6	7.8	7.8	29.9	29.9	93.1	93.2	6.4	6.4	28.0		29		94				<0.2		1.1	
						7.1	0.6	89	25.5		7.8		29.9		93.2		6.4		27.1		31		93				<0.2		1.1	
C2	Cloudy	Moderate	12:07	11.3	Surface	1.0	0.3	239	23.1	23.1	7.8	7.8	26.5	26.5	87.0	87.0	6.4	6.4	6.5	14.5	6	9	85	90	825685	806931	<0.2	<0.2	2.7	2.8
						1.0	0.3	248	23.1		7.8		26.5		87.0		6.4		6.6		8		85				<0.2		2.9	
					Middle	5.7	0.4	220	22.8	22.8	7.8	7.8	27.8	27.8	86.4	86.4	6.3		9.3		8		92				<0.2		2.8	
						5.7	0.5	222	22.8		7.8		27.8		86.4		6.3		9.3		10		92				<0.2		2.7	
					Bottom	10.3	0.4	250	22.8	22.8	7.8	7.8	28.0	28.0	86.6	86.6	6.3	6.3	27.7		10		94				<0.2		2.8	
						10.3	0.4	272	22.8		7.8		28.0		86.6		6.3		27.3		11		94				<0.2		2.9	
C3	Cloudy	Moderate	10:12	11.9	Surface	1.0	0.4	254	22.9	22.9	7.9	7.9	29.1	29.1	92.6	92.6	6.7	6.7	9.1	18.7	9	12	89	93	822094	817816	<0.2	<0.2	1.2	1.3
						1.0	0.5	277	22.9		7.9		29.1		92.6		6.7		9.5		9		89				<0.2		1.3	
					Middle	6.0	0.5	255	22.8	22.8	7.9	7.9	29.4	29.4	91.6	91.6	6.7		19.7		13		93				<0.2		1.2	
						6.0	0.5	259	22.8		7.9		29.4		91.6		6.7		19.7		12		94				<0.2		1.3	
					Bottom	10.9	0.5	269	22.7	22.7	7.9	7.9	29.5	29.5	91.9	91.9	6.7	6.7	27.3		15		95				<0.2		1.3	
						10.9	0.5	295	22.7		7.9		29.5		91.9		6.7		27.0		15		95				<0.2		1.2	
IM1	Cloudy	Moderate	11:15	8.8	Surface	1.0	0.5	87	25.9	25.9	7.8	7.8	28.4	28.4	90.8	90.8	6.3	6.3	16.3	21.6	16	19	86	90	818365	806440	<0.2	<0.2	1.5	1.4
						1.0	0.5	94	25.9		7.8		28.4		90.8		6.3		16.7		15		85				<0.2		1.4	
					Middle	4.4	0.5	127	25.7	25.8	7.8	7.8	28.8	28.8	90.2	90.4	6.3		25.2		18		91				<0.2		1.4	
						4.4	0.5	138	25.8		7.8		28.7		90.5		6.3		24.9		17		90				<0.2		1.5	
					Bottom	7.8	0.4	171	25.7	25.7	7.8	7.8	28.8	28.8	90.5	90.5	6.3	6.3	23.6		22		94				<0.2		1.3	
						7.8	0.4	171	25.7		7.8		28.8		90.5		6.3		23.0		23		94				<0.2		1.2	
IM2	Cloudy	Moderate	11:20	9.0	Surface	1.0	0.5	116	25.9	25.9	7.8	7.8	28.0	28.0	90.4	90.4	6.3	6.3	14.3	20.7	18	25	85	90	818832	806175	<0.2	<0.2	1.7	1.7
						1.0	0.5	122	25.9		7.8		28.0		90.4		6.3		14.5		19		85				<0.2		1.7	
					Middle	4.5	0.5	92	25.8	25.8	7.8	7.8	28.3	28.3	90.3	90.3	6.3		21.2		19		93				<0.2		1.7	
						4.5	0.5	96	25.8		7.8		28.3		90.3		6.3		19.9		19		91				<0.2		1.7	
					Bottom	8.0	0.5	98	25.7	25.7	7.8	7.8	28.4	28.4	91.3	91.3	6.3	6.3	27.1		35		94				<0.2		1.6	
						8.0	0.5	103	25.7		7.8		28.4		91.3		6.3		27.1		38		94				<0.2		1.6	
IM3	Cloudy	Moderate	11:28	8.6	Surface	1.0	0.5	116	25.8	25.8	7.8	7.8	27.9	27.9	90.2	90.2	6.3	6.3	14.8	22.6	20	21	85	90	819402	806019	<0.2	<0.2	1.8	1.8
						1.0	0.5	126	25.8		7.8		27.9		90.2		6.3		15.0		19		86				<0.2		1.7	
					Middle	4.3	0.5	87	25.7	25.7	7.8	7.8	28.2	28.2	90.1	90.1	6.3		22.1		21		88				<0.2		1.8	
						4.3	0.5	90	25.7		7.8		28.2		90.1		6.3		22.1		20		90				<0.2		1.8	
					Bottom	7.6	0.5	116	25.7	25.7	7.7	7.7	28.1	28.1	91.8	91.8	6.4	6.4	30.8		23		94				<0.2		1.7	
						7.6	0.5	125	25.7		7.7		28.1		91.8		6.4		30.8		21		95				<0.2		1.7	
IM4	Cloudy	Moderate	11:35	8.2	Surface	1.0	0.6	136	25.8	25.8	7.8	7.8	28.5	28.5	91.9	91.9	6.4	6.4	9.6	16.2	15	15	86	90	819555	805050	<0.2	<0.2	1.5	1.5
						1.0	0.6	143	25.8		7.8		28.5		91.9		6.4		9.7		13		85				<0.2		1.6	
					Middle	4.1	0.8	108	25.7	25.7	7.8	7.8	28.7	28.7	92.1	92.1	6.4		13.8		15		90				<0.2		1.6	
						4.1	0.9	109	25.7		7.8		28.6		92.1		6.4		13.9		17		89				<0.2		1.4	
					Bottom	7.2	0.6	72	25.6	25.6	7.7	7.7	28.9	28.9	96.4	96.4	6.7	6.7	25.0		15		94				<0.2		1.4	
						7.2	0.6	78	25.6		7.7		28.9		96.4		6.7		25.0		15		94				<0.2		1.5	
IM5	Cloudy	Moderate	11:44	7.2	Surface	1.0	0.7	132	25.7	25.7	7.8	7.8	27.9	27.9	90.2	90.3	6.3	6.3	14.0	19.0	16	19	84	90	820553	804919	<0.2	<0.2	1.5	1.7
						1.0	0.7	137	25.7		7.8		27.9		90.3		6.3		14.2		17		86				<0.2		1.5	
					Middle	3.6	0.7	100	25.7	25.7	7.8	7.8	28.2	28.2	90.3	90.3	6.3		20.4		17		91				<0.2		1.9	
						3.6	0.8	109	25.7		7.8		28.1		90.3		6.3		19.7		19		91				<0.2		1.8	
					Bottom	6.2	0.6	110	25.7	25.7	7.8	7.8	28.7	28.7	91.8	91.8	6.4	6.4	22.8		23		94				<0.2		1.8	
						6.2	0.6	112	25.7		7.8		28.7		91.8		6.4		22.8		21		94				<0.2		1.8	
IM6	Cloudy	Moderate	11:51	7.2	Surface	1.0	0.6	80	25.6	25.6	7.8	7.8	27.5	27.5	89.8	89.8	6.3	6.3	17.7	19.7	28	29	85	90	821047	805847	<0.2	<0.2	1.4	1.8
						1.0	0.6	85	25.6		7.8		27.5		89.8		6.3		17.7		27		86				<0.2		1.5	
					Middle	3.6	0.6	96	25.6	25.6	7.8	7.8	27.9	27.9	90.2	90.2	6.3		23.6		27		90				<0.2		2.0	
						3.6	0.7	97	25.6		7.8		27.9		90.2		6.3		23.6		28		89				<0.2		2.0	
					Bottom	6.2	0.5	146	25.5	25.5	7.8	7.8	28.9	28.9	94.0	94.0	6.5	6.5	17.9		30		94				<0.2		1.9	
						6.2	0.5	151	25.5		7.8		28.9		94.0		6.5		17.9		32		95				<0.2		1.9	
IM7	Cloudy	Moderate	11:58	8.2	Surface	1.0	0.4	78	25.8	25.8	7.8	7.8	27.9	27.9	92.4	92.4	6.4	6.5	9.7	12.4	16	20	86	90	821361	806820	<0.2	<0.2	1.8	1.8
						1.0	0.5	78	25.8		7.8		27.9		92.4		6.4		9.7		16		86				<0.2		2.0	
					Middle	4.1	0.5	83	25.9	25.9	7.8	7.8	28.0	28.0	93.2	93.3	6.5		11.9		15		90				<0.2		2.0	
						4.1	0.5	90	25.8		7.8		28.0		93.3		6.5		12.0		16		88				<0.2		1.9	
					Bottom	7.2	0.3	110	25.6	25.6	7.8	7.8	29.2	29.2	95.1	95.2	6.6	6.6	15.8		27		94				<0.2		1.5	
						7.2	0.3	110	25.6		7.8		29.2		95.3		6.6		15.4		29		95				<0.2		1.4	
IM8	Cloudy	Moderate	11:32	7.9	Surface	1.0	0.3	175	23.0	23.0	7.8	7.8	27.2	27.2	88.3	88.3	6.5	6.5	9.2	12.6	9	11	86	91	821699	807822	<0.2	<0.2	2.0	2.6
						1.0	0.4	190	23.0		7.8		27.2		88.2		6.5		9.2		10		86				<0.2		2.1	
					Middle	4.0	0.4	146	22.8	22.8	7.8	7.8	27.2	27.2	87.1	87.1	6.4		12.9		10		92				<0.2		2.9	
						4.0	0.4	149	22.8		7.8		27.2		87.1		6.4		12.9		11		92				<0.2		2.8	
					Bottom	6.9	0.3	162	22.8	22.8	7.8	7.8	27.4	27.4	87.6	87.6	6.4	6.4	15.7		12		94				<0.2		2.8	
						6.9	0.3	170	22.8		7.8		27.4		87.6		6.4		15.4		12		94				<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 19 November 16 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	11:21	7.5	Surface	1.0	0.4	264	22.9	22.9	7.8	7.8	27.7	27.7	89.6	89.6	6.6	6.6	10.6	15.5	18	20	86	91	822088	808802	<0.2	<0.2	2.7	2.6
						1.0	0.4	289	22.9		7.8		27.7		89.6		6.6		10.6		17		86				<0.2		2.6	
					Middle	3.8	0.3	225	22.8	22.8	7.8	7.8	27.7	27.7	89.2	89.2	6.5		16.4		22		93				<0.2		2.5	
						3.8	0.3	225	22.8		7.8		27.7		89.2		6.5		16.4		23		92				<0.2		2.6	
					Bottom	6.5	0.4	214	22.8	22.8	7.8	7.8	27.7	27.7	91.5	91.6	6.7	6.7	19.5		21		94				<0.2		2.8	
						6.5	0.4	235	22.8		7.8		27.7		91.6		6.7		19.4		21		94				<0.2		2.5	
IM10	Cloudy	Moderate	11:14	7.0	Surface	1.0	0.6	301	23.0	23.0	7.9	7.9	28.3	28.3	92.2	92.2	6.7	6.7	8.0	14.1	10	13	86	91	822239	809838	<0.2	<0.2	2.3	2.2
						1.0	0.6	313	23.0		7.9		28.3		92.2		6.7		7.9		9		86				<0.2		2.1	
					Middle	3.5	0.5	297	22.9	22.9	7.9	7.9	28.7	28.7	90.6	90.6	6.6		10.8		10		92				<0.2		2.1	
						3.5	0.5	301	22.9		7.9		28.7		90.6		6.6		10.8		11		92				<0.2		2.2	
					Bottom	6.0	0.4	283	22.8	22.8	7.9	7.9	29.0	29.0	90.5	90.5	6.6	6.6	23.4		17		95				<0.2		2.1	
						6.0	0.4	289	22.8		7.9		29.0		90.5		6.6		23.4		19		94				<0.2		2.2	
IM11	Cloudy	Moderate	11:05	7.4	Surface	1.0	0.5	288	23.0	23.0	7.9	7.9	28.5	28.5	91.9	91.9	6.7	6.7	8.4	16.9	15	17	87	91	821482	810533	<0.2	<0.2	1.7	1.8
						1.0	0.5	300	23.0		7.9		28.5		91.9		6.7		8.5		16		86				<0.2		1.8	
					Middle	3.7	0.5	289	22.9	22.9	7.9	7.9	29.0	29.0	91.0	91.0	6.6		15.1		17		93				<0.2		1.8	
						3.7	0.5	299	22.9		7.9		29.0		91.0		6.6		14.7		18		93				<0.2		1.8	
					Bottom	6.4	0.4	286	22.8	22.8	7.9	7.9	29.3	29.3	91.2	91.2	6.6	6.6	27.6		17		95				<0.2		1.8	
						6.4	0.4	313	22.8		7.9		29.3		91.2		6.6		27.0		17		94				<0.2		1.8	
IM12	Cloudy	Moderate	10:56	8.3	Surface	1.0	0.6	285	22.9	22.9	7.8	7.8	28.6	28.6	93.1	93.1	6.8	6.8	6.4	12.1	12	12	88	92	821145	811520	<0.2	<0.2	2.0	1.9
						1.0	0.6	301	22.9		7.8		28.6		93.1		6.8		6.5		10		88				<0.2		2.0	
					Middle	4.2	0.7	280	22.8	22.8	7.9	7.9	29.5	29.5	92.9	92.9	6.8		9.0		11		94				<0.2		1.8	
						4.2	0.8	305	22.8		7.9		29.5		92.9		6.8		9.2		11		93				<0.2		1.8	
					Bottom	7.3	0.6	273	22.7	22.7	7.9	7.9	29.8	29.8	94.3	94.3	6.8	6.8	20.8		14		95				<0.2		2.0	
						7.3	0.6	278	22.7		7.9		29.8		94.3		6.8		20.7		12		94				<0.2		2.0	
SR2	Cloudy	Moderate	10:34	4.3	Surface	1.0	0.4	291	22.7	22.7	7.9	7.9	29.5	29.5	93.0	93.0	6.8	6.8	19.6	19.6	27	28	89	92	821472	814157	<0.2	<0.2	1.5	1.5
						1.0	0.4	309	22.7		7.9		29.5		93.0		6.8		19.6		26		88				<0.2		1.6	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.4	289	22.7	22.7	7.8	7.8	29.5	29.5	94.5	94.5	6.9	6.9	19.5		30		95				<0.2		1.5	
						3.3	0.4	303	22.7		7.8		29.5		94.5		6.9		19.5		28		95				<0.2		1.5	
SR3	Cloudy	Moderate	11:37	8.3	Surface	1.0	0.3	203	23.0	23.0	7.8	7.8	26.8	26.8	88.1	88.1	6.5	6.5	6.4	10.0	6	8	-	-	822152	807588	-	-	-	-
						1.0	0.3	215	23.0		7.8		26.8		88.1		6.5		6.4		6		-				-		-	
					Middle	4.2	0.3	182	22.9	22.9	7.8	7.8	27.2	27.2	88.5	88.5	6.5		8.1		8		-				-		-	
						4.2	0.3	195	22.9		7.8		27.2		88.5		6.5		8.3		7		-				-		-	
					Bottom	7.3	0.4	198	22.8	22.8	7.8	7.8	27.5	27.5	89.9	89.9	6.6	6.6	15.4		11		-				-		-	
						7.3	0.4	206	22.8		7.8		27.5		89.9		6.6		15.4		10		-				-		-	
SR4A	Cloudy	Moderate	10:32	6.6	Surface	1.0	0.4	221	25.5	25.5	7.8	7.8	29.8	29.8	92.4	92.5	6.4	6.4	22.5	22.6	34	36	-	-	817192	807801	-	-	-	-
						1.0	0.4	226	25.5		7.8		29.8		92.5		6.4		22.7		33		-				-		-	
					Middle	3.3	0.3	215	25.5	25.5	7.8	7.8	29.7	29.7	92.6	92.6	6.4		23.0		35		-				-		-	
						3.3	0.4	227	25.5		7.8		29.7		92.6		6.4		22.7		37		-				-		-	
					Bottom	5.6	0.3	227	25.5	25.5	7.8	7.8	29.6	29.6	93.1	93.1	6.5	6.5	22.2		38		-				-		-	
						5.6	0.3	234	25.5		7.8		29.6		93.1		6.5		22.2		40		-				-		-	
SR5A	Cloudy	Moderate	10:15	4.0	Surface	1.0	0.2	299	25.5	25.5	7.8	7.8	30.0	30.0	93.5	93.6	6.5	6.5	13.5	13.8	20	21	-	-	816610	810685	-	-	-	-
						1.0	0.2	321	25.5		7.8		29.9		93.6		6.5		13.4		20		-				-		-	
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.2	299	25.5	25.5	7.7	7.7	29.9	29.9	94.3	94.3	6.5	6.5	14.2		21		-				-		-	
						3.0	0.2	313	25.5		7.7		29.9		94.3		6.5		14.2		23		-				-		-	
SR6	Cloudy	Moderate	09:50	4.1	Surface	1.0	0.2	180	25.6	25.6	7.7	7.7	29.7	29.7	90.6	90.7	6.3	6.3	19.8	21.4	43	**43**	-	-	817905	814653	-	-	-	-
						1.0	0.2	191	25.6		7.7		29.7		90.7		6.3		19.8		41		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.2	215	25.6	25.6	7.7	7.7	29.6	29.6	91.7	91.7	6.3	6.3	22.9		44		-				-		-	
						3.1	0.2	218	25.6		7.7		29.6		91.7		6.3		22.9		43		-				-		-	
SR7	Cloudy	Moderate	09:41	20.2	Surface	1.0	0.2	172	22.8	22.8	7.8	7.8	29.9	29.9	90.5	90.5	6.6	6.6	10.7	12.3	12	14	-	-	823617	823759	-	-	-	-
						1.0	0.2	179	22.8		7.8		29.9		90.5		6.6		10.6		12		-				-		-	
					Middle	10.1	0.2	220	22.8	22.8	7.8	7.8	30.0	30.0	90.1	90.1	6.5		11.4		15		-				-		-	
						10.1	0.2	221	22.8		7.8		30.0		90.1		6.5		11.3		14		-				-		-	
					Bottom	19.2	0.3	217	22.8	22.8	7.8	7.8	30.3	30.3	91.3	91.4	6.6	6.6	14.9		14		-				-		-	
						19.2	0.3	238	22.8		7.8		30.3		91.4		6.6		14.8		14		-				-		-	
SR8	Cloudy	Moderate	10:50	4.6	Surface	1.0	0.3	275	23.6	23.6	7.8	7.8	28.1	28.1	93.9	93.9	6.8	6.8	12.8	12.1	12	12	-	-	820411	811596	-	-	-	-
						1.0	0.3	275	23.6		7.8		28.1		93.9		6.8		12.8		10		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.3	273	22.9	22.9	7.8	7.8	28.3	28.3	93.0	93.0	6.8	6.8	11.3		14		-				-		-	
						3.6	0.3	293	22.9		7.8		28.3		93.0		6.8		11.3		12		-				-		-	

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 19 November 16 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	16:17	8.1	Surface	1.0	0.5	88	25.6	25.6	7.9	7.9	29.3	29.3	95.5	95.5	6.6	6.6	9.1	11.3	12	23	84	89	815612	804251	<0.2	<0.2	1.2	1.0
						1.0	0.5	95	25.6		7.9		29.3		95.5		6.6		9.1		12		85				<0.2		1.2	
					Middle	4.1	0.5	93	25.6	25.6	7.9	7.9	29.9	29.9	95.8	95.8	6.6		11.4		16		90				<0.2		1.1	
						4.1	0.5	94	25.6		7.9		29.8		95.8		6.6		11.3		16		89				<0.2		1.0	
					Bottom	7.1	0.4	70	25.6	25.6	7.9	7.9	30.5	30.5	96.8	96.8	6.7	6.7	13.4		40		92				<0.2		0.8	
						7.1	0.5	76	25.6		7.9		30.5		96.8		6.7		13.4		41		94				<0.2		0.8	
C2	Cloudy	Moderate	14:57	13.3	Surface	1.0	0.3	151	23.2	23.2	7.8	7.8	27.7	27.7	89.6	89.6	6.5	6.5	6.8	15.2	8	9	84	90	825696	806928	<0.2	<0.2	3.0	2.9
						1.0	0.4	164	23.2		7.8		27.7		89.6		6.5		6.8		7		83				<0.2		2.9	
					Middle	6.7	0.3	106	23.1	23.1	7.8	7.8	28.1	28.1	88.7	88.7	6.5		12.6		9		92				<0.2		3.0	
						6.7	0.4	111	23.1		7.8		28.1		88.7		6.5		12.6		8		92				<0.2		2.9	
					Bottom	12.3	0.3	179	23.0	23.0	7.8	7.8	28.5	28.5	88.4	88.4	6.4	6.4	26.6		12		93				<0.2		2.7	
						12.3	0.3	187	23.0		7.8		28.5		88.4		6.4		25.7		12		94				<0.2		2.7	
C3	Cloudy	Moderate	16:59	13.1	Surface	1.0	0.2	172	23.1	23.1	7.9	7.9	30.6	30.6	91.4	91.4	6.6	6.5	4.7	6.9	6	9	90	93	822125	817796	<0.2	<0.2	1.2	1.1
						1.0	0.2	187	23.1		7.9		30.6		91.3		6.6		4.7		8		89				<0.2		1.1	
					Middle	6.6	0.2	152	22.8	22.8	7.9	7.9	30.8	30.8	87.7	87.7	6.3		7.6		10		93				<0.2		1.2	
						6.6	0.2	158	22.8		7.9		30.8		87.7		6.3		7.6		8		93				<0.2		1.0	
					Bottom	12.1	0.2	171	22.8	22.8	7.9	7.9	30.9	30.9	88.2	88.2	6.4	6.4	8.4		10		95				<0.2		1.1	
						12.1	0.2	183	22.8		7.9		30.9		88.2		6.4		8.4		12		95				<0.2		1.1	
IM1	Cloudy	Moderate	15:53	7.4	Surface	1.0	0.5	165	25.9	25.9	7.9	7.9	29.7	29.7	96.6	96.6	6.6	6.6	10.2	16.9	16	20	85	90	818347	806475	<0.2	<0.2	1.2	1.1
						1.0	0.5	166	25.9		7.9		29.7		96.6		6.6		10.2		16		86				<0.2		1.1	
					Middle	3.7	0.5	139	25.7	25.7	7.9	7.9	29.6	29.6	96.3	96.3	6.6		15.9		16		90				<0.2		1.1	
						3.7	0.5	140	25.7		7.9		29.6		96.2		6.6		16.3		14		89				<0.2		1.1	
					Bottom	6.4	0.5	135	25.5	25.5	7.8	7.8	29.5	29.5	98.2	98.2	6.8	6.8	24.4		29		93				<0.2		1.1	
						6.4	0.5	143	25.5		7.8		29.5		98.2		6.8		24.4		29		94				<0.2		1.1	
IM2	Cloudy	Moderate	15:46	8.8	Surface	1.0	0.4	143	25.7	25.7	7.9	7.9	29.7	29.7	95.2	95.2	6.6	6.6	14.9	19.2	14	26	85	90	818862	806208	<0.2	<0.2	1.1	1.1
						1.0	0.4	143	25.7		7.9		29.7		95.2		6.6		14.9		12		86				<0.2		1.0	
					Middle	4.4	0.4	130	25.5	25.5	7.9	7.9	29.6	29.6	95.3	95.3	6.6		21.6		23		90				<0.2		1.1	
						4.4	0.4	140	25.5		7.9		29.6		95.3		6.6		21.6		24		91				<0.2		1.0	
					Bottom	7.8	0.3	119	25.5	25.5	7.8	7.8	29.4	29.4	97.5	97.6	6.8	6.8	21.2		38		94				<0.2		1.1	
						7.8	0.3	120	25.5		7.8		29.4		97.6		6.8		20.9		42		94				<0.2		1.2	
IM3	Cloudy	Moderate	15:32	8.6	Surface	1.0	0.5	114	25.6	25.6	7.9	7.9	29.9	29.9	93.7	93.7	6.5	6.5	18.1	22.3	20	26	86	90	819419	806028	<0.2	<0.2	1.3	1.2
						1.0	0.6	115	25.6		7.9		29.9		93.7		6.5		18.2		20		85				<0.2		1.3	
					Middle	4.3	0.5	132	25.5	25.6	7.9	7.9	29.9	29.9	93.1	93.1	6.4		23.2		22		90				<0.2		1.2	
						4.3	0.5	133	25.6		7.9		29.9		93.1		6.4		23.3		24		89				<0.2		1.2	
					Bottom	7.6	0.5	113	25.5	25.5	7.9	7.9	29.8	29.8	93.0	93.0	6.4	6.4	25.6		32		94				<0.2		1.2	
						7.6	0.5	123	25.5		7.9		29.8		93.0		6.4		25.6		35		93				<0.2		1.1	
IM4	Cloudy	Moderate	15:22	8.0	Surface	1.0	0.4	160	25.6	25.6	7.9	7.9	29.8	29.9	93.8	93.8	6.5	6.5	18.7	22.8	20	23	85	90	819586	805034	<0.2	<0.2	1.2	1.2
						1.0	0.4	161	25.6		7.9		29.9		93.8		6.5		18.9		22		86				<0.2		1.3	
					Middle	4.0	0.4	169	25.6	25.6	7.9	7.9	29.8	29.8	93.2	93.2	6.4		24.8		22		90				<0.2		1.2	
						4.0	0.4	180	25.6		7.9		29.8		93.2		6.4		24.8		20		91				<0.2		1.1	
					Bottom	7.0	0.4	156	25.5	25.5	7.9	7.9	29.8	29.8	93.6	93.6	6.5	6.5	24.9		27		94				<0.2		1.2	
						7.0	0.4	168	25.5		7.9		29.8		93.6		6.5		24.9		26		94				<0.2		1.2	
IM5	Cloudy	Moderate	15:16	7.1	Surface	1.0	0.5	127	25.6	25.6	7.9	7.9	29.8	29.8	94.0	94.0	6.5	6.5	18.6	22.5	21	23	86	90	820567	804915	<0.2	<0.2	1.3	1.2
						1.0	0.5	132	25.6		7.9		29.8		94.0		6.5		18.5		21		86				<0.2		1.2	
					Middle	3.6	0.5	107	25.6	25.6	7.9	7.9	29.8	29.8	93.6	93.6	6.5		23.8		20		91				<0.2		1.2	
						3.6	0.5	114	25.6		7.9		29.8		93.6		6.5		23.7		22		90				<0.2		1.2	
					Bottom	6.1	0.6	124	25.6	25.6	7.9	7.9	29.8	29.8	93.5	93.5	6.5	6.5	25.1		28		93				<0.2		1.3	
						6.1	0.6	128	25.6		7.9		29.8		93.5		6.5		25.1		26		94				<0.2		1.0	
IM6	Cloudy	Moderate	15:10	6.9	Surface	1.0	0.8	117	25.6	25.6	7.9	7.9	29.8	29.8	94.4	94.4	6.5	6.5	18.0	19.3	38	**39**	85	90	821073	805844	<0.2	<0.2	1.1	1.3
						1.0	0.8	127	25.6		7.9		29.8		94.4		6.5		18.0		37		87				<0.2		1.2	
					Middle	3.5	0.5	123	25.6	25.6	7.9	7.9	29.7	29.7	94.3	94.4	6.5		20.2		37		89				<0.2		1.2	
						3.5	0.6	123	25.6		7.9		29.7		94.4		6.5		20.2		38		90				<0.2		1.2	
					Bottom	5.9	0.5	111	25.6	25.6	7.9	7.9	29.7	29.7	94.9	94.9	6.6	6.6	19.6		40		94				<0.2		1.4	
						5.9	0.5	116	25.6		7.9		29.7		94.9		6.6		19.6		44		94				<0.2		1.5	
IM7	Cloudy	Moderate	15:04	8.5	Surface	1.0	0.5	110	25.7	25.7	7.8	7.8	27.8	27.8	91.3	91.3	6.4	6.4	11.7	14.6	15	19	86	90	821362	806839	<0.2	<0.2	2.1	2.1
						1.0	0.5	119	25.7		7.8		27.8		91.3		6.4		11.8		15		86				<0.2		2.2	
					Middle	4.3	0.4	101	25.7	25.7	7.8	7.8	28.0	28.0	91.9	91.9	6.4		15.0		15		90				<0.2		2.1	
						4.3	0.4	110	25.7		7.8		28.0		91.9		6.4		15.2		16		90				<0.2		2.2	
					Bottom	7.5	0.4	93	25.6	25.6	7.7	7.7	29.2	29.2	96.0	96.1	6.7	6.7	17.1		25		94				<0.2		2.1	
						7.5	0.4	93	25.6		7.7		29.2		96.2		6.7		16.8		26		94				<0.2		2.0	
IM8	Cloudy	Moderate	15:39	8.2	Surface	1.0	0.5	66	22.9	22.9	7.9	7.9	29.6	29.6	91.3	91.3	6.6	6.6	15.4	21.4	18	20	84	90	821699	807820	<0.2	<0.2	1.2	1.3
						1.0	0.5	67	22.9		7.9		29.6		91.2		6.6		15.5		20		84				<0.2		1.3	
					Middle	4.1	0.4	75	22.8	22.8	7.9	7.9	29.6	29.6	90.6	90.6	6.6		18.8		20		92				<0.2		1.4	
						4.1	0.4	75	22.8		7.9		29.6		90.6		6.6		18.8		20		92				<0.2		1.2	
					Bottom	7.2	0.4	105	22.7	22.7	7.9	7.9	29.7	29.7	91.4	91.4	6.6	6.6	29.7		20		94				<0.2		1.2	
						7.2	0.4	111	22.7		7.9		29.7		91.4		6.6		29.9		19		94				<0.2		1.3	

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 19 November 16 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
IM9	Cloudy	Rough	15:47	7.4	Surface	1.0	0.4	133	23.0	23.0	7.9	7.9	28.9	28.9	93.1	93.1	6.8	6.8	9.3	15.8	8	10	85	91	822113	808802	<0.2	<0.2	1.6	1.2
						1.0	0.4	144	23.0		7.9		28.9		93.1		6.8		9.4		9		85				<0.2		1.6	
					Middle	3.7	0.3	113	22.9	22.9	7.9	7.9	29.3	29.3	91.5	91.5	6.7		13.1		11		92				<0.2		0.6	
						3.7	0.3	117	22.9		7.9		29.3		91.5		6.7		13.2		9		93				<0.2		0.6	
					Bottom	6.4	0.4	122	22.8	22.8	7.9	7.9	29.4	29.4	91.0	91.0	6.6	6.6	24.9		10		94				<0.2		1.5	
						6.4	0.4	122	22.8		7.9		29.4		91.0		6.6		24.9		11		94				<0.2		1.4	
IM10	Cloudy	Rough	15:56	7.0	Surface	1.0	0.3	127	23.3	23.3	7.9	7.9	28.3	28.3	94.6	94.6	6.9	6.9	7.3	8.2	10	10	85	91	822230	809824	<0.2	<0.2	1.8	1.8
						1.0	0.3	132	23.3		7.9		28.3		94.6		6.9		7.3		8		86				<0.2		2.0	
					Middle	3.5	0.3	198	23.2	23.2	7.9	7.9	29.3	29.3	95.2	95.2	6.9		8.3		10		92				<0.2		2.0	
						3.5	0.3	208	23.2		7.9		29.3		95.2		6.9		8.2		9		92				<0.2		2.0	
					Bottom	6.0	0.3	176	23.0	23.0	7.9	7.9	29.8	29.8	95.2	95.2	6.9	6.9	9.0		9		95				<0.2		1.6	
						6.0	0.3	190	23.0		7.9		29.8		95.2		6.9		8.8		11		94				<0.2		1.6	
IM11	Cloudy	Rough	16:06	8.3	Surface	1.0	0.3	207	23.1	23.1	7.9	7.9	29.7	29.7	93.4	93.4	6.8	6.8	8.4	10.0	9	9	87	91	821490	810549	<0.2	<0.2	1.2	1.3
						1.0	0.3	224	23.1		7.9		29.7		93.4		6.8		8.4		8		87				<0.2		1.1	
					Middle	4.2	0.3	191	22.9	22.9	7.9	7.9	29.7	29.7	93.1	93.1	6.7		9.3		9		93				<0.2		1.2	
						4.2	0.3	206	22.9		7.9		29.7		93.1		6.7		9.2		10		92				<0.2		1.3	
					Bottom	7.3	0.3	168	22.8	22.8	7.9	7.9	29.8	29.8	94.0	94.1	6.8	6.8	12.4		10		95				<0.2		1.4	
						7.3	0.3	168	22.8		7.9		29.8		94.1		6.8		12.5		9		94				<0.2		1.4	
IM12	Cloudy	Rough	16:15	9.1	Surface	1.0	0.3	207	22.8	22.8	8.0	8.0	29.9	29.9	93.8	93.8	6.8	6.8	10.0	11.5	15	16	88	92	821156	811536	<0.2	<0.2	1.2	1.2
						1.0	0.3	226	22.8		8.0		29.9		93.8		6.8		9.8		14		88				<0.2		1.2	
					Middle	4.6	0.2	178	22.8	22.8	8.0	8.0	29.9	29.9	93.7	93.7	6.8		11.2		16		93				<0.2		1.1	
						4.6	0.2	187	22.8		8.0		29.9		93.7		6.8		11.2		18		92				<0.2		1.1	
					Bottom	8.1	0.3	166	22.8	22.8	7.9	7.9	29.9	29.9	94.1	94.1	6.8	6.8	13.4		16		95				<0.2		1.2	
						8.1	0.3	171	22.8		7.9		29.9		94.1		6.8		13.5		16		94				<0.2		1.2	
SR2	Cloudy	Moderate	16:37	5.2	Surface	1.0	0.2	238	22.8	22.8	7.9	7.9	29.7	29.7	94.8	94.8	6.9	6.9	7.0	6.9	9	10	89	92	821445	814180	<0.2	<0.2	1.2	1.2
						1.0	0.2	257	22.8		7.9		29.7		94.8		6.9		7.1		10		89				<0.2		1.0	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.3	245	22.8	22.8	7.9	7.9	29.7	29.7	96.4	96.5	7.0	7.0	6.7		10		95				<0.2		1.2	
						4.2	0.3	253	22.8		7.9		29.7		96.5		7.0		6.8		10		95				<0.2		1.2	
SR3	Cloudy	Moderate	15:33	8.8	Surface	1.0	0.5	81	23.0	23.0	7.9	7.9	29.3	29.3	92.9	92.9	6.7	6.7	14.4	18.6	16	18	-	-	822164	807586	-	-	-	-
						1.0	0.5	88	23.0		7.9		29.3		92.9		6.7		14.4		16		-				-		-	
					Middle	4.4	0.5	62	22.9	22.9	7.9	7.9	29.3	29.3	91.5	91.5	6.6		17.1		18		-				-		-	
						4.4	0.5	62	22.9		7.9		29.3		91.5		6.6		17.1		19		-				-		-	
					Bottom	7.8	0.4	85	22.7	22.8	7.9	7.9	29.6	29.6	90.6	90.7	6.6	6.6	24.2		18		-				-		-	
						7.8	0.4	88	22.8		7.9		29.6		90.7		6.6		24.2		18		-				-		-	
SR4A	Cloudy	Moderate	16:38	7.6	Surface	1.0	0.3	119	25.8	25.8	7.9	7.9	29.5	29.5	95.0	95.0	6.6	6.6	15.7	17.1	25	26	-	-	817177	807818	-	-	-	-
						1.0	0.3	120	25.8		7.9		29.5		95.0		6.6		15.7		24		-				-		-	
					Middle	3.8	0.3	121	25.8	25.8	7.9	7.9	29.5	29.5	95.4	95.4	6.6		17.0		24		-				-		-	
						3.8	0.3	132	25.8		7.9		29.5		95.4		6.6		17.0		23		-				-		-	
					Bottom	6.6	0.3	119	25.7	25.7	7.8	7.8	29.3	29.3	96.6	96.7	6.7	6.7	18.6		27		-				-		-	
						6.6	0.3	122	25.7		7.8		29.3		96.7		6.7		18.3		30		-				-		-	
SR5A	Cloudy	Moderate	16:56	3.8	Surface	1.0	0.1	238	25.6	25.6	7.8	7.8	30.0	30.0	93.9	93.9	6.5	6.5	9.5	9.6	15	15	-	-	816604	810697	-	-	-	-
						1.0	0.1	243	25.6		7.8		30.0		93.9		6.5		9.5		15		-				-		-	
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.1	234	25.5	25.5	7.8	7.8	29.9	29.9	95.8	95.8	6.6	6.6	9.6		16		-				-		-	
						2.8	0.1	245	25.5		7.8		29.9		95.8		6.6		9.6		14		-				-		-	
SR6	Cloudy	Moderate	17:18	4.0	Surface	1.0	0.2	125	25.7	25.7	7.8	7.8	29.5	29.5	93.6	93.6	6.5	6.5	10.5	11.7	14	16	-	-	817908	814677	-	-	-	-
						1.0	0.2	126	25.7		7.8		29.5		93.6		6.5		10.6		14		-				-		-	
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.2	104	25.6	25.6	7.8	7.8	29.4	29.4	94.7	94.8	6.6	6.6	12.7		17		-				-		-	
						3.0	0.2	111	25.6		7.8		29.4		94.8		6.6		12.8		18		-				-		-	
SR7	Cloudy	Moderate	17:31	18.1	Surface	1.0	0.2	135	22.8	22.8	7.9	7.9	30.9	30.9	88.3	88.3	6.4	6.4	6.8	6.7	9	10	-	-	823630	823750	-	-	-	-
						1.0	0.2	143	22.8		7.9		30.9		88.3		6.4		6.8		10		-				-		-	
					Middle	9.1	0.2	151	22.8	22.8	7.9	7.9	30.9	30.9	88.1	88.2	6.4		6.8		10		-				-		-	
						9.1	0.2	154	22.8		7.9		30.9		88.2		6.4		6.9		10		-				-		-	
					Bottom	17.1	0.9	275	22.8	22.8	7.9	7.9	31.0	31.0	89.2	89.3	6.4	6.4	6.4		10		-				-		-	
						17.1	1.0	300	22.8		7.9		31.0		89.3		6.4		6.7		8		-				-		-	
SR8	Cloudy	Moderate	16:22	5.3	Surface	1.0	0.3	169	23.0	23.0	7.9	7.9	29.4	29.4	94.7	94.8	6.9	6.9	8.8	8.5	12	12	-	-	820404	811573	-	-	-	-
						1.0	0.3	174	23.0		7.9		29.4		94.8		6.9		8.7		12		-				-		-	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.3	166	22.9	22.9	7.9	7.9	29.7	29.7	96.0	96.0	7.0	7.0	8.2		11		-				-		-	
						4.3	0.3	173	22.9		7.9		29.7		96.0		7.0		8.2		12		-				-		-	

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 22 November 16 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	14:17	7.7	Surface	1.0	0.3	120	25.6	25.7	7.8	7.8	27.9	27.9	95.5	95.5	6.7	6.7	4.2	6.0	7	7	85	90	815609	804230	<0.2	<0.2	2.2	2.1
						1.0	0.3	122	25.7		7.8		27.9		95.5		6.7		4.1		7		86				<0.2		2.0	
					Middle	3.9	0.4	67	25.7	25.7	7.8	7.8	28.1	28.1	95.9	95.9	6.7		5.1		8		91				<0.2		2.0	
						3.9	0.4	72	25.6		7.8		28.1		95.9		6.7		5.2		7		90				<0.2		2.0	
					Bottom	6.7	0.4	80	25.6	25.6	7.8	7.8	29.9	29.9	97.3	97.4	6.7	6.7	8.7		7		94				<0.2		2.1	
						6.7	0.4	81	25.6		7.8		29.9		97.4		6.7		8.7		8		94				<0.2		2.2	
C2	Rainy	Moderate	13:11	10.8	Surface	1.0	0.4	204	22.9	22.9	7.7	7.7	24.1	24.2	86.1	86.1	6.4	6.4	5.3	6.8	5	7	84	90	825684	806929	<0.2	<0.2	4.7	4.8
						1.0	0.4	217	22.9		7.7		24.2		86.1		6.4		5.3		7		84				<0.2		4.6	
					Middle	5.4	0.3	237	23.1	23.1	7.7	7.8	26.2	26.3	86.9	86.9	6.4		6.1		5		92				<0.2		4.7	
						5.4	0.3	259	23.1		7.8		26.3		86.9		6.4		6.2		7		92				<0.2		4.5	
					Bottom	9.8	0.4	258	23.1	23.1	7.8	7.8	28.1	28.1	88.8	88.9	6.5	6.5	8.9		8		94				<0.2		5.0	
						9.8	0.4	279	23.1		7.8		28.1		88.9		6.5		8.8		8		94				<0.2		5.0	
C3	Rainy	Moderate	14:58	12.9	Surface	1.0	0.5	272	22.9	22.9	7.9	7.9	29.3	29.3	93.3	93.3	6.8	6.8	3.5	5.7	3	4	88	92	822110	817819	<0.2	<0.2	1.3	1.4
						1.0	0.5	289	22.9		7.9		29.3		93.2		6.8		3.6		3		88				<0.2		1.4	
					Middle	6.5	0.6	274	22.8	22.8	7.9	7.9	29.8	29.8	92.5	92.5	6.7		6.7		5		93				<0.2		1.6	
						6.5	0.6	274	22.8		7.9		29.8		92.5		6.7		6.7		5		94				<0.2		1.4	
					Bottom	11.9	0.7	271	22.8	22.8	7.9	7.9	30.0	30.0	96.4	96.6	7.0	7.0	7.0		5		96				<0.2		1.4	
						11.9	0.7	289	22.8		7.9		30.0		96.8		7.0		6.9		5		95				<0.2		1.5	
IM1	Cloudy	Moderate	13:55	7.0	Surface	1.0	0.2	197	25.6	25.6	7.8	7.8	27.6	27.7	94.2	94.2	6.6	6.6	4.7	5.5	7	15	86	90	818341	806472	<0.2	<0.2	2.4	1.6
						1.0	0.3	200	25.6		7.8		27.7		94.2		6.6		4.8		6		86				<0.2		2.4	
					Middle	3.5	0.3	120	25.7	25.7	7.8	7.8	28.2	28.2	94.9	94.9	6.6		5.6		6		91				<0.2		1.5	
						3.5	0.4	128	25.7		7.8		28.2		94.9		6.6		5.7		6		90				<0.2		1.5	
					Bottom	6.0	0.4	169	25.6	25.7	7.8	7.8	29.0	29.0	96.4	96.5	6.7	6.7	6.1		30		94				<0.2		1.0	
						6.0	0.5	180	25.7		7.8		28.9		96.5		6.7		6.0		32		94				<0.2		1.0	
IM2	Cloudy	Moderate	13:50	7.4	Surface	1.0	0.6	229	25.7	25.7	7.7	7.7	25.8	25.8	92.2	92.2	6.5	6.6	4.4	5.7	6	8	85	90	818864	806175	<0.2	<0.2	3.5	2.9
						1.0	0.6	239	25.7		7.7		25.8		92.2		6.5		4.5		6		85				<0.2		3.7	
					Middle	3.7	0.4	250	25.7	25.7	7.8	7.8	27.3	27.3	94.3	94.4	6.6		6.2		6		90				<0.2		3.2	
						3.7	0.5	268	25.7		7.8		27.3		94.4		6.6		6.2		6		90				<0.2		3.3	
					Bottom	6.4	0.4	232	25.7	25.7	7.8	7.8	29.0	29.0	96.7	96.7	6.7	6.7	6.4		13		94				<0.2		1.8	
						6.4	0.4	254	25.7		7.8		29.0		96.7		6.7		6.4		12		95				<0.2		1.8	
IM3	Rain	Moderate	13:42	7.8	Surface	1.0	0.6	243	25.7	25.7	7.7	7.7	25.9	25.9	90.0	90.0	6.3	6.4	4.8	5.7	6	9	86	89	819426	806024	<0.2	<0.2	3.7	3.1
						1.0	0.7	262	25.7		7.7		25.9		90.0		6.3		4.9		4		85				<0.2		3.9	
					Middle	3.9	0.6	243	25.7	25.7	7.7	7.7	26.0	26.0	91.5	91.6	6.4		5.9		10		90				<0.2		2.4	
						3.9	0.6	263	25.7		7.7		26.0		91.6		6.5		6.0		9		88				<0.2		2.3	
					Bottom	6.8	0.4	250	25.7	25.7	7.6	7.6	26.0	26.0	95.0	95.0	6.7	6.7	6.3		14		93				<0.2		3.3	
						6.8	0.4	252	25.7		7.6		26.0		95.0		6.7		6.3		12		94				<0.2		3.2	
IM4	Rain	Moderate	13:34	7.3	Surface	1.0	0.6	243	25.7	25.7	7.7	7.7	25.7	25.7	90.7	90.7	6.4	6.5	4.0	5.2	5	7	84	89	819565	805058	<0.2	<0.2	3.6	2.7
						1.0	0.6	250	25.7		7.7		25.7		90.7		6.4		4.0		6		85				<0.2		3.5	
					Middle	3.7	0.4	239	25.7	25.7	7.7	7.7	26.2	26.2	92.8	92.9	6.5		5.6		7		90				<0.2		2.3	
						3.7	0.5	247	25.7		7.7		26.2		92.9		6.5		5.6		6		90				<0.2		2.3	
					Bottom	6.3	0.3	216	25.7	25.7	7.7	7.7	27.5	27.5	95.6	95.6	6.7	6.7	6.1		10		93				<0.2		2.2	
						6.3	0.3	218	25.7		7.7		27.5		95.6		6.7		6.1		8		94				<0.2		2.2	
IM5	Rain	Moderate	13:27	6.2	Surface	1.0	0.3	229	25.7	25.7	7.7	7.7	26.2	26.2	93.0	93.0	6.6	6.6	4.3	6.5	5	10	86	90	820557	804910	<0.2	<0.2	3.2	2.6
						1.0	0.4	242	25.7		7.7		26.2		93.0		6.6		4.4		4		86				<0.2		3.2	
					Middle	3.1	0.4	260	25.7	25.7	7.8	7.8	27.8	27.8	94.0	94.0	6.6		6.6		8		91				<0.2		3.2	
						3.1	0.4	273	25.7		7.8		27.8		94.0		6.6		6.8		8		90				<0.2		3.1	
					Bottom	5.2	0.4	233	25.7	25.7	7.8	7.8	29.1	29.1	94.4	94.4	6.5	6.5	8.5		16		94				<0.2		1.4	
						5.2	0.4	236	25.7		7.8		29.1		94.4		6.5		8.5		16		94				<0.2		1.4	
IM6	Cloudy	Moderate	13:20	6.0	Surface	1.0	0.5	241	25.7	25.7	7.7	7.7	26.7	26.7	92.0	92.0	6.5	6.5	5.5	7.0	7	12	84	89	821044	805809	<0.2	<0.2	2.9	2.4
						1.0	0.5	260	25.6		7.7		26.7		92.0		6.5		5.6		9		85				<0.2		3.0	
					Middle	3.0	0.5	253	25.7	25.7	7.8	7.8	27.7	27.7	93.4	93.4	6.5		7.5		9		90				<0.2		2.6	
						3.0	0.5	267	25.7		7.8		27.7		93.4		6.5		7.5		7		90				<0.2		2.7	
					Bottom	5.0	0.4	235	25.7	25.7	7.8	7.8	28.5	28.5	96.6	96.6	6.7	6.7	8.0		19		93				<0.2		1.7	
						5.0	0.4	252	25.7		7.8		28.5		96.6		6.7		8.0		18		94				<0.2		1.6	
IM7	Cloudy	Moderate	13:13	7.5	Surface	1.0	0.6	214	25.7	25.7	7.6	7.6	23.9	23.9	88.4	88.4	6.3	6.3	4.2	8.8	6	12	85	89	821341	806822	<0.2	<0.2	3.8	<u>3.3</u>
						1.0	0.7	231	25.7		7.6		23.8		88.4		6.3		4.2		6		85				<0.2		3.7	
					Middle	3.8	0.5	239	25.8	25.8	7.7	7.7	26.3	26.3	90.1	90.2	6.3		10.5		10		89				<0.2		3.5	
						3.8	0.5	256	25.8		7.7		26.3		90.2		6.3		10.7		9		89				<0.2		3.3	
					Bottom	6.5	0.4	241	25.8	25.8	7.6	7.6	26.4	26.4	93.7	93.7	6.6	6.6	11.5		19		94				<0.2		2.6	
						6.5	0.5	253	25.8		7.6		26.4		93.7		6.6		11.5		20		94				<0.2		2.6	
IM8	Cloudy	Moderate	13:40	7.7	Surface	1.0	0.4	202	22.9	22.9	7.8	7.8	25.5	25.5	90.0	90.0	6.7	6.7	3.8	4.1	6	8	84	90	821709	807835	<0.2	<0.2	4.5	**<u>4.5</u>**
						1.0	0.4	218	22.9		7.8		25.5		90.0		6.7		3.8		8		85				<0.2		4.5	
					Middle	3.9	0.4	229	22.9	22.9	7.8	7.8	25.9	25.9	90.5	90.6	6.7		4.1		7		92				<0.2		4.5	
						3.9	0.4	229	22.9		7.8		25.9		90.6		6.7		4.1		8		92				<0.2		4.5	
					Bottom	6.7	0.7	265	23.0	23.0	7.8	7.8	26.3	26.3	91.7	91.8	6.8	6.8	4.4		10		94				<0.2		4.3	
						6.7	0.8	266	23.0		7.8		26.3		91.8		6.8		4.4		8		94				<0.2		4.4	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 22 November 16 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	13:48	6.5	Surface	1.0	0.3	238	22.9	22.9	7.8	7.8	25.0	25.0	91.2	91.2	6.8	6.8	2.9	5.0	4	5	85	91	822093	808794	<0.2	<0.2	4.4	**4.2**
						1.0	0.3	243	22.9		7.8		25.0		91.2		6.8		3.0		5		85				<0.2		4.3	
					Middle	3.3	0.4	264	22.9	22.9	7.8	7.8	26.2	26.2	91.4	91.4	6.8		4.2		4		93				<0.2		4.2	
						3.3	0.4	286	22.9		7.8		26.2		91.4		6.8		4.2		6		92				<0.2		4.3	
					Bottom	5.5	0.4	259	23.0	23.0	7.8	7.8	27.1	27.1	92.2	92.3	6.8	6.8	7.7		5		95				<0.2		4.1	
						5.5	0.4	283	23.0		7.8		27.1		92.3		6.8		7.7		6		94				<0.2		4.1	
IM10	Rainy	Moderate	13:56	7.2	Surface	1.0	0.5	282	23.0	23.0	7.8	7.8	26.8	26.8	92.7	92.7	6.8	6.8	3.4	5.6	4	5	85	91	822220	809820	<0.2	<0.2	3.0	3.1
						1.0	0.5	301	23.0		7.8		26.8		92.7		6.8		3.5		5		87				<0.2		3.0	
					Middle	3.6	0.6	292	23.0	23.0	7.8	7.8	27.0	27.0	92.8	92.8	6.8		4.5		4		93				<0.2		3.1	
						3.6	0.6	318	23.0		7.8		27.0		92.8		6.8		4.7		5		93				<0.2		3.2	
					Bottom	6.2	0.6	287	23.0	23.0	7.8	7.8	27.5	27.5	93.9	94.1	6.9	6.9	8.8		5		95				<0.2		3.0	
						6.2	0.6	303	23.0		7.8		27.5		94.3		6.9		8.8		6		94				<0.2		3.0	
IM11	Rainy	Moderate	14:04	8.1	Surface	1.0	0.5	288	23.0	23.0	7.8	7.8	26.9	26.9	94.7	94.7	7.0	7.0	4.4	9.3	3	6	86	92	821482	810543	<0.2	<0.2	3.2	3.1
						1.0	0.5	307	23.0		7.8		26.9		94.7		7.0		4.4		4		87				<0.2		3.1	
					Middle	4.1	0.6	298	22.9	22.9	7.8	7.8	27.1	27.1	95.1	95.1	7.0		8.0		6		93				<0.2		3.0	
						4.1	0.6	301	22.9		7.8		27.1		95.1		7.0		9.1		6		93				<0.2		2.9	
					Bottom	7.1	0.4	275	22.9	22.9	7.9	7.9	28.3	28.3	95.6	95.6	7.0	7.0	15.0		8		95				<0.2		3.0	
						7.1	0.4	301	22.9		7.9		28.3		95.6		7.0		15.0		9		95				<0.2		3.1	
IM12	Rainy	Moderate	14:13	7.2	Surface	1.0	0.7	274	23.0	23.0	7.8	7.8	27.1	27.1	95.3	95.3	7.0	7.0	4.1	14.3	7	6	87	92	821159	811533	<0.2	<0.2	2.8	2.8
						1.0	0.7	282	23.0		7.8		27.1		95.3		7.0		4.2		5		87				<0.2		2.7	
					Middle	3.6	0.8	283	23.0	23.0	7.8	7.8	27.4	27.4	95.4	95.4	7.0		8.1		5		93				<0.2		2.8	
						3.6	0.8	285	23.0		7.8		27.4		95.4		7.0		8.1		5		94				<0.2		2.8	
					Bottom	6.2	0.5	286	22.8	22.8	7.9	7.9	29.0	29.0	96.0	96.0	7.0	7.0	30.6		6		95				<0.2		2.8	
						6.2	0.5	302	22.8		7.9		29.0		95.9		7.0		30.6		6		95				<0.2		2.7	
SR2	Rainy	Moderate	14:35	4.8	Surface	1.0	0.4	300	22.9	22.9	7.9	7.9	28.8	28.8	95.3	95.3	6.9	6.9	8.5	9.1	13	14	87	91	821469	814153	<0.2	<0.2	1.8	1.8
						1.0	0.4	327	22.9		7.9		28.8		95.3		6.9		8.6		14		87				<0.2		1.7	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.3	274	22.9	22.9	7.8	7.8	29.0	29.0	97.7	98.2	7.1	7.2	9.4		15		95				<0.2		1.8	
						3.8	0.4	282	22.9		7.8		29.0		98.6		7.2		9.8		14		95				<0.2		1.7	
SR3	Cloudy	Moderate	13:35	8.3	Surface	1.0	0.5	251	23.0	23.0	7.7	7.7	25.1	25.2	89.3	89.3	6.6	6.6	3.4	3.7	8	7	-	-	822163	807567	-	-	-	-
						1.0	0.5	262	23.0		7.7		25.2		89.3		6.6		3.4		7		-				-		-	
					Middle	4.2	0.4	226	23.0	23.0	7.8	7.8	26.5	26.5	89.8	89.8	6.6		3.5		7		-				-		-	
						4.2	0.4	232	23.0		7.8		26.5		89.8		6.6		3.5		6		-				-		-	
					Bottom	7.3	0.9	276	23.0	23.0	7.8	7.8	27.0	27.0	91.2	91.3	6.7	6.7	4.1		8		-				-		-	
						7.3	0.9	283	23.0		7.8		27.0		91.3		6.7		4.1		7		-				-		-	
SR4A	Cloudy	Calm	14:37	7.4	Surface	1.0	0.4	246	25.7	25.7	7.8	7.8	30.0	30.0	93.9	94.0	6.5	6.5	13.5	13.8	18	21	-	-	817181	807823	-	-	-	-
						1.0	0.4	252	25.7		7.8		30.0		94.0		6.5		13.6		18		-				-		-	
					Middle	3.7	0.4	248	25.7	25.7	7.8	7.8	30.0	30.0	94.5	94.6	6.5		13.4		20		-				-		-	
						3.7	0.4	252	25.7		7.8		30.0		94.6		6.5		13.6		18		-				-		-	
					Bottom	6.4	0.3	234	25.7	25.7	7.8	7.8	30.0	30.0	96.0	96.0	6.6	6.6	14.4		25		-				-		-	
						6.4	0.3	244	25.7		7.8		30.0		96.0		6.6		14.4		24		-				-		-	
SR5A	Cloudy	Calm	14:56	3.9	Surface	1.0	0.2	303	25.7	25.7	7.8	7.8	29.8	29.8	98.0	98.1	6.8	6.8	11.5	12.2	18	19	-	-	816583	810690	-	-	-	-
						1.0	0.2	307	25.7		7.8		29.8		98.1		6.8		11.6		19		-				-		-	
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.2	311	25.7	25.7	7.7	7.7	29.8	29.8	100.7	100.8	7.0	7.0	12.7		20		-				-		-	
						2.9	0.2	339	25.7		7.7		29.8		100.9		7.0		12.8		20		-				-		-	
SR6	Cloudy	Moderate	15:20	4.0	Surface	1.0	0.3	242	25.7	25.7	7.7	7.7	27.8	27.9	96.7	96.8	6.7	6.7	4.8	5.6	8	10	-	-	817880	814653	-	-	-	-
						1.0	0.3	247	25.7		7.7		27.9		96.8		6.7		4.9		10		-				-		-	
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.2	254	25.7	25.7	7.7	7.7	28.1	28.1	98.9	99.0	6.9	6.9	6.4		10		-				-		-	
						3.0	0.2	266	25.7		7.7		28.1		99.1		6.9		6.2		10		-				-		-	
SR7	Rainy	Moderate	15:33	18.1	Surface	1.0	0.2	170	22.8	22.8	7.9	7.9	30.0	30.0	90.2	90.2	6.5	6.5	4.7	6.1	5	7	-	-	823649	823723	-	-	-	-
						1.0	0.2	184	22.8		7.9		30.0		90.1		6.5		4.7		6		-				-		-	
					Middle	9.1	0.4	120	22.8	22.8	7.9	7.9	30.3	30.3	89.9	90.0	6.5		6.7		7		-				-		-	
						9.1	0.4	121	22.8		7.9		30.3		90.0		6.5		6.7		7		-				-		-	
					Bottom	17.1	1.2	250	22.8	22.8	7.9	7.9	30.3	30.3	91.9	91.9	6.6	6.7	6.8		8		-				-		-	
						17.1	1.3	252	22.8		7.9		30.3		91.9		6.7		6.9		8		-				-		-	
SR8	Rainy	Moderate	14:19	4.8	Surface	1.0	0.3	209	23.4	23.4	7.8	7.8	27.1	27.1	97.0	97.0	7.1	7.1	8.6	11.0	8	10	-	-	820399	811593	-	-	-	-
						1.0	0.4	215	23.4		7.8		27.1		97.0		7.1		8.6		10		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.4	230	22.9	22.9	7.8	7.8	27.9	27.9	96.6	96.7	7.1	7.1	13.1		10		-				-		-	
						3.8	0.4	249	22.9		7.8		27.9		96.7		7.1		13.6		12		-				-		-	

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 22 November 16 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	Rainy	Moderate	06:18	8.7	Surface	1.0	1.0	217	25.6	25.6	7.8	7.8	27.8	27.8	97.2	97.2	6.8	6.8	3.3	5.8	4	7	85	90	815628	804236	<0.2	<0.2	1.7	1.3
						1.0	1.0	226	25.6		7.8		27.8		97.2		6.8		3.3		4		86				<0.2		1.7	
					Middle	4.4	0.7	220	25.6	25.6	7.8	7.8	29.9	29.9	97.6	97.7	6.7		5.3		6		91				<0.2		1.4	
						4.4	0.8	237	25.6		7.8		29.9		97.7		6.7		5.4		7		91				<0.2		1.4	
					Bottom	7.7	0.6	228	25.6	25.6	7.8	7.8	30.5	30.5	100.2	100.2	6.9	6.9	8.7		12		94				<0.2		0.7	
						7.7	0.6	249	25.6		7.8		30.5		100.2		6.9		8.7		11		95				<0.2		0.8	
C2	Rainy	Moderate	08:13	11.1	Surface	1.0	0.8	166	22.9	22.9	7.7	7.7	24.0	24.0	85.8	85.8	6.4	6.4	5.4	9.1	6	8	85	90	825662	806933	<0.2	<0.2	3.8	3.4
						1.0	0.8	181	22.9		7.7		24.0		85.8		6.4		5.5		7		84				<0.2		4.0	
					Middle	5.6	0.7	170	23.1	23.1	7.7	7.7	25.3	25.3	86.5	86.5	6.4		6.5		9		92				<0.2		2.5	
						5.6	0.8	176	23.1		7.7		25.3		86.5		6.4		6.6		7		93				<0.2		2.5	
					Bottom	10.1	0.5	197	23.1	23.1	7.7	7.7	28.3	28.3	90.4	90.4	6.6	6.6	15.4		9		94				<0.2		3.6	
						10.1	0.5	199	23.1		7.7		28.3		90.4		6.6		15.4		9		94				<0.2		3.7	
C3	Rainy	Moderate	05:51	12.5	Surface	1.0	0.4	113	22.9	22.9	7.8	7.8	29.3	29.3	93.8	93.8	6.8	6.8	4.9	6.6	4	6	90	93	822111	817788	<0.2	<0.2	1.6	1.5
						1.0	0.4	121	22.9		7.8		29.3		93.8		6.8		4.9		5		89				<0.2		1.5	
					Middle	6.3	0.3	110	22.8	22.8	7.8	7.8	29.6	29.6	93.0	93.0	6.8		6.3		6		94				<0.2		1.4	
						6.3	0.3	117	22.8		7.8		29.6		92.9		6.8		6.4		5		93				<0.2		1.4	
					Bottom	11.5	0.5	174	22.8	22.8	7.7	7.7	30.1	30.1	94.0	94.1	6.8	6.8	8.5		6		96				<0.2		1.6	
						11.5	0.5	177	22.8		7.7		30.1		94.1		6.8		8.5		7		96				<0.2		1.7	
IM1	Rainy	Moderate	06:45	7.0	Surface	1.0	0.6	197	25.7	25.7	7.7	7.7	27.0	27.0	94.3	94.4	6.6	6.6	7.4	7.3	7	12	86	90	818343	806449	<0.2	<0.2	2.4	1.5
						1.0	0.7	210	25.7		7.7		27.0		94.4		6.6		7.4		6		85				<0.2		2.2	
					Middle	3.5	0.5	196	25.7	25.7	7.8	7.8	28.8	28.8	95.0	95.0	6.6		7.3		10		90				<0.2		1.4	
						3.5	0.5	206	25.7		7.8		28.8		95.0		6.6		7.3		11		88				<0.2		1.3	
					Bottom	6.0	0.3	194	25.7	25.7	7.8	7.8	29.6	29.6	96.1	96.2	6.6	6.6	7.2		19		95				<0.2		0.9	
						6.0	0.3	205	25.7		7.8		29.6		96.2		6.6		7.2		18		94				<0.2		0.8	
IM2	Rainy	Moderate	06:52	7.8	Surface	1.0	0.9	226	25.7	25.7	7.7	7.7	26.1	26.1	93.7	93.7	6.6	6.7	4.7	7.4	9	13	86	90	818856	806175	<0.2	<0.2	2.0	2.0
						1.0	0.9	238	25.7		7.7		26.1		93.7		6.6		4.7		9		85				<0.2		2.1	
					Middle	3.9	0.8	221	25.7	25.7	7.7	7.7	26.7	26.7	94.9	94.9	6.7		8.3		12		90				<0.2		2.0	
						3.9	0.8	229	25.7		7.7		26.7		94.9		6.7		8.3		11		90				<0.2		2.0	
					Bottom	6.8	0.6	213	25.7	25.7	7.7	7.7	27.3	27.3	97.6	97.6	6.8	6.8	9.3		18		94				<0.2		2.1	
						6.8	0.6	222	25.7		7.7		27.3		97.6		6.8		9.3		20		94				<0.2		2.0	
IM3	Cloudy	Moderate	07:01	7.7	Surface	1.0	0.8	221	25.7	25.7	7.7	7.7	25.6	25.6	92.8	92.9	6.6	6.6	2.9	3.9	4	8	84	89	819398	806036	<0.2	<0.2	2.6	2.0
						1.0	0.8	225	25.7		7.7		25.6		92.9		6.6		3.0		4		86				<0.2		2.4	
					Middle	3.9	0.7	232	25.7	25.7	7.7	7.7	26.0	26.0	94.0	94.1	6.6		3.7		8		90				<0.2		2.3	
						3.9	0.7	245	25.7		7.7		26.0		94.1		6.6		3.8		9		89				<0.2		2.2	
					Bottom	6.7	0.4	232	25.7	25.7	7.7	7.7	28.1	28.1	97.0	97.0	6.8	6.8	5.1		12		92				<0.2		1.2	
						6.7	0.4	248	25.7		7.7		28.1		97.0		6.8		5.1		13		93				<0.2		1.4	
IM4	Cloudy	Moderate	07:07	7.6	Surface	1.0	0.5	237	25.7	25.7	7.7	7.7	26.8	26.8	94.5	94.5	6.6	6.7	5.2	7.0	5	11	86	90	819579	805043	<0.2	<0.2	2.2	1.7
						1.0	0.5	243	25.7		7.7		26.8		94.5		6.6		5.2		7		85				<0.2		2.2	
					Middle	3.8	0.5	226	25.7	25.7	7.7	7.7	27.1	27.1	95.3	95.3	6.7		6.8		11		92				<0.2		1.7	
						3.8	0.5	241	25.7		7.7		27.1		95.3		6.7		6.8		12		91				<0.2		1.7	
					Bottom	6.6	0.4	205	25.7	25.7	7.7	7.7	28.2	28.2	96.8	96.8	6.7	6.7	9.1		13		93				<0.2		1.2	
						6.6	0.4	209	25.7		7.7		28.1		96.8		6.7		9.0		15		94				<0.2		1.3	
IM5	Cloudy	Moderate	07:17	6.4	Surface	1.0	0.6	219	25.7	25.7	7.7	7.7	25.6	25.6	91.8	91.8	6.5	6.5	6.3	8.7	7	11	86	90	820574	804914	<0.2	<0.2	2.3	1.9
						1.0	0.6	227	25.7		7.7		25.6		91.8		6.5		6.3		6		85				<0.2		2.2	
					Middle	3.2	0.5	236	25.8	25.8	7.7	7.7	26.6	26.6	92.5	92.6	6.5		9.5		10		90				<0.2		1.9	
						3.2	0.6	251	25.8		7.7		26.6		92.6		6.5		9.8		9		91				<0.2		2.1	
					Bottom	5.4	0.4	244	25.8	25.8	7.7	7.7	27.5	27.5	93.2	93.2	6.5	6.5	10.0		18		93				<0.2		1.4	
						5.4	0.4	247	25.8		7.7		27.5		93.2		6.5		10.0		18		94				<0.2		1.3	
IM6	Cloudy	Moderate	07:26	6.2	Surface	1.0	0.6	191	25.7	25.7	7.7	7.7	27.2	27.2	94.0	94.1	6.6	6.7	4.7	7.1	5	11	86	90	821045	805808	<0.2	<0.2	2.0	2.0
						1.0	0.6	208	25.7		7.7		27.2		94.1		6.6		4.8		6		85				<0.2		2.0	
					Middle	3.1	0.6	192	25.7	25.7	7.8	7.8	27.5	27.5	95.2	95.3	6.7		6.0		7		90				<0.2		2.3	
						3.1	0.6	192	25.7		7.8		27.5		95.3		6.7		6.2		6		90				<0.2		2.3	
					Bottom	5.2	0.5	220	25.7	25.7	7.8	7.8	29.0	29.0	98.2	98.2	6.8	6.8	10.4		23		93				<0.2		1.7	
						5.2	0.6	238	25.7		7.8		29.0		98.2		6.8		10.4		21		94				<0.2		1.6	
IM7	Cloudy	Moderate	07:35	7.9	Surface	1.0	0.7	214	25.7	25.7	7.7	7.7	24.9	24.9	89.2	89.3	6.3	6.4	6.5	9.5	12	17	85	90	821358	806840	<0.2	<0.2	2.3	2.2
						1.0	0.7	224	25.7		7.7		24.9		89.3		6.3		6.6		11		85				<0.2		2.3	
					Middle	4.0	0.6	240	25.7	25.7	7.7	7.7	25.4	25.4	90.5	90.6	6.4		9.0		12		91				<0.2		2.6	
						4.0	0.6	245	25.7		7.7		25.4		90.6		6.4		9.1		13		89				<0.2		2.8	
					Bottom	6.9	0.3	243	25.8	25.8	7.7	7.7	27.1	27.1	93.3	93.3	6.5	6.5	12.8		26		93				<0.2		1.4	
						6.9	0.4	257	25.8		7.7		27.1		93.3		6.5		12.8		28		94				<0.2		1.6	
IM8	Cloudy	Moderate	07:27	7.3	Surface	1.0	0.8	184	22.9	22.9	7.7	7.7	25.2	25.2	90.7	90.8	6.7	6.8	3.6	5.3	5	4	85	91	821714	807835	<0.2	<0.2	2.2	2.5
						1.0	0.9	195	22.9		7.7		25.2		90.8		6.8		3.6		5		85				<0.2		2.1	
					Middle	3.7	0.6	208	22.9	22.9	7.8	7.8	26.3	26.3	91.6	91.7	6.8		4.6		5		93				<0.2		2.4	
						3.7	0.6	219	22.9		7.8		26.2		91.7		6.8		4.9		3		93				<0.2		2.5	
					Bottom	6.3	0.5	227	23.0	23.0	7.8	7.8	27.2	27.2	93.9	94.1	6.9	6.9	7.7		5		94				<0.2		2.9	
						6.3	0.5	242	23.0		7.8		27.2		94.3		6.9		7.3		3		94				<0.2		2.9	

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 22 November 16 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
IM9	Cloudy	Moderate	07:19	6.3	Surface	1.0	0.7	172	22.9	22.9	7.8	7.8	25.4	25.4	89.4	89.4	6.6	6.6	3.4	5.3	3	4	86	91	822096	808801	<0.2	<0.2	2.8	2.6
						1.0	0.7	179	22.9		7.8		25.4		89.3		6.6		3.5		3		86				<0.2		2.9	
					Middle	3.2	0.5	177	23.0	23.0	7.8	7.8	27.2	27.2	89.2	89.2	6.5		4.3		5		93				<0.2		2.3	
						3.2	0.6	181	23.0		7.8		27.2		89.2		6.5		4.3		4		92				<0.2		2.2	
					Bottom	5.3	0.4	171	23.0	23.0	7.8	7.8	27.5	27.5	89.6	89.7	6.6		8.6		5		94				<0.2		2.6	
						5.3	0.4	178	23.0		7.8		27.5		89.8		6.6		7.7		6		95				<0.2		2.5	
IM10	Rainy	Moderate	07:09	6.5	Surface	1.0	0.6	155	22.8	22.8	7.7	7.7	25.3	25.3	91.9	91.9	6.8	6.8	3.3	4.9	3	5	87	91	822224	809850	<0.2	<0.2	3.0	2.9
						1.0	0.7	158	22.8		7.7		25.3		91.8		6.8		3.4		5		86				<0.2		3.1	
					Middle	3.3	0.4	135	23.0	23.0	7.8	7.8	27.2	27.2	92.3	92.3	6.8		4.3		5		93				<0.2		2.8	
						3.3	0.4	148	23.0		7.8		27.2		92.3		6.8		4.3		5		93				<0.2		2.8	
					Bottom	5.5	0.6	180	22.9	22.9	7.9	7.9	29.1	29.1	95.0	95.0	6.9	6.9	7.0		5		95				<0.2		2.9	
						5.5	0.6	193	22.9		7.9		29.1		95.0		6.9		6.9		5		94				<0.2		2.8	
IM11	Rainy	Moderate	06:59	7.1	Surface	1.0	0.5	141	22.9	22.9	7.8	7.8	26.3	26.3	92.7	92.7	6.8	6.8	4.2	6.1	3	5	87	92	821496	810535	<0.2	<0.2	2.6	2.8
						1.0	0.5	142	22.9		7.8		26.3		92.7		6.8		4.3		3		87				<0.2		2.6	
					Middle	3.6	0.4	131	23.0	23.0	7.8	7.8	27.1	27.1	93.1	93.2	6.8		5.8		4		93				<0.2		2.8	
						3.6	0.4	135	23.0		7.8		27.1		93.2		6.8		5.8		4		93				<0.2		2.9	
					Bottom	6.1	0.4	137	22.9	22.9	7.8	7.8	28.7	28.8	92.6	92.6	6.7	6.7	8.1		6		95				<0.2		3.0	
						6.1	0.4	137	22.9		7.8		28.8		92.6		6.7		8.1		7		94				<0.2		2.9	
IM12	Rainy	Moderate	06:48	8.3	Surface	1.0	0.5	121	23.0	23.0	7.8	7.8	26.7	26.7	93.9	93.9	6.9	6.9	3.6	4.5	6	6	88	92	821162	811533	<0.2	<0.2	3.0	3.1
						1.0	0.6	129	23.0		7.8		26.6		93.9		6.9		3.7		5		88				<0.2		3.0	
					Middle	4.2	0.5	97	23.0	23.0	7.8	7.8	26.9	27.0	94.4	94.4	6.9		4.6		6		93				<0.2		2.9	
						4.2	0.5	103	23.0		7.8		27.0		94.4		6.9		4.6		6		93				<0.2		3.0	
					Bottom	7.3	0.9	137	22.9	22.9	7.8	7.8	27.9	27.9	94.8	94.8	6.9	6.9	5.2		6		95				<0.2		3.2	
						7.3	1.0	145	22.9		7.8		27.9		94.8		6.9		5.2		7		95				<0.2		3.3	
SR2	Rainy	Moderate	06:19	3.6	Surface	1.0	0.4	89	23.0	23.0	7.8	7.8	28.0	28.0	95.5	95.5	7.0	7.0	5.6	8.6	4	7	89	92	821460	814173	<0.2	<0.2	2.7	2.5
						1.0	0.4	96	23.0		7.8		28.0		95.5		7.0		5.7		6		88				<0.2		2.6	
					Middle	1.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.3	89	22.9	22.9	7.8	7.8	28.7	28.7	97.5	97.7	7.1	7.1	11.5		10		95				<0.2		2.3	
						2.6	0.3	95	22.9		7.8		28.7		97.9		7.1		11.7		9		95				<0.2		2.3	
SR3	Cloudy	Moderate	07:34	8.1	Surface	1.0	0.7	177	22.9	22.9	7.7	7.7	25.7	25.7	91.0	91.1	6.7	6.8	4.5	6.2	6	7	-	-	822158	807577	-	-	-	-
						1.0	0.7	186	22.9		7.7		25.7		91.1		6.8		4.5		4		-				-		-	
					Middle	4.1	0.6	189	22.9	22.9	7.8	7.8	26.6	26.7	91.8	91.9	6.8		6.0		7		-				-		-	
						4.1	0.6	207	22.9		7.8		26.7		92.0		6.8		6.2		8		-				-		-	
					Bottom	7.1	0.5	238	22.9	22.9	7.8	7.8	28.1	28.1	93.4	93.4	6.8	6.8	8.0		7		-				-		-	
						7.1	0.5	244	22.9		7.8		28.1		93.4		6.8		8.1		7		-				-		-	
SR4A	Rainy	Calm	05:59	6.8	Surface	1.0	0.3	226	25.6	25.6	7.8	7.8	30.1	30.1	95.0	95.1	6.6	6.6	8.0	9.2	8	15	-	-	817178	807808	-	-	-	-
						1.0	0.3	237	25.6		7.8		30.1		95.1		6.6		8.1		8		-				-		-	
					Middle	3.4	0.3	229	25.7	25.7	7.8	7.8	30.0	30.0	95.4	95.4	6.6		9.0		16		-				-		-	
						3.4	0.3	245	25.7		7.8		30.0		95.4		6.6		9.1		17		-				-		-	
					Bottom	5.8	0.3	213	25.7	25.7	7.8	7.8	29.8	29.8	97.0	97.1	6.7	6.7	10.5		18		-				-		-	
						5.8	0.3	221	25.7		7.8		29.8		97.1		6.7		10.6		20		-				-		-	
SR5A	Cloudy	Calm	05:43	4.5	Surface	1.0	0.2	183	25.8	25.8	7.8	7.8	29.3	29.4	93.9	94.0	6.5	6.5	11.3	17.1	8	9	-	-	816580	810715	-	-	-	-
						1.0	0.2	196	25.8		7.8		29.4		94.0		6.5		11.5		9		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	175	25.8	25.8	7.8	7.8	29.4	29.4	94.8	94.8	6.5	6.5	22.8		9		-				-		-	
						3.5	0.2	182	25.8		7.8		29.4		94.8		6.5		22.8		11		-				-		-	
SR6	Rainy	Moderate	05:16	4.4	Surface	1.0	0.3	111	25.6	25.7	7.7	7.7	29.1	29.1	95.9	95.9	6.6	6.6	10.1	11.8	12	19	-	-	817893	814647	-	-	-	-
						1.0	0.3	114	25.7		7.7		29.1		95.8		6.6		10.1		12		-				-		-	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.3	122	25.7	25.7	7.7	7.7	28.9	28.9	96.6	96.7	6.7	6.7	13.6		26		-				-		-	
						3.4	0.3	131	25.7		7.7		28.9		96.7		6.7		13.5		24		-				-		-	
SR7	Rainy	Moderate	05:11	19.1	Surface	1.0	0.4	73	22.7	22.7	7.8	7.8	29.9	29.9	92.7	92.7	6.7	6.7	2.7	3.0	5	7	-	-	823629	823749	-	-	-	-
						1.0	0.4	77	22.7		7.8		29.9		92.7		6.7		2.7		6		-				-		-	
					Middle	9.6	0.3	61	22.7	22.7	7.8	7.8	30.0	30.0	92.3	92.3	6.7		3.0		6		-				-		-	
						9.6	0.4	62	22.7		7.8		30.0		92.3		6.7		3.0		8		-				-		-	
					Bottom	18.1	0.3	57	22.7	22.7	7.8	7.8	30.3	30.3	92.7	92.7	6.7	6.7	3.3		7		-				-		-	
						18.1	0.3	61	22.7		7.8		30.3		92.7		6.7		3.4		9		-				-		-	
SR8	Rainy	Moderate	06:38	4.5	Surface	1.0	0.2	225	23.1	23.1	7.8	7.8	27.5	27.5	96.8	96.8	7.1	7.1	4.9	5.3	7	8	-	-	820398	811597	-	-	-	-
						1.0	0.2	228	23.1		7.8		27.5		96.7		7.1		4.9		8		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	225	23.0	23.0	7.8	7.8	27.5	27.5	96.8	96.9	7.1	7.1	5.7		8		-				-		-	
						3.5	0.2	234	23.0		7.8		27.5		96.9		7.1		5.7		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 24 November 16 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	8.4	Surface	1.0	0.7	137	24.5	24.5	7.9	7.9	31.4	31.4	100.1	100.1	7.0	7.0	4.5	4.7	8	9	89	93	815604	804251	<0.2	<0.2	0.9	0.9
						1.0	0.8	149			7.9		31.4		100.1		7.0		4.6		9		90				<0.2		0.9	
					Middle	4.2	0.6	104	24.5	24.5	7.9	7.9	31.4	31.4	100.1	100.1	7.0		4.6		10		93				<0.2		1.0	
						4.2	0.7	106	24.5		7.9		31.4		100.1		7.0		4.7		8		94				<0.2		0.9	
					Bottom	7.4	0.9	137	24.5	24.5	7.8	7.8	31.3	31.3	104.0	104.1	7.3	7.3	4.9		10		94				<0.2		0.9	
						7.4	0.9	148	24.5		7.8		31.3		104.1		7.3		4.9		10		95				<0.2		1.0	
C2	Cloudy	Moderate	14:31	10.8	Surface	1.0	0.3	205	21.9	21.9	7.9	7.9	31.4	31.4	96.7	96.7	7.1	7.0	4.0	4.3	6	7	84	90	825677	806957	<0.2	<0.2	2.0	1.9
						1.0	0.3	224	21.9		7.9		31.4		96.7		7.1		4.1		6		84				<0.2		1.9	
					Middle	5.4	0.3	268	21.9	21.9	7.9	7.9	31.6	31.6	95.1	95.1	6.9		4.2		6		92				<0.2		2.0	
						5.4	0.3	294	21.9		7.9		31.6		95.1		6.9		4.2		7		91				<0.2		1.8	
					Bottom	9.8	0.7	293	22.1	22.1	7.9	7.9	32.2	32.2	94.8	95.0	6.9	6.9	4.5		7		94				<0.2		1.8	
						9.8	0.7	300	22.1		7.9		32.2		95.1		6.9		4.8		8		94				<0.2		1.9	
C3	Cloudy	Moderate	16:29	11.9	Surface	1.0	0.4	258	22.1	22.1	7.9	7.9	32.7	32.7	93.4	93.4	6.7	6.7	2.1	4.0	8	9	86	92	822123	817789	<0.2	<0.2	1.0	1.0
						1.0	0.5	277	22.1		7.9		32.7		93.4		6.7		2.1		8		88				<0.2		1.0	
					Middle	6.0	0.4	258	22.1	22.1	7.9	7.9	32.8	32.8	93.4	93.4	6.7		4.0		9		93				<0.2		1.0	
						6.0	0.5	258	22.1		7.9		32.8		93.4		6.7		4.1		8		93				<0.2		1.1	
					Bottom	10.9	0.5	260	22.2	22.2	7.9	7.9	32.9	32.9	95.5	95.5	6.9	6.9	5.8		9		96				<0.2		1.0	
						10.9	0.5	260	22.2		7.9		32.9		95.5		6.9		5.8		10		96				<0.2		1.1	
IM1	Cloudy	Moderate	15:07	7.2	Surface	1.0	0.5	166	24.4	24.4	7.9	7.9	30.5	30.5	100.3	100.3	7.0	7.0	3.3	3.9	4	6	86	89	818369	806445	<0.2	<0.2	1.2	1.2
						1.0	0.5	177	24.4		7.9		30.5		100.3		7.0		3.3		6		87				<0.2		1.3	
					Middle	3.6	0.5	162	24.4	24.4	7.9	7.9	30.5	30.5	100.0	100.0	7.0		3.6		7		88				<0.2		1.3	
						3.6	0.5	162	24.4		7.9		30.5		100.0		7.0		3.6		7		89				<0.2		1.2	
					Bottom	6.2	0.6	146	24.5	24.5	7.9	7.9	30.8	30.8	100.2	100.3	7.0	7.0	4.8		6		91				<0.2		1.1	
						6.2	0.6	155	24.5		7.9		30.8		100.3		7.0		4.7		7		92				<0.2		1.2	
IM2	Cloudy	Moderate	15:01	8.1	Surface	1.0	0.4	192	24.3	24.3	7.9	7.9	29.9	29.9	102.2	102.2	7.2	7.2	2.7	3.3	4	7	87	89	818834	806210	<0.2	<0.2	1.6	1.3
						1.0	0.4	197	24.3		7.9		29.9		102.2		7.2		2.7		5		86				<0.2		1.7	
					Middle	4.1	0.5	190	24.3	24.3	7.8	7.8	29.9	29.9	101.7	101.8	7.2		2.9		6		88				<0.2		1.1	
						4.1	0.5	201	24.3		7.8		29.9		101.8		7.2		3.0		6		89				<0.2		1.0	
					Bottom	7.1	0.5	166	24.5	24.5	7.8	7.8	30.3	30.3	104.4	104.5	7.3	7.3	4.2		12		93				<0.2		1.1	
						7.1	0.5	166	24.5		7.8		30.3		104.6		7.3		4.2		10		91				<0.2		1.0	
IM3	Cloudy	Moderate	14:53	8.5	Surface	1.0	0.5	201	24.6	24.6	7.8	7.8	30.0	30.0	100.9	100.9	7.1	7.2	3.4	3.6	8	9	87	91	819422	806015	<0.2	<0.2	1.0	1.2
						1.0	0.5	213	24.6		7.8		30.0		100.9		7.1		3.5		8		88				<0.2		1.1	
					Middle	4.3	0.5	192	24.5	24.6	7.8	7.8	30.0	30.0	102.1	102.1	7.2		3.7		9		92				<0.2		1.2	
						4.3	0.5	208	24.6		7.8		30.0		102.1		7.2		3.6		8		93				<0.2		1.2	
					Bottom	7.5	0.6	186	24.5	24.5	7.8	7.8	30.2	30.3	106.4	106.5	7.5	7.5	3.7		11		94				<0.2		1.5	
						7.5	0.6	189	24.4		7.8		30.3		106.5		7.5		3.7		10		94				<0.2		1.3	
IM4	Cloudy	Moderate	14:46	7.8	Surface	1.0	0.4	186	24.5	24.5	7.8	7.8	30.0	30.0	100.2	100.2	7.0	7.0	4.5	4.8	6	9	85	90	819553	805026	<0.2	<0.2	1.2	1.1
						1.0	0.4	189	24.5		7.8		30.0		100.2		7.0		4.5		8		86				<0.2		1.2	
					Middle	3.9	0.4	200	24.5	24.5	7.8	7.8	30.0	30.0	100.2	100.3	7.0		4.7		11		89				<0.2		1.0	
						3.9	0.4	203	24.5		7.8		30.0		100.3		7.0		4.7		11		90				<0.2		1.1	
					Bottom	6.8	0.4	194	24.5	24.5	7.8	7.8	30.4	30.4	103.6	103.7	7.3	7.3	5.0		10		93				<0.2		1.0	
						6.8	0.4	207	24.5		7.8		30.4		103.7		7.3		5.1		10		94				<0.2		1.0	
IM5	Cloudy	Moderate	14:39	6.8	Surface	1.0	0.5	193	24.5	24.5	7.8	7.8	29.2	29.2	99.3	99.3	7.0	7.0	4.9	5.8	10	10	88	92	820566	804917	<0.2	<0.2	1.3	1.4
						1.0	0.5	197	24.5		7.8		29.2		99.3		7.0		4.8		10		88				<0.2		1.4	
					Middle	3.4	0.4	199	24.5	24.5	7.8	7.8	29.3	29.3	99.5	99.5	7.0		5.8		11		92				<0.2		1.3	
						3.4	0.5	216	24.5		7.8		29.3		99.5		7.0		5.8		9		93				<0.2		1.3	
					Bottom	5.8	0.4	192	24.6	24.6	7.8	7.8	29.6	29.6	103.0	103.1	7.2	7.3	6.8		10		94				<0.2		1.4	
						5.8	0.4	209	24.6		7.8		29.6		103.1		7.3		6.8		10		95				<0.2		1.5	
IM6	Cloudy	Moderate	14:31	6.6	Surface	1.0	0.4	214	24.5	24.5	7.8	7.8	29.5	29.5	100.2	100.2	7.0	7.1	5.5	7.2	6	11	87	91	821068	805839	<0.2	<0.2	1.2	1.3
						1.0	0.4	226	24.5		7.8		29.5		100.2		7.1		5.6		8		88				<0.2		1.3	
					Middle	3.3	0.3	223	24.5	24.5	7.8	7.8	29.5	29.5	100.7	100.8	7.1		6.1		10		90				<0.2		1.3	
						3.3	0.3	227	24.5		7.8		29.5		100.8		7.1		6.2		12		91				<0.2		1.3	
					Bottom	5.6	0.3	187	24.5	24.5	7.8	7.8	29.7	29.7	103.1	103.1	7.3	7.3	9.9		14		93				<0.2		1.3	
						5.6	0.3	187	24.5		7.8		29.7		103.1		7.3		9.9		15		94				<0.2		1.5	
IM7	Cloudy	Moderate	14:23	8.0	Surface	1.0	0.5	208	24.7	24.7	7.8	7.8	29.4	29.4	98.4	98.4	6.9	7.0	4.0	4.7	6	9	85	89	821347	806835	<0.2	<0.2	1.5	1.2
						1.0	0.5	210	24.7		7.8		29.4		98.4		6.9		4.0		8		86				<0.2		1.3	
					Middle	4.0	0.5	194	24.7	24.7	7.8	7.8	29.4	29.4	99.2	99.3	7.0		4.3		6		88				<0.2		1.2	
						4.0	0.5	195	24.7		7.8		29.4		99.3		7.0		4.4		7		89				<0.2		1.2	
					Bottom	7.0	0.6	198	24.7	24.7	7.7	7.7	29.7	29.7	103.6	103.7	7.3	7.3	5.6		13		92				<0.2		1.0	
						7.0	0.6	200	24.7		7.7		29.7		103.8		7.3		5.6		11		92				<0.2		1.0	
IM8	Cloudy	Moderate	15:06	8.2	Surface	1.0	0.4	198	21.8	21.8	7.9	7.9	32.7	32.7	102.0	102.0	7.4	7.4	3.5	4.2	6	8	85	91	821697	807835	<0.2	<0.2	1.1	1.2
						1.0	0.4	208	21.8		7.9		32.7		102.0		7.4		3.5		8		85				<0.2		1.2	
					Middle	4.1	0.3	217	21.8	21.8	7.9	7.9	32.8	32.8	101.9	101.9	7.4		3.9		8		92				<0.2		1.2	
						4.1	0.3	234	21.8		7.9		32.8		101.9		7.4		3.9		10		93				<0.2		1.2	
					Bottom	7.2	0.4	228	21.7	21.7	7.9	7.9	33.4	33.4	102.7	102.7	7.4	7.4	5.1		9		94				<0.2		1.2	
						7.2	0.5	238	21.7		7.9		33.4		102.7		7.4		5.1		8		95				<0.2		1.3	

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 24 November 16 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	15:14	7.8	Surface	1.0	0.3	229	21.8	21.8	7.9	7.9	32.5	32.5	102.6	102.6	7.5	7.5	4.0	7.0	4	7	85	91	822080	808796	<0.2	<0.2	1.1	1.1
						1.0	0.4	246	21.8		7.9		32.5		102.6		7.5		4.0		5		85				<0.2		1.2	
					Middle	3.9	0.4	239	21.7	21.7	7.9	7.9	32.6	32.6	103.2	103.2	7.5		6.8		6		92				<0.2		1.0	
						3.9	0.4	253	21.7		7.9		32.6		103.2		7.5		7.0		5		93				<0.2		1.1	
					Bottom	6.8	0.3	245	21.6	21.6	7.9	7.9	33.1	33.1	104.1	104.1	7.6	7.6	10.1		12		95				<0.2		1.1	
						6.8	0.4	254	21.6		7.9		33.1		104.1		7.6		10.1		10		95				<0.2		1.1	
IM10	Cloudy	Moderate	15:22	7.9	Surface	1.0	0.4	255	22.0	22.0	7.9	7.9	32.2	32.2	99.6	99.7	7.2	7.3	3.7	7.7	7	8	86	91	822240	809835	<0.2	<0.2	1.1	1.2
						1.0	0.4	270	22.0		7.9		32.2		99.7		7.2		3.8		5		86				<0.2		1.2	
					Middle	4.0	0.4	243	21.9	21.9	7.9	7.9	32.3	32.3	100.1	100.1	7.3		7.8		8		93				<0.2		1.0	
						4.0	0.5	246	21.9		7.9		32.3		100.1		7.3		7.8		8		92				<0.2		1.1	
					Bottom	6.9	0.4	236	21.6	21.6	8.0	8.0	33.0	33.0	101.0	101.0	7.3	7.3	11.5		11		95				<0.2		1.3	
						6.9	0.4	236	21.6		8.0		33.0		100.9		7.3		11.6		10		95				<0.2		1.2	
IM11	Cloudy	Moderate	15:30	7.9	Surface	1.0	0.4	246	22.1	22.1	7.9	7.9	32.2	32.2	95.0	95.0	6.9	6.9	5.0	8.4	7	14	87	92	821484	810536	<0.2	<0.2	1.1	1.0
						1.0	0.4	258	22.1		7.9		32.2		95.0		6.9		5.1		6		86				<0.2		1.0	
					Middle	4.0	0.4	268	22.1	22.1	7.9	7.9	32.3	32.3	95.0	95.0	6.9		7.6		16		93				<0.2		0.9	
						4.0	0.4	272	22.1		7.9		32.3		95.0		6.9		7.6		17		93				<0.2		0.8	
					Bottom	6.9	0.4	261	22.2	22.2	7.9	7.9	32.7	32.7	96.6	96.6	7.0	7.0	12.5		18		95				<0.2		1.1	
						6.9	0.4	261	22.2		7.9		32.7		96.6		7.0		12.6		18		95				<0.2		1.0	
IM12	Cloudy	Moderate	15:39	8.1	Surface	1.0	0.5	274	22.1	22.1	7.9	7.9	31.8	31.8	92.9	92.9	6.8	6.8	4.1	9.1	8	11	87	92	821165	811530	<0.2	<0.2	0.9	1.0
						1.0	0.5	286	22.1		7.9		31.8		92.9		6.8		4.1		8		87				<0.2		0.9	
					Middle	4.1	0.5	275	22.1	22.1	7.9	7.9	31.8	31.8	92.4	92.4	6.7		6.1		11		93				<0.2		1.1	
						4.1	0.5	276	22.1		7.9		31.8		92.4		6.7		6.1		10		93				<0.2		1.1	
					Bottom	7.1	0.4	270	22.1	22.1	7.9	7.9	32.4	32.4	91.2	91.2	6.6	6.6	17.1		12		95				<0.2		1.1	
						7.1	0.4	295	22.1		7.9		32.4		91.2		6.6		17.1		14		95				<0.2		1.0	
SR2	Cloudy	Moderate	16:05	4.9	Surface	1.0	0.2	210	22.0	22.0	7.9	7.9	32.1	32.1	95.8	95.8	6.9	6.9	7.2	7.5	9	11	89	92	821474	814150	<0.2	<0.2	0.9	0.9
						1.0	0.2	216	22.0		7.9		32.1		95.8		6.9		7.2		11		87				<0.2		0.9	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.1	203	22.0	22.0	7.9	7.9	32.1	32.1	98.3	98.4	7.1	7.1	7.7		11		95				<0.2		0.9	
						3.9	0.1	210	22.0		7.9		32.1		98.5		7.1		7.7		13		95				<0.2		0.9	
SR3	Cloudy	Moderate	15:02	8.7	Surface	1.0	0.3	200	21.9	21.9	7.9	7.9	32.6	32.6	101.1	101.1	7.3	7.3	3.6	6.3	6	9	-	-	822159	807562	-	-	-	-
						1.0	0.3	204	21.9		7.9		32.6		101.1		7.3		3.6		7		-				-		-	
					Middle	4.4	0.3	226	21.8	21.8	7.9	7.9	32.7	32.7	100.8	100.8	7.3		5.3		10		-				-		-	
						4.4	0.4	243	21.8		7.9		32.7		100.8		7.3		5.3		9		-				-		-	
					Bottom	7.7	0.5	252	21.9	21.9	8.0	8.0	33.7	33.7	102.4	102.5	7.4	7.4	10.0		10		-				-		-	
						7.7	0.5	269	21.9		8.0		33.7		102.6		7.4		9.9		9		-				-		-	
SR4A	Cloudy	Moderate	15:51	8.2	Surface	1.0	0.3	214	97.5	97.5	7.7	7.7	10.5	10.5	100.2	100.4	7.0	7.0	12.2	12.6	15	17	-	-	817192	807809	-	-	-	-
						1.0	0.3	231	97.5		7.7		10.5		100.5		7.0		12.3		14		-				-		-	
					Middle	4.1	0.3	205	98.0	98.0	7.7	7.7	10.4	10.4	100.6	100.3	7.0		12.3		18		-				-		-	
						4.1	0.3	224	98.0		7.7		10.4		100.0		7.0		12.4		17		-				-		-	
					Bottom	7.2	0.2	200	97.9	97.9	7.6	7.6	10.4	10.4	100.0	100.1	7.0	7.0	13.3		20		-				-		-	
						7.2	0.2	210	97.9		7.6		10.4		100.1		7.0		13.2		18		-				-		-	
SR5A	Cloudy	Moderate	16:10	3.9	Surface	1.0	0.1	274	62.9	63.0	7.7	7.7	14.7	14.7	100.8	100.8	7.0	7.0	4.6	4.8	10	20	-	-	816605	810690	-	-	-	-
						1.0	0.1	300	63.0		7.7		14.7		100.8		7.0		4.6		10		-				-		-	
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.1	256	72.9	72.6	7.6	7.6	12.9	13.0	100.5	100.4	7.0	7.0	5.1		29		-				-		-	
						2.9	0.1	256	72.2		7.6		13.0		100.3		7.0		5.0		31		-				-		-	
SR6	Cloudy	Moderate	16:34	4.3	Surface	1.0	0.2	216	51.1	51.1	7.7	7.7	17.5	17.5	100.3	100.3	7.0	7.0	13.9	17.2	24	25	-	-	817892	814669	-	-	-	-
						1.0	0.2	237	51.1		7.7		17.5		100.2		7.0		14.0		25		-				-		-	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.2	225	50.4	50.4	7.6	7.6	17.9	17.9	100.7	100.7	7.0	7.0	20.4		25		-				-		-	
						3.3	0.2	232	50.4		7.6		17.9		100.7		7.0		20.6		27		-				-		-	
SR7	Cloudy	Moderate	17:05	17.8	Surface	1.0	0.3	133	22.1	22.1	8.0	8.0	32.3	32.3	94.2	94.2	6.8	6.9	3.0	3.3	6	8	-	-	823622	823742	-	-	-	-
						1.0	0.3	135	22.1		8.0		32.3		94.2		6.8		3.0		8		-				-		-	
					Middle	8.9	0.3	184	22.2	22.2	7.9	7.9	32.4	32.4	95.0	95.1	6.9		3.7		8		-				-		-	
						8.9	0.3	198	22.2		7.9		32.4		95.1		6.9		3.7		8		-				-		-	
					Bottom	16.8	0.8	224	22.2	22.2	7.9	7.9	32.4	32.4	99.7	99.7	7.2	7.2	3.2		8		-				-		-	
						16.8	0.8	239	22.2		7.9		32.4		99.7		7.2		3.2		8		-				-		-	
SR8	Cloudy	Moderate	15:45	5.4	Surface	1.0	0.3	263	21.9	21.9	7.9	7.9	31.7	31.7	98.5	98.6	7.2	7.2	5.4	7.9	9	10	-	-	820399	811575	-	-	-	-
						1.0	0.3	277	21.9		7.9		31.7		98.6		7.2		5.4		10		-				-		-	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.3	276	22.0	22.0	7.9	7.9	31.8	31.8	101.9	101.9	7.4	7.4	10.4		10		-				-		-	
						4.4	0.3	287	22.0		7.9		31.8		101.9		7.4		10.4		12		-				-		-	

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 24 November 16 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	Rough	08:54	8.7	Surface	1.0	0.8	204	24.4	24.4	7.9	7.9	31.3	31.3	98.9	98.9	6.9	6.9	6.1	6.1	10	11	85	90	815627	804248	<0.2	<0.2	0.5	0.6
						1.0	0.9	224	24.4		7.9		31.3		98.9		6.9		6.2		8		86				<0.2		0.6	
					Middle	4.4	0.9	205	24.4	24.4	7.8	7.8	31.3	31.3	98.8	98.8	6.9		6.0		12		90				<0.2		0.6	
						4.4	0.9	223	24.4		7.8		31.3		98.8		6.9		6.0		13		91				<0.2		0.6	
					Bottom	7.7	0.8	217	24.4	24.4	7.8	7.8	31.2	31.2	98.7	98.7	6.9	6.9	6.0		11		94				<0.2		0.6	
						7.7	0.9	235	24.4		7.8		31.2		98.7		6.9		6.0		12		94				<0.2		0.6	
C2	Cloudy	Rough	10:45	11.2	Surface	1.0	0.4	172	22.0	22.0	7.9	7.9	30.0	30.0	92.2	92.2	6.8	6.8	5.0	5.4	8	9	85	90	825670	806950	<0.2	<0.2	1.5	1.3
						1.0	0.4	184	22.0		7.9		30.0		92.2		6.8		4.9		6		85				<0.2		1.4	
					Middle	5.6	0.3	171	22.3	22.3	7.9	7.9	30.9	30.9	91.4	91.4	6.7		5.1		10		92				<0.2		1.0	
						5.6	0.3	173	22.3		7.9		30.9		91.4		6.7		5.1		9		92				<0.2		1.0	
					Bottom	10.2	0.4	205	22.3	22.3	7.9	7.9	30.8	30.8	93.1	93.1	6.8	6.8	6.0		10		93				<0.2		1.3	
						10.2	0.4	212	22.3		7.9		30.8		93.1		6.8		6.0		9		94				<0.2		1.3	
C3	Cloudy	Moderate	08:34	12.3	Surface	1.0	0.2	143	22.2	22.2	7.9	7.9	31.4	31.4	92.7	92.7	6.7	6.8	3.1	3.3	6	7	89	93	822098	817783	<0.2	<0.2	0.6	0.8
						1.0	0.3	152	22.2		7.9		31.4		92.6		6.7		3.1		5		89				<0.2		0.7	
					Middle	6.2	0.3	126	22.2	22.2	7.9	7.9	31.4	31.4	94.0	94.1	6.8		3.2		8		93				<0.2		0.7	
						6.2	0.3	135	22.2		7.9		31.4		94.1		6.8		3.2		7		93				<0.2		0.7	
					Bottom	11.3	1.0	197	22.2	22.2	7.9	7.9	31.4	31.4	96.2	96.3	7.0	7.0	3.5		8		96				<0.2		0.9	
						11.3	1.1	215	22.2		7.9		31.4		96.3		7.0		3.5		7		95				<0.2		0.9	
IM1	Cloudy	Rough	09:21	7.3	Surface	1.0	0.8	205	24.2	24.2	7.8	7.8	30.0	30.0	99.9	99.9	7.1	7.1	3.6	4.2	7	6	85	89	818347	806461	<0.2	<0.2	0.9	0.9
						1.0	0.8	207	24.2		7.8		30.0		99.9		7.1		3.7		7		85				<0.2		0.9	
					Middle	3.7	0.6	215	24.3	24.3	7.8	7.8	30.1	30.1	100.7	100.8	7.1		4.3		6		88				<0.2		1.1	
						3.7	0.7	232	24.3		7.8		30.1		100.8		7.1		4.4		6		90				<0.2		0.9	
					Bottom	6.3	0.8	184	24.4	24.4	7.7	7.7	29.8	29.8	104.3	104.4	7.3	7.4	4.6		6		94				<0.2		0.9	
						6.3	0.9	186	24.4		7.7		29.8		104.4		7.4		4.6		6		94				<0.2		0.8	
IM2	Cloudy	Rough	09:27	8.4	Surface	1.0	0.6	210	24.1	24.1	7.8	7.8	29.7	29.7	98.7	98.7	7.0	7.0	3.2	4.6	7	8	86	89	818870	806208	<0.2	<0.2	1.4	1.2
						1.0	0.7	224	24.1		7.8		29.7		98.7		7.0		3.3		8		86				<0.2		1.3	
					Middle	4.2	0.7	200	24.2	24.2	7.8	7.8	30.1	30.1	99.1	99.1	7.0		4.1		6		89				<0.2		1.1	
						4.2	0.7	200	24.2		7.8		30.1		99.1		7.0		4.1		6		89				<0.2		1.2	
					Bottom	7.4	0.5	186	24.6	24.6	7.8	7.8	30.6	30.6	101.1	101.2	7.1	7.1	6.4		9		93				<0.2		1.1	
						7.4	0.6	187	24.6		7.8		30.6		101.2		7.1		6.4		9		93				<0.2		0.9	
IM3	Cloudy	Moderate	09:35	8.3	Surface	1.0	0.6	179	24.2	24.2	7.8	7.8	30.5	30.5	100.5	100.6	7.1	7.1	4.3	4.9	9	9	86	88	819422	806035	<0.2	<0.2	1.2	1.2
						1.0	0.6	186	24.2		7.8		30.5		100.6		7.1		4.3		7		85				<0.2		1.3	
					Middle	4.2	0.6	180	24.2	24.2	7.8	7.8	30.6	30.6	100.1	100.1	7.0		4.5		8		88				<0.2		1.3	
						4.2	0.6	180	24.2		7.8		30.6		100.1		7.0		4.5		7		89				<0.2		1.2	
					Bottom	7.3	0.6	177	24.6	24.6	7.7	7.7	30.9	30.9	104.7	104.8	7.3	7.3	5.8		10		90				<0.2		0.9	
						7.3	0.7	184	24.6		7.7		30.9		104.9		7.3		5.8		12		92				<0.2		1.0	
IM4	Cloudy	Moderate	09:44	7.8	Surface	1.0	0.6	185	24.2	24.2	7.8	7.8	30.2	30.2	99.8	99.8	7.0	7.0	5.4	5.8	7	9	85	88	819575	805049	<0.2	<0.2	1.2	1.1
						1.0	0.7	185	24.2		7.8		30.1		99.8		7.0		5.3		9		85				<0.2		1.2	
					Middle	3.9	0.6	195	24.3	24.3	7.8	7.8	30.1	30.1	99.6	99.6	7.0		5.6		8		88				<0.2		1.2	
						3.9	0.6	197	24.3		7.8		30.1		99.5		7.0		5.6		8		88				<0.2		1.3	
					Bottom	6.8	0.5	196	24.5	24.5	7.8	7.8	30.6	30.6	99.9	99.9	7.0	7.0	6.3		11		91				<0.2		0.8	
						6.8	0.5	197	24.5		7.8		30.6		99.9		7.0		6.4		10		92				<0.2		0.8	
IM5	Cloudy	Moderate	09:54	7.0	Surface	1.0	0.6	151	24.3	24.3	7.8	7.8	29.9	29.9	99.2	99.2	7.0	7.0	6.6	9.0	8	10	85	89	820554	804941	<0.2	<0.2	1.0	1.1
						1.0	0.6	159	24.3		7.8		29.9		99.2		7.0		6.5		9		86				<0.2		1.1	
					Middle	3.5	0.5	151	24.3	24.3	7.8	7.8	29.8	29.8	99.0	99.1	7.0		7.5		9		88				<0.2		1.1	
						3.5	0.6	159	24.3		7.8		29.8		99.1		7.0		7.6		10		89				<0.2		1.1	
					Bottom	6.0	0.6	145	24.4	24.4	7.8	7.8	30.0	30.0	99.8	99.8	7.0	7.0	12.9		12		91				<0.2		1.2	
						6.0	0.6	151	24.4		7.8		30.0		99.8		7.0		12.9		10		92				<0.2		1.2	
IM6	Cloudy	Moderate	10:09	6.9	Surface	1.0	0.5	182	24.3	24.3	7.8	7.8	29.7	29.7	100.1	100.1	7.1	7.1	4.5	5.9	6	8	86	90	821049	805835	<0.2	<0.2	1.1	1.1
						1.0	0.5	188	24.3		7.8		29.7		100.1		7.1		4.6		6		87				<0.2		0.9	
					Middle	3.5	0.5	186	24.3	24.3	7.8	7.8	29.7	29.8	100.7	100.7	7.1		5.5		7		89				<0.2		1.2	
						3.5	0.5	190	24.3		7.8		29.8		100.7		7.1		5.5		7		90				<0.2		1.2	
					Bottom	5.9	0.6	193	24.5	24.5	7.7	7.7	30.1	30.1	104.6	104.8	7.3	7.4	7.5		11		93				<0.2		1.0	
						5.9	0.7	210	24.5		7.7		30.1		104.9		7.4		7.5		11		94				<0.2		1.2	
IM7	Cloudy	Moderate	10:17	7.9	Surface	1.0	0.5	185	24.6	24.6	7.8	7.8	29.7	29.7	99.0	99.1	7.0	7.1	4.7	5.3	7	8	84	89	821355	806837	<0.2	<0.2	1.4	1.4
						1.0	0.5	187	24.6		7.8		29.7		99.1		7.0		4.8		8		86				<0.2		1.4	
					Middle	4.0	0.5	189	24.6	24.6	7.7	7.7	29.7	29.7	100.9	101.0	7.1		5.1		8		88				<0.2		1.2	
						4.0	0.6	198	24.5		7.7		29.7		101.0		7.1		5.1		10		89				<0.2		1.3	
					Bottom	6.9	0.5	172	24.5	24.5	7.7	7.7	30.0	30.0	104.7	104.8	7.4	7.4	5.9		8		92				<0.2		1.6	
						6.9	0.6	173	24.5		7.7		30.0		104.9		7.4		5.9		9		93				<0.2		1.6	
IM8	Cloudy	Rough	10:06	7.5	Surface	1.0	0.4	158	21.4	21.4	8.0	8.0	30.5	30.5	101.6	101.6	7.5	7.5	5.4	6.4	6	6	85	91	821690	807843	<0.2	<0.2	1.0	1.1
						1.0	0.4	161	21.4		8.0		30.5		101.6		7.5		5.4		5		86				<0.2		1.1	
					Middle	3.8	0.4	179	21.5	21.5	7.9	7.9	30.6	30.6	101.4	101.4	7.5		6.2		7		93				<0.2		1.2	
						3.8	0.4	195	21.5		7.9		30.6		101.3		7.5		6.3		5		92				<0.2		1.1	
					Bottom	6.5	0.5	187	21.9	21.9	7.9	7.9	31.1	31.1	103.5	103.6	7.6	7.6	7.4		7		93				<0.2		1.1	
						6.5	0.5	190	21.9		7.9		31.1		103.6		7.6		7.5		5		94				<0.2		1.1	

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 24 November 16 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
IM9	Cloudy	Rough	09:58	7.9	Surface	1.0	0.3	147	21.5	21.5	7.9	7.9	30.2	30.2	100.5	100.5	7.5	7.5	4.8	7.9	5	6	86	91	822087	808825	<0.2	<0.2	1.3	1.2
						1.0	0.4	150	21.5		7.9		30.2		100.5		7.5		4.8		6		86				<0.2		1.2	
					Middle	4.0	0.4	127	21.5	21.5	7.9	7.9	30.2	30.2	99.8	99.8	7.4		7.5		5		93				<0.2		1.3	
						4.0	0.4	131	21.5		7.9		30.2		99.8		7.4		7.5		7		92				<0.2		1.2	
					Bottom	6.9	0.4	164	21.9	21.9	7.9	7.9	30.9	30.9	101.4	101.8	7.4	7.5	11.3		6		94				<0.2		1.2	
						6.9	0.4	168	21.8		7.9		30.9		102.1		7.5		11.2		6		94				<0.2		1.1	
IM10	Cloudy	Rough	09:50	7.3	Surface	1.0	0.4	128	21.9	21.9	7.9	7.9	30.1	30.1	96.3	96.4	7.1	7.2	5.7	8.8	6	6	87	91	822238	809850	<0.2	<0.2	1.4	1.3
						1.0	0.4	133	21.9		7.9		30.1		96.4		7.1		5.8		5		87				<0.2		1.3	
					Middle	3.7	0.4	126	21.9	21.9	7.9	7.9	30.1	30.1	97.2	97.3	7.2		7.3		6		93				<0.2		1.2	
						3.7	0.4	130	21.9		7.9		30.1		97.3		7.2		7.3		7		92				<0.2		1.2	
					Bottom	6.3	0.4	155	22.1	22.1	7.9	7.9	31.0	31.0	101.2	101.2	7.4	7.4	13.3		7		94				<0.2		1.4	
						6.3	0.4	167	22.1		7.9		31.0		101.2		7.4		13.3		5		94				<0.2		1.4	
IM11	Cloudy	Rough	09:41	8.0	Surface	1.0	0.3	122	22.1	22.1	7.8	7.8	30.2	30.2	92.3	92.3	6.8	6.9	7.3	8.1	10	10	88	91	821511	810540	<0.2	<0.2	1.5	1.5
						1.0	0.3	128	22.1		7.8		30.2		92.3		6.8		7.3		8		87				<0.2		1.6	
					Middle	4.0	0.3	139	22.1	22.1	7.8	7.8	30.2	30.2	93.5	93.6	6.9		8.4		10		93				<0.2		1.5	
						4.0	0.4	140	22.1		7.8		30.2		93.6		6.9		8.4		11		92				<0.2		1.5	
					Bottom	7.0	0.3	127	22.1	22.1	7.8	7.8	30.2	30.2	97.9	98.0	7.2	7.2	8.5		9		94				<0.2		1.4	
						7.0	0.3	137	22.1		7.8		30.2		98.0		7.2		8.5		10		94				<0.2		1.6	
IM12	Cloudy	Rough	09:33	8.4	Surface	1.0	0.4	117	22.0	22.0	7.8	7.8	30.3	30.3	92.6	92.6	6.8	6.8	5.2	5.9	8	7	88	92	821164	811521	<0.2	<0.2	1.6	1.7
						1.0	0.4	128	22.0		7.8		30.3		92.6		6.8		5.2		6		88				<0.2		1.6	
					Middle	4.2	0.4	132	22.0	22.0	7.8	7.8	30.4	30.4	92.8	92.9	6.8		5.4		7		93				<0.2		1.4	
						4.2	0.4	138	22.0		7.8		30.4		92.9		6.8		5.4		7		93				<0.2		1.4	
					Bottom	7.4	0.6	194	22.1	22.1	7.8	7.8	30.5	30.5	95.4	95.4	7.0	7.0	7.2		7		95				<0.2		2.2	
						7.4	0.7	202	22.1		7.8		30.5		95.4		7.0		7.2		7		94				<0.2		2.1	
SR2	Cloudy	Moderate	09:02	4.8	Surface	1.0	0.3	77	21.8	21.8	7.8	7.8	30.2	30.2	97.5	97.8	7.2	7.2	4.0	4.2	4	4	89	92	821482	814180	<0.2	<0.2	1.5	1.5
						1.0	0.3	84	21.8		7.8		30.2		98.0		7.2		4.0		4		89				<0.2		1.6	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.3	80	21.8	21.8	7.8	7.8	30.3	30.4	102.0	102.6	7.5	7.6	4.4		4		95				<0.2		1.4	
						3.8	0.4	86	21.8		7.8		30.4		103.2		7.6		4.2		4		95				<0.2		1.6	
SR3	Cloudy	Rough	10:12	8.6	Surface	1.0	0.4	172	21.6	21.6	7.9	7.9	30.1	30.1	99.1	99.1	7.3	7.3	5.6	6.9	6	7	-	-	822145	807581	-	-	-	-
						1.0	0.4	185	21.6		7.9		30.1		99.1		7.3		5.6		6		-				-		-	
					Middle	4.3	0.3	180	21.7	21.7	7.9	7.9	30.1	30.1	98.3	98.3	7.3		6.8		7		-				-		-	
						4.3	0.3	180	21.7		7.9		30.1		98.3		7.3		6.8		6		-				-		-	
					Bottom	7.6	0.4	200	22.2	22.2	8.0	8.0	31.2	31.2	99.4	99.4	7.2	7.2	8.2		7		-				-		-	
						7.6	0.5	208	22.2		8.0		31.2		99.4		7.2		8.2		7		-				-		-	
SR4A	Cloudy	Moderate	08:32	7.9	Surface	1.0	0.3	126	24.3	24.3	7.8	7.8	30.5	30.5	97.1	97.1	6.8	6.8	7.1	8.4	10	12	-	-	817197	807813	-	-	-	-
						1.0	0.3	136	24.3		7.8		30.5		97.1		6.8		7.2		11		-				-		-	
					Middle	4.0	0.3	124	24.3	24.3	7.8	7.8	30.4	30.4	97.1	97.1	6.8		7.5		12		-				-		-	
						4.0	0.3	125	24.3		7.8		30.4		97.0		6.8		7.5		10		-				-		-	
					Bottom	6.9	0.3	133	24.4	24.4	7.8	7.8	30.6	30.6	97.2	97.2	6.8	6.8	10.6		13		-				-		-	
						6.9	0.3	144	24.4		7.8		30.6		97.2		6.8		10.6		13		-				-		-	
SR5A	Cloudy	Calm	08:12	3.7	Surface	1.0	0.1	243	24.1	24.1	7.7	7.7	28.4	28.4	93.3	93.3	6.7	6.7	3.2	4.7	5	6	-	-	816577	810693	-	-	-	-
						1.0	0.1	259	24.1		7.7		28.4		93.3		6.7		3.3		5		-				-		-	
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.2	264	24.8	24.8	7.6	7.6	28.8	28.8	96.0	96.1	6.8	6.8	6.2		8		-				-		-	
						2.7	0.2	274	24.8		7.6		28.8		96.1		6.8		6.2		7		-				-		-	
SR6	Cloudy	Moderate	07:48	4.8	Surface	1.0	0.1	119	23.8	23.8	7.7	7.7	27.7	27.7	92.6	92.6	6.7	6.7	4.4	4.8	7	8	-	-	817912	814676	-	-	-	-
						1.0	0.2	125	23.8		7.7		27.6		92.6		6.7		4.3		8		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.2	128	24.1	24.1	7.6	7.6	28.4	28.4	94.0	94.0	6.7	6.7	5.2		8		-				-		-	
						3.8	0.2	136	24.1		7.6		28.4		94.0		6.7		5.1		7		-				-		-	
SR7	Cloudy	Moderate	07:57	18.2	Surface	1.0	0.2	133	22.2	22.2	7.9	7.9	31.0	31.0	92.4	92.4	6.7	6.7	3.3	3.5	7	8	-	-	823640	823758	-	-	-	-
						1.0	0.2	141	22.2		7.9		31.0		92.3		6.7		3.3		6		-				-		-	
					Middle	9.1	0.2	115	22.1	22.1	7.8	7.8	31.1	31.1	92.1	92.1	6.7		3.3		6		-				-		-	
						9.1	0.2	117	22.1		7.8		31.1		92.1		6.7		3.3		7		-				-		-	
					Bottom	17.2	0.2	116	22.2	22.2	7.8	7.8	31.2	31.2	92.4	92.4	6.7	6.7	3.8		10		-				-		-	
						17.2	0.2	125	22.2		7.8		31.2		92.4		6.7		3.7		9		-				-		-	
SR8	Cloudy	Rough	09:24	5.2	Surface	1.0	0.4	134	22.0	22.0	7.9	7.9	30.2	30.2	93.6	93.6	6.9	6.9	6.9	6.2	7	10	-	-	820399	811589	-	-	-	-
						1.0	0.4	137	22.0		7.9		30.2		93.6		6.9		6.9		9		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.4	191	22.0	22.0	7.8	7.8	30.5	30.5	92.7	94.8	6.8	7.0	5.3		12		-				-		-	
						4.2	0.5	201	22.0		7.8		30.5		96.8		7.1		5.8		10		-				-		-	

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 26 November 16 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
C1	Rainy	Rough	16:31	8.0	Surface	1.0	0.7	141	23.9	24.0	7.9	7.9	31.1	31.1	92.4	92.4	6.5	6.5	6.0	6.6	10	10	87	92	815619	804246	<0.2	<0.2	0.6	0.6
						1.0	0.7	142	24.0		7.9		31.1		92.4		6.5		6.0		8		89				<0.2		0.5	
					Middle	4.0	0.8	121	24.0	24.0	7.9	7.9	31.1	31.1	92.3	92.3	6.5		6.4		11		93				<0.2		0.5	
						4.0	0.9	124	24.0		7.9		31.1		92.2		6.5		6.4		11		94				<0.2		0.6	
					Bottom	7.0	0.8	148	24.0	24.0	7.9	7.9	31.1	31.1	92.0	92.0	6.5	6.5	7.4		11		94				<0.2		0.6	
						7.0	0.8	159	24.0		7.9		31.1		92.0		6.5		7.5		10		94				<0.2		0.6	
C2	Cloudy	Rough	15:21	10.8	Surface	1.0	0.8	178	21.1	21.1	8.0	8.0	31.3	31.3	98.2	98.2	7.3	7.3	4.4	4.8	8	10	84	90	825674	806926	<0.2	<0.2	0.8	0.8
						1.0	0.9	181	21.1		8.0		31.3		98.2		7.3		4.4		8		84				<0.2		0.7	
					Middle	5.4	0.8	189	21.1	21.1	7.9	7.9	31.3	31.3	98.1	98.1	7.3		4.5		11		92				<0.2		0.8	
						5.4	0.8	194	21.1		7.9		31.3		98.1		7.3		4.5		10		91				<0.2		0.8	
					Bottom	9.8	1.3	208	21.2	21.2	7.9	7.9	31.3	31.3	98.2	98.2	7.3	7.3	5.4		11		94				<0.2		0.8	
						9.8	1.3	217	21.2		7.9		31.3		98.2		7.3		5.4		10		94				<0.2		0.7	
C3	Rainy	Moderate	18:02	11.8	Surface	1.0	0.5	257	21.5	21.5	8.0	8.0	31.2	31.2	96.1	96.1	7.1	7.2	8.1	9.2	10	10	88	92	822100	817790	<0.2	<0.2	0.4	0.4
						1.0	0.6	262	21.5		8.0		31.2		96.1		7.1		8.1		10		88				<0.2		0.4	
					Middle	5.9	0.6	273	21.5	21.5	8.0	8.0	31.2	31.2	98.3	98.3	7.2		9.4		10		93				<0.2		0.4	
						5.9	0.6	298	21.5		8.0		31.2		98.3		7.2		9.4		9		93				<0.2		0.3	
					Bottom	10.8	0.6	279	21.5	21.5	7.9	7.9	31.3	31.3	101.1	101.1	7.4	7.4	10.2		10		96				<0.2		0.4	
						10.8	0.6	291	21.5		7.9		31.3		101.1		7.4		10.2		12		95				<0.2		0.4	
IM1	Rainy	Rough	16:08	7.2	Surface	1.0	0.8	166	24.0	24.0	7.9	7.9	31.1	31.1	92.3	92.4	6.5	6.5	6.5	7.5	6	8	88	92	818335	806477	<0.2	<0.2	0.8	0.7
						1.0	0.8	168	24.0		7.9		31.1		92.4		6.5		6.4		7		90				<0.2		0.9	
					Middle	3.6	0.7	146	24.0	24.0	7.9	7.9	31.1	31.1	92.2	92.2	6.5		7.2		9		93				<0.2		0.6	
						3.6	0.7	159	24.0		7.9		31.1		92.2		6.5		7.3		8		93				<0.2		0.5	
					Bottom	6.2	0.8	162	24.0	24.0	7.9	7.9	31.1	31.1	91.8	91.8	6.5	6.5	8.6		10		94				<0.2		0.6	
						6.2	0.8	173	24.0		7.9		31.1		91.8		6.5		8.7		10		95				<0.2		0.6	
IM2	Rainy	Rough	15:59	7.6	Surface	1.0	0.8	192	23.9	23.9	7.9	7.9	31.1	31.1	92.5	92.5	6.5	6.5	5.9	7.1	7	8	85	90	818848	806189	<0.2	<0.2	0.6	0.6
						1.0	0.8	194	23.9		7.9		31.1		92.5		6.5		5.7		8		86				<0.2		0.7	
					Middle	3.8	0.6	166	24.0	24.0	7.9	7.9	31.1	31.1	92.4	92.4	6.5		6.7		7		89				<0.2		0.6	
						3.8	0.6	181	24.0		7.9		31.1		92.4		6.5		6.8		9		91				<0.2		0.6	
					Bottom	6.6	0.6	190	24.0	24.0	7.9	7.9	31.1	31.1	92.3	92.4	6.5	6.5	8.7		8		93				<0.2		0.7	
						6.6	0.6	199	24.0		7.9		31.1		92.4		6.5		8.6		9		94				<0.2		0.6	
IM3	Rainy	Rough	15:52	7.7	Surface	1.0	0.7	201	23.9	23.9	7.9	7.9	31.1	31.1	92.5	92.5	6.5	6.5	6.3	8.7	7	8	87	90	819409	806029	<0.2	<0.2	0.7	0.7
						1.0	0.8	209	23.9		7.9		31.1		92.5		6.5		6.4		9		87				<0.2		0.7	
					Middle	3.9	0.6	186	24.0	24.0	7.9	7.9	31.1	31.1	92.4	92.4	6.5		7.9		6		90				<0.2		0.7	
						3.9	0.7	187	24.0		7.9		31.1		92.4		6.5		8.0		8		90				<0.2		0.8	
					Bottom	6.7	0.8	192	24.0	24.0	7.9	7.9	31.1	31.1	92.2	92.2	6.5	6.5	11.9		10		92				<0.2		0.6	
						6.7	0.8	197	24.0		7.9		31.1		92.2		6.5		11.8		10		93				<0.2		0.6	
IM4	Rainy	Rough	15:45	7.4	Surface	1.0	0.7	186	23.9	23.9	7.9	7.9	31.1	31.1	92.6	92.7	6.5	6.5	5.8	6.5	8	9	88	91	819571	805056	<0.2	<0.2	0.7	0.6
						1.0	0.8	196	23.9		7.9		31.1		92.7		6.5		5.8		9		88				<0.2		0.7	
					Middle	3.7	0.7	194	23.9	24.0	7.9	7.9	31.1	31.1	92.5	92.5	6.5		6.4		8		90				<0.2		0.6	
						3.7	0.8	198	24.0		7.9		31.1		92.4		6.5		6.3		9		91				<0.2		0.6	
					Bottom	6.4	0.6	200	24.0	24.0	7.9	7.9	31.1	31.1	92.3	92.3	6.5	6.5	7.2		10		93				<0.2		0.6	
						6.4	0.7	210	24.0		7.9		31.1		92.3		6.5		7.2		12		93				<0.2		0.6	
IM5	Rainy	Rough	15:39	7.2	Surface	1.0	0.8	193	23.9	23.9	7.9	7.9	31.1	31.1	92.5	92.6	6.5	6.5	6.0	6.5	8	10	86	89	820553	804934	<0.2	<0.2	0.6	0.6
						1.0	0.8	202	23.9		7.9		31.1		92.6		6.5		6.1		8		86				<0.2		0.6	
					Middle	3.6	0.9	192	24.0	24.0	7.9	7.9	31.1	31.1	92.5	92.5	6.5		6.8		11		88				<0.2		0.6	
						3.6	0.9	210	24.0		7.9		31.1		92.5		6.5		6.9		10		89				<0.2		0.7	
					Bottom	6.2	0.7	199	24.0	24.0	7.9	7.9	31.1	31.1	92.3	92.3	6.5	6.5	6.6		11		91				<0.2		0.6	
						6.2	0.7	214	24.0		7.9		31.1		92.3		6.5		6.6		10		91				<0.2		0.6	
IM6	Rainy	Rough	15:32	7.0	Surface	1.0	0.8	214	23.9	23.9	7.9	7.9	31.1	31.1	92.7	92.7	6.5	6.5	6.2	7.0	8	10	87	90	821057	805829	<0.2	<0.2	0.8	0.7
						1.0	0.8	229	23.9		7.9		31.1		92.7		6.5		6.3		8		88				<0.2		0.8	
					Middle	3.5	0.7	187	24.0	24.0	7.9	7.9	31.1	31.1	92.4	92.4	6.5		6.7		8		90				<0.2		0.6	
						3.5	0.8	187	23.9		7.9		31.1		92.4		6.5		6.8		10		90				<0.2		0.6	
					Bottom	6.0	0.7	223	24.0	24.0	7.9	7.9	31.1	31.1	92.4	92.4	6.5	6.5	7.9		12		93				<0.2		0.6	
						6.0	0.7	245	24.0		7.9		31.1		92.4		6.5		7.9		13		94				<0.2		0.6	
IM7	Rainy	Rough	15:25	8.1	Surface	1.0	0.6	208	23.9	23.9	7.9	7.9	31.1	31.1	92.7	92.7	6.5	6.5	6.3	7.7	7	9	87	90	821350	806853	<0.2	<0.2	0.7	0.7
						1.0	0.6	214	23.9		7.9		31.1		92.7		6.5		6.3		6		87				<0.2		0.7	
					Middle	4.1	0.7	198	24.0	24.0	7.9	7.9	31.1	31.1	92.6	92.6	6.5		7.0		9		89				<0.2		0.7	
						4.1	0.7	202	24.0		7.9		31.1		92.6		6.5		7.1		9		90				<0.2		0.7	
					Bottom	7.1	0.6	194	24.0	24.0	7.9	7.9	31.1	31.1	92.6	92.6	6.5	6.5	9.6		11		92				<0.2		0.6	
						7.1	0.6	200	24.0		7.9		31.1		92.6		6.5		9.6		10		93				<0.2		0.6	
IM8	Cloudy	Rough	16:15	7.9	Surface	1.0	0.6	242	20.8	20.8	8.0	8.0	31.2	31.2	99.1	99.1	7.4	7.4	11.9	12.8	16	17	85	90	821708	807842	<0.2	<0.2	0.8	0.8
						1.0	0.7	259	20.8		8.0		31.2		99.1		7.4		11.9		16		85				<0.2		0.7	
					Middle	4.0	0.6	259	20.8	20.8	8.0	8.0	31.2	31.2	98.8	98.8	7.4		12.8		16		92				<0.2		0.8	
						4.0	0.7	281	20.8		8.0		31.2		98.8		7.4		12.8		16		92				<0.2		0.8	
					Bottom	6.9	0.6	251	20.8	20.8	8.0	8.0	31.2	31.2	98.6	98.6	7.3	7.3	13.8		18		94				<0.2		0.8	
						6.9	0.6	264	20.8		8.0		31.2		98.6		7.3		13.8		17		94				<0.2		0.8	

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 26 November 16 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	Rainy	Rough	16:28	7.0	Surface	1.0	0.6	212	20.4	20.4	8.0	8.0	31.8	31.8	101.7	101.8	7.6	7.6	10.0	11.5	9	12	85	91	822111	808796	<0.2	<0.2	0.6	0.7
						1.0	0.6	213	20.4		8.0		31.8		101.8		7.6		10.1		10		86				<0.2		0.7	
					Middle	3.5	0.5	215	20.5	20.5	8.0	8.0	31.8	31.8	101.4	101.4	7.6		11.0		12		92				<0.2		0.7	
						3.5	0.6	223	20.5		8.0		31.8		101.4		7.6		11.0		14		92				<0.2		0.6	
					Bottom	6.0	0.5	224	20.5	20.5	8.0	8.0	31.9	32.0	102.5	104.5	7.7	7.9	14.1		13		94				<0.2		0.7	
						6.0	0.5	244	20.5		8.0		32.0		106.5		8.0		12.7		13		95				<0.2		0.7	
IM10	Rainy	Rough	16:39	6.7	Surface	1.0	0.7	237	20.4	20.4	8.0	8.0	31.7	31.7	101.4	101.4	7.6	7.6	9.7	13.2	13	13	86	91	822233	809831	<0.2	<0.2	0.7	0.7
						1.0	0.8	241	20.4		8.0		31.7		101.4		7.6		9.7		12		85				<0.2		0.6	
					Middle	3.4	0.7	220	20.4	20.4	8.0	8.0	31.7	31.7	100.7	100.7	7.5		11.0		12		93				<0.2		0.6	
						3.4	0.7	237	20.4		8.0		31.7		100.7		7.5		11.0		13		92				<0.2		0.6	
					Bottom	5.7	0.8	207	20.5	20.5	8.0	8.0	31.9	31.9	100.1	100.1	7.5	7.5	18.8		13		94				<0.2		0.8	
						5.7	0.8	224	20.5		8.0		31.9		100.1		7.5		18.8		13		94				<0.2		0.7	
IM11	Rainy	Rough	16:51	6.2	Surface	1.0	0.5	242	20.4	20.4	8.0	8.0	31.6	31.6	101.3	101.3	7.6	7.6	8.5	9.6	14	15	87	91	821496	810556	<0.2	<0.2	0.6	0.6
						1.0	0.6	264	20.4		8.0		31.6		101.3		7.6		8.5		13		86				<0.2		0.6	
					Middle	3.1	0.5	255	20.4	20.4	8.0	8.0	31.7	31.7	101.3	101.3	7.6		8.9		18		93				<0.2		0.6	
						3.1	0.5	256	20.4		8.0		31.7		101.3		7.6		8.9		16		93				<0.2		0.6	
					Bottom	5.2	0.5	252	20.4	20.4	8.0	8.0	31.7	31.7	100.7	100.7	7.5	7.5	11.4		13		95				<0.2		0.7	
						5.2	0.5	262	20.4		8.0		31.7		100.7		7.5		11.4		13		94				<0.2		0.7	
IM12	Cloudy	Rough	17:03	8.8	Surface	1.0	0.7	256	20.9	20.9	8.0	8.0	31.5	31.5	98.4	98.4	7.3	7.4	7.4	10.6	14	14	87	91	821164	811532	<0.2	<0.2	0.7	0.8
						1.0	0.7	276	20.9		8.0		31.5		98.4		7.3		7.4		16		86				<0.2		0.7	
					Middle	4.4	0.7	270	20.9	20.9	8.0	8.0	31.5	31.5	99.0	99.0	7.4		8.2		15		93				<0.2		0.8	
						4.4	0.7	284	20.9		8.0		31.5		99.0		7.4		8.2		14		93				<0.2		0.7	
					Bottom	7.8	0.7	258	20.6	20.6	8.0	8.0	31.7	31.7	104.2	104.2	7.8	7.8	16.1		13		95				<0.2		0.8	
						7.8	0.7	270	20.6		8.0		31.7		104.2		7.8		16.1		14		94				<0.2		0.8	
SR2	Rainy	Rough	17:35	4.9	Surface	1.0	0.2	188	21.2	21.2	8.0	8.0	31.7	31.7	96.9	96.9	7.2	7.2	17.6	19.7	12	14	87	91	821474	814183	<0.2	<0.2	0.5	0.5
						1.0	0.2	189	21.2		8.0		31.7		96.9		7.2		17.6		11		88				<0.2		0.5	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.2	182	21.2	21.2	7.9	7.9	31.7	31.7	99.8	99.8	7.4	7.4	21.7		17		95				<0.2		0.4	
						3.9	0.2	187	21.2		7.9		31.7		99.8		7.4		21.7		16		95				<0.2		0.5	
SR3	Cloudy	Rough	16:13	8.2	Surface	1.0	0.7	216	20.8	20.8	8.0	8.0	31.2	31.2	99.0	99.0	7.4	7.4	16.8	15.7	14	17	-	-	822156	807558	-	-	-	-
						1.0	0.7	231	20.8		8.0		31.2		99.0		7.4		16.8		14		-				-		-	
					Middle	4.1	0.6	214	20.8	20.8	8.0	8.0	31.2	31.2	98.9	98.9	7.4		14.5		16		-				-		-	
						4.1	0.6	227	20.8		8.0		31.2		98.9		7.4		14.5		16		-				-		-	
					Bottom	7.2	0.7	217	20.8	20.8	8.0	8.0	31.2	31.2	98.6	98.6	7.4	7.4	15.9		23		-				-		-	
						7.2	0.7	231	20.8		8.0		31.2		98.6		7.3		15.7		21		-				-		-	
SR4A	Rainy	Moderate	16:48	6.9	Surface	1.0	0.4	242	24.0	24.0	7.9	7.9	31.1	31.2	92.3	92.3	6.5	6.5	6.7	7.8	10	12	-	-	817200	807811	-	-	-	-
						1.0	0.4	260	24.0		7.9		31.2		92.3		6.5		6.7		10		-				-		-	
					Middle	3.5	0.4	244	24.0	24.0	7.9	7.9	31.1	31.1	92.2	92.2	6.5		8.3		12		-				-		-	
						3.5	0.4	266	24.0		7.9		31.1		92.2		6.5		8.2		13		-				-		-	
					Bottom	5.9	0.3	248	24.0	24.0	7.9	7.9	31.1	31.1	92.0	92.0	6.5	6.5	8.4		15		-				-		-	
						5.9	0.4	267	24.0		7.9		31.1		92.0		6.5		8.4		14		-				-		-	
SR5A	Rainy	Moderate	17:15	3.3	Surface	1.0	0.4	283	24.2	24.2	7.9	7.9	31.6	31.6	94.0	94.0	6.6	6.6	4.2	4.7	8	9	-	-	816573	810710	-	-	-	-
						1.0	0.4	303	24.2		7.9		31.6		94.0		6.6		4.3		10		-				-		-	
					Middle	1.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.3	0.3	289	24.3	24.3	7.9	7.9	31.6	31.6	94.8	94.8	6.6	6.6	5.1		8		-				-		-	
						2.3	0.3	300	24.3		7.9		31.6		94.8		6.6		5.1		10		-				-		-	
SR6	Rainy	Moderate	17:36	3.7	Surface	1.0	0.2	234	24.2	24.2	7.9	7.9	31.6	31.6	93.2	93.2	6.5	6.5	4.1	4.3	9	9	-	-	817884	814645	-	-	-	-
						1.0	0.2	255	24.2		7.9		31.6		93.2		6.5		4.1		9		-				-		-	
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.2	233	24.3	24.3	7.9	7.9	31.6	31.6	93.3	93.3	6.5	6.5	4.4		9		-				-		-	
						2.7	0.2	238	24.3		7.9		31.6		93.3		6.5		4.5		9		-				-		-	
SR7	Cloudy	Moderate	18:48	18.1	Surface	1.0	0.3	81	21.5	21.5	8.0	8.0	31.6	31.6	96.7	96.7	7.1	7.2	5.7	5.6	5	8	-	-	823625	823748	-	-	-	-
						1.0	0.3	83	21.5		8.0		31.6		96.7		7.1		5.7		6		-				-		-	
					Middle	9.1	0.3	75	21.5	21.5	8.0	8.0	31.6	31.6	97.4	97.4	7.2		5.6		10		-				-		-	
						9.1	0.3	81	21.5		8.0		31.6		97.4		7.2		5.6		10		-				-		-	
					Bottom	17.1	0.5	156	21.5	21.5	7.9	7.9	31.6	31.6	101.5	101.6	7.5	7.5	5.4		10		-				-		-	
						17.1	0.5	171	21.5		7.9		31.6		101.7		7.5		5.5		9		-				-		-	
SR8	Cloudy	Rough	17:17	5.2	Surface	1.0	0.3	252	21.1	21.1	7.9	7.9	31.4	31.4	104.6	104.7	7.8	7.8	7.0	7.2	7	9	-	-	820405	811591	-	-	-	-
						1.0	0.3	265	21.1		7.9		31.4		104.7		7.8		7.0		9		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.3	261	21.0	21.0	7.9	7.9	31.4	31.4	113.0	113.0	8.4	8.4	7.4		10		-				-		-	
						4.2	0.4	278	21.0		7.9		31.4		113.0		8.4		7.4		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 26 November 16 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	Rainy	Rough	10:30	7.8	Surface	1.0	0.7	219	23.9	23.9	7.9	7.9	30.9	30.9	93.8	93.8	6.6	6.6	6.1	7.6	11	12	85	89	815605	804238	<0.2	<0.2	1.2	1.6
						1.0	0.8	238	23.9		7.9		30.9		93.8		6.6		6.1		11		85				<0.2		1.3	
					Middle	3.9	0.7	213	23.9	23.9	7.8	7.8	30.8	30.8	94.0	94.1	6.6		6.7		12		88				<0.2		1.6	
						3.9	0.8	216	23.9		7.8		30.8		94.1		6.6		6.8		12		88				<0.2		1.8	
					Bottom	6.8	0.6	212	24.0	24.0	7.8	7.8	30.7	30.7	95.1	95.2	6.7	6.7	9.8		11		94				<0.2		1.6	
						6.8	0.7	217	23.9		7.8		30.7		95.3		6.7		10.3		12		93				<0.2		1.8	
C2	Rainy	Rough	12:52	10.5	Surface	1.0	0.7	189	21.1	21.1	8.0	8.0	31.3	31.3	98.6	98.6	7.3	7.3	4.4	5.1	5	7	86	91	825672	806964	<0.2	<0.2	1.3	1.1
						1.0	0.8	206	21.1		8.0		31.3		98.6		7.3		4.4		6		90				<0.2		1.2	
					Middle	5.3	0.8	213	21.1	21.1	8.0	8.0	31.4	31.4	98.4	98.4	7.3		4.9		6		92				<0.2		1.0	
						5.3	0.9	213	21.1		8.0		31.4		98.4		7.3		4.9		8		92				<0.2		1.0	
					Bottom	9.5	1.0	224	21.2	21.2	8.0	8.0	31.4	31.4	98.4	98.4	7.3	7.3	5.9		9		93				<0.2		0.9	
						9.5	1.0	239	21.2		8.0		31.4		98.4		7.3		5.9		8		94				<0.2		0.9	
C3	Rainy	Moderate	10:05	11.9	Surface	1.0	0.9	98	21.6	21.6	8.0	8.0	31.7	31.7	95.0	95.0	7.0	7.0	2.8	3.1	6	7	89	93	822124	817789	<0.2	<0.2	0.6	0.6
						1.0	1.0	106	21.6		8.0		31.7		95.0		7.0		2.7		7		90				<0.2		0.6	
					Middle	6.0	1.1	205	21.6	21.6	8.0	8.0	31.8	31.8	94.9	94.9	6.9		3.2		6		93				<0.2		0.5	
						6.0	1.2	220	21.6		8.0		31.8		94.9		6.9		3.2		5		93				<0.2		0.5	
					Bottom	10.9	1.1	227	21.7	21.7	8.0	8.0	31.9	31.9	95.8	95.8	7.0	7.0	3.2		8		96				<0.2		0.6	
						10.9	1.2	240	21.7		8.0		31.9		95.8		7.0		3.2		7		95				<0.2		0.7	
IM1	Rainy	Rough	10:48	6.6	Surface	1.0	0.7	181	23.9	23.9	7.9	7.9	31.0	31.0	93.3	93.3	6.6	6.6	6.1	6.6	12	13	85	88	818362	806455	<0.2	<0.2	2.4	1.7
						1.0	0.8	187	23.9		7.9		31.0		93.3		6.6		6.2		11		85				<0.2		2.2	
					Middle	3.3	0.8	178	23.9	23.9	7.9	7.9	30.9	30.9	93.3	93.3	6.6		6.4		13		88				<0.2		1.4	
						3.3	0.8	195	23.9		7.9		30.9		93.3		6.6		6.4		14		88				<0.2		1.5	
					Bottom	5.6	0.7	186	23.9	24.0	7.9	7.9	30.9	30.9	93.4	93.4	6.6	6.6	7.4		13		92				<0.2		1.3	
						5.6	0.8	204	24.0		7.9		30.9		93.4		6.6		7.3		15		92				<0.2		1.2	
IM2	Rainy	Rough	10:57	7.8	Surface	1.0	0.6	186	23.9	23.9	7.9	7.9	31.0	31.0	93.1	93.1	6.6	6.6	5.9	7.2	11	19	86	90	818835	806176	<0.2	<0.2	1.3	1.6
						1.0	0.7	201	23.9		7.9		31.0		93.1		6.6		5.9		11		85				<0.2		1.1	
					Middle	3.9	0.7	177	23.9	23.9	7.9	7.9	31.0	31.0	93.2	93.2	6.6		6.6		13		90				<0.2		1.2	
						3.9	0.8	194	23.9		7.9		31.0		93.2		6.6		6.6		15		90				<0.2		1.1	
					Bottom	6.8	0.7	188	24.0	24.0	7.9	7.9	31.0	31.0	93.0	93.0	6.6	6.6	8.9		32		93				<0.2		2.4	
						6.8	0.7	202	24.0		7.9		31.0		93.0		6.6		9.0		32		93				<0.2		2.3	
IM3	Rainy	Rough	11:05	7.7	Surface	1.0	0.8	201	23.9	23.9	7.9	7.9	31.0	31.1	93.2	93.2	6.6	6.6	6.1	6.9	11	17	86	89	819406	806004	<0.2	<0.2	0.9	1.6
						1.0	0.8	212	23.9		7.9		31.1		93.2		6.6		6.1		10		85				<0.2		0.8	
					Middle	3.9	0.6	176	23.9	23.9	7.9	7.9	31.0	31.0	93.0	93.0	6.6		6.8		15		89				<0.2		1.4	
						3.9	0.7	191	23.9		7.9		31.0		92.9		6.6		6.9		14		89				<0.2		1.3	
					Bottom	6.7	0.7	176	23.9	24.0	7.9	7.9	31.0	31.0	92.8	92.8	6.5	6.5	7.6		26		91				<0.2		2.5	
						6.7	0.8	187	24.0		7.9		31.0		92.8		6.5		7.6		24		92				<0.2		2.4	
IM4	Rainy	Rough	11:12	7.6	Surface	1.0	0.7	206	23.9	23.9	7.9	7.9	31.1	31.1	93.0	93.0	6.6	6.6	5.9	6.5	13	14	85	89	819565	805032	<0.2	<0.2	1.4	1.7
						1.0	0.7	212	23.9		7.9		31.1		93.0		6.6		5.9		12		86				<0.2		1.4	
					Middle	3.8	0.8	184	23.9	23.9	7.9	7.9	31.1	31.1	93.0	93.0	6.6		6.3		13		89				<0.2		1.2	
						3.8	0.8	185	23.9		7.9		31.1		92.9		6.6		6.3		12		90				<0.2		1.1	
					Bottom	6.6	0.8	163	23.9	23.9	7.9	7.9	31.0	31.0	92.8	92.8	6.5	6.5	7.2		18		92				<0.2		2.5	
						6.6	0.8	174	23.9		7.9		31.0		92.8		6.5		7.2		18		93				<0.2		2.4	
IM5	Rainy	Rough	11:20	7.1	Surface	1.0	0.7	182	23.9	23.9	7.9	7.9	31.1	31.1	93.1	93.1	6.6	6.6	5.8	7.1	8	10	85	89	820553	804943	<0.2	<0.2	1.3	1.6
						1.0	0.7	189	23.9		7.9		31.1		93.1		6.6		5.8		8		86				<0.2		1.1	
					Middle	3.6	0.6	124	23.9	23.9	7.9	7.9	31.1	31.1	92.8	92.9	6.5		7.3		10		89				<0.2		1.5	
						3.6	0.7	126	23.9		7.9		31.1		92.9		6.5		7.4		11		90				<0.2		1.3	
					Bottom	6.1	0.8	144	24.0	24.0	7.9	7.9	31.0	31.0	92.7	92.7	6.5	6.5	8.2		10		92				<0.2		2.2	
						6.1	0.9	151	23.9		7.9		31.0		92.7		6.5		8.3		11		93				<0.2		2.3	
IM6	Rainy	Rough	11:28	6.8	Surface	1.0	0.6	174	23.9	23.9	7.9	7.9	31.1	31.1	93.0	93.0	6.6	6.5	6.4	8.9	8	9	88	91	821058	805843	<0.2	<0.2	1.5	1.7
						1.0	0.6	186	23.9		7.9		31.1		92.9		6.5		6.4		7		89				<0.2		1.3	
					Middle	3.4	0.6	143	23.9	23.9	7.9	7.9	31.1	31.1	92.9	92.9	6.5		8.0		10		90				<0.2		1.3	
						3.4	0.7	155	23.9		7.9		31.1		92.9		6.5		8.0		10		92				<0.2		1.3	
					Bottom	5.8	0.7	130	24.0	24.0	7.9	7.9	31.1	31.1	92.6	92.6	6.5	6.5	12.3		11		94				<0.2		2.5	
						5.8	0.7	136	23.9		7.9		31.1		92.6		6.5		12.2		10		94				<0.2		2.5	
IM7	Rainy	Rough	11:45	7.8	Surface	1.0	0.6	144	23.9	23.9	7.9	7.9	31.1	31.1	92.9	92.9	6.5	6.5	6.2	7.1	8	9	89	92	821348	806827	<0.2	<0.2	1.0	1.5
						1.0	0.7	150	23.9		7.9		31.1		92.8		6.5		6.2		8		89				<0.2		0.9	
					Middle	3.9	0.9	148	24.0	24.0	7.9	7.9	31.1	31.1	92.8	92.8	6.5		7.1		8		91				<0.2		1.0	
						3.9	0.9	152	24.0		7.9		31.1		92.8		6.5		7.0		10		93				<0.2		1.1	
					Bottom	6.8	0.8	124	24.0	24.0	7.9	7.9	31.1	31.1	92.6	92.6	6.5	6.5	7.9		9		94				<0.2		2.5	
						6.8	0.8	128	24.0		7.9		31.1		92.6		6.5		7.9		9		94				<0.2		2.3	
IM8	Rainy	Rough	12:09	7.8	Surface	1.0	0.8	178	20.7	20.7	8.0	8.0	31.2	31.2	100.4	100.4	7.5	7.5	7.6	7.9	9	11	86	91	821678	807853	<0.2	<0.2	0.7	0.8
						1.0	0.8	180	20.7		8.0		31.2		100.4		7.5		7.6		9		85				<0.2		0.8	
					Middle	3.9	0.7	181	20.7	20.7	8.0	8.0	31.2	31.2	100.1	100.1	7.5		8.3		11		92				<0.2		0.9	
						3.9	0.7	196	20.7		8.0		31.2		100.1		7.5		8.3		13		92				<0.2		0.8	
					Bottom	6.8	0.7	191	20.7	20.7	8.0	8.0	31.2	31.2	104.4	104.4	7.8	7.8	7.9		12		94				<0.2		0.8	
						6.8	0.7	203	20.7		8.0		31.2		104.4		7.8		7.9		14		94				<0.2		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 26 November 16 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
IM9	Rainy	Rough	11:55	6.9	Surface	1.0	0.8	167	20.6	20.6	8.0	8.0	31.4	31.4	101.2	101.2	7.6	7.6	10.0	8.8	14	14	86	91	822075	808795	<0.2	<0.2	0.7	0.7
						1.0	0.9	167	20.6		8.0		31.4		101.2		7.6		10.0		14		86				<0.2		0.7	
					Middle	3.5	0.7	161	20.6	20.6	8.0	8.0	31.5	31.5	101.4	101.4	7.6		8.0		14		92				<0.2		0.9	
						3.5	0.7	168	20.6		8.0		31.5		101.4		7.6		8.0		16		92				<0.2		0.9	
					Bottom	5.9	0.7	171	20.6	20.6	8.0	8.0	31.5	31.5	104.3	104.3	7.8	7.8	8.5		14		95				<0.2		0.6	
						5.9	0.8	175	20.6		8.0		31.5		104.3		7.8		8.5		14		94				<0.2		0.6	
IM10	Rainy	Rough	11:38	6.8	Surface	1.0	0.7	138	20.6	20.6	8.0	8.0	31.4	31.4	101.0	101.0	7.6	7.6	12.4	11.2	17	17	87	91	822244	809839	<0.2	<0.2	0.7	0.7
						1.0	0.7	149	20.6		8.0		31.4		101.0		7.6		12.4		15		87				<0.2		0.7	
					Middle	3.4	0.6	143	20.6	20.6	8.0	8.0	31.4	31.4	101.3	101.3	7.6		10.6		16		92				<0.2		0.8	
						3.4	0.6	150	20.6		8.0		31.4		101.2		7.6		10.6		14		92				<0.2		0.8	
					Bottom	5.8	0.6	140	20.6	20.6	8.0	8.0	31.4	31.4	101.3	101.6	7.6	7.6	10.6		19		94				<0.2		0.7	
						5.8	0.6	150	20.6		8.0		31.4		101.9		7.6		10.8		18		95				<0.2		0.6	
IM11	Rainy	Rough	11:21	7.2	Surface	1.0	0.4	119	21.0	21.0	8.0	8.0	31.3	31.3	97.9	97.9	7.3	7.3	10.6	15.5	14	15	87	92	821506	810540	<0.2	<0.2	0.8	0.8
						1.0	0.4	123	21.0		8.0		31.3		97.9		7.3		10.6		12		88				<0.2		0.8	
					Middle	3.6	0.5	111	21.0	21.0	8.0	8.0	31.3	31.3	98.2	98.2	7.3		13.5		14		92				<0.2		0.7	
						3.6	0.5	113	21.0		8.0		31.3		98.2		7.3		13.5		14		93				<0.2		0.7	
					Bottom	6.2	0.5	127	20.9	20.9	8.0	8.0	31.3	31.3	99.0	99.0	7.4	7.4	22.5		18		95				<0.2		0.8	
						6.2	0.5	132	20.9		8.0		31.3		99.0		7.4		22.5		18		94				<0.2		0.7	
IM12	Cloudy	Rough	11:05	9.2	Surface	1.0	0.5	112	21.1	21.1	8.0	8.0	31.3	31.3	96.8	96.9	7.2	7.2	6.7	8.1	10	10	88	92	821168	811510	<0.2	<0.2	0.6	0.7
						1.0	0.5	121	21.1		8.0		31.3		96.9		7.2		6.7		8		88				<0.2		0.7	
					Middle	4.6	0.6	101	21.1	21.1	8.0	8.0	31.3	31.3	97.3	97.3	7.2		6.9		10		93				<0.2		0.7	
						4.6	0.7	107	21.1		8.0		31.3		97.3		7.2		6.9		10		93				<0.2		0.7	
					Bottom	8.2	0.8	110	21.0	21.0	8.0	8.0	31.3	31.3	97.8	97.8	7.3	7.3	10.6		11		95				<0.2		0.7	
						8.2	0.8	113	21.0		8.0		31.3		97.8		7.3		10.5		9		95				<0.2		0.6	
SR2	Rainy	Rough	10:35	5.0	Surface	1.0	0.2	113	21.3	21.3	8.0	8.0	31.1	31.1	97.4	97.7	7.2	7.2	6.3	7.1	9	9	89	92	821482	814175	<0.2	<0.2	0.6	0.6
						1.0	0.2	118	21.3		8.0		31.1		98.0		7.2		6.8		9		89				<0.2		0.6	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.3	116	21.3	21.3	7.9	7.9	31.1	31.1	101.7	101.7	7.5	7.5	7.7		10		95				<0.2		0.6	
						4.0	0.3	116	21.3		7.9		31.1		101.7		7.5		7.7		9		95				<0.2		0.7	
SR3	Cloudy	Rough	12:21	8.5	Surface	1.0	0.8	184	20.7	20.7	8.0	8.0	30.9	30.9	100.7	100.7	7.5	7.5	5.3	5.9	5	9	-	-	822157	807551	-	-	-	-
						1.0	0.9	191	20.7		8.0		30.9		100.7		7.5		5.4		6		-				-		-	
					Middle	4.3	0.8	177	20.7	20.7	8.0	8.0	30.9	30.9	100.7	100.7	7.5		5.8		8		-				-		-	
						4.3	0.8	182	20.7		8.0		30.9		100.7		7.5		5.8		9		-				-		-	
					Bottom	7.5	1.0	211	20.7	20.7	8.0	8.0	31.1	31.1	102.1	102.1	7.6	7.6	6.5		11		-				-		-	
						7.5	1.0	219	20.7		8.0		31.1		102.1		7.6		6.5		13		-				-		-	
SR4A	Rainy	Moderate	09:59	7.9	Surface	1.0	0.5	138	23.4	23.4	7.8	7.8	31.3	31.3	97.6	97.6	6.9	7.0	20.1	22.4	31	33	-	-	817187	807821	-	-	-	-
						1.0	0.5	150	23.4		7.8		31.3		97.6		6.9		20.2		33		-				-		-	
					Middle	4.0	0.4	129	23.3	23.4	7.8	7.8	31.3	31.3	98.8	98.8	7.0		23.3		33		-				-		-	
						4.0	0.4	133	23.4		7.8		31.3		98.7		7.0		23.1		31		-				-		-	
					Bottom	6.9	0.5	133	23.3	23.3	7.8	7.8	31.2	31.2	99.5	99.6	7.1	7.1	23.7		36		-				-		-	
						6.9	0.5	138	23.3		7.8		31.2		99.6		7.1		23.8		35		-				-		-	
SR5A	Rainy	Moderate	09:40	3.3	Surface	1.0	0.3	183	23.2	23.2	7.7	7.7	29.7	29.7	96.9	97.0	7.0	7.0	4.9	5.3	8	9	-	-	816605	810699	-	-	-	-
						1.0	0.3	197	23.2		7.7		29.7		97.0		7.0		4.9		8		-				-		-	
					Middle	1.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.3	0.2	175	23.4	23.4	7.6	7.6	29.8	29.8	100.3	100.4	7.2	7.2	5.7		10		-				-		-	
						2.3	0.2	186	23.4		7.6		29.8		100.4		7.2		5.6		8		-				-		-	
SR6	Rainy	Moderate	09:27	3.8	Surface	1.0	0.2	119	23.4	23.4	7.7	7.7	29.2	29.2	96.6	96.6	6.9	6.9	4.6	5.5	7	10	-	-	817903	814662	-	-	-	-
						1.0	0.2	130	23.4		7.7		29.2		96.6		6.9		4.7		8		-				-		-	
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.2	128	23.5	23.5	7.7	7.7	28.8	28.8	100.1	100.2	7.2	7.2	6.3		11		-				-		-	
						2.8	0.2	138	23.5		7.6		28.8		100.2		7.2		6.3		12		-				-		-	
SR7	Rainy	Moderate	09:28	18.2	Surface	1.0	0.2	145	21.6	21.6	8.0	8.0	32.1	32.1	94.9	94.9	6.9	6.9	3.2	3.6	6	7	-	-	823623	823747	-	-	-	-
						1.0	0.2	152	21.6		8.0		32.1		94.9		6.9		3.2		7		-				-		-	
					Middle	9.1	0.3	142	21.6	21.6	8.0	8.0	32.1	32.1	94.6	94.6	6.9		3.7		7		-				-		-	
						9.1	0.3	153	21.6		8.0		32.1		94.6		6.9		3.7		7		-				-		-	
					Bottom	17.2	0.4	73	21.7	21.7	8.0	8.0	32.1	32.1	94.5	94.6	6.9	6.9	3.9		7		-				-		-	
						17.2	0.5	73	21.7		8.0		32.1		94.6		6.9		3.9		8		-				-		-	
SR8	Rainy	Rough	10:57	5.1	Surface	1.0	0.3	209	20.9	20.9	8.0	8.0	31.2	31.2	100.1	100.2	7.5	7.5	12.9	12.1	16	17	-	-	820426	811591	-	-	-	-
						1.0	0.3	212	20.9		8.0		31.2		100.3		7.5		11.9		16		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.3	229	20.9	20.9	8.0	8.0	31.2	31.2	105.8	105.8	7.9	7.9	11.7		18		-				-		-	
						4.1	0.3	241	20.9		8.0		31.2		105.8		7.9		11.7		18		-				-		-	

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 29 November 16 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
C1	Cloudy	Rough	06:36	8.6	Surface	1.0	0.6	105	22.5	22.5	7.9	7.9	31.4	31.4	101.9	101.9	7.4	7.4	17.6	21.7	24	28	84	89	815637	804246	<0.2	<0.2	0.5	0.5
						1.0	0.7	108			7.9		31.4		101.9		7.4		17.7		25		83				<0.2		0.5	
					Middle	4.3	0.6	107	22.4	22.5	7.9	7.9	31.2	31.2	101.9	101.9	7.4		22.0		26		89				<0.2		0.4	
						4.3	0.6	110	22.5		7.9		31.2		101.9		7.4		22.2		24		89				<0.2		0.4	
					Bottom	7.6	0.6	118	22.4	22.4	7.9	7.9	31.1	31.1	102.3	102.3	7.4		25.3		32		94				<0.2		0.5	
						7.6	0.6	126	22.4		7.9		31.1		102.3		7.4		25.3		34		94				<0.2		0.5	
C2	Cloudy	Moderate	08:15	12.2	Surface	1.0	0.3	112	19.9	19.9	8.0	8.0	31.3	31.3	99.3	99.3	7.5	7.5	12.0	16.8	12	15	84	90	825689	806949	<0.2	<0.2	0.4	0.4
						1.0	0.3	112	19.9		8.0		31.3		99.3		7.5		12.0		12		84				<0.2		0.4	
					Middle	6.1	0.3	97	19.9	19.9	8.0	8.0	31.4	31.4	98.9	98.9	7.5		19.0		14		92				<0.2		0.4	
						6.1	0.3	105	19.9		8.0		31.4		98.9		7.5		19.0		15		92				<0.2		0.4	
					Bottom	11.2	0.5	173	20.0	20.0	8.0	8.0	31.5	31.5	100.0	100.0	7.6	7.6	19.5		17		94				<0.2		0.4	
						11.2	0.5	187	20.0		8.0		31.5		100.0		7.6		19.5		17		94				<0.2		0.4	
C3	Cloudy	Moderate	06:19	11.9	Surface	1.0	0.4	255	20.7	20.7	8.0	8.0	31.6	31.6	98.4	98.4	7.3	7.4	9.0	14.0	11	16	89	92	822108	817806	<0.2	<0.2	0.4	0.4
						1.0	0.4	269	20.7		8.0		31.6		98.4		7.3		9.0		13		89				<0.2		0.4	
					Middle	6.0	0.5	246	20.7	20.7	8.0	8.0	31.7	31.7	100.0	100.0	7.4		12.5		15		93				<0.2		0.4	
						6.0	0.5	256	20.7		8.0		31.7		100.0		7.4		12.5		17		93				<0.2		0.4	
					Bottom	10.9	0.5	244	20.7	20.7	7.9	7.9	31.9	31.9	105.9	105.9	7.9	7.9	20.6		19		95				<0.2		0.3	
						10.9	0.5	256	20.7		7.9		31.9		105.9		7.9		20.6		18		95				<0.2		0.4	
IM1	Cloudy	Rough	07:09	8.0	Surface	1.0	0.6	104	22.4	22.4	8.0	8.0	31.5	31.5	101.5	101.5	7.3	7.3	16.5	18.2	18	30	84	89	818339	806453	<0.2	<0.2	0.4	0.4
						1.0	0.6	105	22.4		8.0		31.5		101.5		7.3		16.6		20		85				<0.2		0.4	
					Middle	4.0	0.5	121	22.4	22.4	7.9	7.9	31.5	31.5	101.2	101.2	7.3		18.6		33		88				<0.2		0.4	
						4.0	0.6	125	22.4		7.9		31.5		101.2		7.3		18.6		35		90				<0.2		0.4	
					Bottom	7.0	0.5	158	22.4	22.4	7.9	7.9	31.4	31.5	101.0	101.0	7.3	7.3	19.3		37		93				<0.2		0.4	
						7.0	0.5	164	22.4		7.9		31.5		101.0		7.3		19.3		38		92				<0.2		0.4	
IM2	Cloudy	Rough	07:19	8.5	Surface	1.0	0.7	113	22.5	22.5	7.9	7.9	31.6	31.6	101.8	101.8	7.3	7.3	19.1	23.4	26	**40**	85	90	818871	806200	<0.2	<0.2	0.3	0.4
						1.0	0.7	121	22.5		7.9		31.6		101.7		7.3		19.0		27		86				<0.2		0.3	
					Middle	4.3	0.6	149	22.5	22.5	7.9	7.9	31.5	31.5	101.7	101.7	7.3		24.2		45		90				<0.2		0.4	
						4.3	0.6	150	22.5		7.9		31.5		101.7		7.3		24.2		47		90				<0.2		0.4	
					Bottom	7.5	0.6	122	22.5	22.5	7.9	7.9	31.4	31.4	102.0	102.0	7.4	7.4	26.9		47		94				<0.2		0.4	
						7.5	0.6	124	22.5		7.9		31.4		102.0		7.4		26.9		47		93				<0.2		0.5	
IM3	Cloudy	Rough	07:26	8.9	Surface	1.0	0.6	129	22.4	22.5	7.9	7.9	31.6	31.6	101.7	101.8	7.3	7.3	19.4	21.6	36	**39**	84	90	819406	806013	<0.2	<0.2	0.5	0.4
						1.0	0.6	133	22.5		7.9		31.6		101.8		7.4		19.3		37		85				<0.2		0.5	
					Middle	4.5	0.6	129	22.5	22.5	7.9	7.9	31.6	31.6	101.6	101.7	7.3		20.4		38		90				<0.2		0.4	
						4.5	0.6	130	22.4		7.9		31.6		101.7		7.3		21.3		39		91				<0.2		0.4	
					Bottom	7.9	0.5	120	22.4	22.4	7.9	7.9	31.5	31.5	102.0	102.0	7.4	7.4	24.7		40		94				<0.2		0.4	
						7.9	0.5	121	22.4		7.9		31.5		102.0		7.4		24.7		41		93				<0.2		0.4	
IM4	Cloudy	Rough	07:35	8.4	Surface	1.0	0.5	157	22.6	22.6	7.9	7.9	31.6	31.6	102.4	102.4	7.4	7.4	21.0	22.8	34	35	84	89	819552	805035	<0.2	<0.2	0.4	0.5
						1.0	0.5	166	22.6		7.9		31.6		102.4		7.4		21.1		33		83				<0.2		0.4	
					Middle	4.2	0.6	155	22.6	22.6	7.9	7.9	31.5	31.5	102.6	102.6	7.4		21.1		34		90				<0.2		0.4	
						4.2	0.6	161	22.6		7.9		31.5		102.6		7.4		21.2		35		89				<0.2		0.5	
					Bottom	7.4	0.5	149	22.5	22.5	7.9	7.9	31.0	31.0	105.7	105.7	7.6	7.6	26.2		36		92				<0.2		0.5	
						7.4	0.5	158	22.5		7.9		31.0		105.7		7.6		26.2		37		93				<0.2		0.5	
IM5	Cloudy	Rough	07:42	7.2	Surface	1.0	0.7	144	22.5	22.5	7.9	7.9	31.5	31.5	102.7	102.7	7.4	7.5	16.5	18.9	28	32	85	89	820562	804927	<0.2	<0.2	0.5	0.5
						1.0	0.7	157	22.5		7.9		31.5		102.7		7.4		16.6		28		85				<0.2		0.5	
					Middle	3.6	0.6	152	22.4	22.4	7.9	7.9	31.3	31.3	103.7	103.7	7.5		21.9		30		90				<0.2		0.5	
						3.6	0.6	165	22.4		7.9		31.3		103.7		7.5		21.8		32		89				<0.2		0.6	
					Bottom	6.2	0.5	154	22.5	22.5	7.9	7.9	31.1	31.1	105.0	105.0	7.6	7.6	18.3		38		93				<0.2		0.4	
						6.2	0.5	158	22.5		7.9		31.1		105.0		7.6		18.3		37		94				<0.2		0.4	
IM6	Cloudy	Rough	07:49	7.1	Surface	1.0	0.6	118	22.3	22.3	7.9	7.9	31.5	31.5	102.9	102.9	7.5	7.5	19.4	22.0	24	31	84	89	821041	805837	<0.2	<0.2	0.4	0.4
						1.0	0.6	129	22.3		7.9		31.5		102.9		7.5		19.4		24		84				<0.2		0.4	
					Middle	3.6	0.5	86	22.3	22.3	7.9	7.9	31.4	31.4	103.6	103.7	7.5		23.9		33		90				<0.2		0.4	
						3.6	0.5	93	22.3		7.9		31.4		103.7		7.5		24.2		33		90				<0.2		0.4	
					Bottom	6.1	0.5	112	22.3	22.3	7.9	7.9	31.0	31.0	105.8	105.8	7.7	7.7	22.6		35		93				<0.2		0.4	
						6.1	0.5	113	22.3		7.9		31.0		105.8		7.7		22.6		34		94				<0.2		0.3	
IM7	Cloudy	Rough	07:57	8.6	Surface	1.0	0.4	82	22.3	22.3	7.9	7.9	31.5	31.5	102.6	102.6	7.4	7.4	17.4	20.5	29	31	85	89	821329	806816	<0.2	<0.2	0.5	0.4
						1.0	0.5	82	22.3		7.9		31.5		102.6		7.4		17.5		30		85				<0.2		0.4	
					Middle	4.3	0.4	98	22.3	22.3	7.9	7.9	31.4	31.4	102.6	102.7	7.4		20.9		31		90				<0.2		0.4	
						4.3	0.4	98	22.3		7.9		31.4		102.7		7.4		21.1		30		89				<0.2		0.3	
					Bottom	7.6	0.3	116	22.3	22.3	7.9	7.9	31.2	31.2	104.0	104.0	7.5	7.5	23.1		31		93				<0.2		0.5	
						7.6	0.3	127	22.3		7.9		31.2		104.0		7.5		23.1		32		93				<0.2		0.5	
IM8	Cloudy	Moderate	07:37	8.0	Surface	1.0	0.5	94	19.6	19.6	8.0	8.0	32.0	32.0	101.3	101.3	7.7	7.7	14.1	17.2	17	20	84	90	821685	807829	<0.2	<0.2	0.4	0.5
						1.0	0.5	100	19.6		8.0		32.0		101.3		7.7		14.1		17		85				<0.2		0.4	
					Middle	4.0	0.4	129	19.6	19.6	8.0	8.0	32.0	32.0	101.4	101.4	7.7		15.7		18		92				<0.2		0.6	
						4.0	0.5	129	19.6		8.0		32.0		101.4		7.7		15.7		19		92				<0.2		0.6	
					Bottom	7.0	0.4	129	19.6	19.6	8.0	8.0	32.0	32.0	101.4	101.4	7.7	7.7	21.8		23		94				<0.2		0.5	
						7.0	0.5	130	19.6		8.0		32.0		101.4		7.7		21.8		25		95				<0.2		0.6	

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 29 November 16 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	07:28	7.9	Surface	1.0	0.4	136	19.7	19.7	8.0	8.0	32.1	32.1	102.2	102.2	7.7	7.7	8.5	9.3	9	12	89	91	822108	808802	<0.2	<0.2	0.4	0.4
						1.0	0.4	137	19.7		8.0		32.1		102.2		7.7		8.5		9		84				<0.2		0.4	
					Middle	4.0	0.4	139	19.7	19.7	8.0	8.0	32.1	32.1	102.1	102.1	7.7		9.0		14		92				<0.2		0.4	
						4.0	0.4	148	19.7		8.0		32.1		102.1		7.7		9.0		12		93				<0.2		0.4	
					Bottom	6.9	0.4	142	19.7	19.8	8.0	8.0	32.1	32.1	102.5	103.0	7.8	7.8	10.6		14		95				<0.2		0.5	
						6.9	0.4	143	19.8		8.0		32.1		103.5		7.8		10.4		12		94				<0.2		0.5	
IM10	Cloudy	Moderate	07:20	7.7	Surface	1.0	0.3	203	20.0	20.0	8.0	8.0	32.2	32.2	102.0	102.0	7.7	7.7	11.4	17.5	16	18	86	91	822222	809828	<0.2	<0.2	0.4	0.5
						1.0	0.4	203	20.0		8.0		32.2		102.0		7.7		11.4		16		85				<0.2		0.5	
					Middle	3.9	0.4	201	20.0	20.0	8.0	8.0	32.1	32.1	101.5	101.5	7.6		16.2		18		93				<0.2		0.5	
						3.9	0.4	213	20.0		8.0		32.1		101.5		7.6		16.2		18		92				<0.2		0.5	
					Bottom	6.7	0.4	182	20.0	20.0	8.0	8.0	32.0	32.0	104.8	104.8	7.9	7.9	24.9		20		94				<0.2		0.4	
						6.7	0.4	198	20.0		8.0		32.0		104.8		7.9		24.9		18		94				<0.2		0.5	
IM11	Cloudy	Moderate	07:12	7.9	Surface	1.0	0.4	271	19.9	19.9	8.0	8.0	32.1	32.1	101.1	101.1	7.6	7.7	12.0	13.6	16	18	87	91	821510	810550	<0.2	<0.2	0.6	0.6
						1.0	0.4	275	19.9		8.0		32.1		101.1		7.6		12.0		17		86				<0.2		0.5	
					Middle	4.0	0.4	270	19.9	19.9	8.0	8.0	32.1	32.1	101.8	101.8	7.7		13.6		19		93				<0.2		0.7	
						4.0	0.4	276	19.9		8.0		32.1		101.8		7.7		13.6		18		92				<0.2		0.6	
					Bottom	6.9	0.3	258	19.9	19.9	7.9	7.9	32.0	32.0	103.4	103.4	7.8	7.8	15.1		20		94				<0.2		0.5	
						6.9	0.3	260	19.9		7.9		32.0		103.4		7.8		15.1		19		95				<0.2		0.5	
IM12	Cloudy	Moderate	07:05	8.6	Surface	1.0	0.6	264	19.9	19.9	8.0	8.0	32.0	32.0	100.4	100.4	7.6	7.6	10.3	12.9	12	13	88	92	821162	811520	<0.2	<0.2	0.6	0.6
						1.0	0.6	282	19.9		8.0		32.0		100.4		7.6		10.3		12		88				<0.2		0.7	
					Middle	4.3	0.6	257	19.9	19.9	8.0	8.0	32.0	32.0	100.3	100.3	7.6		11.9		13		93				<0.2		0.6	
						4.3	0.6	257	19.9		8.0		32.0		100.3		7.6		11.9		13		92				<0.2		0.6	
					Bottom	7.6	0.5	254	20.0	20.0	8.0	8.0	32.1	32.1	101.2	101.2	7.6	7.6	16.5		14		95				<0.2		0.5	
						7.6	0.5	259	20.0		8.0		32.1		101.2		7.6		16.5		15		95				<0.2		0.5	
SR2	Cloudy	Moderate	06:44	5.0	Surface	1.0	0.2	165	20.0	20.0	7.9	7.9	32.1	32.1	102.6	102.6	7.7	7.7	9.6	10.1	12	13	89	92	821443	814162	<0.2	<0.2	0.4	0.5
						1.0	0.3	175	20.0		7.9		32.1		102.6		7.7		9.6		14		89				<0.2		0.5	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.2	169	20.0	20.0	7.9	7.9	32.2	32.2	106.1	106.1	8.0	8.0	10.5		13		95				<0.2		0.5	
						4.0	0.3	182	20.0		7.9		32.2		106.1		8.0		10.5		13		95				<0.2		0.5	
SR3	Cloudy	Moderate	07:44	9.2	Surface	1.0	0.3	164	19.7	19.7	8.0	8.0	32.0	32.0	101.2	101.2	7.7	7.7	15.7	19.2	18	21	-	-	822155	807579	-	-	-	-
						1.0	0.3	174	19.7		8.0		32.0		101.2		7.7		15.7		18		-				-		-	
					Middle	4.6	0.3	153	19.7	19.7	8.0	8.0	32.0	32.0	101.3	101.3	7.7		19.5		20		-				-		-	
						4.6	0.4	156	19.7		8.0		32.0		101.3		7.7		19.5		22		-				-		-	
					Bottom	8.2	0.4	208	19.7	19.7	8.0	8.0	32.0	32.0	102.0	102.0	7.7	7.7	22.5		23		-				-		-	
						8.2	0.4	223	19.7		8.0		32.0		102.0		7.7		22.5		22		-				-		-	
SR4A	Cloudy	Moderate	06:26	8.0	Surface	1.0	0.3	169	22.2	22.2	7.9	7.9	30.2	30.2	99.8	99.9	7.3	7.4	8.3	9.3	14	14	-	-	817205	807827	-	-	-	-
						1.0	0.3	179	22.2		7.9		30.2		99.9		7.3		8.2		12		-				-		-	
					Middle	4.0	0.3	142	22.2	22.2	7.8	7.8	30.1	30.1	101.3	101.3	7.4		9.3		14		-				-		-	
						4.0	0.3	148	22.2		7.8		30.1		101.3		7.4		9.3		12		-				-		-	
					Bottom	7.0	0.3	132	22.1	22.1	7.7	7.7	29.9	29.9	103.8	103.9	7.6	7.6	10.2		14		-				-		-	
						7.0	0.3	140	22.1		7.7		29.9		103.9		7.6		10.2		15		-				-		-	
SR5A	Cloudy	Moderate	06:08	3.5	Surface	1.0	0.1	292	22.2	22.2	7.9	7.9	30.5	30.5	96.9	96.9	7.1	7.1	5.1	5.3	9	12	-	-	816590	810710	-	-	-	-
						1.0	0.1	312	22.2		7.9		30.5		96.9		7.1		5.1		10		-				-		-	
					Middle	1.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.5	0.1	258	22.3	22.3	7.9	7.9	30.5	30.5	97.1	97.1	7.1	7.1	5.5		13		-				-		-	
						2.5	0.1	262	22.3		7.9		30.5		97.1		7.1		5.5		15		-				-		-	
SR6	Cloudy	Moderate	05:52	4.4	Surface	1.0	0.1	297	22.3	22.3	7.9	7.9	30.4	30.4	98.2	98.2	7.2	7.2	5.9	6.0	8	10	-	-	817881	814679	-	-	-	-
						1.0	0.1	305	22.3		7.9		30.4		98.1		7.2		5.9		8		-				-		-	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.1	252	22.3	22.3	7.9	7.9	30.4	30.4	98.6	98.6	7.2	7.2	6.1		11		-				-		-	
						3.4	0.1	257	22.3		7.9		30.4		98.6		7.2		6.1		13		-				-		-	
SR7	Cloudy	Moderate	05:51	18.1	Surface	1.0	0.3	123	20.7	20.7	7.9	7.9	31.7	31.7	98.2	98.2	7.3	7.4	11.5	8.5	9	11	-	-	823619	823749	-	-	-	-
						1.0	0.3	127	20.7		7.9		31.7		98.2		7.3		11.5		8		-				-		-	
					Middle	9.1	0.2	110	20.7	20.7	7.9	7.9	31.7	31.7	98.8	98.8	7.4		7.1		10		-				-		-	
						9.1	0.2	111	20.7		7.9		31.7		98.8		7.4		7.1		12		-				-		-	
					Bottom	17.1	0.3	178	20.7	20.7	7.9	7.9	31.9	31.9	101.1	101.1	7.5	7.5	6.9		12		-				-		-	
						17.1	0.3	179	20.7		7.9		31.9		101.1		7.5		6.9		14		-				-		-	
SR8	Cloudy	Moderate	06:59	5.2	Surface	1.0	0.3	195	19.9	19.9	7.9	7.9	32.1	32.1	104.5	104.5	7.9	7.9	9.8	9.9	11	12	-	-	820418	811603	-	-	-	-
						1.0	0.4	205	19.9		7.9		32.1		104.5		7.9		9.8		11		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.3	183	19.9	19.9	7.9	7.9	32.2	32.2	107.4	107.4	8.1	8.1	10.0		12		-				-		-	
						4.2	0.3	183	19.9		7.9		32.2		107.4		8.1		10.0		12		-				-		-	

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 29 November 16 during Mid-Ebb tide

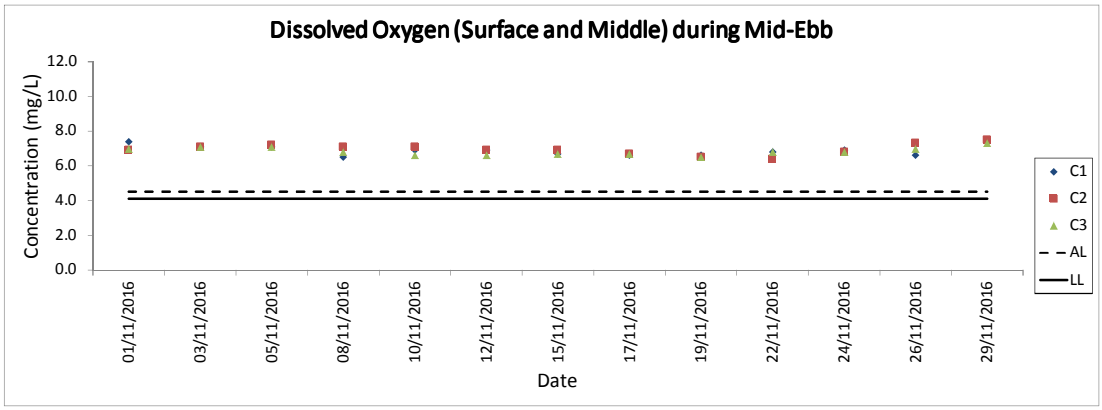
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (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	Rough	12:32	8.2	Surface	1.0	0.7	173	23.0	23.0	8.0	8.0	31.4	31.4	102.9	102.9	7.4	7.4	13.3	13.8	20	23	84	89	815609	804246	<0.2	<0.2	0.4	0.4
						1.0	0.7	182	23.0		8.0		31.4		102.9		7.4		13.3		22		85				<0.2		0.4	
					Middle	4.1	0.8	157	23.0	23.0	7.9	7.9	31.1	31.1	103.7	103.8	7.4		13.6		21		89				<0.2		0.4	
						4.1	0.9	169	23.0		7.9		31.1		103.8		7.4		13.7		22		90				<0.2		0.4	
					Bottom	7.2	0.8	166	23.0	23.0	7.9	7.9	30.9	30.9	105.7	105.7	7.6	7.6	14.4		24		93				<0.2		0.4	
						7.2	0.9	167	23.0		7.9		30.9		105.7		7.6		14.4		26		94				<0.2		0.4	
C2	Cloudy	Moderate	11:20	12.7	Surface	1.0	0.5	92	19.9	19.9	8.0	8.0	31.7	31.7	99.3	99.3	7.5	7.5	12.7	15.0	18	19	83	90	825688	806961	<0.2	<0.2	0.6	0.7
						1.0	0.5	97	19.9		8.0		31.7		99.3		7.5		12.7		18		83				<0.2		0.7	
					Middle	6.4	0.5	88	20.0	20.0	8.0	8.0	31.8	31.8	99.1	99.1	7.5		17.0		18		92				<0.2		0.6	
						6.4	0.5	93	20.0		8.0		31.8		99.1		7.5		17.0		18		92				<0.2		0.6	
					Bottom	11.7	0.5	103	20.0	20.0	8.0	8.0	32.0	32.0	98.9	98.9	7.5	7.5	15.3		21		94				<0.2		0.7	
						11.7	0.5	107	20.0		8.0		32.0		98.9		7.5		15.3		22		93				<0.2		0.7	
C3	Cloudy	Moderate	13:16	13.0	Surface	1.0	0.4	97	20.7	20.7	8.1	8.1	32.1	32.1	98.0	98.0	7.3	7.3	3.5	3.9	5	7	89	92	822101	817798	<0.2	<0.2	0.4	0.4
						1.0	0.4	100	20.7		8.1		32.1		98.0		7.3		3.5		6		89				<0.2		0.4	
					Middle	6.5	0.3	88	20.7	20.7	8.1	8.1	32.0	32.0	98.0	98.0	7.3		3.8		6		93				<0.2		0.4	
						6.5	0.4	95	20.7		8.1		32.0		98.0		7.3		3.8		8		93				<0.2		0.4	
					Bottom	12.0	0.4	100	20.7	20.7	8.1	8.1	32.0	32.0	98.9	98.9	7.4	7.4	4.3		7		95				<0.2		0.4	
						12.0	0.4	101	20.7		8.1		32.0		98.9		7.4		4.3		8		95				<0.2		0.4	
IM1	Cloudy	Rough	12:09	8.0	Surface	1.0	0.5	140	22.8	22.8	8.0	8.0	31.5	31.5	102.9	102.9	7.4	7.4	16.1	16.5	23	25	85	88	818341	806475	<0.2	<0.2	0.4	0.4
						1.0	0.6	145	22.8		8.0		31.5		102.9		7.4		16.1		22		84				<0.2		0.3	
					Middle	4.0	0.6	139	22.8	22.8	7.9	7.9	31.4	31.4	103.3	103.3	7.4		16.8		23		88				<0.2		0.4	
						4.0	0.7	152	22.8		7.9		31.4		103.3		7.4		16.8		25		89				<0.2		0.4	
					Bottom	7.0	0.6	144	22.7	22.7	7.9	7.9	31.2	31.2	104.4	104.4	7.5	7.5	16.6		28		91				<0.2		0.4	
						7.0	0.6	150	22.7		7.9		31.2		104.4		7.5		16.6		28		93				<0.2		0.4	
IM2	Cloudy	Rough	12:04	8.5	Surface	1.0	0.7	135	22.9	22.9	8.0	8.0	31.5	31.5	102.6	102.7	7.4	7.4	16.4	19.5	25	32	85	89	818864	806181	<0.2	<0.2	0.4	0.4
						1.0	0.7	142	22.9		8.0		31.5		102.7		7.4		16.5		25		85				<0.2		0.4	
					Middle	4.3	0.7	132	22.9	22.9	8.0	8.0	31.4	31.4	103.4	103.4	7.4		18.4		27		90				<0.2		0.3	
						4.3	0.7	141	22.9		8.0		31.4		103.3		7.4		18.4		27		89				<0.2		0.3	
					Bottom	7.5	0.7	159	22.9	22.9	7.9	7.9	31.0	31.0	105.9	105.9	7.6	7.6	23.7		42		91				<0.2		0.4	
						7.5	0.8	171	22.9		7.9		31.0		105.9		7.6		23.7		44		92				<0.2		0.4	
IM3	Cloudy	Rough	11:57	9.0	Surface	1.0	0.6	147	22.8	22.8	8.0	8.0	31.4	31.4	102.7	102.8	7.4	7.4	17.4	19.0	27	29	86	90	819426	806035	<0.2	<0.2	0.4	0.4
						1.0	0.6	148	22.8		8.0		31.4		102.8		7.4		17.5		27		87				<0.2		0.4	
					Middle	4.5	0.6	146	22.8	22.8	8.0	8.0	31.4	31.4	103.0	103.0	7.4		18.8		32		92				<0.2		0.4	
						4.5	0.6	151	22.8		8.0		31.4		103.0		7.4		18.8		30		90				<0.2		0.4	
					Bottom	8.0	0.7	149	22.8	22.8	7.9	7.9	31.2	31.2	104.0	104.1	7.5	7.5	20.6		30		94				<0.2		0.4	
						8.0	0.7	151	22.8		7.9		31.2		104.1		7.5		20.6		30		93				<0.2		0.4	
IM4	Cloudy	Rough	11:50	8.3	Surface	1.0	0.4	141	22.8	22.8	8.0	8.0	31.4	31.4	102.9	102.9	7.4	7.4	18.6	21.2	30	34	88	90	819556	805028	<0.2	<0.2	0.4	0.4
						1.0	0.5	148	22.8		8.0		31.4		102.9		7.4		18.6		30		86				<0.2		0.4	
					Middle	4.2	0.4	154	22.8	22.8	7.9	7.9	31.3	31.3	103.5	103.5	7.4		19.7		33		90				<0.2		0.4	
						4.2	0.5	168	22.8		7.9		31.3		103.5		7.4		19.5		33		89				<0.2		0.4	
					Bottom	7.3	0.4	168	22.8	22.8	7.9	7.9	31.0	31.0	105.6	105.6	7.6	7.6	25.4		37		92				<0.2		0.4	
						7.3	0.4	179	22.8		7.9		31.0		105.6		7.6		25.4		38		93				<0.2		0.4	
IM5	Cloudy	Rough	11:43	7.2	Surface	1.0	0.5	138	22.6	22.6	8.0	8.0	31.4	31.4	102.9	102.9	7.4	7.4	19.5	21.4	28	29	85	90	820573	804924	<0.2	<0.2	0.4	0.4
						1.0	0.5	144	22.6		8.0		31.4		102.9		7.4		19.6		28		86				<0.2		0.4	
					Middle	3.6	0.5	141	22.6	22.6	7.9	7.9	31.3	31.3	103.2	103.2	7.4		21.8		28		90				<0.2		0.4	
						3.6	0.5	153	22.6		7.9		31.3		103.2		7.4		21.7		27		90				<0.2		0.3	
					Bottom	6.2	0.4	136	22.6	22.6	7.9	7.9	31.1	31.1	104.8	104.8	7.6	7.6	23.0		31		93				<0.2		0.5	
						6.2	0.5	138	22.6		7.9		31.1		104.8		7.6		23.0		30		93				<0.2		0.5	
IM6	Cloudy	Rough	11:35	7.3	Surface	1.0	0.4	104	22.5	22.5	8.0	8.0	31.5	31.5	102.3	102.3	7.4	7.4	16.2	20.4	22	28	86	89	821047	805845	<0.2	<0.2	0.4	0.4
						1.0	0.4	107	22.5		8.0		31.5		102.2		7.4		16.3		20		87				<0.2		0.4	
					Middle	3.7	0.4	123	22.5	22.5	7.9	7.9	31.4	31.4	102.2	102.2	7.4		21.4		32		87				<0.2		0.4	
						3.7	0.4	130	22.5		7.9		31.4		102.2		7.4		21.6		31		88				<0.2		0.4	
					Bottom	6.3	0.4	109	22.5	22.5	7.9	7.9	31.2	31.2	102.8	102.8	7.4	7.4	23.6		32		93				<0.2		0.4	
						6.3	0.4	119	22.5		7.9		31.2		102.8		7.4		23.4		32		92				<0.2		0.4	
IM7	Cloudy	Rough	11:20	8.9	Surface	1.0	0.4	79	22.3	22.3	8.0	8.0	31.7	31.7	102.0	102.0	7.4	7.4	18.1	19.7	23	27	87	91	821356	806852	<0.2	<0.2	0.5	0.5
						1.0	0.5	81	22.3		8.0		31.7		101.9		7.4		18.2		25		86				<0.2		0.5	
					Middle	4.5	0.4	89	22.3	22.3	7.9	7.9	31.6	31.6	101.7	101.7	7.4		21.3		28		90				<0.2		0.5	
						4.5	0.4	95	22.3		7.9		31.6		101.7		7.4		21.3		29		91				<0.2		0.4	
					Bottom	7.9	0.4	102	22.3	22.3	7.9	7.9	31.6	31.6	101.8	101.8	7.4	7.4	19.7		29		94				<0.2		0.5	
						7.9	0.4	107	22.3		7.9		31.6		101.8		7.4		19.7		30		95				<0.2		0.6	
IM8	Cloudy	Moderate	11:59	8.2	Surface	1.0	0.4	112	19.7	19.7	8.1	8.1	32.3	32.3	103.8	103.8	7.9	7.9	14.8	17.4	19	23	83	90	821682	807827	<0.2	<0.2	0.5	0.5
						1.0	0.4	117	19.7		8.1		32.3		103.8		7.9		14.8		20		84				<0.2		0.4	
					Middle	4.1	0.4	115	19.7	19.7	8.1	8.1	32.3	32.3	103.8	103.8	7.8		17.3		24		92				<0.2		0.5	
						4.1	0.4	117	19.7		8.1		32.3		103.8		7.8		17.3		24		92				<0.2		0.5	
					Bottom	7.2	0.4	135	19.6	19.6	8.1	8.1	32.3	32.3	104.8	104.8	7.9	7.9	20.2		24		94				<0.2		0.6	
						7.2	0.4	146	19.6		8.1		32.3		104.8		7.9		20.2		24		94				<0.2		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 29 November 16 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
IM9	Cloudy	Moderate	12:07	7.6	Surface	1.0	0.5	126	19.5	19.5	8.1	8.1	32.2	32.2	103.0	103.0	7.8	7.8	12.8	14.9	14	16	85	90	822076	808813	<0.2	<0.2	0.5	0.5
						1.0	0.5	131	19.5		8.1		32.2		103.0		7.8		12.8		15		84				<0.2		0.4	
					Middle	3.8	0.4	129	19.5	19.5	8.1	8.1	32.2	32.2	103.0	103.0	7.8		12.6		15		92				<0.2		0.5	
						3.8	0.4	131	19.5		8.1		32.2		103.0		7.8		12.6		17		93				<0.2		0.5	
					Bottom	6.6	0.4	128	19.5	19.5	8.1	8.1	32.2	32.2	104.6	104.6	7.9	7.9	19.2		17		94				<0.2		0.6	
						6.6	0.5	131	19.5		8.1		32.2		104.6		7.9		19.2		17		94				<0.2		0.6	
IM10	Cloudy	Moderate	12:15	7.4	Surface	1.0	0.4	117	19.9	19.9	8.0	8.0	32.0	32.0	100.8	100.8	7.6	7.6	8.7	11.8	11	12	85	91	822234	809830	<0.2	<0.2	0.6	0.6
						1.0	0.4	120	19.9		8.0		32.0		100.8		7.6		8.7		10		86				<0.2		0.6	
					Middle	3.7	0.3	107	19.9	19.9	8.0	8.0	32.0	32.0	101.2	101.2	7.6		13.3		12		93				<0.2		0.7	
						3.7	0.4	117	19.9		8.0		32.0		101.2		7.6		13.3		12		92				<0.2		0.6	
					Bottom	6.4	0.4	114	19.9	19.9	8.0	8.0	32.0	32.0	103.1	103.1	7.8	7.8	13.4		12		94				<0.2		0.6	
						6.4	0.4	120	19.9		8.0		32.0		103.1		7.8		13.4		12		94				<0.2		0.5	
IM11	Cloudy	Moderate	12:23	8.2	Surface	1.0	0.4	109	20.0	20.0	8.0	8.0	32.0	32.0	99.8	99.8	7.5	7.5	6.7	7.6	8	10	87	91	821483	810545	<0.2	<0.2	0.3	0.4
						1.0	0.4	113	20.0		8.0		32.0		99.8		7.5		6.7		9		85				<0.2		0.4	
					Middle	4.1	0.4	109	20.0	20.0	8.0	8.0	32.0	32.0	99.7	99.7	7.5		7.8		10		92				<0.2		0.4	
						4.1	0.4	111	20.0		8.0		32.0		99.7		7.5		7.8		8		93				<0.2		0.4	
					Bottom	7.2	0.4	119	20.0	20.0	8.0	8.0	32.0	32.0	99.9	99.9	7.5	7.5	8.2		11		95				<0.2		0.4	
						7.2	0.4	125	20.0		8.0		32.0		99.9		7.5		8.2		12		95				<0.2		0.4	
IM12	Cloudy	Moderate	12:32	8.9	Surface	1.0	0.4	112	20.0	20.0	8.0	8.0	31.9	31.9	99.8	99.8	7.5	7.5	5.9	7.5	10	9	87	92	821151	811521	<0.2	<0.2	0.6	0.5
						1.0	0.5	120	20.0		8.0		31.9		99.8		7.5		5.9		9		87				<0.2		0.6	
					Middle	4.5	0.4	99	20.0	20.0	8.0	8.0	31.9	31.9	98.9	98.9	7.5		8.0		9		93				<0.2		0.4	
						4.5	0.4	101	20.0		8.0		31.9		98.9		7.5		8.0		8		93				<0.2		0.4	
					Bottom	7.9	0.4	119	20.1	20.1	8.0	8.0	32.0	32.0	99.0	99.0	7.5	7.5	8.6		10		94				<0.2		0.5	
						7.9	0.4	123	20.1		8.0		32.0		99.0		7.5		8.6		10		95				<0.2		0.5	
SR2	Cloudy	Moderate	12:54	4.8	Surface	1.0	0.5	112	20.3	20.3	8.0	8.0	32.0	32.0	101.3	101.4	7.6	7.6	6.7	7.0	9	9	89	92	821444	814154	<0.2	<0.2	0.5	0.5
						1.0	0.5	122	20.3		8.0		32.0		101.4		7.6		6.7		8		88				<0.2		0.5	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.4	108	20.2	20.2	8.0	8.0	32.0	32.0	104.2	104.3	7.8	7.8	7.2		9		95				<0.2		0.5	
						3.8	0.5	110	20.2		8.0		32.0		104.3		7.8		7.2		10		95				<0.2		0.5	
SR3	Cloudy	Moderate	11:52	9.3	Surface	1.0	0.4	104	19.5	19.5	8.1	8.1	32.3	32.3	107.9	107.9	8.2	8.0	10.3	18.9	25	26	-	-	822162	807567	-	-	-	-
						1.0	0.4	112	19.5		8.1		32.3		107.9		8.2		10.3		24		-				-		-	
					Middle	4.7	0.4	90	19.5	19.5	8.0	8.0	32.4	32.4	103.4	103.4	7.8		19.4		27		-				-		-	
						4.7	0.4	92	19.5		8.0		32.4		103.4		7.8		19.4		26		-				-		-	
					Bottom	8.3	0.4	114	19.6	19.6	8.0	8.0	32.4	32.4	103.6	103.6	7.8	7.8	27.0		26		-				-		-	
						8.3	0.4	114	19.6		8.0		32.4		103.6		7.8		27.0		28		-				-		-	
SR4A	Cloudy	Moderate	12:54	8.6	Surface	1.0	0.3	115	22.3	22.3	7.9	7.9	31.2	31.2	102.7	102.8	7.4	7.5	12.7	13.2	18	20	-	-	817208	807805	-	-	-	-
						1.0	0.4	117	22.3		7.9		31.2		102.8		7.5		12.6		20		-				-		-	
					Middle	4.3	0.3	105	22.4	22.4	7.9	7.9	31.1	31.1	103.4	103.5	7.5		13.3		20		-				-		-	
						4.3	0.3	110	22.4		7.9		31.1		103.5		7.5		13.3		19		-				-		-	
					Bottom	7.6	0.4	106	22.4	22.4	7.9	7.9	30.8	30.8	105.0	105.1	7.6	7.6	13.4		23		-				-		-	
						7.6	0.4	107	22.4		7.9		30.8		105.2		7.6		13.6		22		-				-		-	
SR5A	Cloudy	Moderate	13:10	4.3	Surface	1.0	0.2	131	22.2	22.2	7.8	7.8	30.0	30.0	98.9	98.9	7.2	7.2	6.4	6.5	8	11	-	-	816596	810691	-	-	-	-
						1.0	0.2	135	22.2		7.8		30.0		98.9		7.2		6.4		9		-				-		-	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.1	122	22.2	22.2	7.8	7.8	29.8	29.8	100.8	100.8	7.4	7.4	6.6		13		-				-		-	
						3.3	0.1	123	22.2		7.8		29.8		100.8		7.4		6.6		13		-				-		-	
SR6	Cloudy	Moderate	13:25	3.6	Surface	1.0	0.2	142	22.2	22.2	7.9	7.9	30.2	30.3	97.6	97.6	7.1	7.1	7.3	7.5	10	11	-	-	817897	814662	-	-	-	-
						1.0	0.2	142	22.2		7.9		30.3		97.6		7.1		7.3		10		-				-		-	
					Middle	1.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.3	129	22.2	22.2	7.8	7.8	30.2	30.2	97.5	97.6	7.1	7.1	7.6		12		-				-		-	
						2.6	0.3	138	22.2		7.8		30.2		97.6		7.1		7.6		13		-				-		-	
SR7	Cloudy	Moderate	13:50	17.8	Surface	1.0	0.4	113	20.7	20.7	8.1	8.1	32.1	32.1	97.6	97.6	7.3	7.3	5.0	5.7	6	6	-	-	823622	823758	-	-	-	-
						1.0	0.4	116	20.7		8.1		32.1		97.6		7.3		5.0		6		-				-		-	
					Middle	8.9	0.4	109	20.7	20.7	8.1	8.1	32.1	32.1	97.9	97.9	7.3		5.4		6		-				-		-	
						8.9	0.4	114	20.7		8.1		32.1		97.9		7.3		5.4		7		-				-		-	
					Bottom	16.8	0.3	177	20.7	20.7	8.1	8.1	32.1	32.1	100.4	100.4	7.5	7.5	6.7		7		-				-		-	
						16.8	0.3	186	20.7		8.1		32.1		100.4		7.5		6.7		6		-				-		-	
SR8	Cloudy	Moderate	12:40	5.1	Surface	1.0	0.3	211.0	19.7	19.7	8.0	8.0	31.9	31.9	103.7	103.7	7.9	7.9	10.3	11.2	9	11	-	-	820414	811574	-	-	-	-
						1.0	0.3	225.0	19.7		8.0		31.9		103.7		7.9		10.3		10		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.3	216.0	19.7	19.7	8.0	8.0	31.9	31.9	105.3	105.8	8.0	8.1	11.9		12		-				-		-	
						4.1	0.3	229.0	19.7		8.0		31.9		106.3		8.1		12.4		12		-				-		-	

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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10.0
8.0
6.0
4.0
2.0
0.0
01/11/2016
03/11/2016
05/11/2016
08/11/2016
10/11/2016
12/11/2016
15/11/2016
17/11/2016
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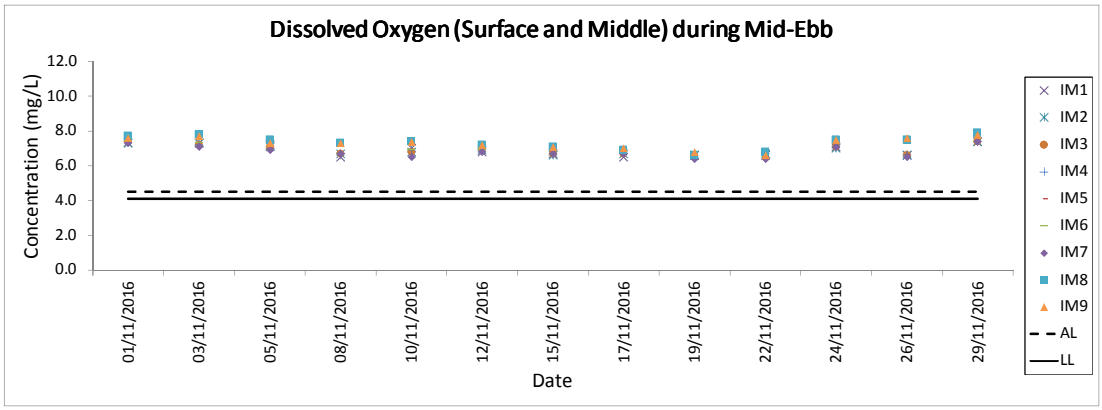
22/11/2016
24/11/2016
26/11/2016
29/11/2016
Date
C1
C2
C3
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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01/11/2016
03/11/2016
05/11/2016
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Date
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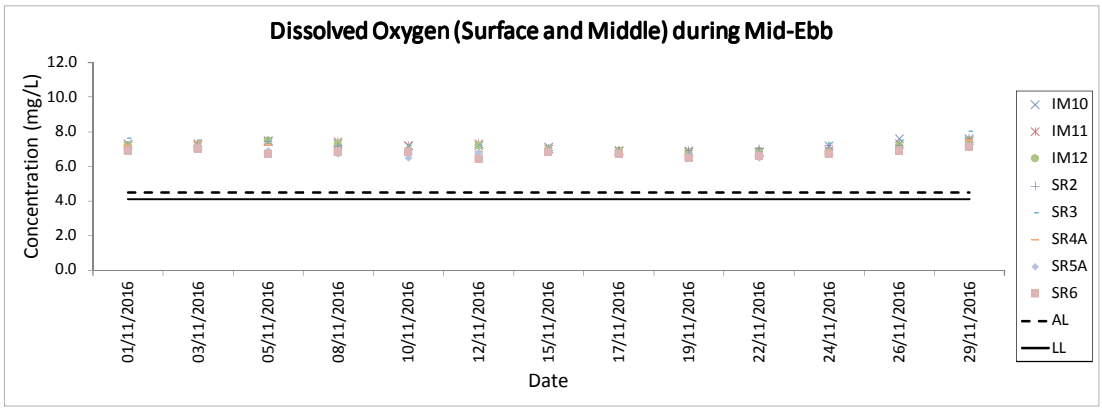
Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
0.0
01/11/2016
03/11/2016
05/11/2016
08/11/2016
10/11/2016
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Date
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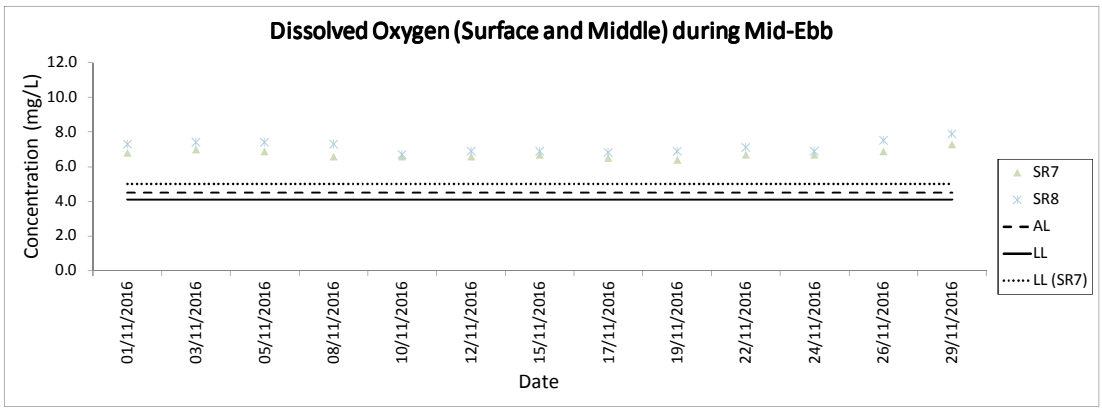
SR6
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
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01/11/2016
03/11/2016
05/11/2016
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Date
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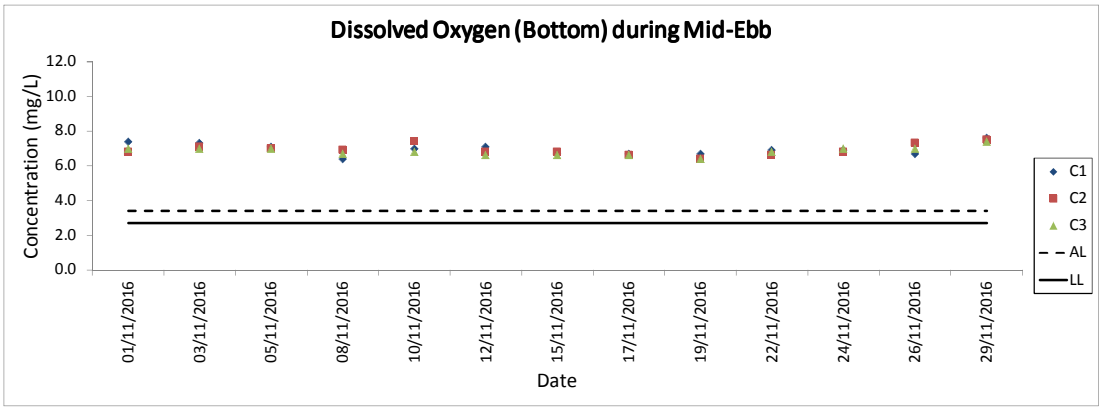
LL (SR7)


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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6.0
4.0
2.0
0.0
01/11/2016
03/11/2016
05/11/2016
08/11/2016
10/11/2016
12/11/2016
15/11/2016
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29/11/2016
Date
C1
C2
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AL
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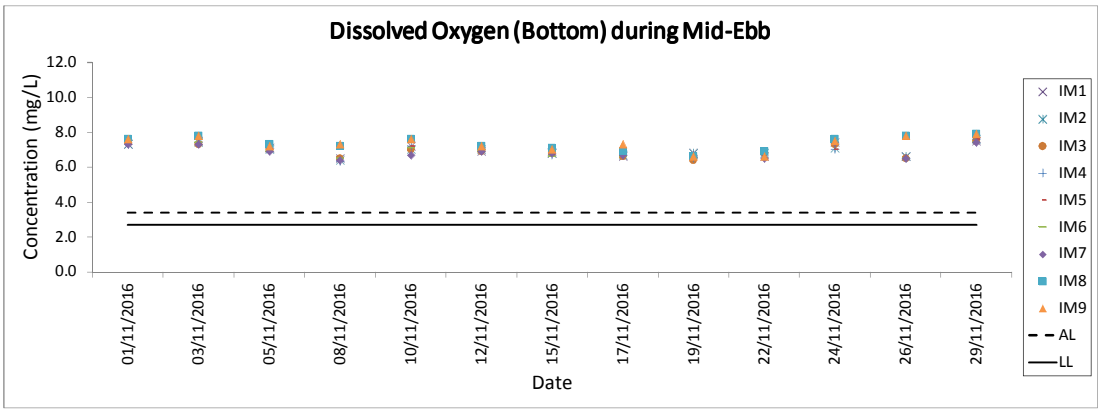
Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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6.0
4.0
2.0
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01/11/2016
03/11/2016
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08/11/2016
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22/11/2016
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Date
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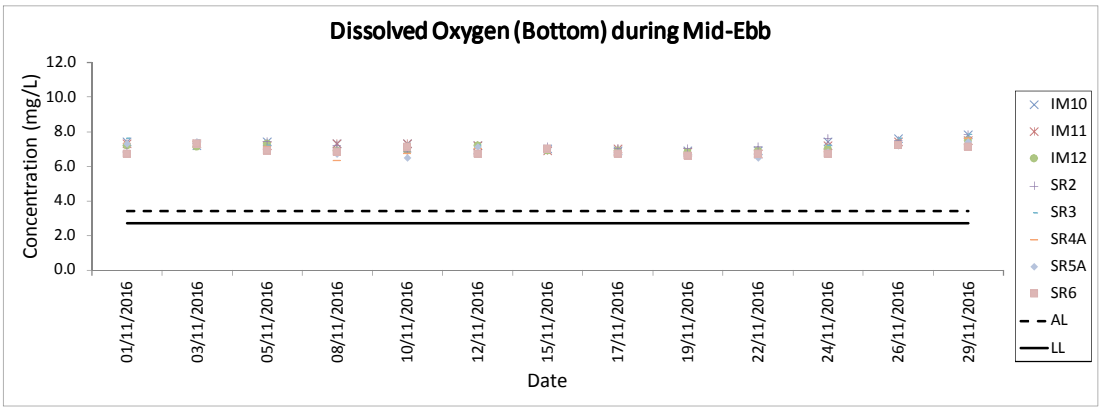
Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
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01/11/2016
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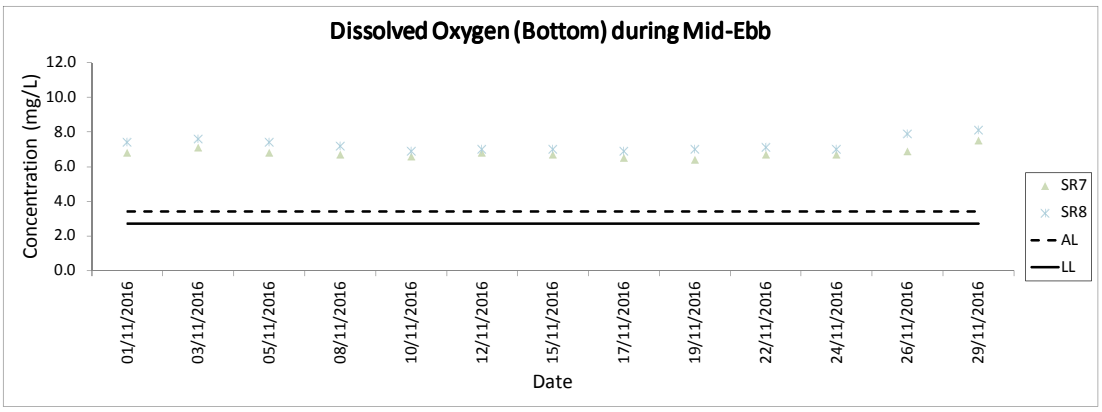
Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
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01/11/2016
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05/11/2016
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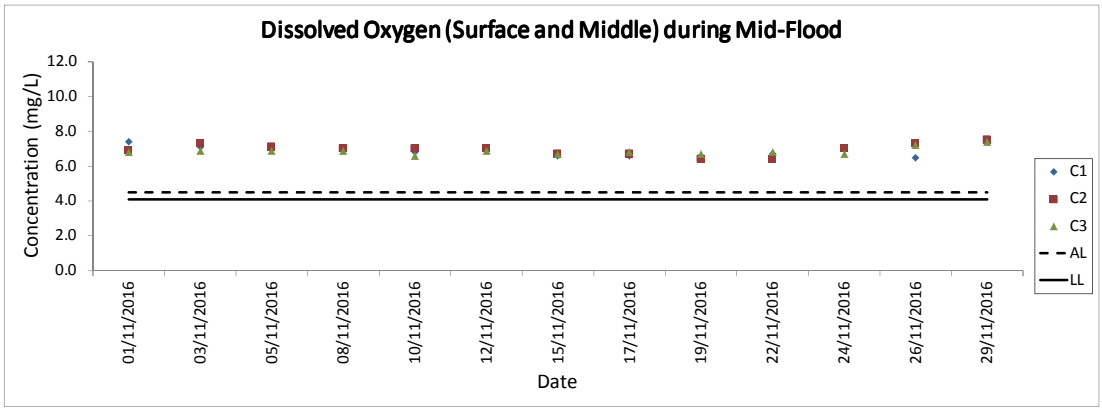
Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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8.0
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4.0
2.0
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01/11/2016
03/11/2016
05/11/2016
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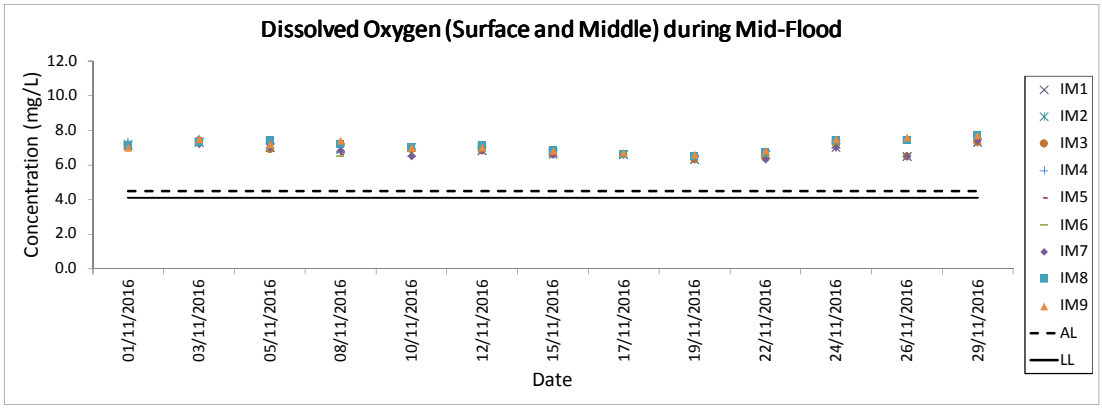
Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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01/11/2016
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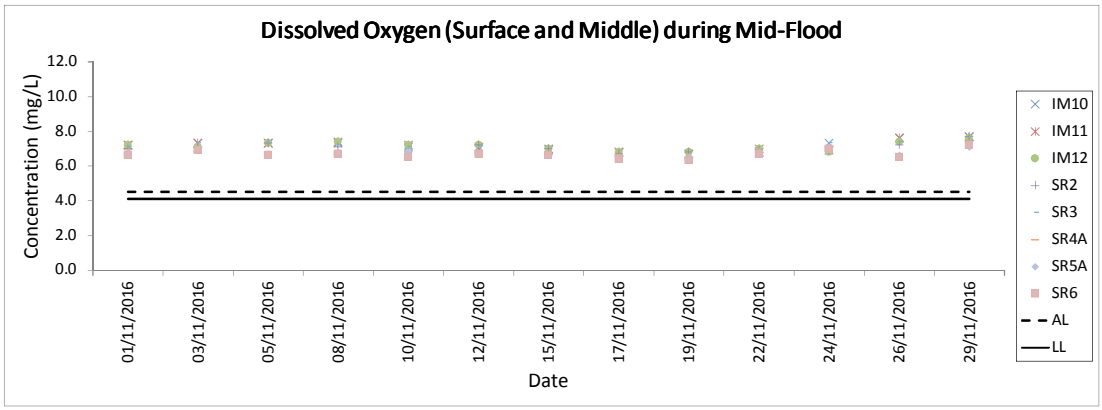
Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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01/11/2016
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Date
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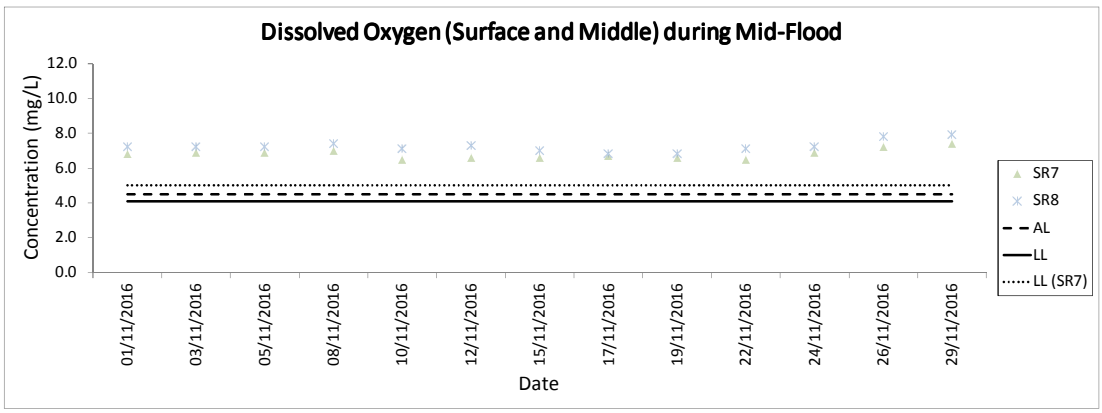
Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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8.0
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01/11/2016
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Date
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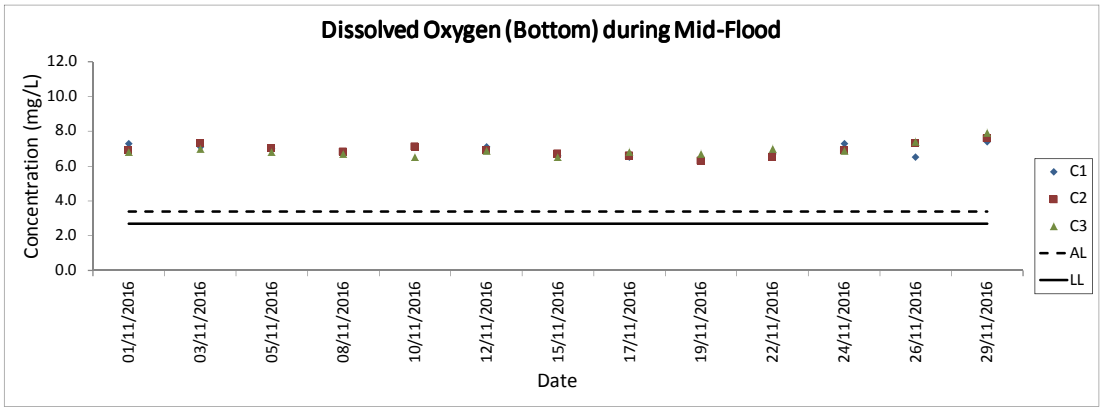
LL (SR7)


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
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6.0
4.0
2.0
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03/11/2016
05/11/2016
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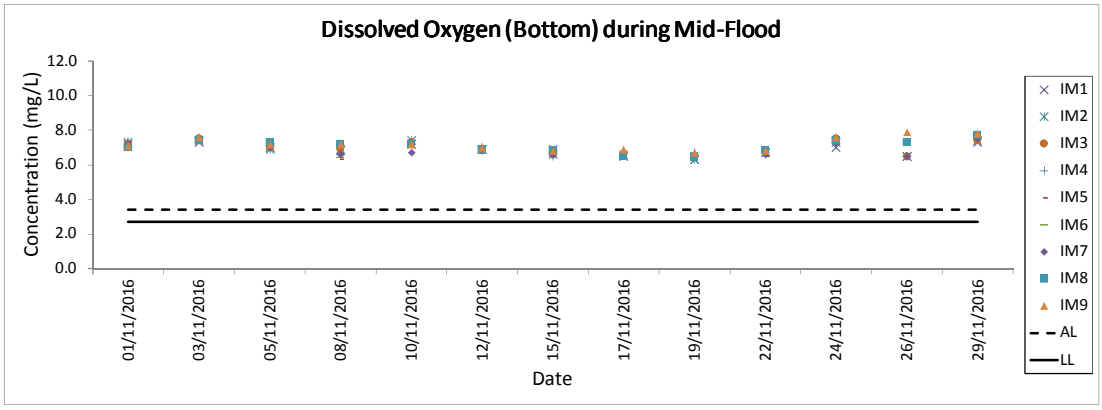
Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
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2.0
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03/11/2016
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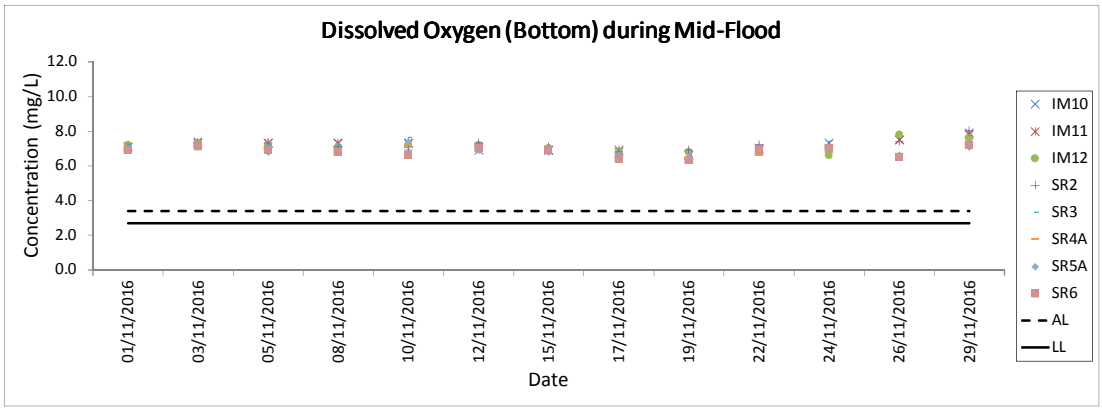
Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
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01/11/2016
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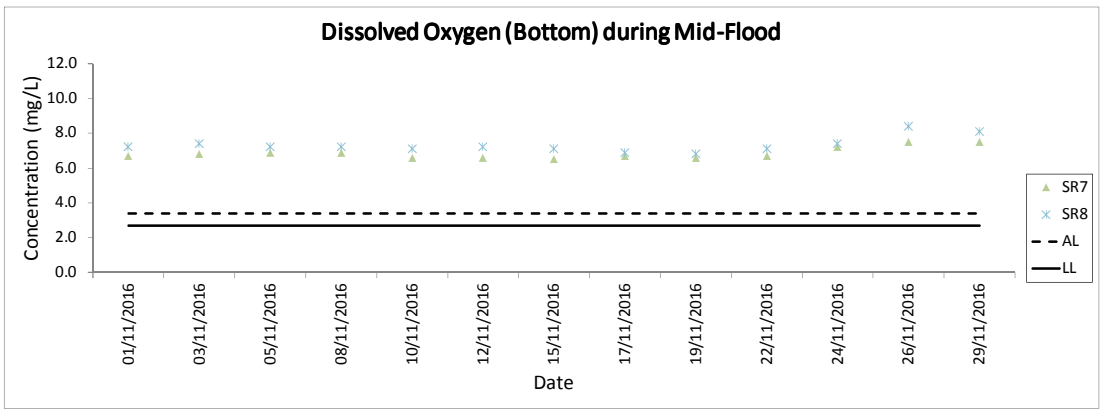
Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
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01/11/2016
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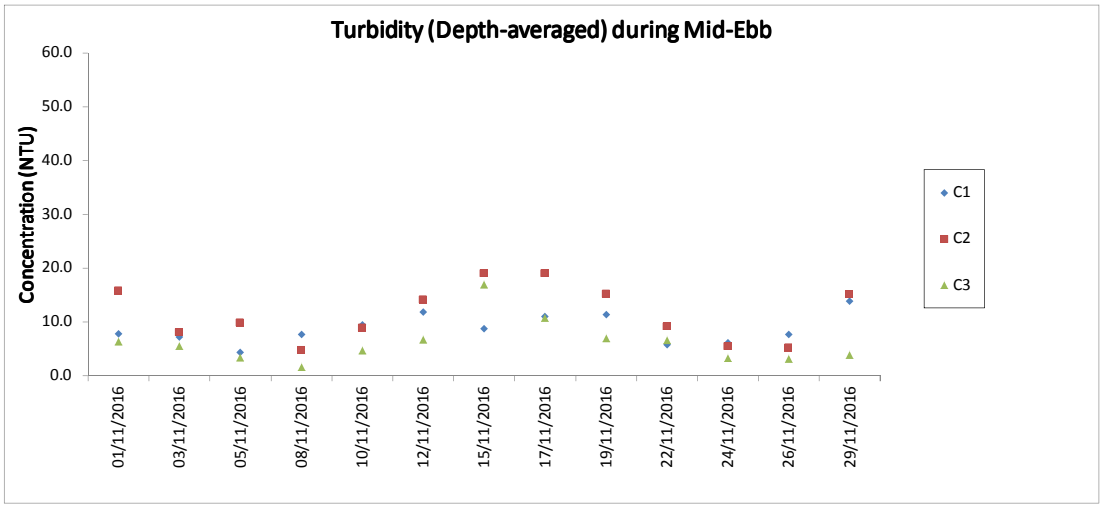
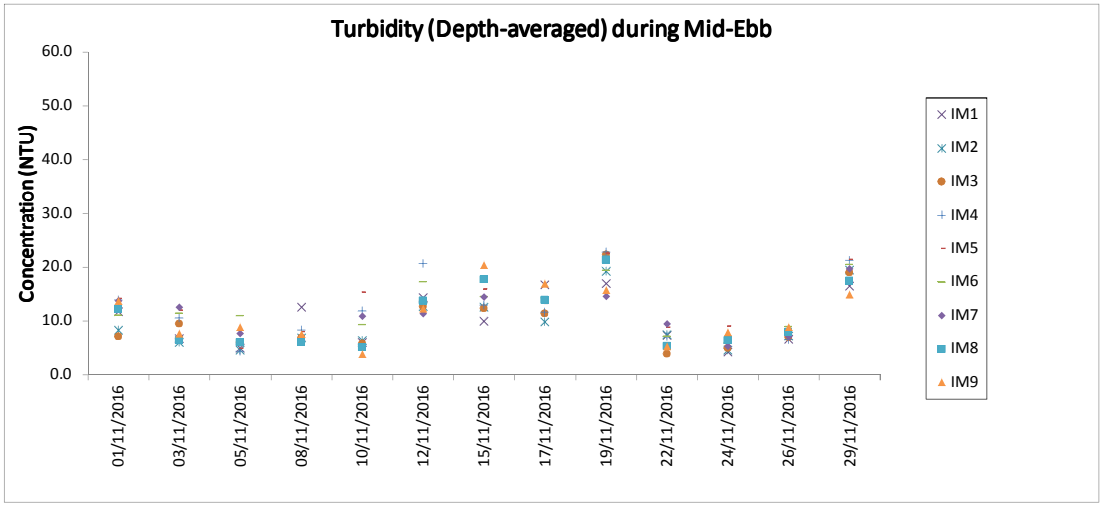
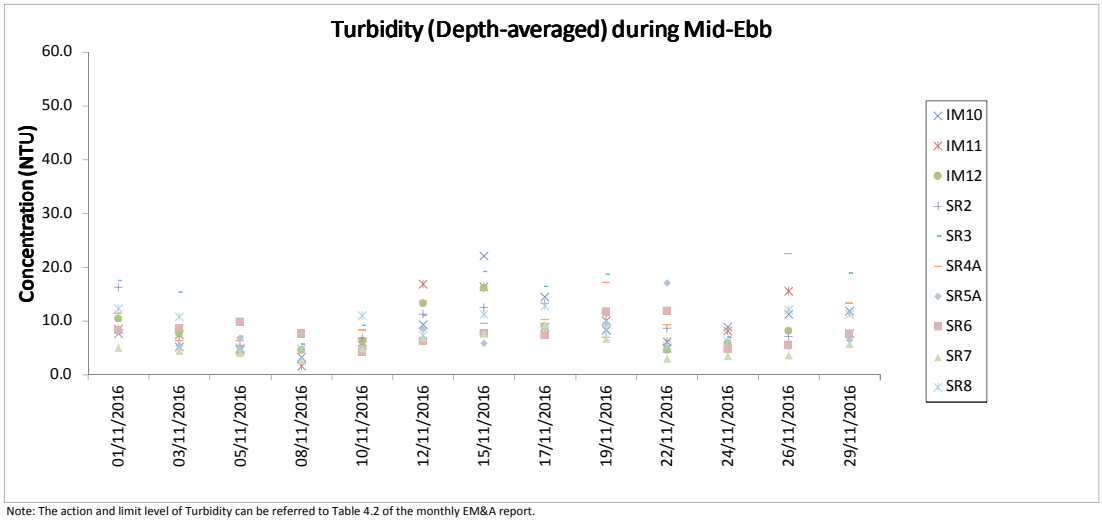
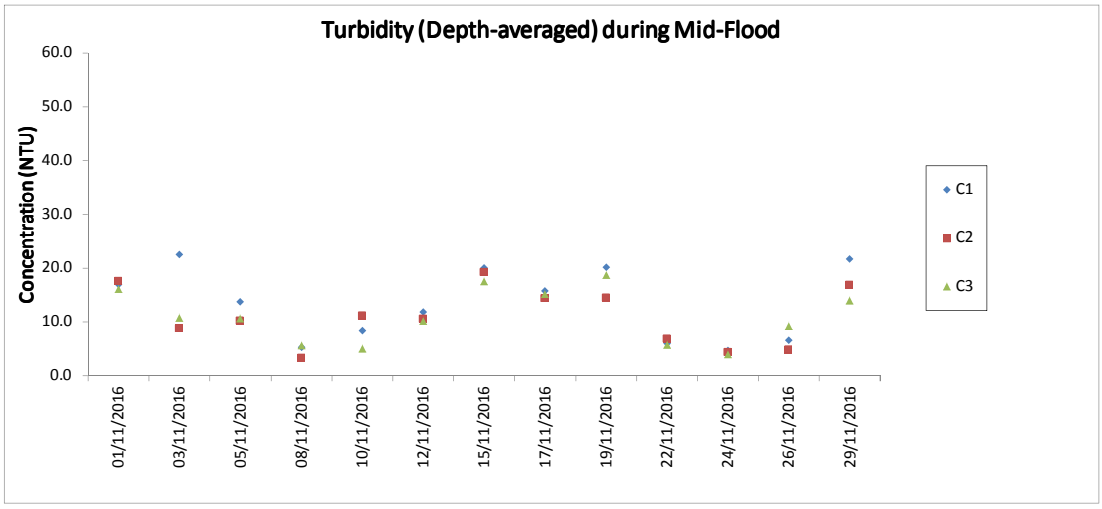
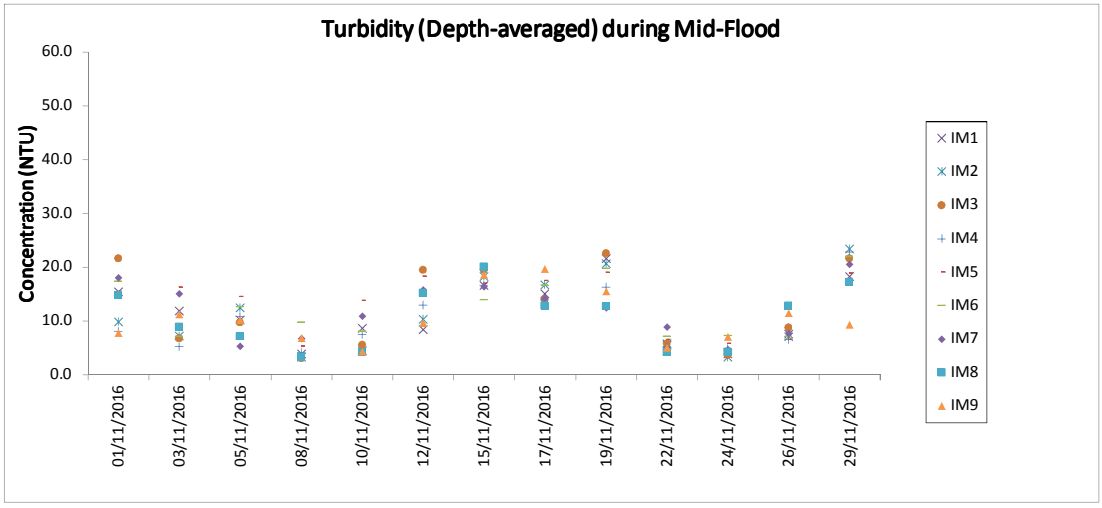


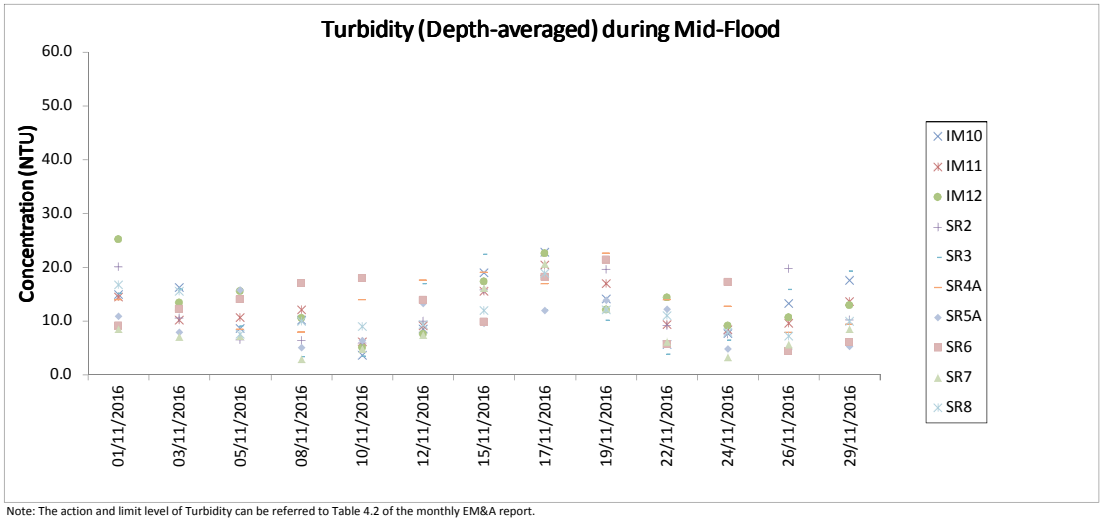




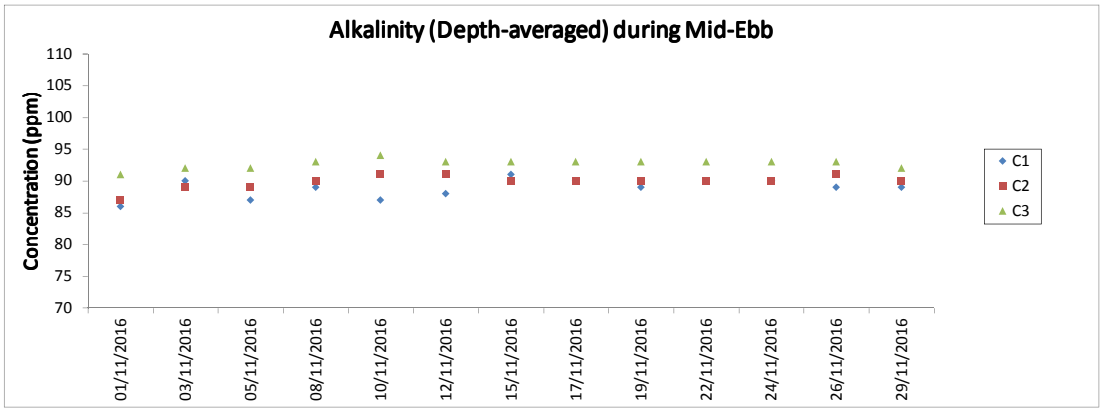
Note: The action and limit level of Turbidity can be referred to Table 4.2 of the monthly EM&A report.

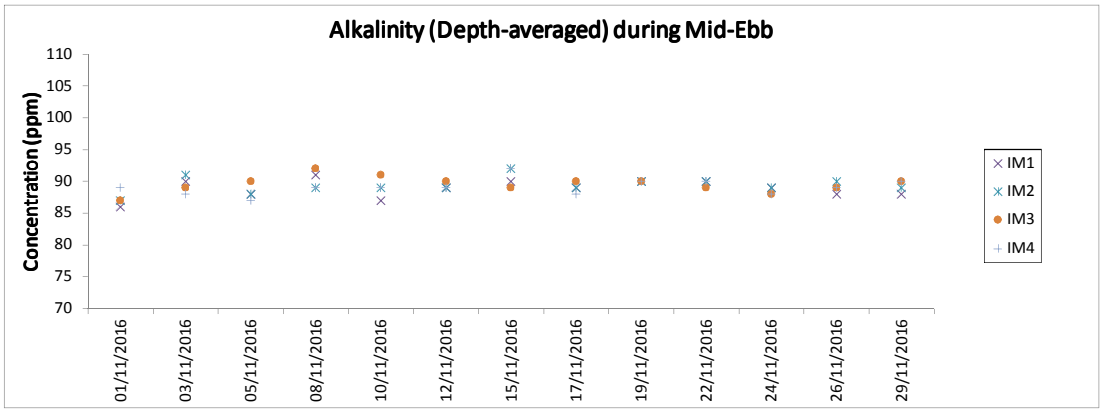


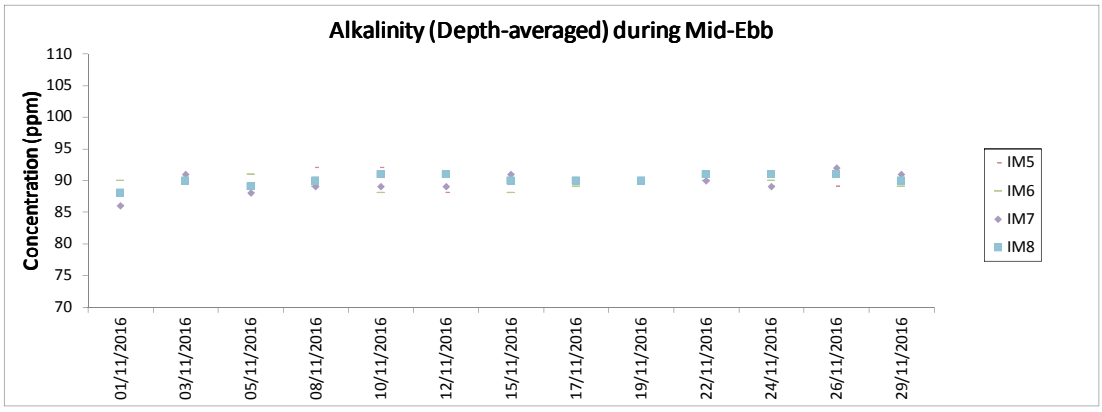


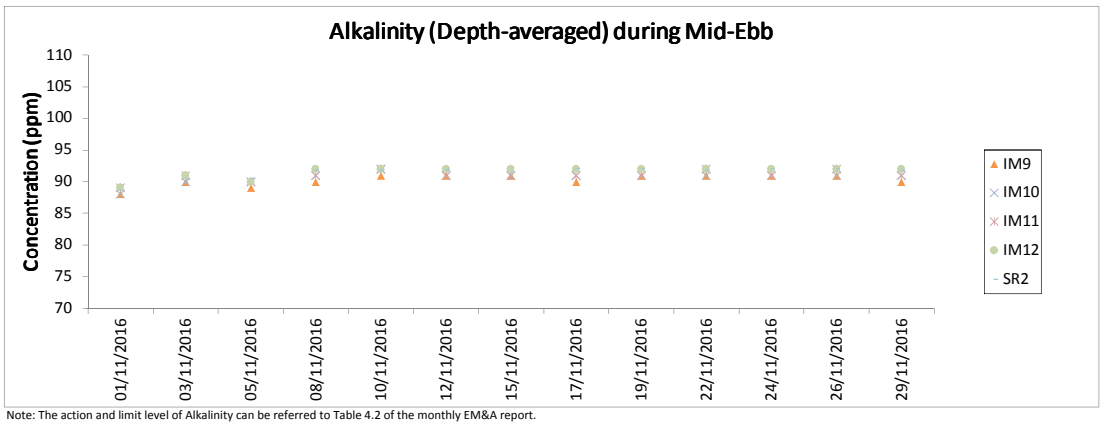


Note: The action and limit level of Turbidity can be referred to Table 4.2 of the monthly EM&A report.

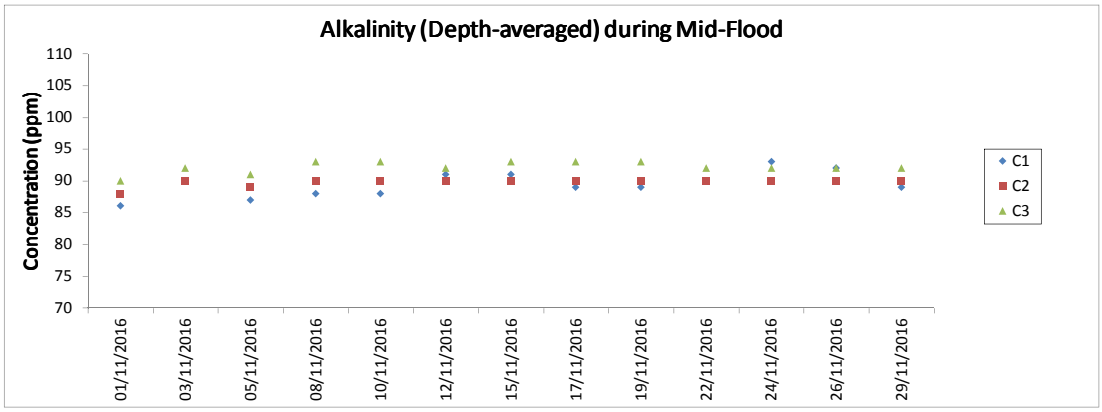


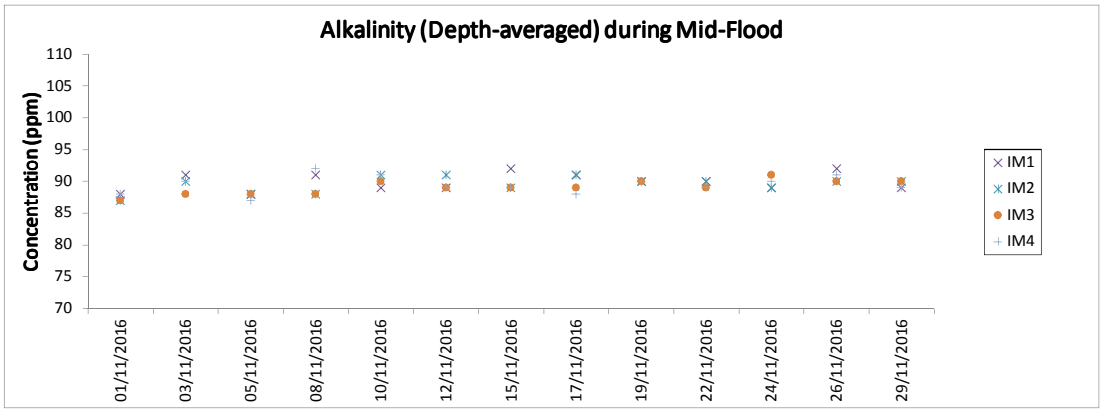


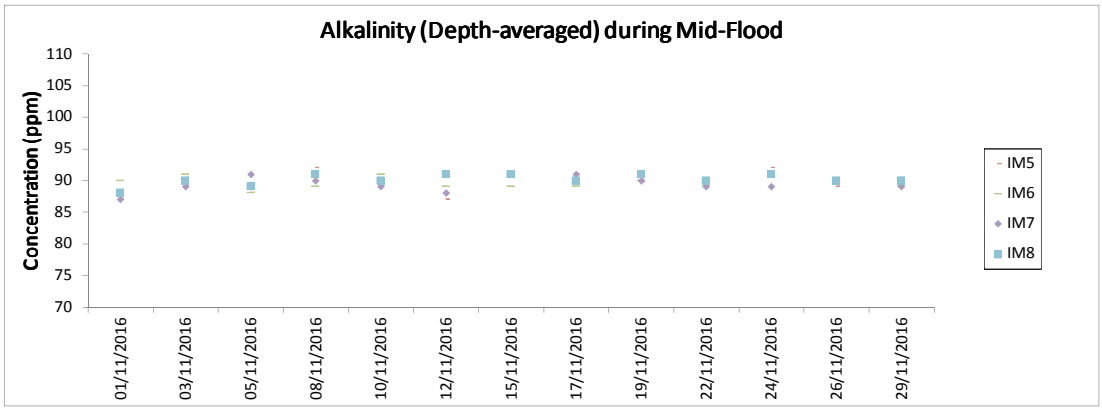


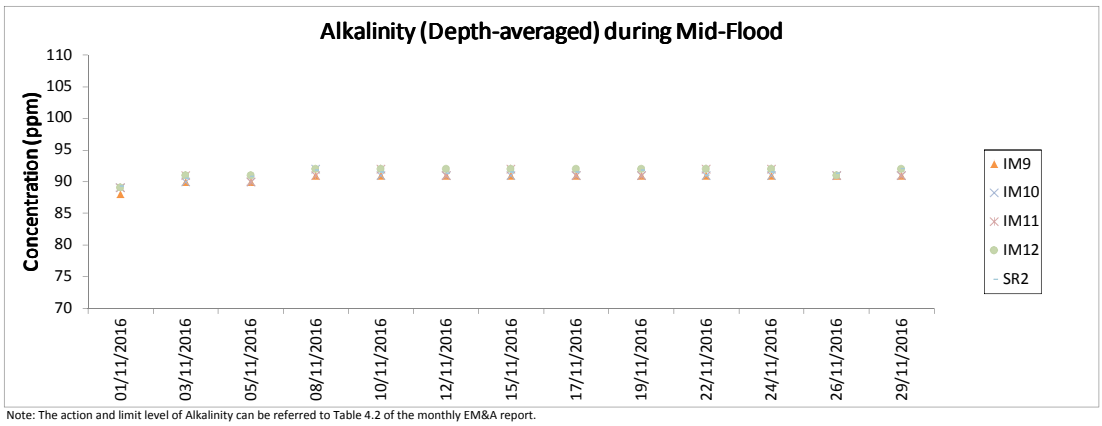


Note: The action and limit level of Alkalinity can be referred to Table 4.2 of the monthly EM&A report.

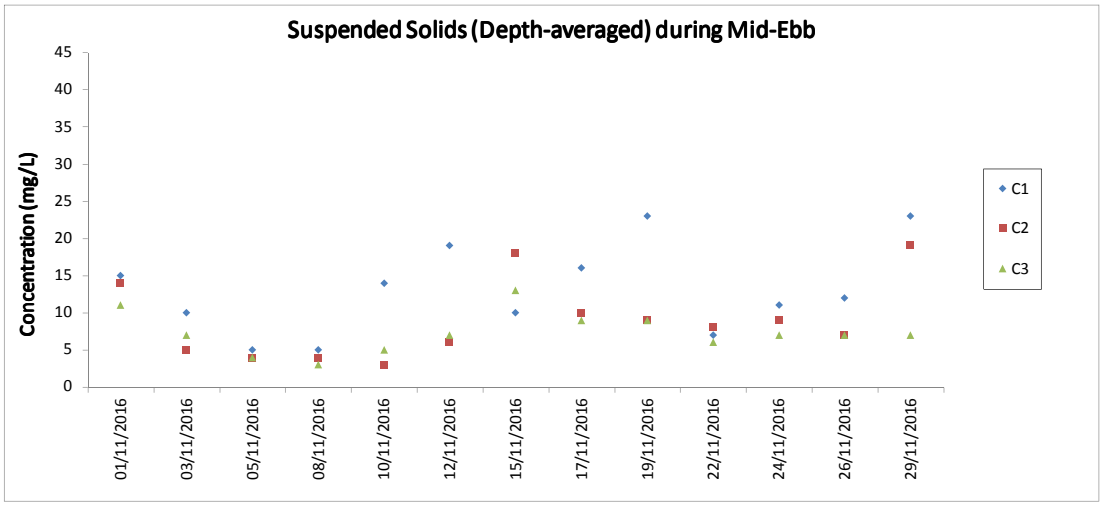


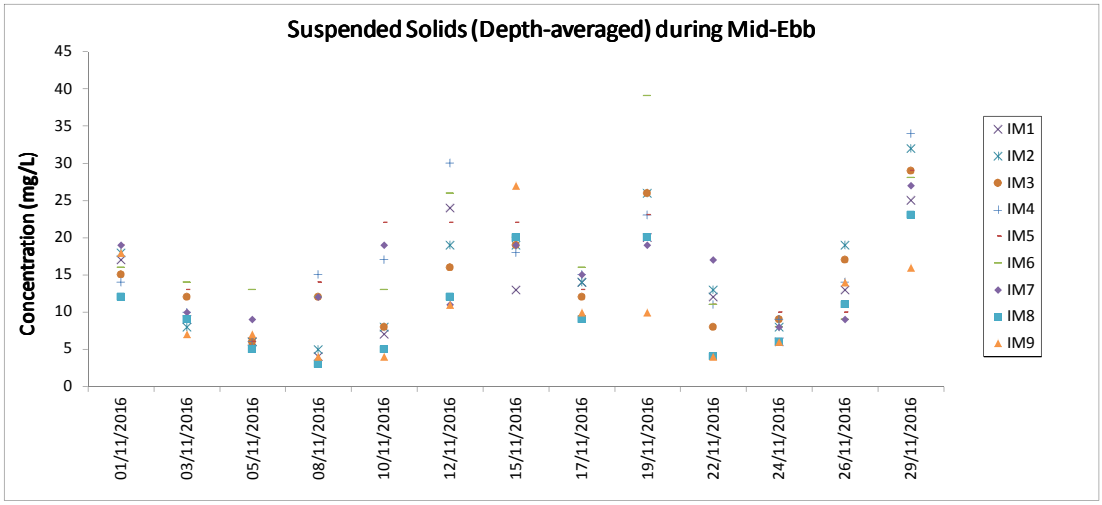


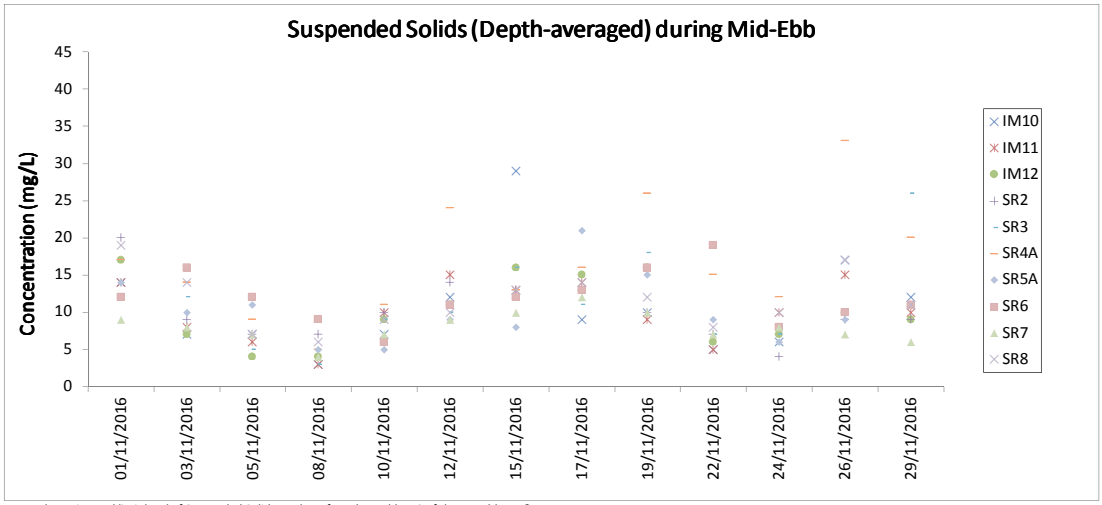




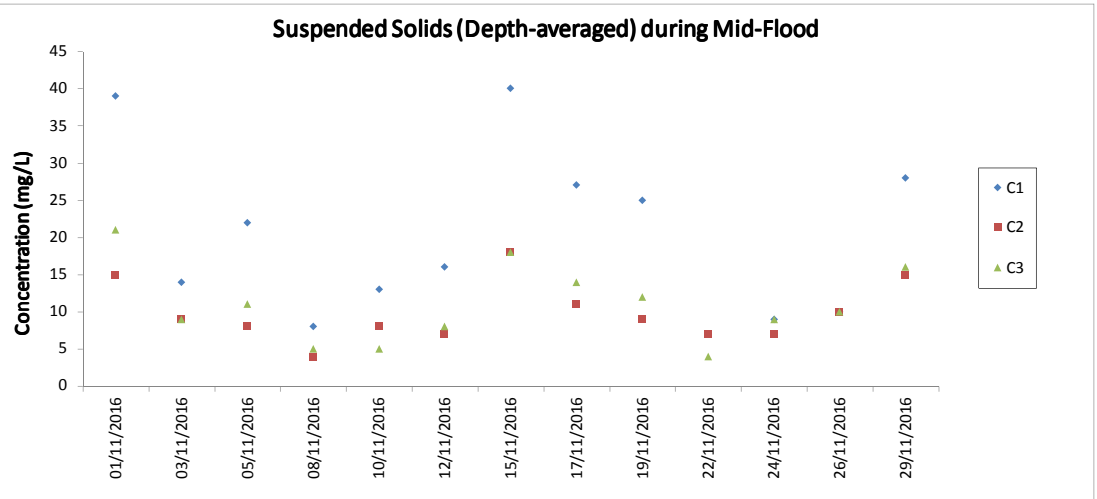
Note: The action and limit level of Alkalinity can be referred to Table 4.2 of the monthly EM&A report.

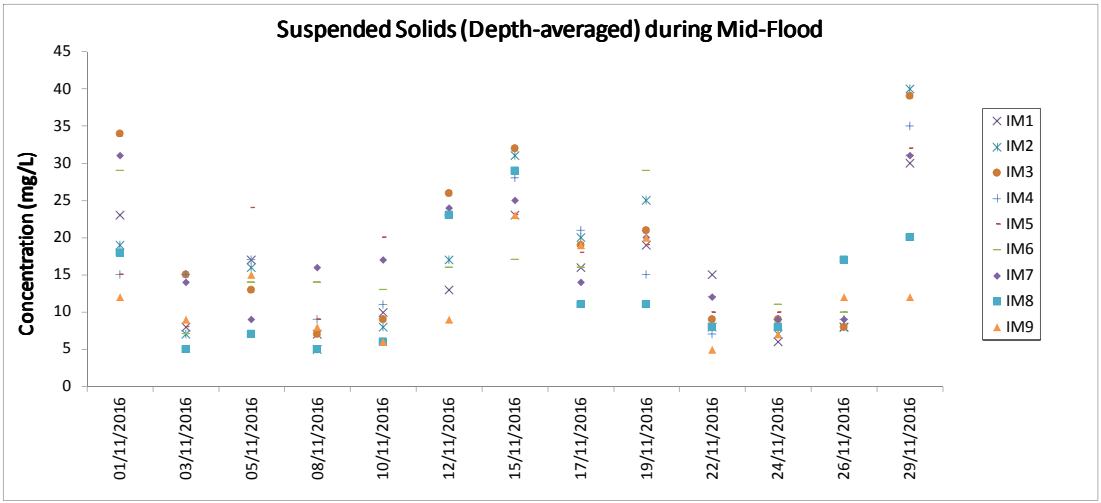


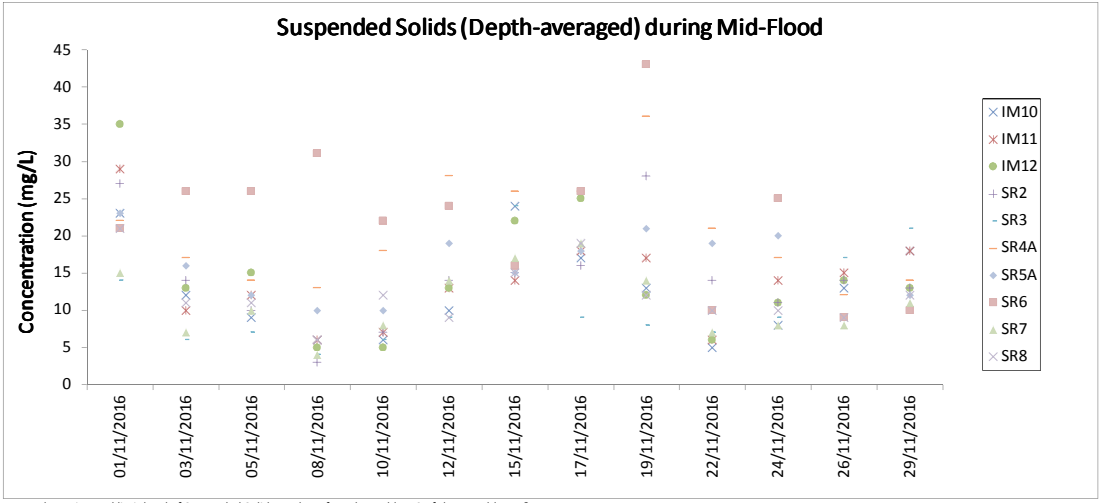




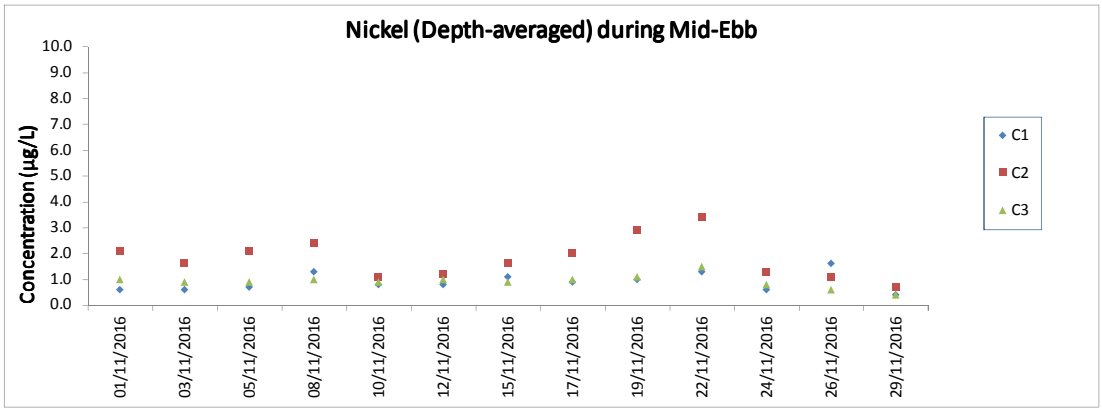
Note: The action and limit level of Suspended Solids can be referred to Table 4.2 of the monthly EM&A report.

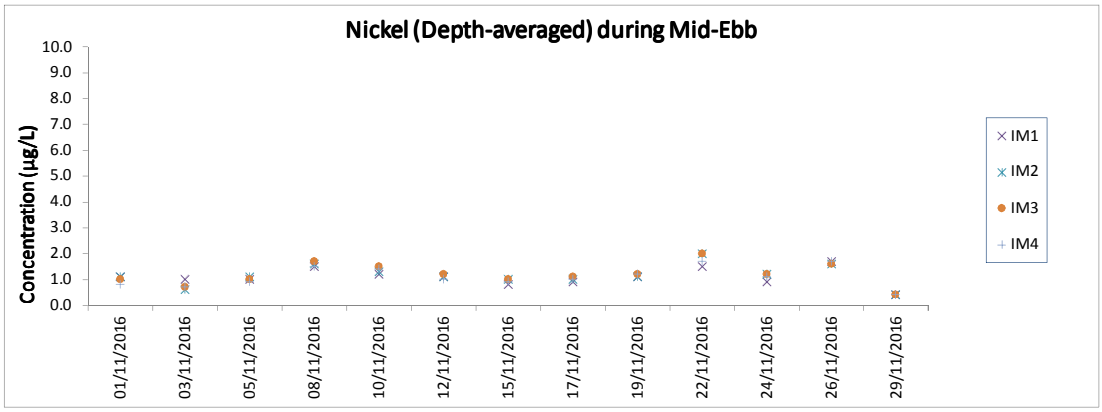


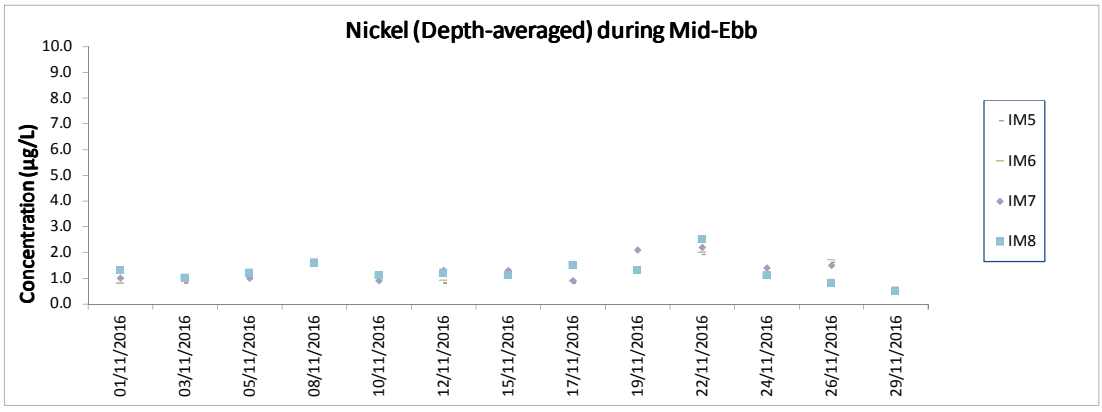


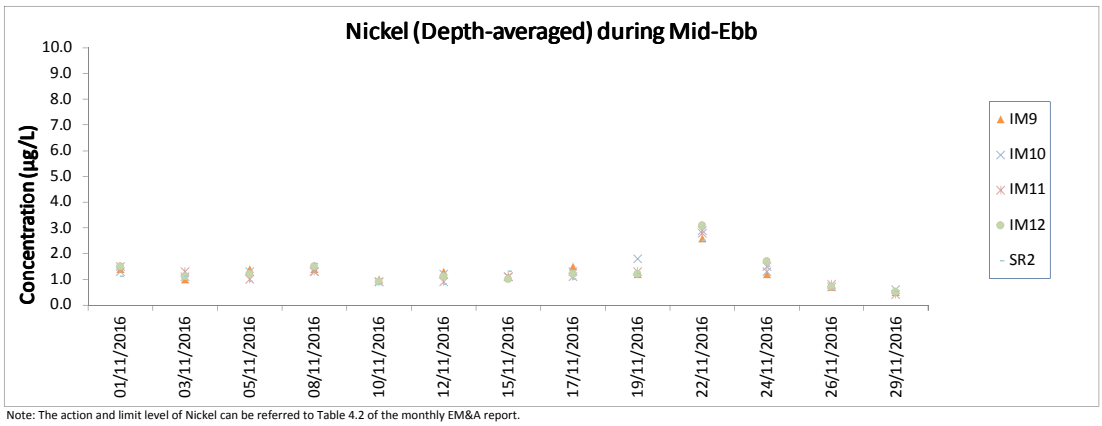


Note: The action and limit level of Suspended Solids can be referred to Table 4.2 of the monthly EM&A report.

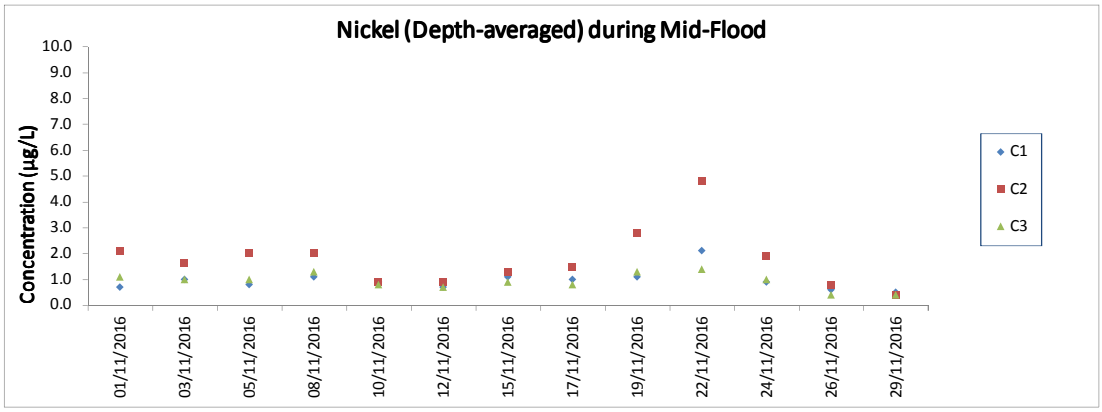


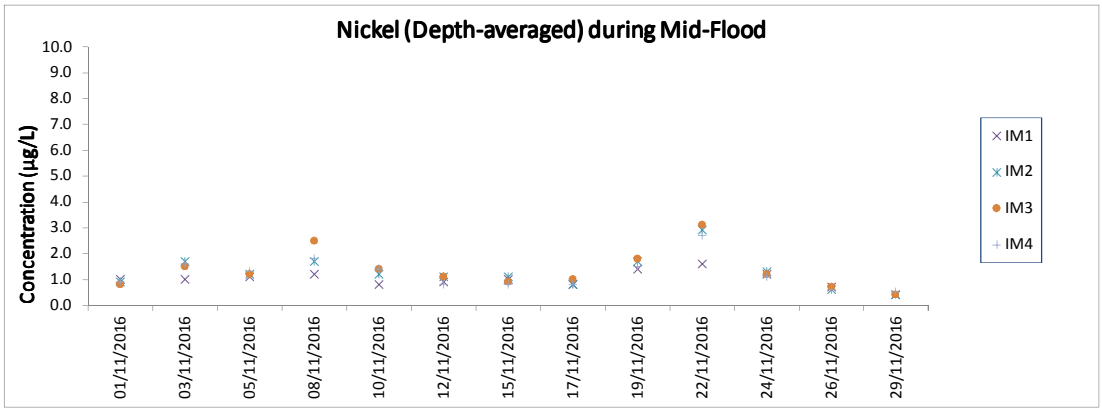


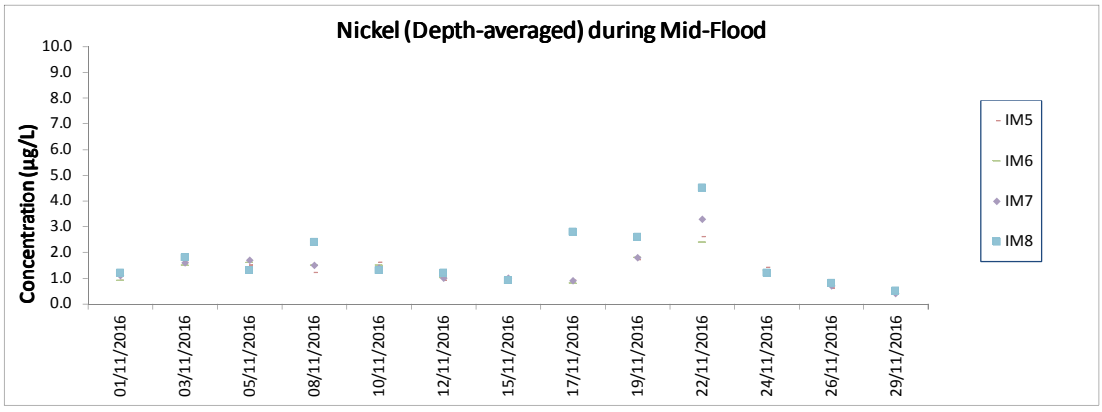


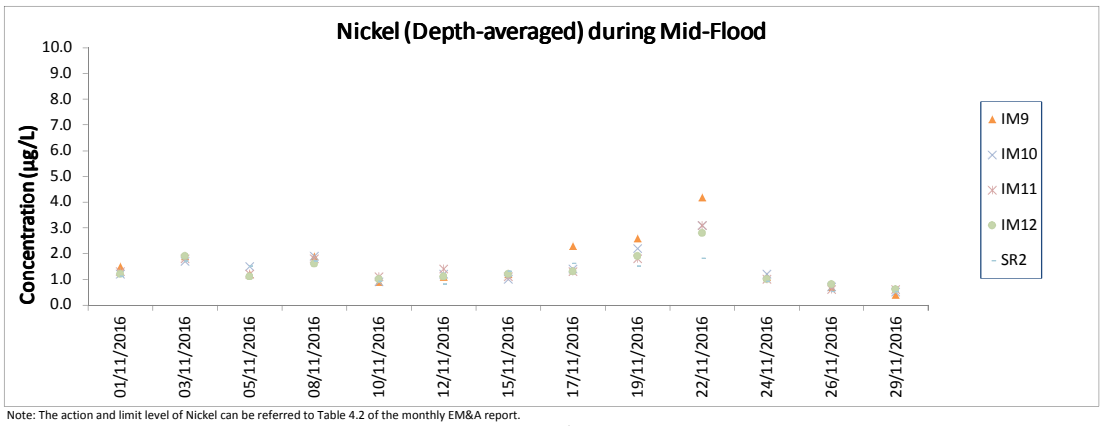


Note: The action and limit level of Nickel can be referred to Table 4.2 of the monthly EM&A report.









Note: The action and limit level of Nickel can be referred to Table 4.2 of the monthly EM&A report.
The monitoring results of Chromium at all monitoring stations were below the reporting limit <0.2 µg/L,
the impact monitoring results of Chromium at all monitoring stations can be referred to Appendix E. of the monthly EM&A report.

Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey — Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
05-Sep-16	NEL	2	41.60	AUTUMN	32166	3RS ET
05-Sep-16	NEL	3	5.40	AUTUMN	32166	3RS ET
06-Sep-16	NWL	1	8.62	AUTUMN	32166	3RS ET
06-Sep-16	NWL	2	47.10	AUTUMN	32166	3RS ET
06-Sep-16	NWL	3	27.38	AUTUMN	32166	3RS ET
08-Sep-16	AW	2	2.65	AUTUMN	32166	3RS ET
08-Sep-16	AW	3	2.43	AUTUMN	32166	3RS ET
08-Sep-16	WL	1	5.25	AUTUMN	32166	3RS ET
08-Sep-16	WL	2	23.16	AUTUMN	32166	3RS ET
08-Sep-16	WL	3	2.67	AUTUMN	32166	3RS ET
08-Sep-16	SWL	1	2.15	AUTUMN	32166	3RS ET
08-Sep-16	SWL	2	10.15	AUTUMN	32166	3RS ET
19-Sep-16	AW	3	4.81	AUTUMN	32166	3RS ET
19-Sep-16	WL	2	5.10	AUTUMN	32166	3RS ET
19-Sep-16	WL	3	25.61	AUTUMN	32166	3RS ET
19-Sep-16	SWL	2	6.81	AUTUMN	32166	3RS ET
20-Sep-16	NEL	1	1.10	AUTUMN	32166	3RS ET
20-Sep-16	NEL	2	45.70	AUTUMN	32166	3RS ET
22-Sep-16	NWL	2	33.84	AUTUMN	32166	3RS ET
22-Sep-16	NWL	3	43.92	AUTUMN	32166	3RS ET
22-Sep-16	NWL	4	3.40	AUTUMN	32166	3RS ET
26-Sep-16	SWL	1	5.61	AUTUMN	32166	3RS ET
26-Sep-16	SWL	2	18.67	AUTUMN	32166	3RS ET
26-Sep-16	SWL	3	35.90	AUTUMN	32166	3RS ET
26-Sep-16	SWL	4	1.64	AUTUMN	32166	3RS ET
27-Sep-16	SWL	2	15.86	AUTUMN	32166	3RS ET
27-Sep-16	SWL	3	35.83	AUTUMN	32166	3RS ET
27-Sep-16	SWL	4	7.73	AUTUMN	32166	3RS ET
05-Oct-16	NWL	2	57.65	AUTUMN	32166	3RS ET
05-Oct-16	NWL	3	24.37	AUTUMN	32166	3RS ET
07-Oct-16	SWL	2	19.10	AUTUMN	32166	3RS ET
07-Oct-16	SWL	3	41.15	AUTUMN	32166	3RS ET
07-Oct-16	SWL	4	2.05	AUTUMN	32166	3RS ET
19-Oct-16	NEL	2	2.20	AUTUMN	32166	3RS ET
19-Oct-16	NEL	3	18.00	AUTUMN	32166	3RS ET
19-Oct-16	NEL	4	27.50	AUTUMN	32166	3RS ET
20-Oct-16	NEL	2	30.40	AUTUMN	32166	3RS ET
20-Oct-16	NEL	3	16.80	AUTUMN	32166	3RS ET
24-Oct-16	AW	1	4.80	AUTUMN	32166	3RS ET
24-Oct-16	WL	1	5.39	AUTUMN	32166	3RS ET
24-Oct-16	WL	2	6.10	AUTUMN	32166	3RS ET
24-Oct-16	WL	3	15.88	AUTUMN	32166	3RS ET
24-Oct-16	WL	4	3.82	AUTUMN	32166	3RS ET
24-Oct-16	SWL	3	4.89	AUTUMN	32166	3RS ET
24-Oct-16	SWL	4	0.41	AUTUMN	32166	3RS ET
25-Oct-16	SWL	2	1.05	AUTUMN	32166	3RS ET
25-Oct-16	SWL	3	31.73	AUTUMN	32166	3RS ET

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
25-Oct-16	SWL	4	28.02	AUTUMN	32166	3RS ET
25-Oct-16	SWL	5	2.00	AUTUMN	32166	3RS ET
26-Oct-16	AW	2	2.81	AUTUMN	32166	3RS ET
26-Oct-16	AW	3	1.83	AUTUMN	32166	3RS ET
26-Oct-16	WL	2	12.50	AUTUMN	32166	3RS ET
26-Oct-16	WL	3	9.25	AUTUMN	32166	3RS ET
26-Oct-16	WL	4	9.44	AUTUMN	32166	3RS ET
26-Oct-16	SWL	3	1.06	AUTUMN	32166	3RS ET
26-Oct-16	SWL	4	4.03	AUTUMN	32166	3RS ET
28-Oct-16	NWL	1	6.27	AUTUMN	32166	3RS ET
28-Oct-16	NWL	2	73.09	AUTUMN	32166	3RS ET
28-Oct-16	NWL	3	0.90	AUTUMN	32166	3RS ET
04-Nov-16	NWL	2	22.59	AUTUMN	32166	3RS ET
04-Nov-16	NWL	3	60.71	AUTUMN	32166	3RS ET
11-Nov-16	NEL	1	15.31	AUTUMN	32166	3RS ET
11-Nov-16	NEL	2	31.79	AUTUMN	32166	3RS ET
14-Nov-16	SWL	2	62.10	AUTUMN	32166	3RS ET
14-Nov-16	SWL	3	0.90	AUTUMN	32166	3RS ET
16-Nov-16	NEL	2	1.90	AUTUMN	32166	3RS ET
16-Nov-16	NEL	3	41.92	AUTUMN	32166	3RS ET
16-Nov-16	NEL	4	3.28	AUTUMN	32166	3RS ET
17-Nov-16	SWL	2	1.15	AUTUMN	32166	3RS ET
17-Nov-16	SWL	3	5.59	AUTUMN	32166	3RS ET
17-Nov-16	WL	2	13.18	AUTUMN	32166	3RS ET
17-Nov-16	WL	3	17.84	AUTUMN	32166	3RS ET
17-Nov-16	AW	2	4.91	AUTUMN	32166	3RS ET
18-Nov-16	AW	2	1.43	AUTUMN	32166	3RS ET
18-Nov-16	AW	3	3.25	AUTUMN	32166	3RS ET
18-Nov-16	WL	2	18.03	AUTUMN	32166	3RS ET
18-Nov-16	WL	3	11.86	AUTUMN	32166	3RS ET
18-Nov-16	WL	4	2.45	AUTUMN	32166	3RS ET
18-Nov-16	SWL	3	6.84	AUTUMN	32166	3RS ET
21-Nov-16	NWL	2	3.82	AUTUMN	32166	3RS ET
21-Nov-16	NWL	3	26.42	AUTUMN	32166	3RS ET
21-Nov-16	NWL	4	43.55	AUTUMN	32166	3RS ET
21-Nov-16	NWL	5	7.91	AUTUMN	32166	3RS ET
28-Nov-16	SWL	2	7.14	AUTUMN	32166	3RS ET
28-Nov-16	SWL	3	35.02	AUTUMN	32166	3RS ET
28-Nov-16	SWL	4	16.84	AUTUMN	32166	3RS ET
28-Nov-16	SWL	5	1.39	AUTUMN	32166	3RS ET

Notes:

CWD monitoring survey data of the two preceding survey months (i.e. September and October 2016) 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.
06-Sep-16	1	1127	CWD	3	NWL	3	48	ON	3RS ET	22.3379	113.8784	AUTUMN	NONE
08-Sep-16	1	1020	CWD	4	WL	1	221	ON	3RS ET	22.2504	113.8387	AUTUMN	PURSE SEINE
08-Sep-16	2	1044	CWD	9	WL	1	36	ON	3RS ET	22.2416	113.8409	AUTUMN	NONE
08-Sep-16	3	1233	CWD	2	WL	2	100	ON	3RS ET	22.1871	113.8365	AUTUMN	NONE
19-Sep-16	1	0945	CWD	2	AW	3	13	ON	3RS ET	22.3009	113.8895	AUTUMN	NONE
19-Sep-16	2	1147	CWD	10	WL	3	27	ON	3RS ET	22.2319	113.8282	AUTUMN	NONE
19-Sep-16	3	1230	CWD	1	WL	3	135	ON	3RS ET	22.2138	113.8202	AUTUMN	NONE
19-Sep-16	4	1244	CWD	8	WL	3	25	ON	3RS ET	22.2142	113.8331	AUTUMN	NONE
19-Sep-16	5	1334	CWD	5	WL	3	149	ON	3RS ET	22.1963	113.8397	AUTUMN	NONE
19-Sep-16	6	1411	CWD	1	SWL	2	124	ON	3RS ET	22.1910	113.8508	AUTUMN	NONE
19-Sep-16	7	1427	CWD	5	SWL	2	N/A	OFF	3RS ET	22.1838	113.8499	AUTUMN	NONE
19-Sep-16	8	1506	CWD	1	SWL	2	N/A	OFF	3RS ET	22.1942	113.8543	AUTUMN	PURSE SEINE
22-Sep-16	1	1007	CWD	6	NWL	2	238	ON	3RS ET	22.3373	113.8684	AUTUMN	NONE
22-Sep-16	2	1315	CWD	7	NWL	3	153	ON	3RS ET	22.3636	113.8981	AUTUMN	NONE
26-Sep-16	1	1109	FP	5	SWL	2	347	ON	3RS ET	22.1688	113.9280	AUTUMN	NONE
26-Sep-16	2	1157	FP	2	SWL	3	308	ON	3RS ET	22.1728	113.9195	AUTUMN	NONE
26-Sep-16	3	1456	CWD	5	SWL	2	15	ON	3RS ET	22.1997	113.8690	AUTUMN	NONE
27-Sep-16	1	1100	FP	2	SWL	3	48	ON	3RS ET	22.1627	113.9360	AUTUMN	NONE
27-Sep-16	2	1130	FP	1	SWL	3	34	ON	3RS ET	22.1723	113.9280	AUTUMN	NONE
27-Sep-16	3	1214	FP	4	SWL	3	62	ON	3RS ET	22.1601	113.9179	AUTUMN	NONE
27-Sep-16	4	1309	CWD	1	SWL	2	204	ON	3RS ET	22.2024	113.9078	AUTUMN	NONE
27-Sep-16	5	1412	CWD	2	SWL	2	182	ON	3RS ET	22.1851	113.8879	AUTUMN	NONE
27-Sep-16	6	1434	CWD	1	SWL	3	64	ON	3RS ET	22.2062	113.8874	AUTUMN	NONE
05-Oct-16	1	1048	CWD	2	NWL	2	N/A	OFF	3RS ET	22.2716	113.8719	AUTUMN	NONE
05-Oct-16	2	1141	CWD	1	NWL	3	19	ON	3RS ET	22.3571	113.8781	AUTUMN	NONE
05-Oct-16	3	1212	CWD	2	NWL	3	N/A	OFF	3RS ET	22.5836	115.8169	AUTUMN	NONE
05-Oct-16	4	1246	CWD	2	NWL	2	102	ON	3RS ET	22.3696	113.8886	AUTUMN	NONE
07-Oct-16	1	1200	FP	2	SWL	3	116	ON	3RS ET	22.7397	115.8400	AUTUMN	NONE
24-Oct-16	1	1017	CWD	4	WL	2	206	ON	3RS ET	22.2698	113.8436	AUTUMN	NONE
24-Oct-16	2	1054	CWD	1	WL	3	87	ON	3RS ET	22.2599	113.8416	AUTUMN	NONE
24-Oct-16	3	1127	CWD	2	WL	3	91	ON	3RS ET	22.2404	113.8307	AUTUMN	NONE

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
24-Oct-16	4	1154	CWD	1	WL	3	108	ON	3RS ET	22.2236	113.8326	AUTUMN	NONE
24-Oct-16	5	1242	CWD	1	WL	4	11	ON	3RS ET	22.2018	113.8219	AUTUMN	NONE
24-Oct-16	6	1252	CWD	2	WL	3	48	ON	3RS ET	22.1983	113.8274	AUTUMN	NONE
24-Oct-16	7	1321	CWD	3	WL	3	N/A	OFF	3RS ET	22.1918	113.8383	AUTUMN	NONE
24-Oct-16	8	1403	CWD	1	SWL	3	45	ON	3RS ET	22.1863	113.8587	AUTUMN	NONE
25-Oct-16	1	1457	CWD	1	SWL	4	N/A	OFF	3RS ET	22.1943	113.8519	AUTUMN	NONE
25-Oct-16	2	1511	CWD	1	WL	3	N/A	OFF	3RS ET	22.2166	113.8338	AUTUMN	NONE
25-Oct-16	3	1518	CWD	1	WL	3	N/A	OFF	3RS ET	22.2293	113.8371	AUTUMN	NONE
25-Oct-16	4	1523	CWD	3	WL	3	N/A	OFF	3RS ET	22.2386	113.8406	AUTUMN	PURSE SEINE
26-Oct-16	1	1032	CWD	1	WL	2	135	ON	3RS ET	22.2675	113.8600	AUTUMN	NONE
26-Oct-16	2	1047	CWD	2	WL	2	149	ON	3RS ET	22.2616	113.8553	AUTUMN	NONE
26-Oct-16	3	1112	CWD	1	WL	2	168	ON	3RS ET	22.2500	113.8348	AUTUMN	NONE
26-Oct-16	4	1133	CWD	2	WL	2	38	ON	3RS ET	22.2413	113.8394	AUTUMN	NONE
26-Oct-16	5	1219	CWD	7	WL	4	286	ON	3RS ET	22.2143	113.8219	AUTUMN	NONE
26-Oct-16	6	1309	CWD	1	WL	4	390	ON	3RS ET	22.1885	113.8419	AUTUMN	PURSE SEINE
26-Oct-16	7	1350	CWD	4	SWL	3	441	ON	3RS ET	22.1933	113.8493	AUTUMN	NONE
26-Oct-16	8	1403	CWD	2	SWL	3	14	ON	3RS ET	22.1905	113.8490	AUTUMN	NONE
26-Oct-16	9	1412	CWD	2	SWL	3	395	ON	3RS ET	22.1863	113.8488	AUTUMN	NONE
26-Oct-16	10	1440	CWD	1	SWL	3	63	ON	3RS ET	22.1976	113.8589	AUTUMN	NONE
28-Oct-16	1	0949	CWD	7	NWL	2	210	ON	3RS ET	22.3757	113.8682	AUTUMN	NONE
28-Oct-16	2	1145	CWD	2	NWL	2	623	ON	3RS ET	22.3548	113.8781	AUTUMN	NONE
04-Nov-16	1	1041	CWD	4	NWL	3	330	ON	3RS ET	22.2788	113.8779	AUTUMN	NONE
04-Nov-16	2	1221	CWD	3	NWL	3	149	ON	3RS ET	22.3807	113.8890	AUTUMN	NONE
14-Nov-16	1	1406	CWD	1	SWL	2	19	ON	3RS ET	22.2076	113.8796	AUTUMN	NONE
17-Nov-16	1	1226	CWD	4	WL	3	1	ON	3RS ET	22.2311	113.8389	AUTUMN	NONE
17-Nov-16	2	1308	CWD	3	WL	2	390	ON	3RS ET	22.2452	113.8508	AUTUMN	NONE
17-Nov-16	3	1415	CWD	2	WL	2	11	ON	3RS ET	22.2900	113.8614	AUTUMN	NONE
18-Nov-16	1	1041	CWD	1	WL	3	243	ON	3RS ET	22.2571	113.8373	AUTUMN	NONE
21-Nov-16	1	1035	CWD	5	NWL	3	9	ON	3RS ET	22.2844	113.8683	AUTUMN	NONE
28-Nov-16	1	1048	FP	1	SWL	3	52	ON	3RS ET	22.1579	113.9360	AUTUMN	NONE
28-Nov-16	2	1112	FP	1	SWL	4	125	ON	3RS ET	22.1689	113.9277	AUTUMN	NONE
28-Nov-16	3	1116	FP	1	SWL	4	183	ON	3RS ET	22.1703	113.9273	AUTUMN	NONE

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
28-Nov-16	4	1139	CWD	4	SWL	3	86	ON	3RS ET	22.2050	113.9178	AUTUMN	NONE
28-Nov-16	5	1430	CWD	1	SWL	3	125	ON	3RS ET	22.1967	113.8778	AUTUMN	NONE
28-Nov-16	6	1514	CWD	5	SWL	4	148	ON	3RS ET	22.1979	113.8683	AUTUMN	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. September and October 2016) 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 running quarterly STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 1238.24 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 44 on-effort sightings and total number of 133 dolphins from on-effort sightings were collected under such condition. Calculation of the running quarterly encounter rates are shown as below:

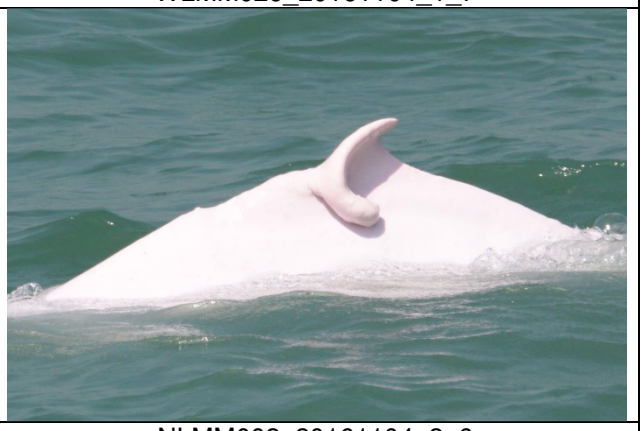
Running Quarterly Encounter Rate of Number of Dolphin Sightings (STG)

$$STG = \frac{44}{1238.24}\ x\ 100 = 3.55$$

Running Quarterly Encounter Rate of Number of Dolphins (ANI)

$$ANI = \frac{133}{1238.24}\ x\ 100 = 10.74$$

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

SLMM028_20161104_1_8	WLMM026_20161104_1_7
	
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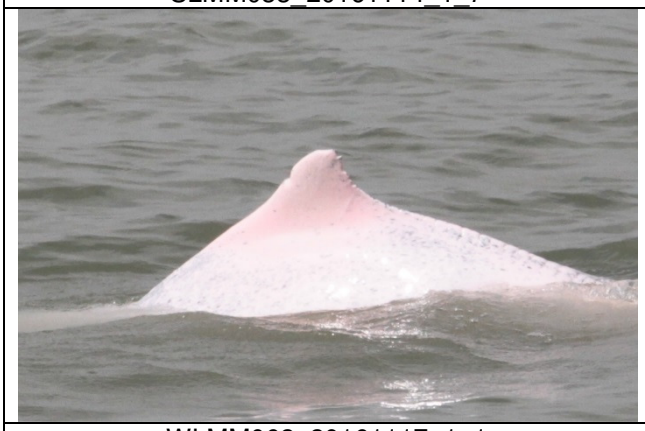	
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	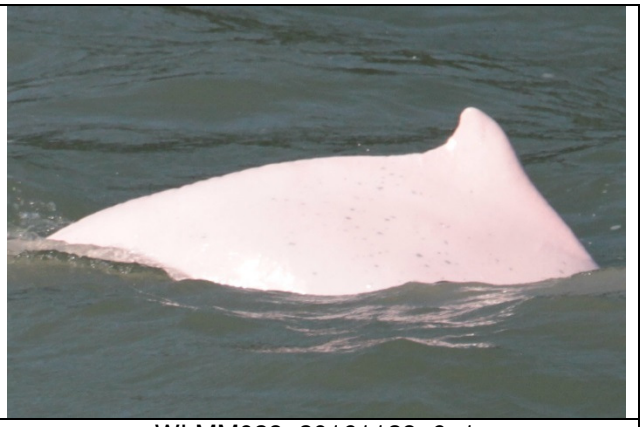
SLMM017_20161128_4_6	WLMM028_20161128_6_1
WLMM029_20161128_4_2	

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
7-Nov-16	Lung Kwu Chau	8:30	14:30	6:00	2-3	2-3	5	1-3
8-Nov-16	Sha Chau	8:34	14:34	6:00	2-3	2-3	0	N/A
15-Nov-16	Lung Kwu Chau	9:26	15:26	6:00	2	4	3	2-3
17-Nov-16	Sha Chau	8:44	14:44	6:00	2	3	0	N/A
25-Nov-16	Lung Kwu Chau	8:38	14:48	6:10	2-4	2	2	2-3

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

Appendix E. Status of Environmental Permits and Licences

Statutory Reference	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-RS0968-16	Valid from 21 Sep 2016 to 20 Mar 2017
		Site Office	GW-RS0421-16	Valid from 3 May to 2 Nov 2016
		Stockpiling Area	GW-RS0974-16	Valid from 23 Sep 2016 to 22 Mar 2017
		Sheung Sha Chau	GW-RW0642-16	Valid from 13 Nov 2016 to 26 Mar 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-RS1025-16	Valid from 3 Oct to 31 Dec 2016

Statutory Reference	Description		Permit/ Reference No.	Status
	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-RS1017-16	Valid from 7 Oct 2016 to 6 Apr 2017
	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-RS1019-16	Valid from 7 Oct 2016 to 6 Apr 2017
	Registration as Chemical Waste Producer	Works area of 3203	WPN 5213-951-S3954-01	Completion of Registration on 15 Sep 2016
	Bill Account for disposal		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
		Site Office of 3204	407726	Receipt acknowledged by EPD on 19 Sep 2016
	Construction Noise Permit (General Works)	Works Area of 3204	GW-RS1086-16	Valid from 26 Oct 2016 to 24 Apr 2017
	Registration as Chemical Waste Producer	Works Area of 3204	WPN 5213-951-C4102-01	Completion of Registration on 15 Sep 2016
	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
	Construction Noise Permit (General Works)	Works Area of 3205	GW-RS1191-16	Valid from 25 Nov 2016 to 24 May 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

Statutory Reference	Description		Permit/ Reference No.	Status
				EPD on 25 Oct 2016
	Registration as Chemical Waste Producer	Works area of 3206	WPN 5213-951-Z4035-01	Completion of Registration on 18 Nov 2016
	Registration as Chemical Waste Producer	Works area of 3206	WPN 5213-951-Z4035-02	Completion of Registration on 18 Nov 2016
	Bill Account for disposal	Works area of 3206	7026398	Approval granted from EPD on 16 Nov 2016
3213	Registration as Chemical Waste Producer	Works area of 3213	WPN 5213-951-W3376-04	Completion of Registration on 18 Nov 2016
	Bill Account for disposal		A/C 7025860	Approval granted from EPD on 12 Sep 2016

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

Statistics for Exceedances for 1-hour TSP, Noise and Waste 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
Waste	Action	0	0
	Limit	0	0
Water	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	0	0	0
From 28 December 2015 to end of the reporting month	0	0	0

Appendix G. Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 30 November 2016)

Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 30 November 2016)

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-Nov	08:24	3A061	YFT	Arrival	12.1	-	-
01-Nov	08:35	8S210	MFM	Arrival	11.7	-	-
01-Nov	09:54	3A071	MFM	Arrival	10.3	-	-
01-Nov	10:38	8S212	MFM	Arrival	11.6	-	-
01-Nov	10:42	3A081	ZUI	Arrival	13.9	-	-
01-Nov	10:59	8S121	MFM	Departure	12.8	-	-
01-Nov	11:19	3A063	YFT	Arrival	12.9	-	-
01-Nov	12:32	3A168	YFT	Departure	13.6	-	-
01-Nov	12:32	3A181	ZUI	Departure	13.2	-	-
01-Nov	12:40	8S215	MFM	Arrival	12.6	-	-
01-Nov	12:58	3A064	YFT	Arrival	13.3	-	-
01-Nov	13:21	8S123	MFM	Departure	12.6	-	-
01-Nov	13:44	3A082	ZUI	Arrival	12.7	-	-
01-Nov	14:17	3A182	ZUI	Departure	13.2	-	-
01-Nov	14:21	3A164	YFT	Departure	13.5	-	-
01-Nov	15:13	3A065	YFT	Arrival	12.4	-	-
01-Nov	16:18	3A167	YFT	Departure	13.0	-	-
01-Nov	16:36	3A083	ZUI	Arrival	12.5	≤5	<1
01-Nov	16:43	8S218	MFM	Arrival	12.9	-	-
01-Nov	16:57	3A067	YFT	Arrival	13.6	-	-
01-Nov	17:06	8S126	MFM	Departure	13.3	-	-
01-Nov	17:12	3A183	ZUI	Departure	13.4	-	-
01-Nov	19:05	3A166	YFT	Departure	12.1	-	-
01-Nov	19:45	3A084	ZUI	Arrival	13.0	-	-
01-Nov	20:05	3A185	ZUI	Departure	13.4	-	-
01-Nov	20:53	8S2113	MFM	Arrival	13.3	-	-
01-Nov	20:59	3A169	YFT	Departure	13.2	-	-
01-Nov	22:06	8S522	MFM	Departure	12.6	-	-
02-Nov	08:17	3A061	YFT	Arrival	12.2	-	-
02-Nov	08:26	8S210	MFM	Arrival	11.9	-	-
02-Nov	09:59	3A071	MFM	Arrival	12.0	-	-
02-Nov	10:38	8S212	MFM	Arrival	12.6	-	-
02-Nov	10:44	3A081	ZUI	Arrival	12.1	-	-
02-Nov	11:06	8S121	MFM	Departure	11.6	-	-
02-Nov	11:27	3A063	YFT	Arrival	10.9	-	-
02-Nov	12:17	3A181	ZUI	Departure	13.9	-	-
02-Nov	12:22	3A168	YFT	Departure	11.3	-	-
02-Nov	12:49	8S215	MFM	Arrival	13.5	-	-
02-Nov	13:03	3A064	YFT	Arrival	12.5	-	-
02-Nov	13:16	8S123	MFM	Departure	12.3	-	-
02-Nov	13:57	3A082	ZUI	Arrival	13.8	-	-
02-Nov	14:17	3A182	ZUI	Departure	13.2	-	-
02-Nov	14:26	3A164	YFT	Departure	12.9	-	-
02-Nov	14:55	3A065	YFT	Arrival	11.4	-	-
02-Nov	16:18	3A167	YFT	Departure	11.2	-	-
02-Nov	16:41	3A083	ZUI	Arrival	12.5	-	-
02-Nov	16:45	8S218	MFM	Arrival	13.2	-	-
02-Nov	17:03	3A067	YFT	Arrival	14.0	≤5	<2
02-Nov	17:04	3A183	ZUI	Departure	13.3	-	-
02-Nov	17:19	8S126	MFM	Departure	13.3	-	-
02-Nov	19:06	3A166	YFT	Departure	12.0	-	-
02-Nov	19:48	3A084	ZUI	Arrival	12.9	-	-
02-Nov	20:06	3A185	ZUI	Departure	13.3	-	-
02-Nov	20:52	8S2113	MFM	Arrival	13.3	-	-
02-Nov	21:01	3A169	YFT	Departure	12.8	-	-
02-Nov	22:12	8S522	MFM	Departure	12.7	-	-
03-Nov	08:14	3A061	YFT	Arrival	11.1	-	-
03-Nov	08:27	8S210	MFM	Arrival	13.2	-	-

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)
03-Nov	10:01	3A071	MFM	Arrival	11.5	-	-
03-Nov	10:42	8S212	MFM	Arrival	11.3	-	-
03-Nov	10:43	3A081	ZUI	Arrival	13.8	-	-
03-Nov	11:10	8S121	MFM	Departure	11.5	-	-
03-Nov	11:21	3A063	YFT	Arrival	13.0	-	-
03-Nov	12:19	3A168	YFT	Departure	13.1	-	-
03-Nov	12:21	3A181	ZUI	Departure	12.7	-	-
03-Nov	12:46	8S215	MFM	Arrival	12.7	-	-
03-Nov	13:00	3A064	YFT	Arrival	12.6	-	-
03-Nov	13:15	8S123	MFM	Departure	13.3	-	-
03-Nov	13:48	3A082	ZUI	Arrival	12.8	-	-
03-Nov	14:18	3A182	ZUI	Departure	11.9	-	-
03-Nov	14:25	3A164	YFT	Departure	12.9	-	-
03-Nov	15:00	3A065	YFT	Arrival	13.3	-	-
03-Nov	16:22	3A167	YFT	Departure	13.2	-	-
03-Nov	16:39	3A083	ZUI	Arrival	13.8	-	-
03-Nov	16:43	8S218	MFM	Arrival	12.6	-	-
03-Nov	16:58	3A067	YFT	Arrival	11.6	-	-
03-Nov	17:07	3A183	ZUI	Departure	13.3	-	-
03-Nov	17:16	8S126	MFM	Departure	13.7	-	-
03-Nov	19:12	3A166	YFT	Departure	12.6	-	-
03-Nov	19:49	3A084	ZUI	Arrival	13.8	-	-
03-Nov	20:10	3A185	ZUI	Departure	13.1	-	-
03-Nov	20:54	8S2113	MFM	Arrival	10.0	-	-
03-Nov	21:08	3A169	YFT	Departure	12.6	-	-
03-Nov	21:54	8S522	MFM	Departure	12.5	-	-
04-Nov	08:17	3A061	YFT	Arrival	12.7	-	-
04-Nov	08:25	8S210	MFM	Arrival	12.6	-	-
04-Nov	09:56	3A071	MFM	Arrival	11.8	-	-
04-Nov	10:44	8S212	MFM	Arrival	12.6	-	-
04-Nov	10:49	3A081	ZUI	Arrival	13.6	-	-
04-Nov	11:14	8S121	MFM	Departure	12.4	-	-
04-Nov	11:23	3A063	YFT	Arrival	12.1	-	-
04-Nov	12:16	3A181	ZUI	Departure	12.8	-	-
04-Nov	12:24	3A168	YFT	Departure	11.8	-	-
04-Nov	12:49	8S215	MFM	Arrival	12.3	-	-
04-Nov	13:05	3A064	YFT	Arrival	13.1	-	-
04-Nov	13:15	8S123	MFM	Departure	13.0	-	-
04-Nov	13:48	3A082	ZUI	Arrival	12.8	-	-
04-Nov	14:16	3A182	ZUI	Departure	13.7	-	-
04-Nov	14:19	3A164	YFT	Departure	13.1	-	-
04-Nov	15:06	3A065	YFT	Arrival	11.6	-	-
04-Nov	16:20	3A167	YFT	Departure	11.4	-	-
04-Nov	16:36	3A083	ZUI	Arrival	14.2	-	-
04-Nov	16:47	8S218	MFM	Arrival	11.1	-	-
04-Nov	16:58	3A067	YFT	Arrival	12.5	-	-
04-Nov	17:12	3A183	ZUI	Departure	13.3	-	-
04-Nov	17:19	8S126	MFM	Departure	12.6	-	-
04-Nov	19:21	3A166	YFT	Departure	11.5	-	-
04-Nov	19:44	3A084	ZUI	Arrival	13.8	-	-
04-Nov	20:07	3A185	ZUI	Departure	12.2	-	-
04-Nov	20:58	3A169	YFT	Departure	13.0	-	-
04-Nov	21:02	8S2113	MFM	Arrival	12.5	-	-
04-Nov	21:51	8S522	MFM	Departure	12.4	-	-
05-Nov	08:26	3A061	YFT	Arrival	11.8	-	-
05-Nov	08:30	8S210	MFM	Arrival	11.5	-	-
05-Nov	09:54	3A071	MFM	Arrival	10.5	-	-
05-Nov	10:42	8S212	MFM	Arrival	11.6	-	-
05-Nov	10:52	3A081	ZUI	Arrival	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)
05-Nov	11:06	8S121	MFM	Departure	12.2	-	-
05-Nov	11:22	3A063	YFT	Arrival	13.0	-	-
05-Nov	12:15	3A181	ZUI	Departure	12.8	-	-
05-Nov	12:16	3A168	YFT	Departure	12.9	-	-
05-Nov	12:51	8S215	MFM	Arrival	12.0	-	-
05-Nov	13:02	3A064	YFT	Arrival	11.9	-	-
05-Nov	13:14	8S123	MFM	Departure	11.6	-	-
05-Nov	13:41	3A082	ZUI	Arrival	12.7	-	-
05-Nov	14:18	3A182	ZUI	Departure	11.8	-	-
05-Nov	14:21	3A164	YFT	Departure	11.6	-	-
05-Nov	14:50	3A065	YFT	Arrival	12.8	-	-
05-Nov	16:15	3A167	YFT	Departure	12.9	-	-
05-Nov	16:37	3A083	ZUI	Arrival	13.9	-	-
05-Nov	16:44	8S218	MFM	Arrival	11.2	-	-
05-Nov	16:55	3A067	YFT	Arrival	12.2	-	-
05-Nov	17:06	8S126	MFM	Departure	12.6	-	-
05-Nov	17:08	3A183	ZUI	Departure	13.9	-	-
05-Nov	19:03	3A166	YFT	Departure	11.9	-	-
05-Nov	19:47	3A084	ZUI	Arrival	14.1	-	-
05-Nov	20:09	3A185	ZUI	Departure	13.2	-	-
05-Nov	21:00	3A169	YFT	Departure	12.4	-	-
05-Nov	21:01	8S2113	MFM	Arrival	12.1	-	-
05-Nov	22:03	8S522	MFM	Departure	13.0	-	-
06-Nov	08:16	3A061	YFT	Arrival	12.7	-	-
06-Nov	08:40	8S210	MFM	Arrival	12.0	-	-
06-Nov	10:02	3A071	MFM	Arrival	11.4	-	-
06-Nov	10:43	3A081	ZUI	Arrival	13.6	-	-
06-Nov	10:45	8S212	MFM	Arrival	11.7	-	-
06-Nov	11:10	8S121	MFM	Departure	12.8	≤5	<1
06-Nov	11:28	3A063	YFT	Arrival	12.3	-	-
06-Nov	12:21	3A181	ZUI	Departure	13.0	-	-
06-Nov	12:29	3A168	YFT	Departure	13.1	-	-
06-Nov	12:48	8S215	MFM	Arrival	11.7	-	-
06-Nov	13:02	3A064	YFT	Arrival	11.8	-	-
06-Nov	13:15	8S123	MFM	Departure	11.7	-	-
06-Nov	13:45	3A082	ZUI	Arrival	12.8	-	-
06-Nov	14:23	3A164	YFT	Departure	12.0	-	-
06-Nov	14:25	3A182	ZUI	Departure	13.4	-	-
06-Nov	14:59	3A065	YFT	Arrival	13.0	-	-
06-Nov	16:28	3A167	YFT	Departure	13.8	-	-
06-Nov	16:42	8S218	MFM	Arrival	8.9	-	-
06-Nov	16:42	3A083	ZUI	Arrival	12.6	-	-
06-Nov	17:05	3A183	ZUI	Departure	12.9	-	-
06-Nov	17:06	3A067	YFT	Arrival	11.6	-	-
06-Nov	17:16	8S126	MFM	Departure	13.1	-	-
06-Nov	19:12	3A166	YFT	Departure	13.6	-	-
06-Nov	19:43	3A084	ZUI	Arrival	11.0	-	-
06-Nov	20:09	3A185	ZUI	Departure	10.2	-	-
06-Nov	20:54	8S2113	MFM	Arrival	12.0	-	-
06-Nov	21:05	3A169	YFT	Departure	12.8	-	-
06-Nov	21:59	8S522	MFM	Departure	11.7	-	-
07-Nov	08:18	3A061	YFT	Arrival	12.9	-	-
07-Nov	08:36	8S210	MFM	Arrival	9.2	-	-
07-Nov	10:05	3A071	MFM	Arrival	11.3	-	-
07-Nov	10:42	8S212	MFM	Arrival	12.4	-	-
07-Nov	10:43	3A081	ZUI	Arrival	12.4	-	-
07-Nov	11:11	8S121	MFM	Departure	11.7	-	-
07-Nov	11:20	3A063	YFT	Arrival	11.8	-	-
07-Nov	12:12	3A181	ZUI	Departure	13.5	-	-

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)
07-Nov	12:13	3A168	YFT	Departure	11.9	-	-
07-Nov	12:45	8S215	MFM	Arrival	11.7	-	-
07-Nov	13:12	8S123	MFM	Departure	13.4	-	-
07-Nov	13:14	3A064	YFT	Arrival	12.1	-	-
07-Nov	13:51	3A082	ZUI	Arrival	12.0	-	-
07-Nov	14:17	3A182	ZUI	Departure	11.9	-	-
07-Nov	14:18	3A164	YFT	Departure	12.9	-	-
07-Nov	14:56	3A065	YFT	Arrival	11.5	-	-
07-Nov	16:16	3A167	YFT	Departure	11.9	-	-
07-Nov	16:32	3A083	ZUI	Arrival	13.0	-	-
07-Nov	16:39	8S218	MFM	Arrival	11.5	-	-
07-Nov	17:04	8S126	MFM	Departure	13.6	-	-
07-Nov	17:07	3A183	ZUI	Departure	13.7	-	-
07-Nov	17:13	3A067	YFT	Arrival	12.5	-	-
07-Nov	19:06	3A166	YFT	Departure	12.6	-	-
07-Nov	19:55	3A084	ZUI	Arrival	12.1	-	-
07-Nov	20:14	3A185	ZUI	Departure	13.6	-	-
07-Nov	21:02	3A169	YFT	Departure	13.7	-	-
07-Nov	21:08	8S2113	MFM	Arrival	11.6	-	-
07-Nov	22:02	8S522	MFM	Departure	11.7	-	-
08-Nov	08:14	3A061	YFT	Arrival	11.9	-	-
08-Nov	08:28	8S210	MFM	Arrival	13.2	-	-
08-Nov	09:50	3A071	MFM	Arrival	12.6	≤5	<1
08-Nov	10:40	8S212	MFM	Arrival	12.5	-	-
08-Nov	10:43	3A081	ZUI	Arrival	12.5	-	-
08-Nov	11:08	8S121	MFM	Departure	12.0	-	-
08-Nov	11:29	3A063	YFT	Arrival	11.9	-	-
08-Nov	12:15	3A181	ZUI	Departure	12.7	-	-
08-Nov	12:17	3A168	YFT	Departure	12.4	-	-
08-Nov	12:47	8S215	MFM	Arrival	12.8	-	-
08-Nov	13:06	3A064	YFT	Arrival	11.8	-	-
08-Nov	13:13	8S123	MFM	Departure	11.6	-	-
08-Nov	13:52	3A082	ZUI	Arrival	13.0	-	-
08-Nov	14:17	3A182	ZUI	Departure	13.0	-	-
08-Nov	14:17	3A164	YFT	Departure	12.4	-	-
08-Nov	15:04	3A065	YFT	Arrival	12.0	-	-
08-Nov	16:12	3A167	YFT	Departure	12.2	-	-
08-Nov	16:30	8S218	MFM	Arrival	11.7	-	-
08-Nov	16:39	3A083	ZUI	Arrival	12.2	-	-
08-Nov	17:03	8S126	MFM	Departure	12.9	-	-
08-Nov	17:06	3A183	ZUI	Departure	13.4	-	-
08-Nov	17:10	3A067	YFT	Arrival	11.8	-	-
08-Nov	19:05	3A166	YFT	Departure	12.5	-	-
08-Nov	19:51	3A084	ZUI	Arrival	12.2	-	-
08-Nov	20:09	3A185	ZUI	Departure	13.4	-	-
08-Nov	20:59	8S2113	MFM	Arrival	11.6	-	-
08-Nov	21:00	3A169	YFT	Departure	13.4	-	-
08-Nov	21:59	8S522	MFM	Departure	11.8	-	-
09-Nov	08:19	3A061	YFT	Arrival	11.4	-	-
09-Nov	08:23	8S210	MFM	Arrival	12.8	-	-
09-Nov	09:58	3A071	MFM	Arrival	13.0	-	-
09-Nov	10:41	8S212	MFM	Arrival	12.3	-	-
09-Nov	10:44	3A081	ZUI	Arrival	12.4	-	-
09-Nov	11:03	8S121	MFM	Departure	12.7	-	-
09-Nov	11:23	3A063	YFT	Arrival	11.7	-	-
09-Nov	12:10	3A181	ZUI	Departure	13.6	-	-
09-Nov	12:17	3A168	YFT	Departure	12.9	-	-
09-Nov	12:50	8S215	MFM	Arrival	12.9	-	-
09-Nov	13:01	3A064	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)
09-Nov	13:11	8S123	MFM	Departure	13.7	-	-
09-Nov	13:43	3A082	ZUI	Arrival	11.9	-	-
09-Nov	14:18	3A182	ZUI	Departure	12.8	-	-
09-Nov	14:20	3A164	YFT	Departure	13.1	-	-
09-Nov	15:09	3A065	YFT	Arrival	12.2	-	-
09-Nov	16:20	3A167	YFT	Departure	12.7	-	-
09-Nov	16:37	3A083	ZUI	Arrival	12.3	-	-
09-Nov	16:42	8S218	MFM	Arrival	12.7	-	-
09-Nov	16:57	3A067	YFT	Arrival	12.5	-	-
09-Nov	17:13	3A183	ZUI	Departure	12.5	-	-
09-Nov	17:14	8S126	MFM	Departure	13.8	-	-
09-Nov	19:04	3A166	YFT	Departure	12.0	-	-
09-Nov	19:44	3A084	ZUI	Arrival	13.3	-	-
09-Nov	20:11	3A185	ZUI	Departure	13.8	-	-
09-Nov	20:54	8S2113	MFM	Arrival	9.4	-	-
09-Nov	21:00	3A169	YFT	Departure	12.8	-	-
09-Nov	22:14	8S522	MFM	Departure	12.9	-	-
10-Nov	08:20	3A061	YFT	Arrival	12.0	-	-
10-Nov	08:28	8S210	MFM	Arrival	13.1	-	-
10-Nov	10:01	3A071	MFM	Arrival	12.1	-	-
10-Nov	10:45	8S212	MFM	Arrival	11.5	-	-
10-Nov	10:45	3A081	ZUI	Arrival	12.7	-	-
10-Nov	11:08	8S121	MFM	Departure	12.5	-	-
10-Nov	11:16	3A063	YFT	Arrival	11.5	-	-
10-Nov	12:23	3A181	ZUI	Departure	13.4	-	-
10-Nov	12:25	3A168	YFT	Departure	12.0	-	-
10-Nov	12:49	8S215	MFM	Arrival	11.9	-	-
10-Nov	13:05	3A064	YFT	Arrival	12.0	-	-
10-Nov	13:14	8S123	MFM	Departure	12.5	-	-
10-Nov	13:55	3A082	ZUI	Arrival	13.4	-	-
10-Nov	14:15	3A164	YFT	Departure	13.1	-	-
10-Nov	14:20	3A182	ZUI	Departure	12.8	-	-
10-Nov	15:01	3A065	YFT	Arrival	11.5	-	-
10-Nov	16:17	3A167	YFT	Departure	11.8	-	-
10-Nov	16:32	3A083	ZUI	Arrival	12.8	-	-
10-Nov	16:43	8S218	MFM	Arrival	10.7	-	-
10-Nov	17:04	3A067	YFT	Arrival	12.0	-	-
10-Nov	17:18	3A183	ZUI	Departure	12.4	-	-
10-Nov	17:21	8S126	MFM	Departure	12.7	-	-
10-Nov	19:06	3A166	YFT	Departure	12.2	-	-
10-Nov	19:44	3A084	ZUI	Arrival	12.7	-	-
10-Nov	20:09	3A185	ZUI	Departure	13.1	-	-
10-Nov	20:54	8S2113	MFM	Arrival	11.8	-	-
10-Nov	21:10	3A169	YFT	Departure	11.8	-	-
10-Nov	21:52	8S522	MFM	Departure	13.1	-	-
11-Nov	08:27	3A061	YFT	Arrival	11.8	-	-
11-Nov	08:37	8S210	MFM	Arrival	12.8	≤5	<1
11-Nov	10:05	3A071	MFM	Arrival	12.0	-	-
11-Nov	10:41	3A081	ZUI	Arrival	13.3	-	-
11-Nov	10:42	8S212	MFM	Arrival	11.4	-	-
11-Nov	11:12	8S121	MFM	Departure	11.1	-	-
11-Nov	11:31	3A063	YFT	Arrival	11.5	-	-
11-Nov	12:21	3A168	YFT	Departure	12.0	-	-
11-Nov	12:25	3A181	ZUI	Departure	13.4	-	-
11-Nov	12:58	8S215	MFM	Arrival	12.1	-	-
11-Nov	13:00	3A064	YFT	Arrival	12.5	-	-
11-Nov	13:27	8S123	MFM	Departure	13.0	-	-
11-Nov	13:50	3A082	ZUI	Arrival	13.3	-	-
11-Nov	14:16	3A164	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)
11-Nov	14:19	3A182	ZUI	Departure	13.2	-	-
11-Nov	15:08	3A065	YFT	Arrival	11.9	-	-
11-Nov	16:15	3A167	YFT	Departure	11.7	-	-
11-Nov	16:39	3A083	ZUI	Arrival	12.4	-	-
11-Nov	16:44	8S218	MFM	Arrival	11.9	-	-
11-Nov	17:00	3A067	YFT	Arrival	12.5	-	-
11-Nov	17:10	3A183	ZUI	Departure	13.4	-	-
11-Nov	17:14	8S126	MFM	Departure	12.9	-	-
11-Nov	19:04	3A166	YFT	Departure	11.6	-	-
11-Nov	19:44	3A084	ZUI	Arrival	13.1	-	-
11-Nov	20:10	3A185	ZUI	Departure	13.6	-	-
11-Nov	20:53	8S2113	MFM	Arrival	12.7	-	-
11-Nov	20:59	3A169	YFT	Departure	11.5	-	-
11-Nov	22:00	8S522	MFM	Departure	13.8	>15	<2
12-Nov	08:24	3A061	YFT	Arrival	12.6	-	-
12-Nov	08:33	8S210	MFM	Arrival	13.0	-	-
12-Nov	10:02	3A071	MFM	Arrival	12.7	-	-
12-Nov	10:45	8S212	MFM	Arrival	12.4	-	-
12-Nov	10:50	3A081	ZUI	Arrival	12.6	-	-
12-Nov	11:14	8S121	MFM	Departure	11.2	-	-
12-Nov	11:27	3A063	YFT	Arrival	11.9	-	-
12-Nov	12:11	3A168	YFT	Departure	12.9	-	-
12-Nov	12:13	3A181	ZUI	Departure	12.9	-	-
12-Nov	12:58	3A064	YFT	Arrival	13.2	-	-
12-Nov	13:09	8S215	MFM	Arrival	13.3	-	-
12-Nov	13:30	8S123	MFM	Departure	13.4	-	-
12-Nov	13:50	3A082	ZUI	Arrival	12.4	-	-
12-Nov	14:14	3A164	YFT	Departure	13.5	-	-
12-Nov	14:15	3A182	ZUI	Departure	12.7	-	-
12-Nov	15:02	3A065	YFT	Arrival	12.3	-	-
12-Nov	16:18	3A167	YFT	Departure	12.7	-	-
12-Nov	16:33	3A083	ZUI	Arrival	13.0	-	-
12-Nov	16:52	8S218	MFM	Arrival	13.2	-	-
12-Nov	16:57	3A067	YFT	Arrival	12.7	-	-
12-Nov	17:02	3A183	ZUI	Departure	13.0	-	-
12-Nov	17:14	8S126	MFM	Departure	13.3	-	-
12-Nov	19:16	3A166	YFT	Departure	12.4	-	-
12-Nov	19:45	3A084	ZUI	Arrival	12.7	-	-
12-Nov	20:03	3A185	ZUI	Departure	13.6	-	-
12-Nov	20:57	8S2113	MFM	Arrival	12.6	-	-
12-Nov	21:01	3A169	YFT	Departure	11.6	-	-
12-Nov	22:00	8S522	MFM	Departure	16.4	>15	<2
13-Nov	08:22	3A061	YFT	Arrival	12.2	-	-
13-Nov	08:31	8S210	MFM	Arrival	12.8	-	-
13-Nov	10:04	3A071	MFM	Arrival	11.2	-	-
13-Nov	10:39	8S212	MFM	Arrival	12.1	-	-
13-Nov	10:49	3A081	ZUI	Arrival	13.4	-	-
13-Nov	11:15	8S121	MFM	Departure	12.6	-	-
13-Nov	11:24	3A063	YFT	Arrival	12.2	-	-
13-Nov	12:15	3A181	ZUI	Departure	13.7	-	-
13-Nov	12:20	3A168	YFT	Departure	12.7	-	-
13-Nov	12:58	8S215	MFM	Arrival	10.4	-	-
13-Nov	13:06	3A064	YFT	Arrival	12.0	-	-
13-Nov	13:25	8S123	MFM	Departure	11.6	-	-
13-Nov	13:49	3A082	ZUI	Arrival	13.2	-	-
13-Nov	14:21	3A164	YFT	Departure	11.5	-	-
13-Nov	14:23	3A182	ZUI	Departure	11.6	-	-
13-Nov	14:59	3A065	YFT	Arrival	12.2	-	-
13-Nov	16:21	3A167	YFT	Departure	13.1	-	-

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)
13-Nov	16:35	3A083	ZUI	Arrival	12.8	-	-
13-Nov	16:51	8S218	MFM	Arrival	12.4	-	-
13-Nov	17:07	3A067	YFT	Arrival	11.3	-	-
13-Nov	17:20	3A183	ZUI	Departure	13.9	-	-
13-Nov	17:21	8S126	MFM	Departure	11.9	-	-
13-Nov	19:03	3A166	YFT	Departure	12.4	-	-
13-Nov	19:47	3A084	ZUI	Arrival	12.4	-	-
13-Nov	20:07	3A185	ZUI	Departure	13.5	-	-
13-Nov	20:58	8S2113	MFM	Arrival	13.6	-	-
13-Nov	20:58	3A169	YFT	Departure	12.7	-	-
13-Nov	22:04	8S522	MFM	Departure	13.0	-	-
14-Nov	08:20	3A061	YFT	Arrival	12.8	-	-
14-Nov	08:35	8S210	MFM	Arrival	12.1	-	-
14-Nov	09:11	8S1226	MFM	Departure	10.1	-	-
14-Nov	10:09	3A071	MFM	Arrival	11.7	-	-
14-Nov	10:42	8S212	MFM	Arrival	12.1	-	-
14-Nov	10:46	3A081	ZUI	Arrival	13.9	-	-
14-Nov	11:09	8S121	MFM	Departure	12.9	-	-
14-Nov	11:24	3A063	YFT	Arrival	13.5	-	-
14-Nov	12:14	3A168	YFT	Departure	13.7	-	-
14-Nov	12:17	3A181	ZUI	Departure	13.4	-	-
14-Nov	12:56	8S215	MFM	Arrival	12.5	-	-
14-Nov	13:09	3A064	YFT	Arrival	11.5	-	-
14-Nov	13:28	8S123	MFM	Departure	12.0	-	-
14-Nov	13:46	3A082	ZUI	Arrival	12.9	-	-
14-Nov	14:13	3A182	ZUI	Departure	12.9	-	-
14-Nov	14:19	3A164	YFT	Departure	11.2	-	-
14-Nov	14:55	3A065	YFT	Arrival	13.5	≤5	<1
14-Nov	16:33	3A167	YFT	Departure	13.6	-	-
14-Nov	16:42	3A083	ZUI	Arrival	13.4	-	-
14-Nov	16:45	8S218	MFM	Arrival	12.7	-	-
14-Nov	17:05	3A067	YFT	Arrival	12.6	-	-
14-Nov	17:06	3A183	ZUI	Departure	12.9	-	-
14-Nov	17:23	8S126	MFM	Departure	12.7	-	-
14-Nov	19:11	3A166	YFT	Departure	12.0	-	-
14-Nov	19:47	3A084	ZUI	Arrival	13.7	-	-
14-Nov	20:13	3A185	ZUI	Departure	11.7	-	-
14-Nov	20:53	8S2113	MFM	Arrival	12.6	-	-
14-Nov	21:06	3A169	YFT	Departure	12.0	-	-
14-Nov	22:04	8S522	MFM	Departure	12.8	-	-
15-Nov	08:17	3A061	YFT	Arrival	12.6	≤5	<1
15-Nov	08:33	8S210	MFM	Arrival	11.1	-	-
15-Nov	10:02	3A071	MFM	Arrival	11.6	-	-
15-Nov	10:40	3A081	ZUI	Arrival	14.0	-	-
15-Nov	10:47	8S212	MFM	Arrival	11.6	-	-
15-Nov	11:17	8S121	MFM	Departure	11.5	-	-
15-Nov	11:28	3A063	YFT	Arrival	11.4	-	-
15-Nov	12:16	3A181	ZUI	Departure	13.1	-	-
15-Nov	12:17	3A168	YFT	Departure	12.6	-	-
15-Nov	12:54	8S215	MFM	Arrival	12.9	-	-
15-Nov	13:02	3A064	YFT	Arrival	12.9	-	-
15-Nov	13:23	8S123	MFM	Departure	12.0	-	-
15-Nov	13:52	3A082	ZUI	Arrival	12.8	-	-
15-Nov	14:24	3A164	YFT	Departure	13.3	-	-
15-Nov	14:26	3A182	ZUI	Departure	12.5	-	-
15-Nov	15:02	3A065	YFT	Arrival	12.0	-	-
15-Nov	16:19	3A167	YFT	Departure	12.5	-	-
15-Nov	16:38	3A083	ZUI	Arrival	13.6	-	-
15-Nov	16:46	8S218	MFM	Arrival	12.3	-	-

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)
15-Nov	16:55	3A067	YFT	Arrival	13.2	-	-
15-Nov	17:16	3A183	ZUI	Departure	13.1	-	-
15-Nov	17:28	8S126	MFM	Departure	13.4	-	-
15-Nov	19:10	3A166	YFT	Departure	12.9	-	-
15-Nov	19:51	3A084	ZUI	Arrival	13.6	-	-
15-Nov	20:10	3A185	ZUI	Departure	12.7	-	-
15-Nov	20:51	8S2113	MFM	Arrival	12.5	-	-
15-Nov	21:04	3A169	YFT	Departure	11.5	-	-
15-Nov	22:14	8S522	MFM	Departure	12.2	-	-
16-Nov	08:22	3A061	YFT	Arrival	12.2	-	-
16-Nov	08:26	8S210	MFM	Arrival	12.7	-	-
16-Nov	10:00	3A071	MFM	Arrival	12.2	-	-
16-Nov	10:40	8S212	MFM	Arrival	11.3	-	-
16-Nov	10:47	3A081	ZUI	Arrival	13.1	-	-
16-Nov	11:04	8S121	MFM	Departure	12.5	-	-
16-Nov	11:40	3A063	YFT	Arrival	11.6	-	-
16-Nov	12:27	3A168	YFT	Departure	13.0	-	-
16-Nov	12:29	3A181	ZUI	Departure	13.1	-	-
16-Nov	12:46	8S215	MFM	Arrival	13.4	-	-
16-Nov	13:00	3A064	YFT	Arrival	12.6	-	-
16-Nov	13:20	8S123	MFM	Departure	11.1	-	-
16-Nov	13:56	3A082	ZUI	Arrival	13.6	-	-
16-Nov	14:17	3A164	YFT	Departure	13.0	-	-
16-Nov	14:23	3A182	ZUI	Departure	13.9	-	-
16-Nov	14:59	3A065	YFT	Arrival	12.5	-	-
16-Nov	16:21	3A167	YFT	Departure	12.8	-	-
16-Nov	16:38	3A083	ZUI	Arrival	13.8	≤5	<1
16-Nov	16:42	8S218	MFM	Arrival	12.9	-	-
16-Nov	17:02	3A067	YFT	Arrival	12.6	-	-
16-Nov	17:16	3A183	ZUI	Departure	13.8	-	-
16-Nov	17:19	8S126	MFM	Departure	13.8	-	-
16-Nov	19:01	3A166	YFT	Departure	12.8	-	-
16-Nov	19:53	3A084	ZUI	Arrival	13.3	-	-
16-Nov	20:06	3A185	ZUI	Departure	13.0	-	-
16-Nov	21:00	8S2113	MFM	Arrival	12.4	-	-
16-Nov	21:03	3A169	YFT	Departure	11.4	-	-
16-Nov	22:07	8S522	MFM	Departure	12.5	-	-
17-Nov	08:17	3A061	YFT	Arrival	13.0	-	-
17-Nov	08:25	8S210	MFM	Arrival	13.2	-	-
17-Nov	09:53	3A071	MFM	Arrival	11.9	-	-
17-Nov	10:38	8S212	MFM	Arrival	11.9	-	-
17-Nov	10:42	3A081	ZUI	Arrival	12.8	-	-
17-Nov	11:09	8S121	MFM	Departure	13.1	-	-
17-Nov	11:20	3A063	YFT	Arrival	11.2	-	-
17-Nov	12:18	3A168	YFT	Departure	11.3	-	-
17-Nov	12:19	3A181	ZUI	Departure	13.7	-	-
17-Nov	12:53	8S215	MFM	Arrival	11.8	-	-
17-Nov	12:59	3A064	YFT	Arrival	11.5	-	-
17-Nov	13:18	8S123	MFM	Departure	12.8	-	-
17-Nov	13:58	3A082	ZUI	Arrival	13.2	-	-
17-Nov	14:18	3A164	YFT	Departure	11.2	-	-
17-Nov	14:22	3A182	ZUI	Departure	11.8	-	-
17-Nov	14:50	3A065	YFT	Arrival	11.7	-	-
17-Nov	16:17	3A167	YFT	Departure	10.7	-	-
17-Nov	16:34	3A083	ZUI	Arrival	13.9	-	-
17-Nov	16:42	8S218	MFM	Arrival	12.9	-	-
17-Nov	16:59	3A067	YFT	Arrival	12.3	-	-
17-Nov	17:03	3A183	ZUI	Departure	13.0	-	-
17-Nov	17:07	8S126	MFM	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)
17-Nov	19:09	3A166	YFT	Departure	12.2	-	-
17-Nov	19:50	3A084	ZUI	Arrival	13.6	-	-
17-Nov	20:13	3A185	ZUI	Departure	13.3	-	-
17-Nov	20:59	3A169	YFT	Departure	12.8	-	-
17-Nov	21:00	8S2113	MFM	Arrival	11.7	-	-
17-Nov	22:00	8S522	MFM	Departure	12.3	-	-
18-Nov	08:13	3A061	YFT	Arrival	11.6	-	-
18-Nov	08:31	8S210	MFM	Arrival	11.8	-	-
18-Nov	09:51	3A071	MFM	Arrival	11.6	-	-
18-Nov	10:34	8S212	MFM	Arrival	11.9	-	-
18-Nov	10:42	3A081	ZUI	Arrival	12.7	-	-
18-Nov	10:58	8S121	MFM	Departure	11.6	-	-
18-Nov	11:26	3A063	YFT	Arrival	12.5	-	-
18-Nov	12:13	3A168	YFT	Departure	11.5	-	-
18-Nov	12:15	3A181	ZUI	Departure	13.1	-	-
18-Nov	12:47	8S215	MFM	Arrival	13.5	-	-
18-Nov	13:00	3A064	YFT	Arrival	12.6	-	-
18-Nov	13:13	8S123	MFM	Departure	13.1	-	-
18-Nov	13:47	3A082	ZUI	Arrival	13.9	-	-
18-Nov	14:16	3A164	YFT	Departure	12.7	-	-
18-Nov	14:19	3A182	ZUI	Departure	13.0	-	-
18-Nov	14:57	3A065	YFT	Arrival	12.0	-	-
18-Nov	16:22	3A167	YFT	Departure	13.3	-	-
18-Nov	16:36	3A083	ZUI	Arrival	12.7	-	-
18-Nov	16:40	8S218	MFM	Arrival	13.7	-	-
18-Nov	16:53	3A067	YFT	Arrival	13.0	-	-
18-Nov	16:59	3A183	ZUI	Departure	13.3	-	-
18-Nov	17:03	8S126	MFM	Departure	13.3	-	-
18-Nov	19:09	3A166	YFT	Departure	11.8	-	-
18-Nov	19:51	3A084	ZUI	Arrival	12.8	-	-
18-Nov	20:07	3A185	ZUI	Departure	13.4	-	-
18-Nov	20:52	8S2113	MFM	Arrival	12.4	-	-
18-Nov	20:59	3A169	YFT	Departure	12.3	-	-
18-Nov	22:00	8S522	MFM	Departure	12.8	-	-
19-Nov	08:19	3A061	YFT	Arrival	11.3	-	-
19-Nov	08:24	8S210	MFM	Arrival	12.0	-	-
19-Nov	09:56	3A071	MFM	Arrival	11.2	-	-
19-Nov	10:42	3A081	ZUI	Arrival	12.3	-	-
19-Nov	10:43	8S212	MFM	Arrival	11.3	-	-
19-Nov	11:03	8S121	MFM	Departure	11.4	-	-
19-Nov	11:23	3A063	YFT	Arrival	9.6	-	-
19-Nov	12:15	3A181	ZUI	Departure	12.9	-	-
19-Nov	12:21	3A168	YFT	Departure	11.1	-	-
19-Nov	12:46	8S215	MFM	Arrival	11.1	-	-
19-Nov	13:04	3A064	YFT	Arrival	10.7	-	-
19-Nov	13:14	8S123	MFM	Departure	12.2	-	-
19-Nov	13:50	3A082	ZUI	Arrival	13.1	-	-
19-Nov	14:18	3A182	ZUI	Departure	12.4	-	-
19-Nov	14:19	3A164	YFT	Departure	12.1	-	-
19-Nov	14:56	3A065	YFT	Arrival	12.0	-	-
19-Nov	16:17	3A167	YFT	Departure	12.0	-	-
19-Nov	16:35	3A083	ZUI	Arrival	13.1	-	-
19-Nov	16:44	8S218	MFM	Arrival	10.8	-	-
19-Nov	17:01	3A067	YFT	Arrival	11.5	-	-
19-Nov	17:01	3A183	ZUI	Departure	13.9	-	-
19-Nov	17:05	8S126	MFM	Departure	11.3	-	-
19-Nov	19:07	3A166	YFT	Departure	12.4	-	-
19-Nov	19:43	3A084	ZUI	Arrival	13.3	-	-
19-Nov	20:08	3A185	ZUI	Departure	14.1	-	-

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)
19-Nov	20:55	3A169	YFT	Departure	12.9	-	-
19-Nov	21:03	8S2113	MFM	Arrival	9.3	-	-
19-Nov	21:53	8S522	MFM	Departure	10.8	-	-
20-Nov	08:20	3A061	YFT	Arrival	11.7	-	-
20-Nov	08:33	8S210	MFM	Arrival	11.9	-	-
20-Nov	09:55	3A071	MFM	Arrival	11.5	-	-
20-Nov	10:40	8S212	MFM	Arrival	10.8	-	-
20-Nov	10:51	3A081	ZUI	Arrival	13.0	-	-
20-Nov	11:08	8S121	MFM	Departure	11.1	-	-
20-Nov	11:18	3A063	YFT	Arrival	11.7	-	-
20-Nov	12:11	3A181	ZUI	Departure	13.3	-	-
20-Nov	12:17	3A168	YFT	Departure	12.6	-	-
20-Nov	12:47	8S215	MFM	Arrival	11.6	-	-
20-Nov	13:02	3A064	YFT	Arrival	12.5	-	-
20-Nov	13:14	8S123	MFM	Departure	12.7	-	-
20-Nov	13:53	3A082	ZUI	Arrival	12.5	-	-
20-Nov	14:16	3A164	YFT	Departure	12.5	-	-
20-Nov	14:21	3A182	ZUI	Departure	13.1	-	-
20-Nov	14:54	3A065	YFT	Arrival	12.7	-	-
20-Nov	16:10	3A167	YFT	Departure	13.2	-	-
20-Nov	16:44	3A083	ZUI	Arrival	13.3	-	-
20-Nov	16:51	8S218	MFM	Arrival	11.9	-	-
20-Nov	17:07	3A067	YFT	Arrival	9.7	-	-
20-Nov	17:18	8S126	MFM	Departure	12.1	-	-
20-Nov	17:19	3A183	ZUI	Departure	13.3	-	-
20-Nov	19:11	3A166	YFT	Departure	13.0	-	-
20-Nov	19:52	3A084	ZUI	Arrival	12.6	-	-
20-Nov	20:17	3A185	ZUI	Departure	13.5	-	-
20-Nov	20:59	8S2113	MFM	Arrival	12.3	-	-
20-Nov	21:00	3A169	YFT	Departure	12.2	≤5	<1
20-Nov	22:01	8S522	MFM	Departure	11.9	-	-
21-Nov	08:14	3A061	YFT	Arrival	12.5	-	-
21-Nov	08:34	8S210	MFM	Arrival	11.7	-	-
21-Nov	10:02	3A071	MFM	Arrival	12.6	-	-
21-Nov	10:44	3A081	ZUI	Arrival	11.3	-	-
21-Nov	10:50	8S212	MFM	Arrival	12.7	-	-
21-Nov	11:16	8S121	MFM	Departure	11.7	-	-
21-Nov	11:35	3A063	YFT	Arrival	12.9	-	-
21-Nov	12:14	3A168	YFT	Departure	13.2	-	-
21-Nov	12:16	3A181	ZUI	Departure	13.0	-	-
21-Nov	12:50	8S215	MFM	Arrival	11.9	-	-
21-Nov	13:01	3A064	YFT	Arrival	11.7	-	-
21-Nov	13:18	8S123	MFM	Departure	12.2	-	-
21-Nov	13:47	3A082	ZUI	Arrival	12.6	-	-
21-Nov	14:19	3A164	YFT	Departure	12.2	-	-
21-Nov	14:21	3A182	ZUI	Departure	12.4	-	-
21-Nov	14:57	3A065	YFT	Arrival	13.0	-	-
21-Nov	16:22	3A167	YFT	Departure	13.7	-	-
21-Nov	16:32	3A083	ZUI	Arrival	12.3	-	-
21-Nov	16:43	8S218	MFM	Arrival	12.1	-	-
21-Nov	16:54	3A067	YFT	Arrival	12.5	-	-
21-Nov	17:04	3A183	ZUI	Departure	13.5	-	-
21-Nov	17:23	8S126	MFM	Departure	13.8	-	-
21-Nov	19:04	3A166	YFT	Departure	11.4	-	-
21-Nov	19:44	3A084	ZUI	Arrival	12.4	-	-
21-Nov	20:08	3A185	ZUI	Departure	13.3	-	-
21-Nov	20:57	3A169	YFT	Departure	12.8	-	-
21-Nov	21:05	8S2113	MFM	Arrival	11.2	-	-
21-Nov	22:03	8S522	MFM	Departure	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)
22-Nov	08:20	3A061	YFT	Arrival	12.5	-	-
22-Nov	08:25	8S210	MFM	Arrival	13.1	-	-
22-Nov	09:56	3A071	MFM	Arrival	12.1	-	-
22-Nov	10:38	3A081	ZUI	Arrival	13.2	-	-
22-Nov	10:39	8S212	MFM	Arrival	11.7	-	-
22-Nov	11:08	8S121	MFM	Departure	11.9	-	-
22-Nov	11:23	3A063	YFT	Arrival	11.9	-	-
22-Nov	12:12	3A168	YFT	Departure	12.4	-	-
22-Nov	12:15	3A181	ZUI	Departure	13.6	-	-
22-Nov	12:45	8S215	MFM	Arrival	10.7	≤5	<1
22-Nov	13:13	3A064	YFT	Arrival	12.1	-	-
22-Nov	13:17	8S123	MFM	Departure	10.7	-	-
22-Nov	13:48	3A082	ZUI	Arrival	14.0	-	-
22-Nov	14:22	3A164	YFT	Departure	12.7	-	-
22-Nov	14:24	3A182	ZUI	Departure	10.5	-	-
22-Nov	15:03	3A065	YFT	Arrival	12.4	-	-
22-Nov	16:16	3A167	YFT	Departure	11.2	-	-
22-Nov	16:35	3A083	ZUI	Arrival	13.1	-	-
22-Nov	16:49	8S218	MFM	Arrival	8.5	-	-
22-Nov	17:00	3A067	YFT	Arrival	12.5	-	-
22-Nov	17:06	3A183	ZUI	Departure	13.7	-	-
22-Nov	17:18	8S126	MFM	Departure	13.0	-	-
22-Nov	19:03	3A166	YFT	Departure	11.5	-	-
22-Nov	19:45	3A084	ZUI	Arrival	13.6	-	-
22-Nov	20:07	3A185	ZUI	Departure	13.7	-	-
22-Nov	21:00	3A169	YFT	Departure	11.7	-	-
22-Nov	21:03	8S2113	MFM	Arrival	12.5	-	-
22-Nov	22:06	8S522	MFM	Departure	Not follow the diverted route	-	-
23-Nov	08:23	3A061	YFT	Arrival	12.3	-	-
23-Nov	08:28	8S210	MFM	Arrival	10.6	-	-
23-Nov	09:53	3A071	MFM	Arrival	12.3	-	-
23-Nov	10:44	8S212	MFM	Arrival	11.9	-	-
23-Nov	10:46	3A081	ZUI	Arrival	12.9	-	-
23-Nov	11:15	3A063	YFT	Arrival	12.0	-	-
23-Nov	11:18	8S121	MFM	Departure	12.0	-	-
23-Nov	12:06	3A181	ZUI	Departure	13.4	-	-
23-Nov	12:15	3A168	YFT	Departure	12.4	-	-
23-Nov	12:50	8S215	MFM	Arrival	12.1	-	-
23-Nov	13:07	3A064	YFT	Arrival	11.1	-	-
23-Nov	13:16	8S123	MFM	Departure	12.2	-	-
23-Nov	13:57	3A082	ZUI	Arrival	12.7	-	-
23-Nov	14:17	3A164	YFT	Departure	11.2	-	-
23-Nov	14:19	3A182	ZUI	Departure	13.0	-	-
23-Nov	14:57	3A065	YFT	Arrival	11.7	-	-
23-Nov	16:17	3A167	YFT	Departure	12.3	-	-
23-Nov	16:40	3A083	ZUI	Arrival	12.8	-	-
23-Nov	16:47	8S218	MFM	Arrival	12.2	-	-
23-Nov	16:59	3A067	YFT	Arrival	11.3	-	-
23-Nov	17:14	3A183	ZUI	Departure	13.2	-	-
23-Nov	17:16	8S126	MFM	Departure	12.9	-	-
23-Nov	19:05	3A166	YFT	Departure	12.4	-	-
23-Nov	19:58	3A084	ZUI	Arrival	11.8	-	-
23-Nov	20:21	3A185	ZUI	Departure	12.4	-	-
23-Nov	21:04	8S2113	MFM	Arrival	13.3	-	-
23-Nov	21:11	3A169	YFT	Departure	12.4	-	-
24-Nov	08:13	3A061	YFT	Arrival	12.2	-	-
24-Nov	08:30	8S210	MFM	Arrival	12.2	-	-
24-Nov	09:59	3A071	MFM	Arrival	12.4	-	-
24-Nov	10:41	8S212	MFM	Arrival	11.8	-	-

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)
24-Nov	10:43	3A081	ZUI	Arrival	12.9	-	-
24-Nov	11:06	8S121	MFM	Departure	12.4	-	-
24-Nov	11:30	3A063	YFT	Arrival	10.9	-	-
24-Nov	12:17	3A168	YFT	Departure	11.8	-	-
24-Nov	12:20	3A181	ZUI	Departure	13.5	-	-
24-Nov	12:48	8S215	MFM	Arrival	10.9	-	-
24-Nov	12:59	3A064	YFT	Arrival	12.1	-	-
24-Nov	13:18	8S123	MFM	Departure	11.5	-	-
24-Nov	14:03	3A082	ZUI	Arrival	12.4	-	-
24-Nov	14:22	3A182	ZUI	Departure	13.5	-	-
24-Nov	14:23	3A164	YFT	Departure	12.9	-	-
24-Nov	15:03	3A065	YFT	Arrival	12.7	-	-
24-Nov	16:15	3A167	YFT	Departure	13.1	-	-
24-Nov	16:36	8S218	MFM	Arrival	11.5	-	-
24-Nov	16:37	3A083	ZUI	Arrival	12.1	-	-
24-Nov	17:02	3A067	YFT	Arrival	11.9	-	-
24-Nov	17:02	3A183	ZUI	Departure	13.8	-	-
24-Nov	17:03	8S126	MFM	Departure	12.3	-	-
24-Nov	19:05	3A166	YFT	Departure	12.8	-	-
24-Nov	19:59	3A084	ZUI	Arrival	12.0	-	-
24-Nov	20:18	3A185	ZUI	Departure	13.0	-	-
24-Nov	20:59	8S2113	MFM	Arrival	11.3	-	-
24-Nov	21:03	3A169	YFT	Departure	12.3	-	-
24-Nov	22:13	8S522	MFM	Departure	13.5	-	-
25-Nov	08:18	3A061	YFT	Arrival	12.7	-	-
25-Nov	08:32	8S210	MFM	Arrival	11.8	-	-
25-Nov	09:55	3A071	MFM	Arrival	11.8	-	-
25-Nov	10:38	8S212	MFM	Arrival	12.2	-	-
25-Nov	10:42	3A081	ZUI	Arrival	13.3	-	-
25-Nov	11:09	8S121	MFM	Departure	12.1	-	-
25-Nov	11:30	3A063	YFT	Arrival	10.6	-	-
25-Nov	12:13	3A181	ZUI	Departure	13.9	-	-
25-Nov	12:20	3A168	YFT	Departure	10.7	-	-
25-Nov	12:55	8S215	MFM	Arrival	11.7	-	-
25-Nov	13:01	3A064	YFT	Arrival	12.3	-	-
25-Nov	13:21	8S123	MFM	Departure	12.7	-	-
25-Nov	14:00	3A082	ZUI	Arrival	12.6	-	-
25-Nov	14:17	3A164	YFT	Departure	13.2	-	-
25-Nov	14:18	3A182	ZUI	Departure	13.3	-	-
25-Nov	15:09	3A065	YFT	Arrival	11.2	-	-
25-Nov	16:16	3A167	YFT	Departure	11.7	-	-
25-Nov	16:34	3A083	ZUI	Arrival	12.9	-	-
25-Nov	16:41	8S218	MFM	Arrival	10.9	-	-
25-Nov	17:05	3A183	ZUI	Departure	14.0	-	-
25-Nov	17:09	3A067	YFT	Arrival	13.1	-	-
25-Nov	17:09	8S126	MFM	Departure	12.5	-	-
25-Nov	19:03	3A166	YFT	Departure	12.1	-	-
25-Nov	19:47	3A084	ZUI	Arrival	13.2	-	-
25-Nov	20:10	3A185	ZUI	Departure	14.1	-	-
25-Nov	20:50	8S2113	MFM	Arrival	13.9	-	-
25-Nov	20:58	3A169	YFT	Departure	13.1	-	-
25-Nov	22:01	8S522	MFM	Departure	12.6	-	-
26-Nov	08:19	3A061	YFT	Arrival	11.2	-	-
26-Nov	08:34	8S210	MFM	Arrival	12.5	-	-
26-Nov	10:04	3A071	MFM	Arrival	12.1	-	-
26-Nov	10:51	3A081	ZUI	Arrival	12.5	-	-
26-Nov	10:52	8S212	MFM	Arrival	11.8	-	-
26-Nov	11:26	3A063	YFT	Arrival	12.7	-	-
26-Nov	11:28	8S121	MFM	Departure	11.1	-	-

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)
26-Nov	12:13	3A168	YFT	Departure	12.7	-	-
26-Nov	12:14	3A181	ZUI	Departure	13.6	-	-
26-Nov	12:59	8S215	MFM	Arrival	11.6	-	-
26-Nov	13:16	3A064	YFT	Arrival	13.7	≤5	<1
26-Nov	13:22	8S123	MFM	Departure	12.0	-	-
26-Nov	13:51	3A082	ZUI	Arrival	11.5	-	-
26-Nov	14:15	3A182	ZUI	Departure	12.3	-	-
26-Nov	14:28	3A164	YFT	Departure	11.0	-	-
26-Nov	15:03	3A065	YFT	Arrival	11.8	-	-
26-Nov	16:13	3A167	YFT	Departure	12.9	-	-
26-Nov	16:41	3A083	ZUI	Arrival	12.2	-	-
26-Nov	16:48	8S218	MFM	Arrival	10.9	-	-
26-Nov	17:04	3A067	YFT	Arrival	11.9	-	-
26-Nov	17:05	3A183	ZUI	Departure	13.6	-	-
26-Nov	17:10	8S126	MFM	Departure	12.0	-	-
26-Nov	18:57	3A166	YFT	Departure	12.7	-	-
26-Nov	19:49	3A084	ZUI	Arrival	12.8	-	-
26-Nov	20:08	3A185	ZUI	Departure	13.2	-	-
26-Nov	21:04	3A169	YFT	Departure	12.7	-	-
26-Nov	21:20	8S2113	MFM	Arrival	12.1	-	-
26-Nov	22:00	8S522	MFM	Departure	12.1	-	-
27-Nov	08:14	3A061	YFT	Arrival	12.2	-	-
27-Nov	08:29	8S210	MFM	Arrival	11.8	-	-
27-Nov	09:56	3A071	MFM	Arrival	12.6	-	-
27-Nov	10:35	8S212	MFM	Arrival	12.5	-	-
27-Nov	10:48	3A081	ZUI	Arrival	13.2	-	-
27-Nov	11:02	8S121	MFM	Departure	12.3	-	-
27-Nov	11:27	3A063	YFT	Arrival	12.5	-	-
27-Nov	12:10	3A181	ZUI	Departure	13.8	-	-
27-Nov	12:13	3A168	YFT	Departure	12.8	-	-
27-Nov	12:54	8S215	MFM	Arrival	12.6	-	-
27-Nov	13:02	3A064	YFT	Arrival	13.1	-	-
27-Nov	13:19	8S123	MFM	Departure	13.6	-	-
27-Nov	13:58	3A082	ZUI	Arrival	13.1	-	-
27-Nov	14:15	3A164	YFT	Departure	13.7	-	-
27-Nov	14:20	3A182	ZUI	Departure	12.5	-	-
27-Nov	14:59	3A065	YFT	Arrival	12.4	-	-
27-Nov	16:20	3A167	YFT	Departure	13.3	-	-
27-Nov	16:44	3A083	ZUI	Arrival	13.0	-	-
27-Nov	16:50	8S218	MFM	Arrival	12.8	-	-
27-Nov	16:58	3A067	YFT	Arrival	12.4	-	-
27-Nov	17:16	3A183	ZUI	Departure	14.1	-	-
27-Nov	17:17	8S126	MFM	Departure	13.8	-	-
27-Nov	19:05	3A166	YFT	Departure	14.0	-	-
27-Nov	19:48	3A084	ZUI	Arrival	12.9	-	-
27-Nov	20:15	3A185	ZUI	Departure	14.0	-	-
27-Nov	20:52	8S2113	MFM	Arrival	12.3	-	-
27-Nov	20:58	3A169	YFT	Departure	12.6	-	-
28-Nov	08:18	3A061	YFT	Arrival	12.1	-	-
28-Nov	08:28	8S210	MFM	Arrival	12.0	-	-
28-Nov	10:04	3A071	MFM	Arrival	11.4	-	-
28-Nov	10:40	8S212	MFM	Arrival	10.6	-	-
28-Nov	10:49	3A081	ZUI	Arrival	13.1	-	-
28-Nov	11:11	8S121	MFM	Departure	11.1	-	-
28-Nov	11:28	3A063	YFT	Arrival	11.8	-	-
28-Nov	12:10	3A168	YFT	Departure	12.0	-	-
28-Nov	12:13	3A181	ZUI	Departure	13.3	-	-
28-Nov	12:41	8S215	MFM	Arrival	11.8	-	-
28-Nov	13:06	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)
28-Nov	13:12	8S123	MFM	Departure	10.9	-	-
28-Nov	13:57	3A082	ZUI	Arrival	12.9	-	-
28-Nov	14:14	3A164	YFT	Departure	12.6	-	-
28-Nov	14:19	3A182	ZUI	Departure	12.8	-	-
28-Nov	14:56	3A065	YFT	Arrival	12.3	-	-
28-Nov	16:32	3A167	YFT	Departure	12.8	-	-
28-Nov	16:38	3A083	ZUI	Arrival	12.0	-	-
28-Nov	16:43	8S218	MFM	Arrival	9.5	-	-
28-Nov	16:57	3A067	YFT	Arrival	12.0	-	-
28-Nov	17:05	3A183	ZUI	Departure	12.3	-	-
28-Nov	17:07	8S126	MFM	Departure	11.8	-	-
28-Nov	19:01	3A166	YFT	Departure	12.9	-	-
28-Nov	19:51	3A084	ZUI	Arrival	12.3	-	-
28-Nov	20:04	3A185	ZUI	Departure	12.8	-	-
28-Nov	21:05	8S2113	MFM	Arrival	10.7	-	-
28-Nov	21:06	3A169	YFT	Departure	13.7	-	-
29-Nov	08:17	3A061	YFT	Arrival	12.1	-	-
29-Nov	08:20	8S210	MFM	Arrival	11.8	-	-
29-Nov	09:52	3A071	MFM	Arrival	12.5	-	-
29-Nov	10:38	3A081	ZUI	Arrival	13.5	-	-
29-Nov	10:42	8S212	MFM	Arrival	10.8	-	-
29-Nov	11:12	8S121	MFM	Departure	11.4	-	-
29-Nov	11:17	3A063	YFT	Arrival	13.2	-	-
29-Nov	12:17	3A181	ZUI	Departure	13.5	-	-
29-Nov	12:22	3A168	YFT	Departure	13.5	-	-
29-Nov	12:48	8S215	MFM	Arrival	12.6	-	-
29-Nov	13:05	3A064	YFT	Arrival	9.5	-	-
29-Nov	13:13	8S123	MFM	Departure	13.0	-	-
29-Nov	13:55	3A082	ZUI	Arrival	13.0	-	-
29-Nov	14:22	3A164	YFT	Departure	11.0	-	-
29-Nov	14:23	3A182	ZUI	Departure	12.6	-	-
29-Nov	14:55	3A065	YFT	Arrival	13.1	-	-
29-Nov	16:13	3A167	YFT	Departure	13.8	-	-
29-Nov	16:35	3A083	ZUI	Arrival	12.8	≤5	<1
29-Nov	16:39	8S218	MFM	Arrival	13.3	-	-
29-Nov	17:01	3A183	ZUI	Departure	13.8	-	-
29-Nov	17:02	3A067	YFT	Arrival	11.5	-	-
29-Nov	17:36	8S126	MFM	Departure	12.8	-	-
29-Nov	19:01	3A166	YFT	Departure	11.8	-	-
29-Nov	19:50	3A084	ZUI	Arrival	10.3	-	-
29-Nov	20:08	3A185	ZUI	Departure	11.6	-	-
29-Nov	21:03	8S2113	MFM	Arrival	12.1	-	-
29-Nov	21:06	3A169	YFT	Departure	13.0	-	-
29-Nov	22:03	8S522	MFM	Departure	11.8	-	-
30-Nov	08:18	3A061	YFT	Arrival	13.4	-	-
30-Nov	08:26	8S210	MFM	Arrival	12.2	-	-
30-Nov	09:53	3A071	MFM	Arrival	12.5	-	-
30-Nov	10:42	3A081	ZUI	Arrival	13.0	-	-
30-Nov	10:42	8S212	MFM	Arrival	11.1	-	-
30-Nov	11:11	8S121	MFM	Departure	11.6	-	-
30-Nov	11:21	3A063	YFT	Arrival	13.0	-	-
30-Nov	12:10	3A181	ZUI	Departure	13.5	-	-
30-Nov	12:16	3A168	YFT	Departure	12.5	-	-
30-Nov	12:46	8S215	MFM	Arrival	12.4	-	-
30-Nov	13:04	3A064	YFT	Arrival	11.5	-	-
30-Nov	13:26	8S123	MFM	Departure	13.1	-	-
30-Nov	13:54	3A082	ZUI	Arrival	11.5	-	-
30-Nov	14:19	3A164	YFT	Departure	11.3	-	-
30-Nov	14:22	3A182	ZUI	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)
30-Nov	15:00	3A065	YFT	Arrival	13.0	-	-
30-Nov	16:19	3A167	YFT	Departure	12.2	-	-
30-Nov	16:36	3A083	ZUI	Arrival	13.2	-	-
30-Nov	16:47	8S218	MFM	Arrival	13.1	-	-
30-Nov	17:06	3A067	YFT	Arrival	11.1	-	-
30-Nov	17:09	8S126	MFM	Departure	13.6	-	-
30-Nov	17:10	3A183	ZUI	Departure	14.0	-	-
30-Nov	19:02	3A166	YFT	Departure	12.1	-	-
30-Nov	19:46	3A084	ZUI	Arrival	13.0	-	-
30-Nov	20:05	3A185	ZUI	Departure	13.4	-	-
30-Nov	21:04	3A169	YFT	Departure	11.3	-	-
30-Nov	21:04	8S2113	MFM	Arrival	11.3	-	-

Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in November 2016, 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 14 HSF movements. The duration of instantaneous speeding of 11 movements were less than one minute, whilst the remaining three movements lasted for less than two minutes. After investigation, the AIS data and ferry operators' responses showed the cases were due to local strong water currents or giving way to other vessels, which are public safety / emergency reasons. The captain had reduced speed and maintained the speed at less than 15 knots after the public safety / emergency incidents.

Nine HSF movements with insufficient transmission of AIS data received in October. AIS data was 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.